

4th World Congress of Reproductive Biology



 **WCRB** 

Sep. 27-29, 2017
Okinawa Convention Center
Okinawa, JAPAN

Organized by
the Society for Reproduction and Development
in full partnership with the following sister societies



Contents

1. Welcome & introduction	2
2. Participant information	4
3. Conference information.....	5
4. Floor plan	6
5. Trade exhibition.....	7
6. Overview	8
7. Scientific program	9
8. Plenary speaker biographies	17
9. Posters.....	19
10. Presentation information	60
11. Social program.....	61
12. Facilities information.....	62
13. Further information.....	63
14. Author index.....	64

Cover design: Nahoko Ieda & Sho Nakamura

1. Welcome & introduction

Dear Colleagues,

Welcome to the 4th World Congress of Reproductive Biology (WCRB 2017), held in Okinawa, Japan from September 27 to 29, 2017. On behalf of the Local Organizing Committee, I would like to extend our appreciation to you for joining us over the next three days. The Congress is hosted by the Society for Reproduction and Development (SRD), and aims to bring together leading academic scientists, researchers and research scholars to exchange and share their interests, experiences and research findings about all aspects of reproductive biology. The Congress provides plenary lectures, concurrent sessions, a WCRB–JSRE Special Joint Session, a sponsored Symposium, a luncheon seminar, a young scientists’ “meet the professors” session, and poster sessions for all the participants to present and discuss the recent trends and concerns in the field of reproductive biology. We also appreciate your contribution to this international conference, as scientists from 33 countries across the globe have submitted over 600 papers to present. We hope you will share with us the outstanding tradition of the WCRB and develop further values at the Congress.



The WCRB 2017 is organized by six international societies in partnership: the Society for the Study of Reproduction (SSR, USA), the Society for Reproductive Biology (SRB, Australia), the Society for Reproduction and Fertility (SRF, UK), the Chinese Society of Reproductive Biology (CSRB, China), the Korean Society of Animal Reproduction (KSAR, Korea), and the SRD (Japan). We appreciate the six sister societies for their partnership and scientific advice as well as financial support. In addition, we are grateful to the agencies, companies, and organizations that have generously committed financial support to this congress.

Thank you again for joining us here in Okinawa, which is one of the most beautiful islands in the world, surrounded by the Pacific Ocean, with Nature, a peaceful atmosphere, historical places and Ryukyuan cuisine. If there is any way we can make the congress more productive and enjoyable, please do not hesitate to ask me, the conference staff, or other members of the Organizing Committee. Enjoy the congress!

Sincerely,

Prof. Hiroko Tsukamura

Local Organizing Committee Chair, WCRB 2017

WCRB History

The first WCRB (WCRB 2008) hosted by SSR in Kona, Hawaii

The 2nd WCRB (WCRB 2011) hosted by SRB in Cairns, Australia

The 3rd WCRB (WCRB 2014) hosted by SRF in Edinburgh, Scotland

International Scientific Advisory Board

Dr. Hiroko Tsukamura (for SRD)
 Dr. Andy Childs (for SRF)
 Dr. Jeong Tae Do (for KSAR)
 Dr. John S Davis (for SSR)
 Dr. Tom P. Fleming (for SRF)
 Dr. Mark Green (for SRB)
 Dr. Franchesca Houghton (for SRF)
 Dr. Judith Jansen (for SSR)
 Dr. Hakhyun Ka (for KSAR)
 Dr. Man-Jong Kang (for KSAR)
 Dr. Kei-ichiro Maeda (for SRD)
 Dr. Tony Michael (for SRF)
 Dr. Chris O'Neill (for SRB)
 Dr. Qing-Yuan Sun (for CSRB)
 Dr. Haibin Wang (for CSRB)

Category Editors

Dr. Satoshi Akagi (Fertilization and embryos)
 Dr. Hiroki Hirayama (Uterus, implantation and placentas)
 Dr. Hisataka Iwata (Reproductive technology and stem cells)
 Dr. Shiro Kurusu (Ovary and follicles)
 Dr. Yasuo Nambo (Reproductive endocrinology)
 Dr. Goro Yoshizaki (Testis and spermatozoa)

Local Organizing Committee (SRD)

Dr. Hiroko Tsukamura (Chair)
 Dr. Kazuhiro Kikuchi (Secretary General)
 Dr. Masahiro Kaneda (Secretary)
 Dr. Atsuo Ogura (Program)
 Dr. Satoshi Tanaka (Program)
 Dr. Hiroshi Harayama (Treasurer)
 Dr. Keiichiro Kizaki (Treasurer)
 Dr. Hiroshi Nagashima (Fund raising)
 Dr. Takeshi Osawa (Fund raising)
 Dr. Yuji Hirao (Public relations)
 Dr. Yoshihisa Uenoyama (Public relations)
 Dr. Komei Shirasuna (Public relations)
 Dr. Fugaku Aoki
 Dr. Natsumi Endo
 Dr. Hiroshi Imai
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 Dr. Yoko Kato
 Dr. Koji Kimura
 Dr. Naoko Kimura
 Dr. Kei-ichiro Maeda
 Dr. Fuko Matsuda
 Dr. Naojiro Minami
 Dr. Takashi Miyano
 Dr. Satoshi Ohkura
 Dr. Kiyoshi Okuda
 Dr. Ken Sawai
 Dr. Mariko Shirota
 Dr. Tomomi Tanaka

2. Participant information

Okinawa Convention Center (OCC) is located in the seaside area of Ginowan city on the west coast of central Okinawa Island. OCC is the largest multifunction complex in the Prefecture with a theater, exhibition hall, and 12 large and small conference rooms.

The OCC offers a range of other facilities, including a sun-filled restaurant fully equipped with accessible facilities for the disabled, such as toilets, designated car parking, and wheelchair lifts.

Adjoining the beach, a marina, a seaside park, and an open-air amphitheater, the area offers the best of resort and meetings, incentives, conferences, and events (MICE) tourism destinations.

Access to Conference Centre

Arriving by bus

Access from Naha Bus Terminal Station

To the Okinawa Convention Center Bus Stop

Route Number: No.26, No.32, No.43, No.55

(takes 40-60 minutes) Fare: ¥530

Route Number: No.112 (takes 50 minutes) No.99 (takes 60 minutes)

To the Mashiki Bus Stop (11-minute walk to the Okinawa Convention Center)

Route Number: No.20, No.77, No.120

(takes 45 minutes via Kokusai Street) Fare: ¥530

Route Number: No.23, No.28, No.29, No.63

(takes 35 minutes via Kumoji Street) Fare: ¥530

Route Number: No.31 (takes 50 minutes via Kumoji Street) Fare: ¥530

Access from Naha International Airport

50-70 minutes from Naha International Airport (Bus Station No 3)

to Okinawa Convention Center Bus Stop. Fare: ¥570

Route Number: No.26 (takes 50 minutes), No.99 (takes 70 minutes)

Airport Limousine Bus

The Okinawa Convention Center is easily accessible by Airport Limousine Bus.

*Additional note: This limousine liner does not stop at the convention center. Please get off at Laguna Garden Hotel bus stop and walk to the center for 10 minutes. (takes 55 minutes) Fare: ¥600

Arriving by taxi

Takes approximately 40 minutes (14 kilometers) and costs on average ¥3,500 from Naha Airport.

Takes approximately 30 minutes (10 kilometers) and costs on average ¥3,000 from the center of Naha city.

Arriving by chartered bus

A chartered shuttle bus (bus fare; free) will be available between Omoromachi Station and the conference site (OCC) (Timetable)

	Conference site	Omoromachi Sta	Conference site
Sept. 26 (Tue)	18:30 lv.	19:00 arr.	
Sept. 27 (Wed)	20:30 lv.	21:00 arr.	
Sept. 28 (Thu)		7:45 lv.	8:15 arr.
Sept. 28 (Thu)	18:45 lv.	19:15 arr.	
Sept. 28 (Thu)	21:00 lv.	21:30 arr.	
Sept. 29 (Fri)		7:30 lv.	8:00 arr.

After Conference Dinner

Sept. 29 (Fri) : LAGUNA GARDEN HOTEL 21:15 lv. ⇒ Omoromachi Sta. 21:45 arr.

Parking

Parking lots will be available for participants.

3. Conference information

Registration

All conference participants are asked to register at the WCRB2017 registration desk located in the lobby of the Theater Building. You will receive your name badge and your conference bag containing the program book and other items. The opening hours of the registration desk are as follows:

Sept. 26 (Tue)	11:00–18:00
Sept. 27 (Wed)	08:00–19:00
Sept. 28 (Thu)	08:00–19:00
Sept. 29 (Fri)	08:00–19:00

Travel information desk

If you have any questions about the following transportation options, please feel free to ask the staff at the Travel Desk.

- Optional tour
- Shuttle bus
- Airport limousine bus from Laguna Garden Hotel
- Travel information

*If you have any questions about the conference program, please go to the Inquiry Desk. Opening hours are as follows:

Sept. 26 (Tue)	14:00–18:00
Sept. 27 (Wed)	08:00–19:00
Sept. 28 (Thu)	08:00–19:00
Sept. 29 (Fri)	08:00–18:00

Refreshment

Refreshment breaks will take place in the Exhibition Hall. Please note that no food and drinks are allowed in the Theater Building or on the upper floor (audience seating area) of the Exhibition Hall.

Lunch

A lunch box will be served on Sept. 28 and 29 free of charge.

Luncheon seminar

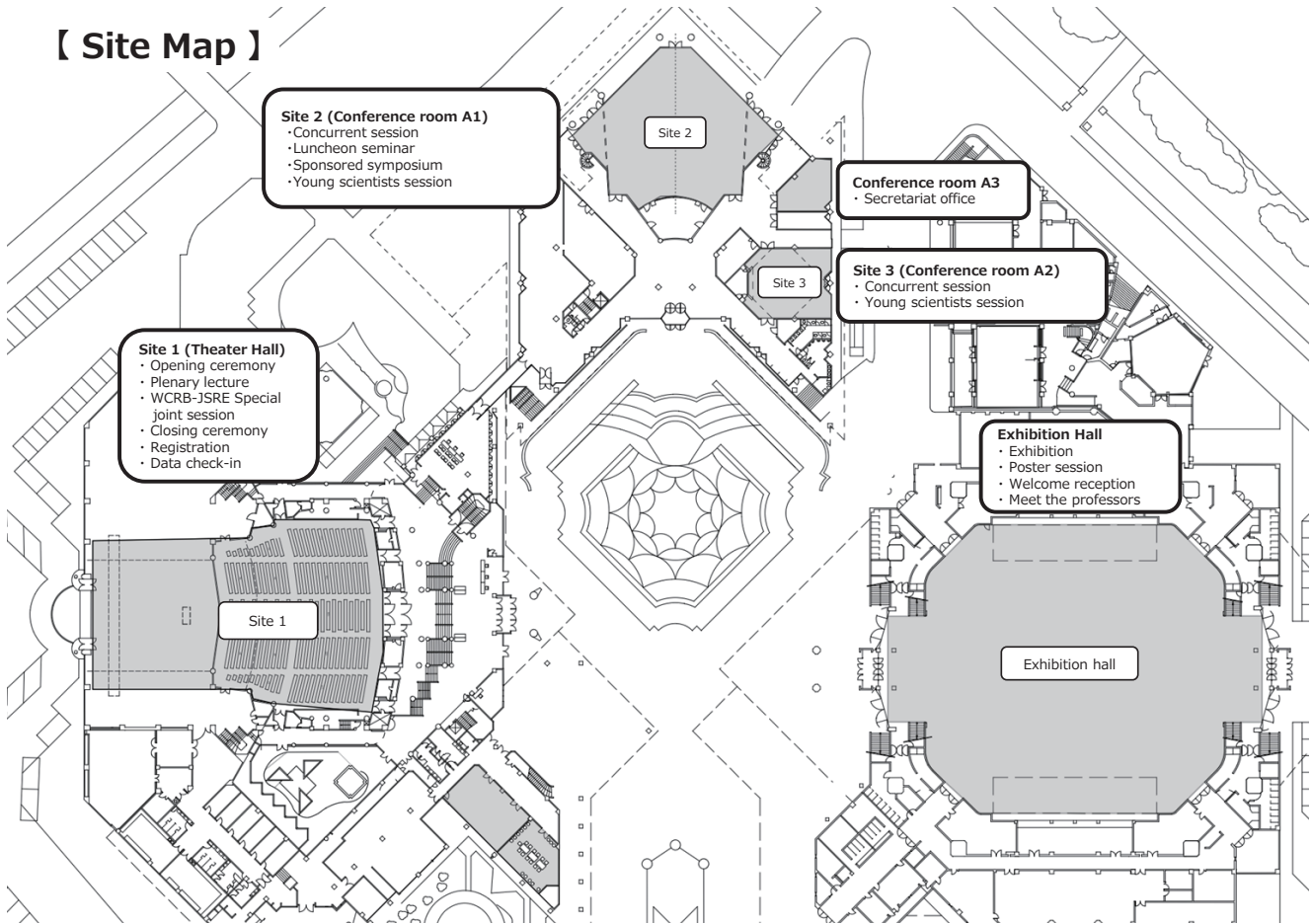
The luncheon seminar tickets (limited to 200) will be distributed in exchange for a free lunch box ticket at the registration desk in the morning of Sept. 28. The attendees will receive a special lunch at the site.

Dress code

You are welcome to wear casual or comfortable clothes.

4. Floor plan

[Site Map]

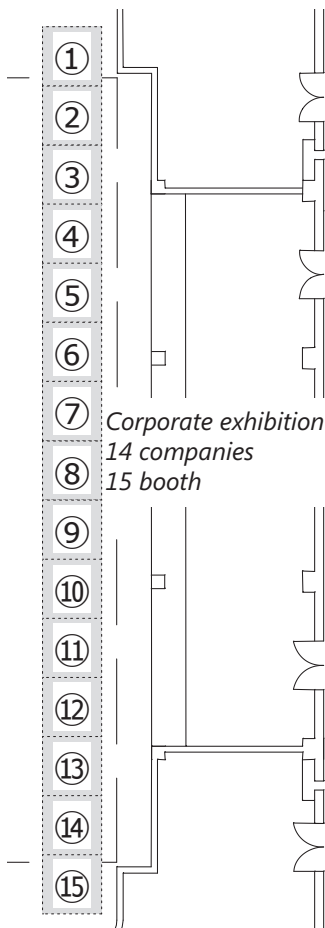


5. Trade exhibition

We extend our sincere thanks to the following sponsors for their demonstrations at the trade exhibition.

Opening Hours

Sept. 27 (Wed)	9:00–18:00
Sept. 28 (Thu)	9:00–18:00
Sept. 29 (Fri)	9:00–17:00



Booth No.	Company Name
①	 Society for the Study of Reproduction / Biology of Reproduction
②	 S CO., LTD
③/④	 The Society for Reproduction and Fertility (SRF) / <i>Reproduction Journal</i>
⑤	 Nepa Gene Co., Ltd.
⑥	 RIKEN BioResource Center (RIKEN BRC)
⑦	 NSK Ltd. / Central Institute for Experimental Animals / Nomura Jimusho, Inc.
⑧	  BEX Co.,Ltd.
⑨	 The Society for Reproduction and Development / Journal of Reproduction and Development
⑩	 Misawa Medical Industry Co., Ltd.
⑪	 Tokai Hit Co., Ltd.
⑫	 Interuniversity Bio-Backup Project (IBBP)
⑬	 NARISHIGE CO., LTD.
⑭	 NPO Biotechnology Research and Development
⑮	 KYUDO.CO., LTD.

6. Overview

PROGRAM AT A GLANCE

	September 27 (Wed)			September 28 (Thu)			September 29 (Fri)		
Site	1	2	3	1	2	3	1	2	3
8:00	WCRB registration (Site 1) Opening hours of the registration desk Sept. 26 (Tue) 11:00–18:00 Sept. 27 (Wed) 08:00–19:00 Sept. 28 (Thu) 08:00–19:00 Sept. 29 (Fri) 08:00–19:00								
				Concurrent session 4	Concurrent session 5	Concurrent session 6	Concurrent session 10	Concurrent session 11	Concurrent session 12
9:00				Ovary and follicles 2	Testis and spermatozoa 2	Uterus, implantation and placentas 2	Reproductive technology and stem cells 2	Fertilization and early embryos 2	Reproductive endocrinology 2
10:00				Coffee / Poster viewing (Exhibition Hall)			Coffee / Poster viewing (Exhibition Hall)		
11:00				Plenary lecture 3 Prof. Moira K. O'Bryan [SRB] (Site 1)			Plenary lecture 5 Prof. Jae Yong Han [KSAR] (Site 1)		
12:00	Opening ceremony (Site 1)				Luncheon seminar Supported by Zoetis Japan	Young scientists session 1 (*)		Young scientists session 2 (*)	Young scientists session 3 (*)
	Plenary lecture 1 Prof. Takashi Miyano [SRD] (Site 1)			Posters 1 [Odd numbers] (Exhibition Hall) <i>Coffee will be provided</i>			Posters 2 [Even numbers] (Exhibition Hall) <i>Coffee will be provided</i>		
13:00	Coffee (Exhibition Hall)								
14:00	Concurrent session 1	Concurrent session 2	Concurrent session 3	Concurrent session 7	Concurrent session 8	Concurrent session 9	WCRB-JSRE special joint session	Sponsored symposium "Genome Editing in mammals"	
15:00	Ovary and follicles 1	Testis and spermatozoa 1	Uterus, implantation and placentas 1	Reproductive technology and stem cells 1	Fertilization and early embryos 1	Reproductive endocrinology 1			
16:00									
17:00	Plenary lecture 2 Prof. Tom P. Fleming [SRF] (Site 1)			Plenary lecture 4 Prof. Heng-yu Fan [CSR] (Site 1)			Plenary lecture 6 Prof. Michael J. Soares [SSR] (Site 1)		
18:00							Closing ceremony (Site 1)		
19:00	Welcome reception (Exhibition Hall)			Meet the professors (*) (Exhibition Hall)			Conference dinner (Laguna Garden Hotel)		
20:00									
21:00									
Site 1, Theater Hall; Site 2, Conference room A1; Site 3, Conference room A2									

(*), Programs by SRD Young Scientist Committee

Meetings of Related Societies

Sept. 26 (Tue) 9:30 AM – 16:00 PM

Sept. 30 (Sat) 9:00 AM – 17:00 PM

Sept. 30 (Sat) 9:00 AM – 14:00 PM

SRD (JAPAN) Administrative Meetings

Japan Society of Reproductive Endocrinology Meeting (Site 2 & 3)

Japanese Society of Spermatology (Room B5 & B6)

7. Scientific program

WCRB2017 Scientific Program

September 27 (Wed)

WCRB registration

8:00 AM – 19:00 PM See page 5 for other opening hours of registration desk (Site 1)

Poster set up

9:00 AM – 14:00 PM All posters must be set up by the noon of September 28 (Thu) (Exhibition Hall)

Opening ceremony

12:00 PM – 12:30 PM (Site 1)

Plenary lecture 1

12:30 PM – 13:30 PM (Site 1)

Chair : Kei-ichiro Maeda (President of SRD, The University of Tokyo, Japan)

Takashi Miyano (Kobe University, Japan)

In vitro growth of oocytes: from mice to domestic animals (*Plenary 1*)

Concurrent sessions 1-3

14:00 PM – 16:30 PM

	Concurrent session 1 (Site 1)	Concurrent session 2 (Site 2)	Concurrent session 3 (Site 3)
	Ovary and follicles 1	Testis and spermatozoa 1	Uterus, implantation and placentas 1
	Chairs : Aleksandar Rajkovic (University of Pittsburgh, USA) Koji Sugiura (The University of Tokyo, Japan)	Chairs : Jibak Lee (Kobe University, Japan) Kate A.L. Loveland (Monash University, Australia)	Chairs : Shuangbo Kong (Medical College of Xiamen University, China) Hakhyun Ka (Yonsei University, Korea)
14:00	Mark A. Fenwick (University of Sheffield, UK) TGF β as a master regulator of early follicle development (<i>C-1</i>)	Hyuk Song (Konkuk University, Korea) Spermatogonia Stem cells in Domestic animal (<i>C-4</i>)	Kelle H. Moley (Washington University in St. Louis, USA) Maternal metabolic disorders, oocyte quality and longterm offspring health (<i>C-7</i>)
14:30	Michael W. Pankhurst (University of Otago, New Zealand) Normal ovulation, but reduced developing follicle pool in an infertile strain of AMH-overexpressing mouse (<i>P1-8</i>)	Manabu Ozawa (The University of Tokyo, Japan) The histone demethylase KDM2A regulates differentiation of spermatogonia in mice (<i>P2-4</i>)	Yuki Yamamoto (Okayama University, Japan) Calcium and chloride ion current responsible for spontaneous contractions of bovine oviduct (<i>P4-48</i>)
14:45	Dulama Richani (University of New South Wales Australia, Australia) Cyclic AMP modulated-IVM differentially impacts oocyte and cumulus cell metabolism (<i>P1-72</i>)	Hiroki Inoue (Bioresource Center, RIKEN, Japan) Mouse D1Pas1, a DEAD-box RNA helicase, is required for the completion of first meiotic prophase in male germ cells (<i>P2-14</i>)	Li Nie (Sichuan University, China) The Role of miR-152 in Early Embryonic Development and Implantation by Down-regulating GLUT3 in Mouse Endometrial Epithelial Cells (<i>P4-26</i>)

(Continued on the next page)

	<p>Chairs : You-Qiang Su (Nanjing Medical University, China) Keith T. Jones (University of Southampton, UK)</p>	<p>Chairs : Monika A. Ward (University of Hawaii, USA) Masahito Ikawa (Osaka University, Japan)</p>	<p>Chairs : Yan-Ling Wang (Institute of Zoology, CAS, China) David Simmons (The University of Queensland, Australia)</p>
15:00	<p>Hisataka Iwata (Tokyo University of Agriculture, Japan) Granulosa cell number and oocyte growth (C-2)</p>	<p>Jibak Lee (Kobe University, Japan) Meiotic cohesins during spermatogenesis (C-5)</p>	<p>Shuangbo Kong (Medical College of Xiamen University, China) Bmi-1 determines uterine progesterone responsiveness via modulating PR ubiquitination in a Polycomb complex independent manner essential for normal embryo implantation (C-8)</p>
15:30	<p>Yuta Matsuno (The University of Tokyo, Japan) Mouse granulosa cells secrete functional extracellular vesicles in vitro (P1-62)</p>	<p>Elizabeth G. Bromfield (The University of Newcastle, Australia) The Targeted Disruption of Lipoxygenase Enzymes Prevents Oxidative Stress in the Male Germline (P2-102)</p>	<p>Samson N. Dowland (The University of Sydney, Australia) Prominin-1 and -2 are uniquely found in flattened membranes in uterine epithelial cells during early pregnancy (P4-1)</p>
15:45	<p>Shyamal K. Roy (University of Nebraska Medical Center, USA) Estrogen Stimulation of Primordial Follicle Assembly Requires BMP2 Action (P1-7)</p>	<p>Diqi Yang (Northwest A&F University, China) Inhibition of ER stress alleviates ZEA-induced apoptosis in Leydig cells through modulation of UPR pathway (P2-90)</p>	<p>Lois A. Salamonsen (Hudson Institute of Medical Research, Australia) New Insights into human endometrial-embryo interaction: secretome and exosomes during implantation (P4-33)</p>
16:00	<p>Aleksandar Rajkovic (University of Pittsburgh, USA) Oocyte differentiation during embryogenesis is independent of meiosis and driven by interplay of multiple transcriptional regulators (C-3)</p>	<p>Kate A.L. Loveland (Monash University, Australia) A nucleocytoplasmic transport protein essential for gametogenesis (C-6)</p>	<p>Hakhyun Ka (Yonsei University, Korea) The role of cytokines during the implantation period at the maternal-conceptus interface in pigs (C-9)</p>

Plenary lecture 2

17:00 PM – 18:00 PM

(Site 1)

Chair : Tony Michael (Chair of SRF, Queen Mary University of London, UK)

Tom P. Fleming (University of Southampton, UK)

Environmental programming of the early embryo: how mother's nutrition can influence health and disease risk throughout life (*Plenary 2*)

Welcome reception

18:30 PM – 20:30 PM

(Exhibition Hall)

September 28 (Thu)

Poster set up

8:00 AM – 12:00 PM

All posters must be set up by the noon

(Exhibition Hall)

Concurrent sessions 4-6

8:30 AM – 10:30 AM

	Concurrent session 4 (Site 1)	Concurrent session 5 (Site 2)	Concurrent session 6 (Site 3)
	Ovary and follicles 2	Testis and spermatozoa 2	Uterus, implantation and placentas 2
	Chairs : Bruce D. Murphy (Université de Montréal, Canada) Mark A. Fenwick (University of Sheffield, UK)	Chairs : Martin M. Matzuk (Baylor College of Medicine, USA) Hyuk Song (Konkuk University, Korea)	Chairs : Kelle H. Moley (Washington University in St. Louis, USA) Satoshi Tanaka (The University of Tokyo, Japan)
8:30	Keith T. Jones (University of Southampton, UK) Arresting oocytes in meiosis I: mechanisms to stop the creation of a bad egg (C-10)	Monika A. Ward (University of Hawaii, USA) The role of Y chromosome in directing spermatogenesis (C-12)	David Simmons (The University of Queensland, Australia) Impaired placental development causes embryonic heart defects and midgestational lethality in Ly6e mutant mice (C-14)
9:00	Sugako Ogushi (University of Oxford, UK) Loss of sister kinetochore co-orientation and peri-centromeric cohesin protection after meiosis I depends on cleavage of REC8 at centromeres (P1-49)	Ying Shen (Sichuan University, China) Immotile short-tail sperm defect related gene QRICH2 regulates AKAP4 expression during the development of sperm flagellum (P2-31)	Li Tang (Sichuan University, China) Dicer controls the proliferation and invasion of HTR8 cells and may modulate the intracellular communication between HTR8 cells and HUVECs (P4-27)
9:15	Guangyi Cao (Nanjing Medical University, China) MARF1 controls oocyte meiotic progression in mice (P1-48)	Hidenobu Okuda (Monash University, Australia) LRGUK1 is required for manchette function, forming multiprotein complex with intracellular transportation proteins (P2-28)	Koji Hayakawa (The University of Tokyo, Japan) Nucleosomes of polyploid trophoblast giant cells mostly consist of histone variants and form an unstable chromatin structure (P4-45)
9:30	You-Qiang Su (Nanjing Medical University, China) Identification of new players in the control of oocyte maturation (C-11)	Masahito Ikawa (Osaka University, Japan) CRISPR/Cas9 mediated genome editing and its application for the study of reproduction (C-13)	Yan-Ling Wang (Institute of Zoology, CAS, China) The relevance of placental endocrine dysfunction to preeclampsia (C-15)
10:00	Suzannah A Williams (University of Oxford, UK) Dissociated adult ovarian somatic cells can reorganise to form follicles (P1-11)	Adam J. Watkins (Aston University, UK) Paternal diet impacts on adult offspring health through sperm- and seminal fluid-specific mechanisms (P2-109)	Isao Tamura (Yamaguchi University Graduate School of Medicine, Japan) Importance of WT1 in the regulation of IGFBP1 and PRL in human endometrial stromal cells undergoing decidualization (P4-2)
10:15	Sanghoon Lee (Seoul National University, Korea) Comparison among resveratrol, melatonin and their combination in improving in vitro maturation of porcine oocytes (P1-31)	Katerina Dvorakova-Hortova (Charles University and IBT, Czech Republic) Protein-protein interactions in the sperm membrane prior to fusion with the egg (P2-33)	Victor H. Parraguez (University of Chile, Chile) Hypoxia associated with twin and/or undernourished pregnancies contributes to fetal growth restriction in sheep (P4-46)

Plenary lecture 3

11:00 AM – 12:00 PM

(Site 1)

Chair : Mark P. Green (Secretary general of SRB, University of Melbourne, Australia)

Moira K. O'Bryan (Monash University, Australia)Microtubules as the masters of sperm function (*Plenary 3*)**Luncheon seminar / Young scientists' program**

12:00 PM – 13:00 PM

Luncheon seminar (Site 2)	Young scientists session 1 (Site 3)
Sponsored by Zoetis Japan	Program by SRD Young Scientist Committee
Chair : Takeshi Osawa (University of Miyazaki)	Chairs : Kasane Kishi (The University of Tokyo, Japan) Takuya Sasaki (Nagoya University, Japan)
Fernando A. Di Croce (Director, Global Genetics Technical Services, Zoetis Inc.) Usage of genomic information for improvement of fertility and health in dairy cows (<i>L-1</i>)	This session offers the opportunity to the awardees of the WCRB 2017 Students Travel Fund to introduce their poster presentation. The awardees (poster no. listed below) will be invited to present their works within 3 minutes. <i>P1-66, P1-87, P2-9, P2-22, P2-23, P2-92, P2-106, P3-38, P3-58, P3-66, P4-35, P6-114</i>

Poster session 1 (Odd numbers)

13:00 PM – 14:30 PM

Coffee will be provided

(Exhibition Hall)

Concurrent sessions 7-9

14:30 PM – 17:00 PM

	Concurrent session 7 (Site 1)	Concurrent session 8 (Site 2)	Concurrent session 9 (Site 3)
	Reproductive technology and stem cells 1	Fertilization and early embryos 1	Reproductive endocrinology 1
	Chairs : Mark P. Green (University of Melbourne, Australia) Katsuhiko Hayashi (Kyushu University, Japan)	Chairs : Jennifer R. Wood (University of Nebraska - Lincoln, USA) Lei Li (Institute of Zoology, CAS, China)	Chairs : Daniel J. Bernard (McGill University, Canada) Yoshihisa Uenoyama (Nagoya University, Japan)
14:30	Francesca D. Houghton (University of Southamp, UK) Hypoxic regulation of human embryonic stem cells: a metabolic perspective (<i>C-16</i>)	Rebecca Robker (University of Adelaide, Australia) Obesity, oocyte quality and the legacy of the egg (<i>C-19</i>)	Richard A. Anderson (University of Edinburgh, UK) The new neuroendocrinology: novel pathways, and their clinical applications (<i>C-22</i>)
15:00	Arata Honda (University of Miyazaki, Japan) Germ Cells from Induced Pluripotent Stem Cells of an Endangered Species, <i>Tokudaia Osimensis</i> (<i>P6-56</i>)	Qinghua Zhang (Monash University, Australia) Cyclin A2 prevents merotelic attachments and lagging chromosomes specifically in meiosis II (<i>P3-2</i>)	Rukmali Wijayarathna (Monash University, Australia) Interactions between activins, follistatin, and inhibin in the male reproductive tract (<i>P5-10</i>)
15:15	Lih-Ren Chen (Livestock Research Institute, Taiwan) Establishment of induced pluripotent stem cell lines from Taiwan black silkie chicken (<i>P6-24</i>)	Jia-Qiao Zhu (Yangzhou University, China) Lack of coordination between sister chromatid segregation and cytokinesis in the oocytes of B6.YTIR (XY) sex-reversal female mice (<i>P3-4</i>)	Lei Gao (Northwest A&F University, China) Regulation of Testosterone Production by Circadian Clockwork in Mouse Leydig Cells (<i>P5-8</i>)

(Continued on the next page)

	Chairs : Goo Jang (Seoul National University, Korea) Franchesca D. Houghton (University of Southamp, UK)	Chairs : Inchul Choi (Chungnam National University, Korea) Karl Swann (Cardiff University, UK)	Chairs : Kirsty A. Walters (University of New South Wales, Australia) Toshiya Matsuzaki (Tokushima University, Japan)
15:30	Wei Li (Institute of Zoology, CAS, China) Generation and application of mammalian haploid and interspecies allodiploid stem cells (C-17)	Lei Li (Institute of Zoology, CAS, China) Molecular mechanism of the subcortical maternal complex (C-20)	Yoshihisa Uenoyama (Nagoya University, Japan) Brain mechanism regulating puberty onset in mammals (C-23)
16:00	Yoshiaki Nakamura (National Institute for Basic Biology, Japan) Understanding the post-transplantation behavior of mouse spermatogenic stem cells (P6-64)	Bo Xiong (Nanjing Agricultural University, China) A Unique Egg Cortical Granule Localization Motif Is Required for Ovastacin Sequestration to Prevent Premature ZP2 Cleavage and Ensure Female Fertility in Mice (P3-94)	Shiori Minabe (The University of Tokyo, Japan) Kisspeptin neurons in the arcuate nucleus is a target of estrogen in the developing brain to lead reproductive toxicity in male rats (P5-34)
16:15	Bo Ram Lee (Seoul National University, Korea) A Unique Epigenetic and Transcriptional Program of Chicken Primordial Germ Cells (P6-58)	Keiji Mochida (Bioresource Center, RIKEN, Japan) Rapid production of next generations by in vitro fertilization using spermatozoa from prepubertal male mice (P3-88)	Yiliyasi Mayila (Tokushima University, Japan) Infectious stress in neonatal period delayed the onset of puberty in male and female rats (P5-32)
16:30	Katsuhiko Hayashi (Kyushu University, Japan) Understanding of PGC-oocyte differentiation using in vitro reconstitution system (C-18)	Jennifer R. Wood (University of Nebraska – Lincoln, USA) Maternal Obesity, the Gut Microbiota, and Oocyte mRNAs: Potential Impact on the Developing Embryo and Fetus (C-21)	W. W.P.N. Weerakoon (Osaka Prefecture University, Japan) Comparison of plasma insulin-like growth factor-I, insulin-like peptide 3, testosterone and inhibin concentrations around puberty in Japanese Black beef bulls between normal and abnormal semen (P5-72)

Plenary lecture 4

17:30 PM – 18:30 PM

(Site 1)

Chair : Qing-Yuan Sun (President of CSRB, Institute of Zoology, CAS, China)

Heng-yu Fan (Zhejiang University, China)

Role of newly discovered oocyte factors in regulating maternal-zygotic transition in mammals
(Plenary 4)

Meet the Professors

Program by SRD Young Scientist Committee

19:00 PM – 20:30 PM

(Exhibition Hall)

This event provides young researchers/trainees with the special opportunity to talk to professors / scientists of their interest about careers and science during the Conference. The plenary speakers of the Conference are planned to participate in this event. Light meals and drinks will be served.

September 29 (Fri)

Concurrent sessions 10-12

8:30 AM – 10:30 AM

	Concurrent session 10 (Site 1)	Concurrent session 11 (Site 2)	Concurrent session 12 (Site 3)
	Reproductive technology and stem cells 2	Fertilization and early embryos 2	Reproductive endocrinology 2
	Chairs : Wei Li (Institute of Zoology, CAS, China) David N. Wells (AgResearch, New Zealand)	Chairs : Teruko Taketo (McGill University, Canada) Rebecca Robker (University of Adelaide, Australia)	Chairs : Joy Pate (The Pennsylvania State University, USA) Richard A. Anderson (University of Edinburgh, UK)
8:30	Mark P. Green (University of Melbourne, Australia) Sorting sperm by microfluidics: A practical solution (C-24)	Karl Swann (Cardiff University, UK) The mechanism of sperm induced Ca ²⁺ oscillations that activate mammalian eggs (C-26)	Daniel J. Bernard (McGill University, Canada) Beware of dogma: Revisiting the role of activin B in FSH synthesis (C-28)
9:00	Tawny N.A. Scanlan (UC Davis, USA) Cryopreservation of rainbow trout whole gonads by vitrification to maintain reproductive stem cell potential (P6-106)	John Parrington (University of Oxford, UK) PLCzeta is the physiological trigger of embryogenesis in mammals, but offspring can be conceived naturally in its absence (P3-82)	Tomasz Schwarz (Agricultural University of Krakow, Poland) The influence of azaperone treatment at weaning on reproductive function in sows: Ovarian activity and endocrine profiles during the weaning-to-ovulation interval (P5-42)
9:15	Takayuki Hirota (The Francis Crick Institute, UK) Chromosome elimination as a therapy for infertility (P6-138)	Masatoshi Ooga (University of Yamanashi, Japan) Disrupted parental asymmetry of chromatin structure in ROSI-derived zygotes (P3-6)	Leila Arbabi (Monash University, Australia) The effects of gut peptides on reproductive function at the level of the median eminence of hypothalamus (P5-54)
9:30	Goo Jang (Seoul National University, Korea) Genome engineering technologies in cattle (C-25)	Inchul Choi (Chungnam National University, Korea) Intercellular Junctions formation during preimplantation development (C-27)	Kirsty A. Walters (University of New South Wales, Australia) Unravelling the role of androgens in polycystic ovary syndrome (PCOS) (C-29)
10:00	Effrosyni Fatira (University of South Bohemia in CB, Czech Republic) Somatic cell nuclear transfer in a real endangered species, Sturgeon (P6-86)	Chika Higuchi (Kindai University, Japan) Proper degradation of a maternal protein during maternal-to-zygotic transition is important for normal development (P3-12)	Aneta Andronowska (Institute of Animal Reproduction and Food Research Polish Academy of Sciences, Poland) Do exogenous gonadotropins affect factors regulating oviductal functions expressed in the porcine oviductal epithelial cells (POEC)? (P5-44)
10:15	Marta Czernik (University of Teramo, Italy) Ultrastructural analysis reveals abnormal mitochondria in cloned blastocysts (P6-84)	Young Sun Hwang (Seoul National University, Korea) The molecular characteristics of avian blastoderm dormancy (P3-80)	Alexander Goikoetxea (University of Otago, New Zealand) Sex and stress: Is cortisol a mediator of sex change in fish? (P5-2)

Plenary lecture 5

11:00 AM – 12:00 PM

(Site 1)

Chair : Man-Jong Kang (President of KSAR, Chonnam National University, Korea)

Jae Yong Han (Seoul National University, Korea)Primordial germ cell as a key modulator for avian genome modification (*Plenary 5*)**WCRB business meeting**

12:00 PM – 13:00 PM

(TAIYO-ICHIBA)

Young scientists' programs

12:00 PM – 13:00 PM

Young scientists session 2 (Site 2)	Young scientists session 3 (Site 3)
Program by SRD Young Scientist Committee Chairs : Asako Okamoto (Prefectural University of Hiroshima, Japan) Kohei Umezumi (Tohoku University, Japan)	Program by SRD Young Scientist Committee Chairs : Orie Hikabe (Kyushu University, Japan) Kohtaro Morita (Kindai University, Japan)
This session offers the opportunity to the awardees of the WCRB 2017 Students Travel Fund to introduce their poster presentation. The awardees (poster no. listed below) will be invited to present their works within 3 minutes. <i>P1-6, P1-22, P1-60, P1-74, P1-82, P1-86, P1-88, P1-102, P2-6, P2-8, P2-10, P2-50</i>	This session offers the opportunity to the awardees of the WCRB 2017 Students Travel Fund to introduce their poster presentation. The awardees (poster no. listed below) will be invited to present their works within 3 minutes. <i>P2-80, P2-104, P3-62, P3-68, P3-106, P4-16, P4-24, P4-36, P4-40, P4-54, P5-6, P5-48</i>

Poster session 2 (Even numbers)

13:00 PM – 14:30 PM

(Exhibition Hall)

Symposia

14:30 PM – 16:30 PM

	WCRB-JSRE Special Joint Session (Site 1)	Sponsored Symposium (Site 2)
	Control of HPG axis to improve the fertility in animals and humans Chairs : Kei-ichiro Maeda (The University of Tokyo, Japan) Norihiro Sugino (Yamaguchi University Yamaguchi School of Medicine, Japan)	Genome editing in mammals: recent technical innovation and advancement in application Sponsored by Recombinetics, Nepa Gene Co., Ltd., BEX Co., Ltd., S Co., Ltd., and MUPEL Ltd. Chair : Hiroshi Nagashima (Meiji University, Japan)
14:30	Toshiya Matsuzaki (Tokushima University, Japan) Manipulating hypothalamus using rat models of anovulation and optimizing ovulation induction in human (<i>J-1</i>)	Part-1: Technical innovation of genome editing Sayaka Yashima Sponsored by S Co. Ltd., (Meiji University, Japan) and MUPEL Ltd. Generation of genome edited pigs by cytoplasmic injection of TALEN or CRISPR/cas9 mRNA into zygotes (<i>S-1</i>)
14:50		Fuminori Tanihara Sponsored by BEX Co., Ltd. (Tokushima University, Japan) A simple-step generation of genetically modified pigs by genome editing by electroporation of Cas9 protein (GEEP) method (<i>S-2</i>)

(Continued on the next page)

15:10	John S. Davis (University of Nebraska Medical Center, USA) The Aging Pituitary-Ovary Axis: implications for fertility and the menopause (J-2)	Tomoji Mashimo (Osaka University, Japan) Highly efficient genome editing in embryos by using the Super Electroporator NEPA21 (S-3)	Sponsored by Nepa Gene Co., Ltd.
15:35		Part-2: Advancement in application of genome editing	
15:50	Joy Pate (The Pennsylvania State University, USA) Cells and networks that facilitate luteal survival for pregnancy success (J-3)	Takuro Horii (Gunma University, Japan) Targeted manipulation of epigenome using CRISPR/Cas9 (S-4)	
16:00		Scott Fahrenkrug (Recombinetics, Inc., USA) Subverting porcine genetics and tissue ontogeny for regenerative medicine (S-5)	Sponsored by Recombinetics, Inc.

**Plenary lecture 6**

17:00 PM – 18:00 PM

(Site 1)

Chair : John S. Davis (President of SSR, University of Nebraska Medical Center, USA)

Michael J. Soares (University of Kansas Medical Center, USA)Plasticity, invasive trophoblast, and placental health (*Plenary 6*)**Closing ceremony**

18:00 PM – 18:15 PM

(Site 1)

Conference dinner

19:00 PM – 21:00 PM

(Laguna Garden Hotel)

Meetings of Related Domestic Societies

SRD (JAPAN) Administrative Meetings

Tuesday, Sept. 26 9:30 AM – 16:00 PM

Japan Society of Reproductive Endocrinology Meeting

Saturday, Sept. 30 9:00 AM – 17:00 PM

(Site 2 & 3)

Japanese Society of Spermatology

Saturday, Sept. 30 9:00 AM – 14:00 PM

(Room B5 & B6)

8. Plenary speaker biographies

SRD

Prof. Takashi Miyano

Kobe University, Japan



Prof. Takashi Miyano received his B.A. from Kyoto University, Japan in 1978 and his Ph.D. in Agriculture in 1985 under the supervision of Professor Akira Iritani. After he worked in the Laboratory of Pharmacology, Sumitomo Chemical Co. Japan (1982-1987), he joined the Faculty of Agriculture in Kobe University in 1987 as an Assistant Professor and started studies on mammalian oocyte growth with his first student Yuji Hirao. During 1990-1991, he visited Bob Moor's Laboratory in the Babraham Institute, UK as a JSPS Research Fellow, where he conducted studies on the mammalian oocyte maturation. In 1999, he and his colleagues reported the first production of a calf derived from oocytes grown in culture for 2 weeks, and Dr. Hirao reported the second calf production from in vitro grown oocytes in 2004. Miyano has received the Outstanding Research Award in 2004 for "In Vitro Growth of Mammalian Oocytes" from the Japanese Society of Animal Reproduction (JSAR/SRD). He has served on the SRD as a Director and an Editorial Board Member of the Journal of Reproduction and Development (JRD). He is currently a Professor in the Laboratory of Developmental Biotechnology, Graduate School of Agricultural Science, Kobe University (2002-), having previously served as the Vice Dean (2008-2013) and the Dean (2013-2017) of the Faculty of Agriculture and the Graduate School of Agricultural Science, Kobe University.

SRF

Prof. Tom Fleming

University of Southampton, UK



Prof. Tom Fleming is Professor of Developmental Biology in Biological Sciences at University of Southampton, UK. Tom graduated in Zoology from University of Wales (1972), obtained his PhD from University of London (1979), was a postdoc at University of Keele until 1981 and then Senior Research Associate at Cambridge University before moving to Southampton in 1988. Tom's group are currently interested in how the environment of the preimplantation embryo may influence the developmental programme and long-term potential into adulthood. Tom has been Editor-in-Chief of *Reproduction* over 2008-end 2012, is an editorial board member for several reproductive and development journals, is a Council member and current Treasurer of the Society of Reproduction and Fertility (SRF), and sits on various grant committees and advisory boards. He was awarded an Honorary Fellow of Royal College of Obstetricians and Gynaecologists in 2013 and the Marshall Medal from SRF also in 2013.

SRB

Prof. Moira O'Bryan

Monash Biomedicine Discovery Institute, Monash University, Australia



Prof. Moira O'Bryan graduated from The University of Melbourne in 1994, after which she was awarded an Andrew Mellon Foundation Fellowship to work at The Population Council in New York. She returned to Australian in 1996 as a National Health and Medical Research Council (NHMRC) Peter Doherty Fellowship to work at Monash Institute of Reproduction and Development, Monash University where she established a highly productive lab working on sperm development and the genetics of male infertility. Since this time Moira has received numerous fellowships. She is currently a Professor, NHMRC Principal Research Fellow and Program Lead within the Biomedical Discovery Institute at Monash University. In August 2017, she will take up the position of the Head of the School of Biological Sciences at Monash University. The focus of her lab encompasses: sperm and cilia development and function, genetic causes of human infertility and the implications for 'reproductive' proteins on health broadly. Moira has received research-based awards from the Australian Academy of Science, The Fertility Society of Australia,

The Endocrine Society of Australia, and the Society for Reproductive Biology the 2006 RCRH Award for Excellence in Reproductive Biology. She was the 2008 American Society of Andrology "Young Andrologist of the Year", the 2015 Anne McLaren Memorial Lecturer (UK) and the 2015 President's Lecturer (Australia).

She is also an active member of several professional societies. She currently holds committee positions within the American Society of Andrology (ASA), the Society for the Study of Reproduction, and the International Society of Andrology. Amongst other roles she is a past President of Women in Andrology for the American Society of Andrology (ASA, 2010-11). She is a member of the Australian Academy of Science "National Committee - Cellular and Developmental Biology".

CSRB

Prof. Heng-yu Fan

Life Sciences Institute, Zhejiang University, China



Prof. Heng-Yu Fan obtained his PhD degree in 2003 from the Institute of Zoology, Chinese Academy of Sciences, where he was mentored by Dr. Qing-Yuan Sun and started his career in reproductive biology. Then he worked as a postdoctoral researcher at the Baylor College of Medicine, USA, under the supervision of Dr. JoAnne Richards. In 2010, he took an position of Principal Investigator at the Life Science Institute, Zhejiang University. His research focuses on biology of oocyte, follicle, and preimplantation embryo development including epigenetic modification, RNA synthesis/decay, and hormonal signaling.

KSAR

Prof. Jae Yong Han

Seoul National University, Korea



Prof. Jae Yong Han received his bachelor and master degrees in Seoul National University, Korea. Since his completion of Ph.D. degree in University of Minnesota in 1991, he appointed as a professor of Department of Agricultural Biotechnology, Seoul National University. His academic specialties are avian transgenesis, genome editing and germ cell biology. He has made outstanding achievements in his researches on production of germline chimera by germ cell manipulation and genome editing. Also his laboratory developed in vitro long-term culture system of chicken primordial germ cells (PGCs) and subsequently established micromanipulation technology for PGCs. More recently, he has reported the efficient transgenic system, and germ cell development in very early embryo. Up to date, he has published more than 200 research articles in the internationally well-known journals. He was awarded 2012 World's Poultry Science Association Award (Research) and the project "Center for Avian Germ Cell Modulation and Cloning"

SSR

Prof. Michael Soares

Kansas University Medical Center, USA



Prof. Michael J. Soares is a University Distinguished Professor at the University of Kansas, with appointments in the Departments of Pathology and Laboratory Medicine and Pediatrics. He also serves as Director of the Institute for Reproductive and Perinatal Research at the University of Kansas. Dr. Soares research program has been supported by the NIH for more than 30 years and produced more than 230 publications. His research program has focused on regulatory processes associated with pregnancy, especially the biology of the establishment of pregnancy and development of the hemochorial placenta. He has directly supervised the training of 8 graduate students and 41 postdoctoral fellows, and mentored 6 junior faculty in his laboratory. Dr. Soares research program has been recognized by the University of Kansas (1989, 2001, 2004, 2007), International Federation of Placental Associations (1995), and Society for the Study of Reproduction (2016) with prestigious research awards.

9. Posters

*Selected for oral presentations

P1-1	Single-cell RNA-seq analysis of human germline cells and their niche cells Fuchou Tang
P1-2	Exploring the DNA repair mechanisms responsible for safeguarding oocyte quality Jessica Miriam Stringer and Karla Hutt
P1-3	Does DAZL regulate germ cell apoptosis via CASP7 in the fetal ovary? Roseanne Rosario, Alma K M Torokoff and Richard A Anderson
P1-4	Uncovering the gene-networks regulating oogenesis Nobuhiko Hamazaki, So Shimamoto, Orié Hikabe, Norio Hamada and Katsuhiko Hayashi
P1-5	Unique method for producing oocyte that decreased spindle formation factors Shunsuke Konno, Shunsuke Konno, Masatoshi Ooga, Satoshi Kamimura, Sayaka Wakayama and Teruhiko Wakayama
P1-6	A novel culture system to recapitulate mouse oogenesis from fetal gonads of 12.5 day post-coitum: toward a large scale production of mature oocytes Taiki Aritomi, Yayoi Obata and Yuji Hirao
* P1-7	Estrogen Stimulation of Primordial Follicle Assembly Requires BMP2 Action Shyamal K Roy and Prabuddha Chakraborty
* P1-8	Normal ovulation, but reduced developing follicle pool in an infertile strain of AMH-overexpressing mouse. Michael W Pankhurst and Nicola J Batchelor
P1-9	Analysis of follicle development in cultured and transplanted reagggregated ovaries Belinda K.M. Lo, Sairah Sheikh and Suzannah A. Williams
P1-10	The regulation of high insulin levels on ovary apoptosis in early pregnant mice Fei Ru Gao, Chen Zhang, Juan Wu, Lin Jun He, Qing Xue Liu, Mei Xue Chen, Chao Tong, Bin Yu Ding, Qing Yan Geng, Qi Wen Chen and Xiong Ying Wang
* P1-11	Dissociated adult ovarian somatic cells can reorganise to form follicles Sairah Sheikh, Heidy Kaune, Belinda KM Lo, Anna Deleva and Suzannah A Williams
P1-12	The role of Janus kinase 1 (JAK1) in primordial follicle activation Jessie Maree Sutherland, Emily R Frost, Emmalee Ford, Kate A Redgrove and Eileen A McLaughlin
P1-13	Difference in antral follicle count of daughters and testosterone concentration during pregnancy between heifers and lactating cows Keisuke Koyama, Yojiro Yanagawa, Takeshi Koyama, Yoshitaka Matsui, Naohito Kusakari and Masahito Sugimoto
P1-14	Poly-ADP-ribosylation dependent autophagy signaling is involved during the process follicular development and atresia in pig ovarie Quanwei Wei, Wei Ding, Jun Xing, Siyu Sun, Yueqiao Zhang, Dagan Mao and Fangxiong Shi
P1-15	Relationships between antral follicle count, developmental competence of oocytes, and steroidogenesis of granulosa cells in cattle Kenichiro Sakaguchi, Takashi Tanida, Katsuhisa Nagai, Yinghua Yang, Yojiro Yanagawa, Seiji Katagiri and Masashi Nagano

P1-16	Exogenous growth differentiation factor-9 treatment induces follicle development through downregulation of anti-Mullerian hormone receptor as visualized in the sliced ovarian tissue culture system Tomohiko Murase, Akira Iwase, Kouji Komatsu, Bayasula Bayasula, Ying Qin, Phuoc Xuan Nguyen, Natsuki Nakanishi, Takashi Nagai, Ken Shimizu, Nao Kato, Satoko Osuka, Sachiko Takikawa, Maki Goto and Fumitaka Kikkawa
P1-17	Mouse oocyte connects with cumulus cells through the cell-membrane fusion during follicle development Kouji Komatsu and Satoru Masubuchi
P1-18	Basal and elevated exposure of primordial follicles to TGFβ1 promotes changes in cell cycle gene expression by alternate signalling mechanisms Sofia Granados-Aparici and Mark Fenwick
P1-19	Induction of autophagy in neonatal mice increases the number of primordial follicles Ren Watanabe and Naoko Kimura
P1-20	Prenatal husbandry and twin sex affect ovarian follicle populations in pre- and post-pubertal ewe lambs Cheryl Joy Ashworth, Charis O Hogg, Sarah J Nelson and Kenneth M D Rutherford
P1-21	Investigating the role of the epidermal growth factor (EGF) receptors (ErbBs) in mouse preantral follicle development Kacie Thomson, Victoria Ates, Helen Premannandan, Mhairi Laird, Stephen Franks and Kate Hardy
P1-22	Follicle numbers in the ovary of the juvenile and adult taiep rat. Luz Patricia Munoz de la Torre, Maria del Carmen Cortes Sanches, Jose Ramon Eguibar Cuenca and Angelica Trujillo Hernandez
P1-23	BMF and gonadotrophins regulate primordial follicle loss during puberty Seng Hii Liew, Quynh-Nhu Nguyen, Andreas Strasser, Jock K Findlay and Karla J Hutt
P1-24	Optimization of three-dimensional culture system for cat preantral follicles Kaywalee Chatdarong and Grisnarong Wongbandue
P1-25	Expression of aromatase mRNA and vascularity in FSH and normal saline induced follicular atresia during the final growth of bovine follicular wave Nattawut Kogram, Vilaivan Khanthusaeang, Surapong Tongrueng, Thunya Bunma and Chainarong Navanukraw
P1-26	The role of hedgehog signaling in theca cell steroidogenesis and follicle development in the cow Mhairi Laird, Claire Glister, Warakorn Cheewasopit, Gavin Robertson and Philip G Knight
P1-27	Oocyte-specific deletion of furin leads to female infertility by causing early secondary follicle arrest in mice Zhen-Bo Wang, Tie-Gang Meng, Meng-Wen Hu, Xue-Shan Ma, Lin Huang, Qiu-Xia Liang, Yue Yuan, Yi Hou, Hongmei Wang, Heide Schatten and Qing-Yuan Sun
P1-28	Attempt to discover new functional genes on primordial follicle maintenance. So Shimamoto, Nobuhiko Hamazaki and Katsuhiko Hayashi
P1-29	Effects of the hormonal treatment on the locational relationships between the first-wave dominant follicle and the corpus luteum after ovulation in dairy cows. Motozumi Matsui, Ryotaro Miura, Ken Hazano and Shingo Haneda
P1-30	TempOral + Poster control of oocyte cyst breakdown and granulosa cell differentiation via inhibition of the estrogen pathway is required for normal follicle assembly Ren Tanimoto, Kanako Morohaku, Tomohiro Kono, Yuji Hirao and Yayoi Obata

* P1-31	Comparison among resveratrol, melatonin and their combination in improving in vitro maturation of porcine oocytes Sanghoon Lee, Jun-Xue Jin, Anukul Taweechaipaisankul, Geon A Kim and Byeong Chun Lee
P1-32	Melamine negatively affects oocyte development and fertility in mice Shao-Chen Sun
P1-33	The association between reproductive age, energy metabolism, chromatin configuration, and gene expression in germinal vesicle-staged sheep oocytes Chutima Topipat, Paul J McKeegan, Jianping Lu, Esther Collado Fernandez, John D Huntriss and Helen M Picton
P1-34	Growth factors secreted by human endothelial progenitor cells and adipose stem cells: an in vitro co-culture model for porcine oocyte maturation. Seok Hee Lee, Hyun Ju Oh, Min Jung Kim, Geon A Kim, Erif Maha Nugraha Setyawan, Yoo Bin Choi and Byeong Chun Lee
P1-35	Rad51 Is Required for the DNA Damage Response During Porcine Oocyte Maturation zhe long jin, hai yang wang, tian yi sun, jing guo, xuan jing piao, xiang shun cui and nam hyung kim
P1-36	Effects of different hormonal treatments on the dynamics of protein disulfide isomerase (PDI) during porcine oocyte maturation. Konosuke Okada, Satoe Ozawa, Kaoru Hasuo, Rika Ishii, Ayumi Suzuki and Hitoshi Ushijima
P1-37	Reduced levels of cAMP and cGMP are responsible for the meiotic maturation of porcine small follicle oocytes when denuded at 20 h of culture Pilar Ferre Pujol, Tomoki Nagahara, Takuya Wakai and Hiroaki Funahashi
P1-38	Effect of duration for oocyte growth on acquisition of meiotic competence of porcine oocytes derived from early antral follicles Takayuki Yamochi, Shu Hashimoto, Masaya Yamanaka, Masayasu Inoue, Yoshiharu Nakaoka and Yoshiharu Morimoto
P1-39	Effect of in vitro maturation medium containing L-carnitine on gene expression during in vitro maturation of mouse embryos Masayuki Anzai, Rika Azuma, Manami Nishimura, Yoshihiro Noda, Akari Obashi, Rina Ogasawara, Akari Washizu, Chikara Kogiso and Yoshihiko Hosoi
P1-40	Single-cell transcriptome analysis in XY oocytes of Sry-mutated sex-reversed mice. Akihiko Sakashita, Chiaki Nishimura and Tomohiro Kono
P1-41	Stag3 regulates microtubule stability to maintain euploidy during mouse oocyte meiotic maturation Mianqun Zhang
P1-42	GDF8 induced mitochondrial membrane potential during porcine oocyte maturation in vitro Junchul David Yoon and Sang-Hwan Hyun
P1-43	The Effects of Exogenous Hormones on the Progression of Oocytes through Prophase I of Meiosis Melissa E Pepling, Sudipta Dutta and Deion M Burks
P1-44	Natriuretic peptide receptor 2 (NPR2) localized in bovine oocyte membranes underlies a unique mechanism for C-type natriuretic peptide (CNP)-induced meiotic arrest Guangyin Xi, Jianhui Tian and Lei An
P1-45	Bovine oocytes grow in vitro in oocyte-cumulus cell complexes collected from early antral follicles Rie Yamada and Takashi Miyano

P1-46	N -acetyl-L-cysteine promotes maturational competence of pig oocytes during in vitro growth culture Riki Kawamoto and Takashi Miyano
P1-47	Mineralocorticoid modulates bovine oocyte nuclear maturation through mineralocorticoid receptor Masafumi Tetsuka and Ami Kashima
* P1-48	MARF1 controls oocyte meiotic progression in mice Guangyi Cao, Xiaoyun Zhang, Hong Yin, Mingzhe Li, Lanying Shi and You-Qiang Su
* P1-49	Loss of sister kinetochore co-orientation and peri-centromeric cohesin protection after meiosis I depends on cleavage of REC8 at centromeres Sugako Ogushi, Ahmed Rattani, Jonathan Godwin, Jean Metson, Lothar Schermelleh and Kim Nasmyth
P1-51	FMNL1-mDia1-Profilin1 regulates cytoskeleton dynamics during mouse oocyte meiosis Yu Zhang
P1-52	Daam1 regulates fascin for actin assembly during mouse oocyte meiosis Yujie Lu
P1-53	Plk1 is essential for cortical polarity through actin cap establishment in meiosis I Wai Shan Yuen, Qing-Hua Zhang, Deepak Adhikari, Guillaume Halet and John Carroll
P1-54	HDAC8 functions in spindle assembly during mouse oocyte meiosis. kemei zhang, Kemei Zhang, Yajuan Lu, Chaohua Jiang, Wei Liu, Jing Shu, Xueqin Chen, Yingjiao Shi, Ensheng Wang, Li Wang, Qinbo Hu, Yibo Dai and Bo Xiong
P1-55	Smc1β is required for activation of SAC during mouse oocyte meiosis Yilong Miao
P1-56	Effect of PDE inhibitors on growth and maturational competence of partially meiotic-competent bovine oocytes in vitro Md Hasanur Alam and Takashi Miyano
P1-57	Intersectin2 controls actin dynamics and meiotic division in mouse oocytes through Cdc42 pathway Qiang Wang
P1-58	Attempts to establish a live imaging system for early mouse oocyte differentiation Yohei Nishimura, Go Nagamatsu, Hiroshi Kimura, Hiroko Nakamura, Mitsuru Komeya, Hiroyuki Yamanaka, Takehiko Ogawa and Katsuhiko Hayashi
P1-59	RNA-associated protein LSM14 controls oocyte meiotic maturation through regulating mRNA pools Ying-Chun Ouyang, Teng Zhang, Yuanyuan Li, Hui Li, Xue-Shan Ma, Yi Hou, Heide Schatten and Qing-Yuan Sun
P1-60	TGF-beta and Cyclic AMP Regulation of Androgen-specific Genes in Primary Bovine Thecal Cells NICOLE ANNE BASTIAN, KATJA HUMMITZSCH, NICHOLAS HATZIRODOS, WENDY M. BONNER, HELEN F. IRVING-RODGERS and RAYMOND J. RODGERS
P1-61	Effect of fibroblast growth factors on theca cell function, health and immediate-early response gene expression Christopher A Price, Peng Han and Hilda Guerrero-Netro
* P1-62	Mouse granulosa cells secrete functional extracellular vesicles in vitro. Yuta Matsuno, Wataru Fujii, Kunihiro Naito and Koji Sugiura

P1-63	Kisspeptin promotes apoptosis and progesterone secretion of bovine ovarian granulosa cells Hongyu Liu, Zhiyu Yuan, Yunyi Dongyang, Jun Wang and Wenfa Lu
P1-64	Possibility of transdifferentiating mouse granulosa cells into Sertoli-like cells in vitro Haruka Ito, Chihiro Emori, Wataru Fujii, Kunihiko Naito and Koji Sugiura
P1-65	Epigenetic regulation of gonadotropin receptor expression in human granulosa cells Ken Shimizu, Akira Iwase, Nguyen Xuan Phuoc, Ganieva Umida, Qin Ying, Bayasula Bayasula, Natsuki Nakanishi, Takashi Nagai, Yukiyo Kasahara, Tomohiko Murase, Nao Kato, Chiharu Ishida, Satoko Osuka, Tomoko Nakamura, Sachiko Takikawa, Maki Goto and Fumitaka Kikkawa
P1-66	Telomere lengths in oocytes and granulosa cells derived from aged cows Airi Kin, Kazuki Kansaku, Yumie Ueno, Koumei Shirasuna, Takehito Kuwayama and Hisataka Iwata
P1-67	Effects of NRF-1 on steroidogenesis and cellular apoptosis in goat luteinized granulosa cells in vitro Guomin Zhang, Mingtian Deng, Yanli Zhang, Yongjie Wan, Haitao Nie, Ziyu Wang, Yixuan Fan, Zhihai Lei and Feng Wang
P1-68	Effect of hypoxia on angiogenesis and progesterone production in bovine luteinising follicular cells in vitro. Chinwe U Nwachukwu, Kathryn J Woad and Robert S Robinson
P1-69	TASK-3 expression is up-regulated by 17β-estradiol in bovine granulosa cells Dawon Kang, Chang-Woon Kim, Eun-Jin Kim, Ji Hyeon Ryu, Marie Merci Nyiramana, Adrian S. Siregar, Changyong Choe, IL-Keun Kong, Dong-Keun Lee, Seong-Geun Hong and Jaehee Han
P1-70	Effects of low oxygen condition on expressions of metalloproteinases, tissue inhibitor of metalloproteinases and the production of progesterone in bovine luteinizing granulosa cells FADHILLAH , Yuki Yamamoto, Kiyoshi Okuda and Koji Kimura
P1-71	FHL2 formed an autocrine loop with EGF/EGFR signaling pathway to regulate ovarian granulosa cell growth Guohua Hua and Chen Wang
* P1-72	Cyclic AMP modulated-IVM differentially impacts oocyte and cumulus cell metabolism Dulama Richani, Sonia Bustamante, Cathy F Lavea, Raji Kanakkaparambil1, Nady Braidy, David J Agapiou, Michael J Bertoldo and Robert B Gilchrist
P1-73	Transcriptomic signature of the follicular somatic compartment surrounding an oocyte with high developmental competence Satoshi Sugimura, Norio Kobayashi, Hiroaki Okae, Tadayuki Yamanouchi, Hideo Matsuda, Takumi Kojima, Akira Yajima, Yutaka Hashiyada, Masahiro Kaneda, Kan Sato, Kei Imai, Kentaro Tanemura, Takahiro Arima and Robert B Gilchrist
P1-74	Mechanism of palmitic acid induced deterioration of in vitro development of porcine oocyte-granulosa cells complexes Hidenori Shibahara, Nobuhiko Itami, Koumei Shirasuna, Takehito Kuwayama and Hisataka Iwata
P1-75	Exosome-free follicular fluid has differential ability to support granulosa cell and oocyte development Yasuhisa Munakata, Shun Takeo, Koumei Shirasuna, Takehito Kuwayama and Hisataka Iwata
P1-76	Effects of IGF-1 on progesterone production in cumulus cells during in vitro maturation of canine oocyte cumulus complexes. Akane Sato, Sora Isoyama, Borjigin Sarentongla, Kazuko Ogata, Mio Yamaguchi, Asuka Hara, Khurchabiling Atchalalt, Naoko Sugane, Mayumi Hasegawa, Rika Fukumori and Yoshikazu Nagao

P1-77	Neurotensin (NTS) induces sustainable activation of ERK1/2 via inductions of EGF-like factor and EGF receptor during ovulation in mice. Asako Okamoto, Masayuki Shimada and Yasuhisa Yamashita
P1-78	Cumulus extracellular matrix represents an important new mechanism in the regulation of ovulatory proces in porcine follicles. Eva Nagyova
P1-79	Chromatin modification during the ovulatory process: The role of liver receptor homolog-1 Stephanie Bianco, Marie-Charlotte Meinsohn, Rajesha Duggavathi, Nicolas Gevry and Bruce D. Murphy
P1-80	Comparison of Interleukin 1β expression between natural and super ovulation in mice Kihae Ra, Geon A Kim, Hyun Ju Oh, Sung Keun Kang, Jeong Chan Ra and Byeong Chun Lee
P1-81	Quantity and quality of glycosphingolipids are involved in the regulation of luteal function in women Junko NIO-KOBAYASHI, W Colin Duncan and Toshihiko Iwanaga
P1-82	Spheroid culture of bovine luteal steroidogenic cells influences their progesterone production and sensitivity to luteinizing hormone China Maruo, Kazuhisa Hashiba, Fadhillah and Koji Kimura
P1-83	Lipopolysaccharide (LPS) inhibits bovine luteal angiogenesis in vitro. Kathryn J Woad, Rachel Harris, Yasmin McLaughlin and Robert S Robinson
P1-84	Effect of IGF1 on bovine luteal angiogenesis and progesterone production in vitro Chinwe U Nwachukwu, Kathryn J Woad and Robert S Robinson
P1-85	Effects of heat stress on the function of corpus luteum in beef cattle Takuo Hojo, Miki Sakatani and Naoki Takenouchi
P1-86	Expressions of migration-related factors in bovine corpus luteum and cultured luteal cells after PGF2α treatment Yuri Watanabe, Kazuhisa Hashiba, Kiyoshi Okuda and Koji Kimura
P1-87	Possible role of glucose transporter-1 in progesterone synthesis in bovine corpus luteum Hiroki Hasegawa, Ryo Nishimura, Mitsugu Hishinuma, Masamichi Yamashita, Norihiko Ito, Yoshiharu Okamoto, Tomoaki Kubo, Kosuke Iga, Koji Kimura and Kiyoshi Okuda
P1-88	Effect of aging on the corpus luteum function in beef and dairy cows Konomi Hori, Shuichi Matsuyama, Sho Nakamura, Aoba Naito, Mayumi Matsushita, Wakana Arihara, Haruka Kawahara, Takehito Kuwayama, Hisataka Iwata, Akio Miyamoto and Koumei Shirasuna
P1-89	Correlation between progesterone production and cellularity during the luteal growth and regression in goats Chainarong Navanukraw, Vilaivan - Khanthusaeang, Aree - Kraison and Jiratti - Thammasiri
P1-90	The effect of Schmallenberg virus on luteal angiogenesis and progesterone production in vitro. Robert S Robinson, Charlotte Watkins, Rachael E Tarlinton, Julia H Kydd, Sabine Totemeyer and Janet M Daly
P1-91	Morphological characterization of luteolysis and macrophages in the regressing corpus luteum of cyclic Hatano rats Kanako Sueoka, Ryo Ohta, Junichi Kamiie, Kinji Shirota and Mariko Shirota
P1-92	C-phycoyanin protects against low fertility by inhibiting reactive oxygen species in aging mice Cheng-Guang Liang, Yan-Jiao Li, Zhe Han, Lei Ge, Cheng-Jie Zhou, Yue-Fang Zhao, Dong-Hui Wang, Jing Ren and Xin-Xin Niu

P1-93	The functional role of CISD2 in the female reproductive system of mouse Heng-Yu Chang, Meng-Ti Hsieh, Yao-Shane Weng, Ting-Fen Tsai and Chi-Long Chen
P1-94	Reproductive productivity measurements of sows in Japanese commercial swine breeding herds in Kyushu region Yosuke Sasaki, Satoshi Sekiguchi and Masuo Sueyoshi
P1-95	Vascular Cast and Anatomical Properties of Sheep Ovarian Artery Xinrong Wang and Yanan Yang
P1-96	Genome-wide Analysis of DNA Methylation Profiles in Sheep Ovaries Associated with Prolificacy Using Whole-genome Bisulfite Sequencing Fengzhe Li, Xu Feng, Feng Wang, Hua Yang, Aoxiang Zhu, Jing Pang, Le Han, Tingting Zhang, Xiaolei Yao and Yanli Zhang
P1-97	Ovarian transcriptomic analysis of mRNAs and lncRNAs related to prolificacy in Hu sheep Xu Feng, Fengzhe Li, Feng Wang, Jing Pang, Aoxiang Zhu, Tingting Zhang, Caifang Ren and Yanli Zhang
P1-98	Inflammatory-related factors are activated depending on aging in bovine oviduct epithelial cells Koumei Shirasuna, Hazuki Tanaka, Ayaka Ohtsu, Yuki Nakamura, Ryoka Kawahara-Miki, Hisataka Iwata and Takehito Kuwayama
P1-99	Effect of palmitic acid on inflammatory response and mitochondrial function in bovine oviduct epithelial cells Ayaka ohtsu, Hazuki Tanaka, Hisataka Iwata, Takehito Kuwayama and Koumei Shirasuna
P1-100	Palmitic acid induced ceramide accumulation causes mitochondrial dysfunction through down-regulation of AMPK/SIRT3 pathway in oocytes Nobuhiko Itami, Manami Ueda, Koumei Shirasuna, Takehito Kuwayama and Hisataka Iwata
P1-101	Cysteine protease genes in ovarian cells treated with toxic environmental drugs Da-Hye Lee, Madhuri Saindane, Jihye Choi, Jun-Hyeok Park and Kwang-Hyun Baek
P1-102	Aflatoxin B1 is toxic to porcine oocyte maturation Jun Liu, Qiaochu Wang, Jun Han, Bo Xiong and Shaochen Sun
P1-103	Periconceptional alcohol exposure and female reproductive health: impacts on offspring ovarian reserve and reproductive capacity. Lisa K Akison, Han Dang, Sarah L Walton, Sarah E Steane, Jason Liew, Karla J Hutt and Karen M Moritz
P1-104	PARP-1 cleavage revealed a mechanism of 3-nitropropionic acid induced multi-oocytes follicles in the ovaries of female mice Quanwei Wei, Guoyun Wu, Yueqiao Zhang, Jun Xing and Fangxiang Shi
P1-105	Ovarian vascular dysfunction in STZ-treated female mice Nuria Galindo-Solano, Jose Alfredo Jimenez-Medina, Coral Huidoro-Hernandez, Itayetzi Romero-Mota, Gabriel Gutierrez-Ospina and Tatiana Fiordelisis
P1-106	Phthalate worsen ovarian failure in 4-vinylcyclohexene induce premature ovarian failure model Changhwan Ahn, Dinh Nam Tran, Jae-Hwan Lee, Jin Yong An, Seon Young Park, Bonn Lee and Eui-Bae Jeung
P1-107	Activity of MPF and expression of its related genes in mouse MI oocytes exposed to cadmium Jin Liu and Jin Liu
P1-108	Mitochondrial inhibitors are effective for oocytes but not granulosa cells Kazuki Kansaku, Nobuhiko Itami, Takeo Shun, Koumei Shirasuna, Takehito Kuwayama and Hisataka Iwata

P1-109	Cadmium exposure in newborn rats ovary induces developmental disorders of primordial follicles and the differential expression of SCF/c-kit gene Wenchang Zhang, Lingfeng Luo, Jin Liu, Chenyun Zhang, Tingting Wu, Meimei Xie and Huiling Huang
P1-110	Impact of supplementation with Ashitaba chalcones on heat stress-dependent prolonged estrous cycling in mice Takayuki Yasui, Daichi Kokubu, Hana Ishizaki, Takashi Shimizu and Hitoshi Miyazaki
P1-111	Prevention of chemotherapy-induced ovarian damage by the superoxide dismutase mimetic activity of mangafodipir YING QIN, Akira Iwase, Bayasula Bayasula, Tomohiko Murase, Satoko Osuka, Sachiko Takikawa, Maki Goto and Fumitaka Kikkawa
P1-112	The effect of supplementation with folic acid in non-pregnant and pregnant mice on the ovarian morphology and embryo development Reyna Stephanie Penailillo-Escarate, Judith J Eckert, Graham C Burdge, Tom P Fleming and Karen A Lillycrop
P1-113	Effect of SCE Supplementation on Adrenal gland and Follicular development on Heat-treated Rats Meihua ZHENG, Kentaro NAGAOKA and Gen WATANABE
P1-114	Hormones and expression of related receptor genes in bovine cystic ovarian follicular Xiaoling Xu, Jiahua Bai, Yinxia Xiao, Tao Feng, Linli Xiao, Yuqing Song and Yan Liu
P1-115	Preservation of female reproduction from cancer treatment through manipulation of NAD+ Wing Hong Ho, Dave R Listijono, Shi-Yun Catherine Li, David A Sinclair, Hayden A Homer and Lindsay E Wu
P1-116	Proteome analysis for ovarian autoimmunity in primary ovarian insufficiency (POI) patients Satoko Osuka, Akira Iwase, Yukiyo Kasahara, Shotaro Hayashi, Nuguyen Phoc Xuan, Qin Ying, Takashi Nagai, Ken Shimizu, Bayasula Bayasula, Tomohiko Murase, Sachiko Takikawa, Maki Goto and Fumitaka Kikkawa
P1-117	Status of C-Type Natriuretic Peptide (CNP) in Polycystic Ovary Syndrome (PCOS). Bayasula
P1-118	Ovarian activity imbalance during the early postpartum period in lactating dairy cows Hiromi Kusaka, Hiroshi Miura, Motohiro Kikuchi and Minoru Sakaguchi
P1-119	Somatic cell dysfunction in Premature Ovarian Insufficiency Sairah Sheikh and Suzannah A Williams
P1-120	Effect of hyperbaric oxygen therapy on the xenotransplantation of cryopreserved canine ovarian tissues with even distribution of follicles Ichiko Wakasa and Hiroshi Suzuki
P1-121	SUCCESSFUL PREGNANCY IN PREMATURE OVARIAN INSUFFICIENCY WOMAN UNDER IVF MILD STIMULATION PROTOCOL---A CASE REPORT Meng-Shun Shen, ShaoYin Wu and ShaoPing Weng
P1-122	Reduced ovarian response after 2nd human FSH administration is caused by production of antibody against human FSH in cynomolgus monkey. Yasunari Seita, Jun Matsushita, Chizuru Iwatani, Hideaki Tsuchiya and Masatsugu Ema
P1-123	Morphometric analysis of in vitro cultured cryopreserved human ovarian cortical strips from cancer patients Charlotte A Walker, Federica Lopes, The Oxford Fertility Preservation Team, Norah Spears and Suzannah A Williams

P2-1	Identification of the molecular markers preferentially expressed in spermatogonial stem cells in fish Makoto Hayashi, Yoshiko Iwasaki, Tetsutaro Hayashi, Masashi Ebisawa, Yohei Sasagawa, Mika Yoshimura, Kensuke Ichida, Itoshi Nikaido and Goro Yoshizaki
P2-2	Ptbp1 deficiency induces a decrease of spermatogonia in neonatal mice. Manami Senoo, Manabu Ozawa, Takashi Takijiri and Nobuaki Yoshida
P2-3	The role of JMJD3 in the regulation of intercellular bridges during the fragmentation of spermatogonial cysts. Naoki Iwamori, Tokuko Iwamori, Sakurako Shima and Hiroshi Iida
* P2-4	The histone demethylase KDM2A regulates differentiation of spermatogonia in mice Manabu Ozawa, Eri Kawakami, Akinori Tokunaga, Reiko Sakamoto and Nobuaki Yoshida
P2-5	The post-transcriptional regulator Lin28 expression in Neonatal Porcine Testis JAE-SEOK WOO, Gi-Sun Im, WooTae Ha and Hyuk Song
P2-6	Ambivalent behavior of fibroblast growth factor 2 in mouse germline niche Kaito Masaki, Shunsuke Kuroki, Jun-ichiro Jo, Makoto Tachibana, Yasuhiko Tabata and Seiji Takashima
P2-7	Diffusive motion dynamics of sperm stem cells in mouse testis Kenshiro Hara, Kentaro Tanemura and Shosei Yoshida
P2-8	The role of neuroendocrine system in regulating spermatogenesis Shota Aiba, Haruhiko adachi, Kaito Masaki and Seiji Takashima
P2-9	Depletion of recipient germ cells compromises the spermatogenesis of transplanted testis tissue Akihiro Tsuchimoto, Masaaki Tone and Seiji Takashima
P2-10	Dynamics of male germ cells on proliferation and cell death during seasonal reproductive cycle in wild mice Jun Ito, Takuya Ohdaira, Kanna Meguro, Rina Syoji, Haruka Saito, Sueo Niimura and Hideaki Yamashiro
P2-11	Testicular injection of busulfan for recipient preparation in transplantation of spermatogonial stem cells in mice dong wang and Yusheng Qin
P2-12	In vitro production of fertile sperm from cryopreserved spermatogonia of the endangered endemic cyprinid honmoroko (Gnathopogon caerulescens) Tatsuyuki Takada, Manami Shimada, Kazuaki Kawamoto, Takaaki Todo, Toshihiro Kawasaki, Ikuo Tooyama, Yasuhiro Fujioka, Noriyoshi Sakai and Shogo Higaki
P2-13	Comparative analysis of testis transcriptomes revealed genes associated with male infertility in cattleyak Xin Cai, Wangsheng Zhao, Wenjing Liu, Chuanfei Xu and Shixin Wu
* P2-14	Mouse D1Pas1, a DEAD-box RNA helicase, is required for the completion of first meiotic prophase in male germ cells Hiroki Inoue, Narumi Ogonuki, Michiko Hirose, Yuki Hatanaka, Shogo Matoba, Yumiko Koga, Shinnosuke Suzuki, Kuniya Abe, Shinichiro Chuma, Kimio Kobayashi, Shigeharu Wakana, Junko Noguchi, Kimiko Inoue, Kentaro Tanemura and Atsuo Ogura
P2-15	Functional analysis of the Y chromosome region related human male infertility in mice Takafumi Matsumura, Masahito Ikawa, Masaki Ogawa and Ayako Isotani
P2-16	Conditional ablation of Raptor in the male germ line causes infertility due to meiotic arrest and impaired inactivation of sex chromosomes Shun Bai

P2-17	Geminin is required for pre-meiotic DNA replication and subsequent spermatogenesis Yi Hou, Yue Yuan, Xue-Shan Ma, Qiu-Xia Liang, Zhao-Yang Xu, Lin Huang, Tie-Gang Meng, Fei Lin, Heide Schatten, Zhen-Bo Wang and Qing-Yuan Sun
P2-18	Ectopic expression of RAD21L-containing cohesin brings homologous chromosomes closer in somatic cells Mei Rong, Sachi Miyauchi and Jibak Lee
P2-19	Disruption of the Mrnip gene causes male sterility Renata Prunskaitė-Hyyryläin, Julio Castaneda, Ramiro Ramirez-Solis and Martin M. Matzuk
P2-20	The last odd Sox: Sox30 is essential for spermatogenesis in mice. Chun-Wei Allen Feng, Cassy Spiller, Moira O'Bryan, Peter Koopman and Josephine Bowles
P2-21	Identification and investigation of a novel lncRNA in mouse spermatogenesis Jialv Huang
P2-22	Capture of mRNA-binding proteomes from purified round spermatids of mouse testis reveals an abundance of cytoskeleton-associated proteins Qiuling Yue
P2-23	The mechanism of impaired capacitation in Slc22a14-deficient sperm Toshiya Higuchi, Momoe Ito, Wataru Fujii and Keiichiro Yogo
P2-24	SEPT14 Mutation Causes Male Infertility Ya-Yun Wang, Tsung-Hsuan Lai, Han-Sun Chiang, Pao-Lin Kuo and Ying-Hung Lin
P2-25	Activation of FFAR4 improves sperm motility through the PI3K/Akt and p38 MAPK pathway Ryutaro Moriyama, Chiaki Umeda, Yume Yamamoto and Ikumi Wakasa
P2-26	Expression and phosphorylation dynamics of tau in mouse spermatozoa Rin Yanai, Kenshiro Hara and Kentaro Tanemura
P2-27	Expression of RANTES and SDF1 receptors and its function in bovine sperm Kohei Umezu, Kenshiro Hara and Kentaro Tanemura
* P2-28	LRGUK1 is required for manchette function, forming multiprotein complex with intracellular transportation proteins. Hidenobu Okuda, Kathleen DeBoer, Anne E O'Connor, Jo Merriner, Duangporn Jamsai and Moira K O'Bryan
P2-29	Exotic tubulins in spermiogenesis, the key to precise regulation by KATNAL2 Jessica Dunleavy, Hidenobu Okuda, D. Jo Merriner, Anne O'Connor and Moira O'Bryan
P2-30	RSPH6A is essential for sperm flagellum formation and male fertility in mice Ferheen Abbasi, Haruhiko Miyata and Masahito Ikawa
* P2-31	Immotile short-tail sperm defect related gene QRICH2 regulates AKAP4 expression during the development of sperm flagellum Ying Shen
P2-32	The role of the cilia-related gene CBE1 in spermatogenesis Christiane Pleuger, Daniela Fietz, Katja Hartmann, Hans-Christian Schuppe, Wolfgang Weidner, Sabine Kliesch, Mark Baker, Moira O'Bryan and Martin Bergmann
* P2-33	Protein-protein interactions in the sperm membrane prior to fusion with the egg. Katerina Dvorakova-Hortova, Natasa Sebkova, Lukas Ded and Michaela Frolikova

P2-34	Effect of magnesium on exocytosis of boar sperm acrosome stimulated by calcium and the calcium ionophore A23187 Quzi Sharmin Akter, Reza Rajabi Toustani, Kenji Shimizu, Yasushi Kuwahara and Tetsuma Murase
P2-35	A novel X-chromosome-linked protein, KIAA1210, localizes to the acrosome and associates with the ectoplasmic specialization in testes Tokuko Iwamori, Yuzuru Kato, Naoki Iwamori, Masaki Matsumoto, Yumiko Saga, Etsuro Ono and Martin M Matzuk
P2-36	Human globozoospermia-related gene Spata16 is essential for spermiogenesis in mice Yoshitaka Fujihara, Asami Oji, Tamara Larasati, Kanako Kojima-Kita and Masahito Ikawa
P2-37	Identification of Differentially Expressed Genes (DEGs) in X and Y spermatozoa in Bos taurus Faheem Ahmed Khan, Ligu Yang, Guohua Hua and ShuJun Zhang
P2-38	Subfertility in mice with mutations in Cecr2 is phenotypically distinct between males and females and improves with age in males Kacie A Norton, Chelsey B Weatherill, Ross C Humphreys, Vivian V Nguyen, Kevin Duong and Heather E McDermid
P2-39	Age-related changes in DNA methylation levels of CpG sites in bull spermatozoa and IVF embryos Kumiko Takeda, Eiji Kobayashi, Kagetomo Nishino, Akira Imai, Hiromichi Adachi, Yoichiro Hoshino, Satoshi Akagi, Masahiro Kaneda and Shinya Watanabe
P2-40	Nuclear quiescence and histone hyper-acetylation jointly improve protamine-mediated nuclear remodelling in sheep fibroblasts Luca Palazzese, Marta Czernik, Domenico Iuso, Paola Toschi and Pasqualino Loi
P2-41	Regulation of rodent sperm hyperactivation by serotonin Yukiko Sugiyama, Masakatsu Fujinoki, Gen L. Takei and Hiroaki Shibahara
P2-42	Na⁺/K⁺ + ATPase α4 subunit plays the important role in hyperactivation while α1 subunit is essential for the maintenance of motility in hamster sperm Gen L. Takei and Masakatsu Fujinoki
P2-43	Regulation of sperm hyperactivation by hormones present in the oviduct Masakatsu Fujinoki, Gen L. Takei and Hiroe Kon
P2-44	Mechanism for the extracellular Ca²⁺-dependent occurrence of full-type hyperactivation in boar sperm treated with a cAMP analog Nagisa Otsuka and Hiroshi Harayama
P2-45	Calyculin A-sensitive protein phosphatases which are involved in the suppression for full-type hyperactivation of bovine sperm Yuka Arai, Mitsuhiro Sakase, Moriyuki Fukushima and Hiroshi Harayama
P2-46	Oxidation of protein thiols reduces sperm fertility by suppressing hyperactivation Satohiro Nakao, Kazuki Shirakado, Kana Tamura, Mayumi Ikeda, Yu Ishima, Toru Takeo and Naomi Nakagata
P2-47	Autophagy and the Nrf2-antioxidant system act as partners to ameliorate heat-induced damage in mice testes Yansen Li, Zhaojian Li, Xin Zhou, Pengyuan Dai and ChunMei Li
P2-48	Comparison of glucose and fructose metabolic pathway in bovine sperm Yousuke Naniwa, Masashi Kinukawa and Kyoko Uchiyama

P2-49	Mechanism of long-term sperm storage in epididymis of Chinese soft-shelled turtle, <i>Pelodiscus sinensis</i> Qiusheng Chen, Hong Chen, Yufei Huang, Tengfei Liu, Ping Yang, Nisar Ahmed, Taozhi Wang, Lingling Wang and Xuejing Sun
P2-50	Multi-faceted investigation of anucleated sperm function in Lepidoptera Andrew J. Mongue, James R. Walters, Keiro Uchino and Hideki Sezutsu
P2-51	Sperm motility substance may be insufficient no induce forward motility of <i>Cynops ensicauda</i> sperm Daisuke Endo
P2-52	The relationship between seminal plasma constituents and semen parameters of South African indigenous goats. Fhulufhelo Vincent Ramukhithi, Khoboso Christina Lehloenya, Antoinette Kotze, Khathutshelo Agree Nephawe, Tlou Caswell Chokoe, Mokgadi Magdelin Seshoka, Thinus Jonker and Tshimangadzo Lucky Nedambale
P2-53	Effect of Oleuropein, a Major Functional Compound of Olive Leaves, on Heat-induced Male Reproductive Dysfunction Hana Ishizaki, Zhenzhen Li, Daichi Kokubu, Atsushi Asano and Hitoshi Miyazaki
P2-54	Dietary L-arginine supplementation improves semen quality and libido in boar under high ambient temperature jiaqin chen, Peiqi Zhu, Yansen Li and Chunmei Li
P2-55	Effect of organic trace minerals on semen quality and the gene expression related to testosterone synthesis in breeder roosters Peng Yuan Dai, Ti Peng Shan, Pei Ji Zhu, Yan Sen Li and Mei Chun Li
P2-56	Restraint stress of male mice impairs semen quality by inducing apoptosis of spermatogenic cells with activation of the Fas/FasL system Jing-He Tan, Xiao Li, Ming-Jiu Luo, Bin Xiao, Fei-Hu Lin and Chuan-Yong Li
P2-57	Improvement of freeze-drying preservation method of spermatozoa at room temperature Yuko Kamada, Sayaka Wakayama and Teruhiko Wakayama
P2-58	Healthy offspring from freeze-dried mouse spermatozoa held on the International Space Station for 9 months Sayaka Wakayama, Yuko Kamada, Kaori Yamanaka, Takashi Kohda, Hiromi Suzuki, Toru Shimazu, Motoki N Tada, Ikuko Osada, Aiko Nagamatsu, Satoshi Kamimura, hiroaki Nagatomo, Eiji Mizutani, Fumitoshi Ishino, Sachiko Yano and Teruhiko Wakayama
P2-59	Microdissection testicular sperm extraction in patients with Klinefelter syndrome. Hiroshi Masuda and Haruhito Azuma
P2-60	Quercetin improves the survival of cold-stored sperm for seven days in a cold-storage medium by maintaining mitochondrial activity Hidetaka Yoshimoto, Toru Takeo and Naomi Nakagata
P2-62	Estimation of bull fertility by sperm population analysis in cryopreserved-thawed bovine semen Masashi Kinukawa, Yousuke Naniwa and Kyoko Uchiyama
P2-63	Special property of trehalose in frozen canine semen extender Kang Sun Park, Lili Zhuang, Dong Eon Kim, Chi Sun Yun, Eun Ji Lee, Beom Sik Kim, Ju Ran Chun and Min Kyu Kim
P2-64	The beneficial effect of resveratrol on the cryopreserved boar sperm quality Kampon Kaeoket and Panida Chanapiwat

P2-65	A phosphodiesterase inhibitor, Zardaverine enhances motility of frozen-thawed porcine sperm Jiyeon Jeong, Jian Lee and Inchul Choi
P2-66	A strategy to improve post thaw quality of buck sperm by using adenosine 5' triphosphate Ejaz Ahmad, Ata ul-Rehman Hamaad, Zahid Naseer, Faisal Ayub Kiani, Tanveer Ahmad, Muhammad Saleem Akhtar, Muhammad Amjid Ali and Abdul Sattar
P2-67	Comparison among standard semen analysis, acrosomal integrity by FITC-PNA and the ability to undergo the acrosome reaction in response to calcium and the calcium ionophore A23187 in frozen-thawed Japanese Black bull spermatozoa Reza Rajabi-Toustani, Quzi Sharmin Akter, Yoichiro Hoshino, Koushi Mukoujima, Shin-ich Sakaguchi and Tetsuma Murase
P2-68	Transition of sperm motility subpopulation in bull semen during freezing process in a conventional egg yolk-tris extender evaluated by cluster analysis Chihiro Kanno, Yoshiyuki Takahashi, Yojiro Yanagawa, Seiji Katagiri and Masashi Nagano
P2-69	Pregnancy rate of Hanwoo cows by artificial insemination with frozen-thawed epididymal sperm derived from Hanwoo bulls Byoung-Chul Yang, Sung-Sik Kang, Ui-Hyung Kim, Ki-Yong Chung, Sun-Sik Jang, Hyoun-Ju Kim, Bo-Suck Yang, Myoung-Sook Lee, Seok-Dong Lee and Sang-Rae Cho
P2-70	Unique expression of heat shock related molecules may control the spermatogenesis in Asian elephant (<i>Elephas maximus</i>) cryptorchid testes YOKO SATO, Theerawat Tharasanit, Narong Tiptanavattana, Praopilas Phakdeedindan, Chatchote Thitaram, Chaleamchat Somgird, Sittidet Mahasawangkul, Nikorn Thongtip, Masayasu Taniguchi, Takeshige Otoi and Mongkol Techakumphu
P2-71	Thermotolerance Identification on Different Breeds of Water Buffalo using Relative Expression of HSP70 Gene in Semen under Varying Seasons Excel Rio Santos Maylem, Eufrocina P Atabay, Edwin C Atabay, Shanemae M Rivera and Emma V Venturina
P2-72	Post-mortem sperm regeneration from genetically modified disease model pigs Yuri Kasai, Kazuhiro Umeyama, Yuki Katsumata, Sayaka Yashima, Ayuko Uchikura, Hitomi Matsunari, Kazuaki Nakano and Hiroshi Nagashima
P2-73	Effects of single-layer Percoll centrifugation on rooster spermatozoa selection Hsiu-Lien Lin
P2-74	Male factor infertility: contemporary rise in azoospermia in Pakistani population. Gulfam Ahmad, Zeenat Usman, Haroon Latif Khan and Saad AlShahrani
P2-75	Histomorphometry and biochemical studies of radio frequency electromagnetic radiation from cell phone on testicular functions of male Wistar rats Adeoye O. Oyewopo, Christianah I. Oyewopo, Kehinde Olaniyi and Aisha Jimoh
P2-76	Testes as one of the organs for long-term accumulation of the biodegradable ZnO:Eu nanoparticles in mice Michal Marek Godlewski, Paula Kielbik, Jaroslaw Kaszewski, Sebastian Dabrowski, Ricardo Faundez, Ewelina Wolska, Rafal Sapiezynski, Zdzislaw Gajewski and Marek Godlewski
P2-77	The effect of Oral + Posterly administrated ZnO:Eu nanoparticles on blood-testis barrier, sperm parameters and apoptosis in mice testes Paula Kielbik, Sebastian Dabrowski, Ricardo Faundez, Jaroslaw Kaszewski, Ewelina Wolska, Rafal Sapiezynski, Zdzislaw Gajewski, Marek Godlewski and Michal M Godlewski
P2-78	Investigating embryonic mechanisms that underpin germ cell malignancy potential Cassy M Spiller, Guillaume Burnet, Peter Koopman, Leendert L.H Looijenga and Josephine Bowles

P2-79	Acute Chlamydia muridarum infection detrimentally affects host cell response pathways in the male reproductive tract Kate A Redgrove, Ryan Perry, Jessie M Sutherland, Emily Bryan, Avinash Kollipara, Charles W Armitage, Peter Mulvey, Kenneth W Beagley and Eileen A McLaughlin
P2-80	Chronic Chlamydia muridarum infection results in testicular damage, low sperm quality, and impairs offspring development Emily Bryan, Kate Redgrove, Avinash Kollipara, Charles Armitage, Peter Mulvey, Eileen McLaughlin and Kenneth Beagley
P2-81	Blood-epididymis barrier (BEB) dysfunction and altered miRNA profiles in mice following intra-penile infection with Chlamydia muridarum. Eileen Anne McLaughlin, Kate A Redgrove, Ryan Perry, Emily Bryan, Avinash Kollipara, Charles W Armitage and Kenneth W Beagley
P2-82	Epigenetic changes involved in testicular toxicity induced by doxorubicin in mice Kazuya Sakai, Kenshiro Hara and Kentaro Tanemura
P2-83	Chronic hepatitis B virus infection in Tunisian male partners of infertile couples : epidemiology, sperm quality and reproductive potential. Afifa Sellami, Salima Daoud, Maha Chabchoub, Nozha Chakroun, Kais Chaaben and Tarek Rebai
P2-84	Decreased phosphorylation of PI3K/AKT/PTEN pathway involvement in motility loss associated with prohibitin downregulation in sperm from infertile men Hong CHEN, Ranran Chai, Guowu Chen and Wai-sum O
P2-85	An in vitro model to study epididymal function in the rat. Suresh Yenugu and Sangeeta Sangeeta
P2-86	Loss of SLC9A3 decreases CFTR protein and causes obstructed azoospermia in mice Ya-Yun Wang, Ying-Hung Lin, Yi-No Wu, Yen-Lin Chen, Yung-Chih Lin, Chiao-Yin Cheng and Han-Sun Chiang
P2-87	Abnormal ciliogenesis in the efferent ductuli of the miR-34b/c-/-; miR-449-/- double knockout mouse Jingwen Wu, Yue Liu, Li Wang, Yanqin Hu and Chen Xu
P2-88	Heterogeneity of mammalian Sertoli cells Kasane Kishi, Aya Uchida, Keiya Nagasawa, Masahiro Igo, Hinako M. Takase, Hitomi Suzuki, Masami Kanai-Azuma, Masamichi Kurohmaru and Yoshiakira Kanai
P2-89	Expression and localization of Dmrt1 in the testes of postnatal sheep (ovis aries) at different developmental stages Ji You Ma and Tao Tao Li
* P2-90	Inhibition of ER stress alleviates ZEA-induced apoptosis in Leydig cells through modulation of UPR pathway Diqi Yang, Diqi Yang, Pengfei Lin, Tingting Jiang, Huatao Chen, Keqiong Tang, Dou Zhou, Aihua Wang and Yaping Jin
P2-91	Impaired autophagic flux in Leydig cells results in late-onset hypogonadism Chao Liu
P2-92	Evaluation of the Leydig cell function on crossbreeding yak showing infertility Ryota Kuriwaki, Yoko Sato, Shiki Hagino, Megumi Shimazaki, Rentsenkhand Sambuu, Lanh Thi Kim Do, Fuminori Tanihara, Mitsuhiro Takagi, Masayasu Taniguchi and Takeshige Otoi

P2-93	Bbs9 Circular rna could be a negtive regulater in hedgehog pathway and affect mouse leydig cell proliferation minzhi jia
P2-95	Evidence for sulfated steroids in reproduction - DFG Research Group 1369 "Sulfated Steroids in Reproduction" Martin Bergmann, Daniela Fietz, Rita Bernhardt, Joachim Geyer, Gerhard Schuler, Stefan A. Wudy, Georgios Scheiner-Bobis and Christine Wrenzycki
P2-96	Description of a potential sulfatase pathway in the human testis Daniela Fietz, Katja Hartmann, Katharina Bakhaus, Josefine Bennien, Sabine Kliesch, Wolfgang Weidner, Joachim Geyer and Martin Bergmann
P2-97	Luteinizing hormone stimulation of GnRH expression in the testicular interstitial cells Mitsumori Kawaminami, Hideo Sekine, Kana Yamasaki, Mina Wakai, Hitohiko Hirose, Kaori Amano, Ryota Terashima and Shiro Kurusu
P2-98	Influence of activin A on the development of fibrosis and origin of collagen-producing cells in chronic testicular inflammation Anastasia Christine Kleinert, Nour Nicolas, Sudhanshu Bhushan, Eva Wahle, Kate L. Loveland, Andreas Meinhardt, Mark P. Hedger and Monika Fijak
P2-99	Spermatogenesis-specific disorder in rat experimental autoimmune orchitis induced by allogeneic sperm immunization Junko Noguchi, Tadashi Furusawa, Thanh Q. Dang Nguyen, Kazuhiro Kikuchi and Hiroyuki Kaneko
P2-100	Molecular mechanisms underlying the postnatal testis development in non-human primates Kota Kuroki, Sawako Okada and Masanori Imamura
P2-101	Ashitaba ameliorates male reproductive dysfunction induced by heat stress Daichi Kokubu, Hana Ishizaki, Takayuki Yasui, Kaori Sudoh, Ryosuke Ohba, Atsushi Asano and Hitoshi Miyazaki
* P2-102	The Targeted Disruption of Lipoxygenase Enzymes Prevents Oxidative Stress in the Male Germline Elizabeth G Bromfield, Jessica LH Walters, Bettina P Mihalas, Matthew D Dun, R. John Aitken, Eileen A McLaughlin and Brett Nixon
P2-103	Testicular oxidative stress and inducible nitric oxide synthase expression following metronidazole administration in the laboratory mouse Mrinalini Kumari and Poonam Singh
P2-104	The effects of natural antioxidant compound Honokiol on Cisplatin-induced oxidative stress in testis Yu-Hua Lai, Hung-Ting Liu, Tong-Rong Jan, Hong-Ju Liang and Pei-shuie Jason Tsai
P2-105	Screening for extracellular matrix factors that may concern in male fertility Daiji Kiyozumi, Ryo Yamaguchi, Masaru Okabe and Masahito Ikawa
P2-106	Paternal miR-146a regulation of the female immune response at conception in the mouse Hon Y. Chan, John E. Schjenken, Nicole O. McPherson and Sarah A. Robertson
P2-107	Systematic expression profiling of long non-coding RNA in immature and mature Hu sheep testes Hua Yang
P2-108	Molecular signatures of nutritional programming through generations: focus on testis Monika M Kaczmarek, Marta Romaniewicz, Malgorzata Sikora, Tamra Mendoza and Leslie P Kozak
* P2-109	Paternal diet impacts on adult offspring health through sperm- and seminal fluid-specific mechanisms Adam J. Watkins, Richard D. Emes, Joanna Moreton, Richard J. Ingram and Kevin D. Sinclair

P2-110	Epigenetic changes on mouse spermatogenic cells induced by Sodium valproate Masafumi Sekine, Kazuya Sakai, Norio Kobayashi, Yoshiki Shirakata, Hiroaki Okae, Jin Hiura, Kenshiro Hara, Takahiro Arima and Kentaro Tanemura
P2-111	Inhibiting the consequences of acrylamide exposure on the male germ line Shaun Daryl Roman and Aimee L Katen
P2-112	Study on Damage and Toxicity Mechanism of Lead in the Male Reproduction System of the Freshwater Crab Sinopotamon henanense Na Li, Peng Xu, Ru Jia, Feng Dong, Shiou Jiang Hwang and Lan Wang
P3-1	Oocyte volume prevents efficient SAC function in meiosis I in mouse Simon I.R. Lane and Keith T Jones
* P3-2	Cyclin A2 prevents merotelic attachments and lagging chromosomes specifically in meiosis II Qinghua Zhang
P3-3	Histone deacetylase 6 (HDAC6) is an essential factor for oocyte maturation and asymmetric division in mice Dongjie Zhou, Eunsu Kim, Yunjung Choi and Jinhoi Kim
* P3-4	Lack of coordination between sister chromatid segregation and cytokinesis in the oocytes of B6.YTIR (XY) sex-reversal female mice Jia-Qiao Zhu, Seang Lin Tan and Teruko Taketo
P3-5	The involvement of linker histone variant H1foo in the chromatin remodeling during the 1 and 2-cell stages in mouse embryos Satoshi Funaya and Fugaku Aoki
* P3-6	Disrupted parental asymmetry of chromatin structure in ROSI-derived zygotes Masatoshi Ooga and Teruhiko Wakayama
P3-7	Differential regulation of H3S10 phosphorylation, mitosis progression and cell fate by Aurora Kinase B and C in mouse preimplantation embryos Jie Na, Wenzhi Li, Peizhe Wang, Jia Ming and Jing Zhang
P3-8	Investigating the role of RNA Polymerase I transcription during oocyte-to-embryo transition Chih-Jen Lin, Rowena Smith, Rupsha Fraser, Ismael Lamas-Toranzo and Pablo Bemejo-Alvarez
P3-9	Kinetics of CDK/Cyclin complexes and phosphorylated RNA polymerase II in mouse oocytes and fertilized embryos Shingo Takamatsu, Masataka Nakaya, Misaki Hosokawa, Seiya Shirouzu, Kouhei Minobe, Yoshihiro Mori, Satoshi Kurosaka and Tasuku Mitani
P3-10	Involvement of symmetrically dimethylated histone H3R2 in mouse preimplantation development Kohtaro Morita, Chika Higuchi, Soki Yamaguchi, Tamako Matsuhashi, Kohei Nagai, Masayuki Anzai, Hiromi Kato, Kazuo Yamagata, Yoshihiko Hosoi, Kei Miyamoto and Kazuya Matsumoto
P3-11	Pioglitazone treatment during maternal to zygotic transition of mouse embryos by modulating intracellular ROS level and embryonic gene expression nanzhu fang, Lijie Xu, Haixing Liu, Zhongshu Li, Ihsan Ali and Obaid Ullah
* P3-12	Proper degradation of a maternal protein during maternal-to-zygotic transition is important for normal development Chika Higuchi, Kohtaro Morita, Soki Yamaguchi, Tamako Matsuhashi, Kohei Nagai, Masayuki Anzai, Kazuo Yamagata, Yoshihiko Hosoi, Kei Miyamoto and Kazuya Matsumoto
P3-13	Expression of antioxidant enzymes levels at the period of MET in mouse embryonic Nanzhu Fang and changli guo

P3-14	Effects of reactive oxygen species(ROS) on the embryonic development and apoptosis genes mRNA expression in mouse Dongxue Ma and Zhongshu Li
P3-15	Antioxidant effect of Pterostilbene a natural Stilbenoid on the development of H2O2 induced oxidative stress in mouse preimplantation embryo. Obaid Ullah, Hai Xing Liu, Ihsan Ali, Lijie Xu, Li Zhong Shu and Nan Zhu Fang
P3-16	Effect of tauroursodeoxycholic acid addition on embryo development using cumulus-free oocyte in vitro maturation Masato Mochizuki, Satoshi Kishigami and Masatoshi Ooga
P3-17	Supplementation of Salubrinal during In Vitro Culture Enhance in vitro development and combated Tunicamycine induced Endoplasmic Reticulum (ER) stress in mouse preimplantation embryo. Ihsan Ali, Hai Xing Liu, Obaid Ullah, Li Zhong Shu, Xu Li jie and Nan Zhu Fang
P3-18	Pin1 functions during early cleavage division in mouse embryo Yumi Hoshino, Takuma Miyamoto, Tomoko Kawai, Takafumi Uchida and Masayuki Shimada
P3-19	Requirement of mTOR signaling for normal blastocyst formation in the mouse Yui Saitoh and Satoshi Kishigami
P3-20	The α-ketoglutarate Promotes the in vitro Development of Pronuclear Embryos and Increases the Efficiency of Blastocyst Implantation in Murine Zhenzhen Zhang, Changjiu He, Guoshi Liu, Dongying Lv and Yukun Song
P3-21	Relation between genetic integrity and metabolic activity in pre-implantation stage embryos Satish Kumar Adiga, Fiona Dsouza, Shubhashree Uppangala, Guruprasad Klathur, Renu Pasricha and Hanudatta Atreya
P3-22	The biological effect of ionizing radiation on the development of early mouse embryos Natsumi Shimizu, Hidehiko Kawai, Megumi Sasatani, Mitsuhiro Endoh, Nobuhiro Kato, Kazuhiro Saeki and Toshiya Inaba
P3-23	Proteoglycans suppress apoptosis in mouse embryos derived from aged oocytes Gaku Shimoi, Misa Umetsu, Hidemitsu Uchisawa, Ken-ichi Kudoh and Yuichi Kameyama
P3-24	Effect of NAD⁺ precursor in aged mice oocytes matured in vitro on spindle morphology and developmental ability Mika Ishii, Misaki Ishizuka, Mizuho Suzuki and Naoko Kimura
P3-25	Single cell RNA-seq reveals age-related changes in aged mouse oocytes at the germinal vesicle (GV) stage Arwa Abdulaziz Alageel, Emmanouela Repapi, Nicki Gray and Suzannah A Williams
P3-26	Reliable measurement of mitochondrial distribution and membrane potential in oocytes Usama I. AL-zubaidi
P3-27	Utilization of morphologically deficient COCs through co-culture strategy Joobin Lee
P3-28	The influence of oocytes origin and maturation medium supplemented bioactive-substance for in vitro produced bovine embryo cell cycle Tadayuki Yamanouchi, Hideo Matsuda, Masaki Ohtake, Yuki Goto, Satoshi sugimura and Yutaka Hashiyada
P3-29	The Granulocyte-macrophage colony-stimulating factor enhances porcine parthenogenetically activated embryos development Geon A Kim , Jun-Xue Jin, Sanghoon Lee, Anukul Taweetchaipaisankul and Byeong Chun Lee

P3-30	Treatment of allicin improves maturation of immature oocytes and subsequent developmental ability of preimplantation embryos Sang-Gi Jeong, Seung-Eun Lee, Yun-Gwi Park, Yeo-Jin Son, Min-Young Shin, Eun-Young Kim and Se-Pill Park
P3-31	Effect of glycine and alanine in amino acid-free chemically defined medium on oocyte maturation and embryonic development in pigs Yongjin Lee, Joohyun Shim, Nayoung Ko, Hyoung-Joo Kim, Jae-Kyung Park, Hyunil Kim and Kimyung Choi
P3-32	Antioxidant effect of β-Cryptoxanthin improves the developmental potential of porcine oocytes matured in vitro Yun-gwi Park, Seung-Eun Lee, Yeo-Jin Son, Min-Young Shin, Sang-Gi Jeong, Eun-Young Kim and Se-pill Park
P3-33	Melatonin improves the meiotic maturation of porcine oocytes through the reducing of endoplasmic reticulum stress in vitro Hyo-Jin Park, Jae-Young Park, Jin-Woo Kim, Seul-Gi Yang, Jae-Min Jung, Min-Ji Kim, In-Su Kim, Ho-Guen Jegal and Deog-Bon Koo
P3-34	Dual effect of fetal bovine serum on early development depends on stage-specific reactive oxygen species demands in pigs Seung-Bin Yoon, Seon-A Choi, Pil-Soo Jeong, Hae-Jun Yang, Jae-Jin Cha, Joo-Young Kim, Ju-Hyun An, Jong-Hee Lee, Young-Ho Park, Bong-Seok Song, Bo-Woong Sim, Ji-Su Kim and Sun-Uk Kim
P3-35	Adverse effect of IL-6 on in vitro fertilization of pig Young-Joo Yi and Sang-Myeong Lee
P3-36	Tryptase enhances hatching ability of in vitro-produced porcine blastocysts Koji Yoshioka, Yosuke Sakaguchi and Chie Suzuki
P3-37	Lysophosphatidic acid stimulates porcine embryo development through the activation of phospholipase C signaling pathway Minghui Jin and SangHwan Hyun
P3-38	The negative effect of bisphenol A on porcine early embryonic development Kyung Tae Shin, Jing Guo, Nam-Hyung Kim and Xiang-Shun Cui
P3-39	Effects of seminal plasma on interaction of porcine embryo and endometrial epithelial cells Senga Touma, Shuto Minagawa, Tsutomu Hashizume and Ken Sawai
P3-40	Antioxidant effect of 3-mercapto-1,2-propanediol in embryo culture system Shun Sato, Osamu Dochi and Kei Imai
P3-41	B vitamin mixture promotes bovine blastocyst development in vitro and downregulates gene expression of TXNIP with epigenetic modification of associated histones Shuntaro Ikeda, Miki Sugimoto and Shinichi Kume
P3-42	Effects of L-ascorbic acid 2-phosphate on bovine IVF embryos after blastomere separation and blastocyst bisection. Shinnosuke Tamura, Mami Hosokawa, Aoi Kono, Yu Takenaka, Keisuke Edashige and Kazutsugu Matsukawa
P3-43	L-carnitine Promotes the Developmental Competence of Bovine Somatic Cell Nuclear Transfer Embryos Lili Zhuang, Dong Eon Kim, Chi Sun Yun, Eun Ji Lee, Jong Dug Choi, Sung Bok Kim, Jun Jong Baek, Jae Sam Lim, Seung Bum Lim, Ju Lan Chun and Min Kyu Kim

P3-44	Optimum MG132 Treatment Improves In Vitro Development, Blastocyst Quality and Affects Histone Epigenetic Modification of Debaio Porcine Somatic Cell Nuclear Transfer Embryo Xiangping Li, Kaiyuan Shen, Xiaoli Dai, Qingyou Liu and Deshun Shi
P3-45	Development competence of porcine embryos derived from oocytes selected by brilliant cresyl blue Pantu Kumar Roy, Xun Fang, Bahia MS Hassan and Jong Ki Cho
P3-46	Melatonin improve porcine SCNT embryo development by enhances DNA damage repair YONGXUN JIN, Shuang Liang, Nam Hyung Kim, Kyu Chan Hwang and Woo Suk Hwang
P3-47	Melatonin prevents postovulatory oocyte aging and promotes subsequent embryonic development in the pig Yi-Liang Miao
P3-48	Autophagy influences preimplantation development in porcine in vitro fertilization embryos Ken Sawai, Sumi Kikuchi, Senga Touma, Shuto Minagawa and Tsutomu Hashizume
P3-49	Induction of p62-mediated lipophagy in mammalian cells and mouse early embryos Satoshi Tsukamoto and Takayuki Tatsumi
P3-50	Chromosomal dynamic of mammalian embryos containing massive lipids Shu Hashimoto, Takayuki Yamochi, Masaya Yamanaka and Yoshiharu Morimoto
P3-51	The lipid droplets clusters: the difference between Bos indicus and Bos taurus embryos EVA PATRICIA LOPEZ DAMIAN, Jose Alfredo Jimenez-Medina, Miguel Angel Lammoglia, Jaime Arturo Pimentel, Carlos Galina and Tatiana Fiordelisis
P3-52	Effects of different combination of cryoprotectants on the survival and in vitro development of matured bovine oocytes after vitrification Vajara Vipassa, Yuanyuan Liang and Rangsun Parnpai
P3-53	Ovine embryo cryopreservation without animal products Magda Guedes Teixeira, Loris Commin, Lucie Gavin-Plagne, Pierre Bruyere, Thierry Joly and Samuel Buff
P3-54	Development of rat vitrified embryos in each developmental stage Hiroaki Taketsuru and Takehito Kaneko
P3-55	Development of vitrified blastomeres of genotyped porcine embryos Ayuko Uchikura, Sayaka Yashima, Ikuma Umeki, Hitomi matsunari, Kazuaki Nakano, Shiori Itazaki and Hiroshi Nagashima
P3-56	Effects of downregulation of AQP3 transcripts by RNA interference on early development and cryotolerance of bovine embryos Takashi Fujii, Hiroki Hirayama, Akira Naito, Hitomi Yoshino, Satoru Moriyasu and Ken Sawai
P3-57	Analysis of Cyclin E1 Functions in Porcine Preimplantation Embryonic Development Xiang-Shun Cui, Ying-Jie Niu, Jing Guo, Kyung-Tae Shin and Nam-Hyung KIm
P3-58	Cytoplasmic polyadenylation element binding protein-2 regulates tight junction Biogenesis in porcine parthenotes developing in vitro Sunha Park, JeongWoo Kwon, Minjung Seong, Inchul Choi and Namhyung Kim
P3-59	Effect of downregulating microRNA processing factor transcript by RNA interference on porcine preimplantation embryos Shuto Minagawa
P3-60	A novel long intergenic noncoding RNA, Lnc-370 plays a vital role in the first cell cycle of porcine embryonic development Heng Zhang, Jingyu Li, Zhengling Gao, Xu Yang and Zhonghua Liu

P3-61	Conservation of the Piwi-piRNA pathway in mammals Helena Fulka, Michiko Hirose, Yuka Kabayama, Hiroyuki Sasaki, Wojciech Makalowski, Petr Svoboda and Atsuo Ogura
P3-62	Glucuronidation is involved with early embryonic development in vitro Yuka Okabe, Motoko Takahashi, Satoshi Miyata, Junichi Fujii and Naoko Kimura
P3-63	Effect of the hyperovulation induction method in highly immunodeficient NOD/Scid/JAK3null mice Maki Sakaguchi
P3-64	The functional analysis of Ovol genes in lineage specification of mouse PGCs Yuki Naito, Go Nagamatsu, Nobuhiko Hamazaki, Makoto Hayashi, Yuko Shinozuka, Satoru Kobayashi and Katsuhiko Hayashi
P3-65	A holistic view of parental DNA methylome reprogramming and inheritance during mouse embryogenesis Hisato Kobayashi, Tasuku Koike, Akihiko Sakashita, Soichiro Kumamoto, Asuka Kamio and Tomohiro Kono
P3-66	The role of SMYD3 in methylation of H3K4 of Hmgpi promoter regions in mouse preimplantation embryos Shinnosuke Honda, Shinnosuke Suzuki, Satoshi Tsukamoto, Takehito Kaneko, Hiroshi Imai and Naojiro Minami
P3-67	Distinct features of H3K4me3 and H3K27me3 chromatin domains in pre-implantation embryos Xiaoyu Liu, Chenfei Wang, Wenqiang Liu, Jingyi Li, Yong Zhang, Yawei Gao and Shaorong Gao
P3-68	Functional analysis of histone demethylase Kdm5b in mouse preimplantation development Mao Kurasa, Takehito Kaneko, Shinnosuke Suzuki, Satoshi Tsukamoto, Hiroshi Imai and Naojiro Minami
P3-69	Imprinting disorder in donor cells is detrimental to the development of cloned embryos in pigs Yanjun Huan, Fangzheng Li, zhongling Jiang and Xuexiong Song
P3-71	PGD procedure influences gene expression and DNA methylation during early embryonic development Lei Yang, Ruimin Xu, Yinglu Tang, Chong Li, Tao Duan and Shaorong Gao
P3-72	Gene expression analysis of bovine blastocysts developed in vivo and in vitro. Tatsuo Noguchi, Ryouka Kawahara-Miki, Yasuhisa Munakata, Koumei Shirasuna, Takehito Kuwayama and Hisataka Iwata
P3-73	Expression of transcription factors in development of porcine oocytes & embryos So Yeon Kim
P3-74	Porcine trophoblast cells keep the ability to contribute to the inner cell mass at early blastocyst stage Shichao Liu, Jianchao Zhao, Lei Lei and Zhonghua Liu
P3-75	Peroxisome-proliferator-activated receptor δ (PPARδ) mRNA expression profile in different stages of bovine embryos. Katarzyna Grycmacher, Dorota Boruszewska, Emilia Sinderewicz, Ilona Kowalczyk-Zieba, Joanna Staszkiwicz and Izabela Woclawek-Potocka
P3-76	Prostaglandin F2alpha synthesis and action in the early and late cleaved embryos before and after the maternal-embryonic genome transition Izabela Woclawek-Potocka, Katarzyna Grycmacher, Dorota Boruszewska, Emilia Sinderewicz, Ilona Kowalczyk-Zieba and Joanna Staszkiwicz

P3-77	Expression of enzymes involved in the synthesis of prostaglandin E2 in the early and late cleaved bovine embryos before and during the maternal-embryonic genome transition Dorota Boruszewska, Katarzyna Grycmacher, Ilona Kowalczyk-Zieba, Emilia Sinderewicz, Joanna Staszkiwicz and Izabela Woclawek-Potocka
P3-78	The prevalence and consequences of reverse cleavage of bovine embryos viewed with the time lapse cinematography Fumie Magata, Haruna Okubo, Manami Urakawa, Masato Konishi and Atsushi Ideta
P3-79	Attempt to establish the bovine embryo culture system after hatching of blastocysts Misa Hosoe, Tadashi Furusawa, Ken-go Hayashi, Toru Takahashi, Yutaka Hashiyada, Keiichiro Kizaki, Kazuyoshi Hashizume, Tomoyuki Tokunaga and Ryosuke Sakumoto
* P3-80	The molecular characteristics of avian blastoderm dormancy Young Sun Hwang, Sang Kyung Kim, Hee Jung Choi and Jae Yong Han
P3-81	Differences of intracellular signaling for autonomous acrosome reaction from that for the acrosome reaction at fertilization. Akihiko Watanabe, Shinnosuke Kon and Eriko Takayama-Watanabe
* P3-82	PLCzeta is the physiological trigger of embryogenesis in mammals, but offspring can be conceived naturally in its absence John Parrington, Alaa Hachem, Jonathan Godwin, Margarida Ruas, Hoi Chang Lee, Minerva Ferrer Buitrago, Goli Ardestani, Andrew Bassett, Sebastian Fox, Petra De Sutter, Bjorn Heindryckx and Rafael Fissore
P3-83	A vesicular source of PI(4,5)P2 is associated with PLCζ-induced Ca²⁺ oscillations in mouse eggs. Jessica Rose Sanders, Yuansong Yu, Sophie Davies, Anna Moon, Michail Nomikos, F Anthony Lai and Karl Swann
P3-84	Developmental competence of mouse oocyte activated by different species of PLCζ Yunosuke Yamamoto, Masatoshi Ooga, Satoshi Kamimura, Hiroaki Nagatomo, Sayaka Wakayama, Junya Ito and Teruhiko Wakayama
P3-85	Lipopolysaccharide exposure to spermatozoa affects embryo development in mice Takashi Shimizu, Ryosuke Yura, Akio Miyamoto, Hiroyuki Tateno and Hiroyuki Watanabe
P3-86	Addition of licorice extract to culture media improves in vitro fertilization ability Hiromitsu Tanaka, Yukihiro Shoyama, Nguyen Huu Tung, Seitaro Kamiya, Akira Tsujimura, Yasushi Miyagawa and Toh-ichi Hirata
P3-87	Lipid raft dynamics linked to sperm competency for fertilization in mice Gen Kondoh, Hitomi Watanabe, Rie Takeda and Keiji Hirota
* P3-88	Rapid production of next generations by in vitro fertilization using spermatozoa from prepubertal male mice Keiji Mochida, Ayumi Hasegawa, Narumi Ogonuki, Jinsha Liu, Kimiko Inoue and Atsuo Ogura
P3-89	Shortening the marmoset intergeneration time using immature spermatozoa Narumi Ogonuki, Hidetoshi Kassai, Hiroki Inoue, Atsu Aiba and Atsuo Ogura
P3-90	Detailed strain specific difference on fertilization process by mouse ICSI Eriko Sano, Hiroaki Nagatomo, Masatoshi Ooga, Satoshi Kamimura, Sayaka Wakayama, Satoshi Kishigami and Teruhiko Wakayama
P3-91	Effect of digitonin on the production of transgenic mice by intracytoplasmic injection Bo-Woong Sim, Seung-Bin Yoon, Seon-A Choi, Pil-Soo Jeong, Hae-Jun Yang, Jae-Jin Cha, Ju-Hyun An, Joo-Young Kim, Jong-Hee Lee, Young-Ho Park, Bong-Seok Song, Ji-Su Kim and Sun-Uk Kim

P3-92	Optimization of in vitro fertilization parameters for frozen epididymal sperm with low fertilization ability in a Vietnamese indigenous pig Nguyen Viet Linh, Tamas Somfai, Nguyen Thi Hiep, Nguyen Thi Nhung, Nguyen Thi Hong, Nguyen Tien Dat, Nguyen Khanh Van and Kazuhiro Kikuchi
P3-93	Freeze-dried sperm: an alternative biobanking solution for endangered farm species Debora A. Anzalone, Luca Palazzese, Domenico Iuso and Pasqualino Loi
* P3-94	A Unique Egg Cortical Granule Localization Motif Is Required for Ovastacin Sequestration to Prevent Premature ZP2 Cleavage and Ensure Female Fertility in Mice Bo Xiong and Jurrien Dean
P3-95	Effects of Different Dose of sperm on Fertility of Sows Yu-Shin Chen, Ting-Chieh Kang, Feng-Hsiang Chu, Yu-Jing Liao, Chean-Ping Wu and Lih-Ren Chen
P3-96	Effects of new sperm sorting method on bovine embryonic development in vitro Miki Sakatani, Takuo Hojo, Naoki Takenouchi, Maria P. B. Nagata and Kenichi Yamashita
P3-97	Comparison of sperm fertility and developmental capacity of bovine in vitro fertilization embryos according to sperm treated solution and Jeju Black Cattle sperm Seung-Eun Lee, Min-Young Shin, Yeo-Jin Son, Min-Jee Park, Eun-Young Kim and Se-Pill Park
P3-98	A relationship between conception rate of Japanese Black cattle and outside temperature in commercial cow-calf operations Erina Kino, Mizuho Uematsu, Go Kitahara, Takeshi Osawa and Yosuke Sasaki
P3-99	Association between female factor infertility, gamete quality and embryo metabolism Shubhashree Uppangala, Ajeet Kumar PATIL, Fiona Dsouza, Guruprasad Kalthur, Santosh Chidangil, Pratap Kumar and Satish Kumar Adiga
P3-100	Isoleucine depletion during mouse in vitro preimplantation development activates compensatory endocytosis in the trophectoderm Laura Caetano, Bhav Sheth, Neil R. Smyth, Franchesca Houghton, Judith J. Eckert and Tom P. Fleming
P3-101	Addition of insulin during bovine in vitro oocyte maturation has an impact on methylation pattern of imprinted genes Denise Laskowski, Patrice Humblot, Ylva Sjunnesson, Goran Andersson, Marc-Andre Sirard and Renee Bage
P3-102	Diabetes: dramatically altering the health of the pre-implantation embryo and reproductive tract. Hannah M Brown, Tiffany CY Tan, Sophie Kedzior, Ella Green, Louise Hull, Sarah A Robertson and Jeremy G Thompson
P3-103	The consequences of maternal protein restriction around conception on mouse fetal brain development with a legacy for adult memory. Joanna Mary Gould, Jennifer Pearson-Farr, Lauren Elizabeth Airey, Oliver Semmence, Tom Patrick Fleming and Sandrine Willaime-Morawek
P3-104	Effects of maternal high-fat diet (HFD) on cell populations in the cortex and hippocampus of the adult offspring mouse brain Diego Ojeda- Pedraza, Kate Jane Coupe, Oliver Hutton, Tom P Fleming, Judith Eckert and Sandrine Willaime-Morawek
P3-105	Comparison of vaginal examination methods for the evaluation of vaginal discharge in dairy cows around estrus Dai Ishiyama, Yoshihiro Nakamura, Fuko Matsuda and Kei-ichiro Maeda
P3-106	Cloning and expression analyses of chicken forkhead box L3 Kennosuke Ichikawa, Ryo Ezaki, Shuichi Furusawa and Hiroyuki Horiuchi

P3-107	Abortion risk of sows infected porcine epidemic diarrhea Aina Furutani, Satoshi Sekiguchi, Masuo Sueyoshi and Yosuke Sasaki
* P4-1	Prominin-1 and -2 are uniquely found in flattened membranes in uterine epithelial cells during early pregnancy Samson N Dowland, Laura A Lindsay and Christopher R Murphy
* P4-2	Importance of WT1 in the regulation of IGFBP1 and PRL in human endometrial stromal cells undergoing decidualization. Isao Tamura, Yuichiro Shirafuta, Yumiko Mihara, Masahiro Shinagawa, Maki Okada, Kosuke Jozaki, Ryo Maekawa, Hiromi Asada, Toshiaki Taketani, Shun Sato, Hiroshi Tamura and Norihiro Sugino
P4-3	Vesicle regulation controlled by SNARE proteins during uterine receptivity Sadaf Nusrat Kalam
P4-4	Early response genes to oil-induced decidualization in mouse uterus Shoichi Wakitani, Ken Takeshi Kusakabe and Yasuo Kiso
P4-5	'Receptive' Uterine Epithelial Cells after Ovarian Hyperstimulation Laura A Lindsay, Samson N Dowland, Romanthi J Madawala and Christopher R Murphy
P4-6	Genome-wide DNA methylation analysis revealed stable DNA methylation status during decidualization in human endometrial stromal cells Ryo Maekawa, Isao Tamura, Masahiro Shinagawa, Yumiko Mihara, Shun Sato, Maki Okada, Kosuke Jozaki, Toshiaki Taketani, Hiromi Asada, Hiroshi Tamura and Norihiro Sugino
P4-7	Regulation of decidual prolactin through EPAC-mediated CCAAT/enhancer binding protein beta (C/EBP-beta) in endometrial stromal cells Kazuhiro Tamura, Mikihiro Yoshie, Kazuya Kusama, Hanako Bai, Toshihiro Sakurai, Hirotaka Nishi, Keiichi Isaka and Eiichi Tachikawa
P4-8	Spiny mice exhibit metabolic and behavioural changes across the menstrual cycle reflective of women and indicative of premenstrual syndrome Nadia Bellofiore, Stacey Ellery, Jemma Evans, Peter Temple-Smith and Hayley Dickinson
P4-9	BeWo cell as In vitro model : Impact of the EDCs on placenta transporter channel Jae-Hwan Lee, Changhwan Ahn, Dinh Nam Tran, Jin Yong An, Seon Young Park, Bonn Lee and Eui-Bae Jeung
P4-10	Slc38a4/SNAT4, a system A amino acid transporter, plays critical roles for mouse placental development Shogo Matoba and Atsuo Ogura
P4-11	Immunohistochemical distribution of cocaine and amphetamine regulated transcript (CART) in uterine tissues in situ and peritoneal implants Olga Aniolek, Izabela Janiuk, Justyna Niderla-Bieli?ska, Joanna Olkowska Truchanowicz, Bogna Ziarkiewicz Wroblewska, Zdzis?aw Gajewski and Jacek Malejczyk
P4-12	SMAD1 and SMAD5 are essential for female fertility, uterine receptivity and hormonal response Diana Monsivais, Maya L. Kriseman, Paul T. Fullerton, Renata Prunskaitė-Hyyrylain, Stephanie A. Pangas and Martin M. Matzuk
P4-13	Correlative Light and Electron Microscopy (CLEM): Visualising the dynamic keratin and actin cytoskeleton of uterine epithelial cells during normal pregnancy and ovarian hyperstimulated pregnancy Chad Lewis Moore, Delfine Cheng, Gerald J. Shami, Samson Dowland, Laura A. Lindsay and Christopher R. Murphy

P4-14	Hysteroscopic polypectomy restores endometrial steroidal response Kaiyu Kubota, Junya Kojima, Yotaro Takaesu, Hiroe Ito, Keiichi Isaka and Hirotaka Nishi
P4-15	Expression of progesterone receptor membrane component 1 (PGRMC1) in the peri-implantation rat uterus Mikihiro Yoshie, Kazuhiro Tamura, Ryo Yonekawa, Hirotaka Nishi, Keiichi Isaka, Naoko Kuwabara and Eiichi Tachikawa
P4-16	Effect of Interleukin-1β on Expression of Activin βA-subunit mRNA in Human Amniotic Epithelial Cells Yumiko Abe, Norio Nakagawa, Takumi Nagasawa, Daisuke Higeta, Takashi Kameda, Hiroshi Kishi and Takashi Minegishi
P4-17	The Morphological and Molecular Changes of the Uterine Epithelial Cell Adherens Junction during Early Pregnancy in the Rat Romanthi Jessica Madawala, Sam Dowland and Christopher Murphy
P4-18	Expression and regulation of calcium sensing seceptor and intracellular calcium channels in the uterine endometrium and placenta in pigs Hwanhee Jang, Yohan Choi, Inkyu Yoo, Jisoo Han and Hakhyun Ka
P4-19	Effect of seminal plasma on endometrial cytokine expression and reproductive outcome after AI in sows. Minami W. OKUYAMA, Kenzo Uchikura, Shigeyuki Tagima, Chie Suzuki, Koji Yoshioka, Akira Nishizono and Seiji Katagiri
P4-20	The regulation and effect of stanniocalcin 1 in the porcine endometrium during the establishment of pregnancy Amal Mohammed, Kathryn J Woad, George E Mann and Robert S Robinson
P4-21	Heat stress decreases the expression of genes encoding type I interferon receptors, cytokines, and ABCB1 in bovine uterine epithelial cells in vitro Miyuki Mori, Takeshi Hayashi, Shuji Ueda and Katsumi Shimomura
P4-22	Heat stress influences the effect of interferon tau on the secretion of prostaglandins in bovine endometrial cells Shunsuke Sakai, Mami Yagi, Nao Fujime, Mariko Kuse, Ryosuke Sakumoto, Yuki Yamamoto, Kiyoshi Okuda and Koji Kimura
P4-23	Regulation of MMP via type I interferon in the bovine endometrium during implantation stage Nobuhiko Yamauchi, Taisuke Fujihara, Seiya Yamashita, Kaname Nishino and Md. Rashedul Islam
P4-24	Inflammation, interferon signaling, and cell cycle-related genes are changed with aging in bovine endometrial cells Nao Tanikawa, Ayaka Ohtsu, Ryoka Kawahara-Miki, Koji Kimura, Shuichi Matsuyama, Hisataka Iwata, Takehito Kuwayama and Koumei Shirasuna
P4-25	Mitochondrial malfunction in the endometrium of subfertile cattle Shuichi Matsuyama, Sho Nakamura, Shiori Minabe and Koji Kimura
* P4-26	The Role of miR-152 in Early Embryonic Development and Implantation by Down-regulating GLUT3 in Mouse Endometrial Epithelial Cells Li Nie and You-bo Zhao
* P4-27	Dicer controls the proliferation and invasion of HTR8 cells and may modulate the intracellular communication between HTR8 cells and HUVECs Li Tang and Jiang Xie

P4-28	Systematic identification and analysis of long non-coding RNAs in mouse endometrium during decidualization RUI CAI
P4-29	The rodent-specific microRNA cluster within the Sfbmbt2 gene is imprinted and essential for placental development Kimiko Inoue, Michiko Hirose, Hiroki Inoue, Yuki Hatanaka, Arata Honda, Ayumi Hasegawa, Keiji Mochida and Atsuo Ogura
P4-30	miR-1 is overexpressed in the endometrium of infertile women and reduces endometrial epithelial cell adhesion Michelle L Van Sinderen, Katarzyna Rainczuk and Evdokia Dimitriadis
P4-31	microRNAs transported via extracellular vesicles - important element of early embryo-maternal molecular cross-talk Joanna Najmula, Zaneta P. Reliszko and Monika M. Kaczmarek
P4-32	Expression profile of microRNA in bovine endometrium at peri-implantation Akiyoshi Yoza, Noriyuki Toji, Toshina Ishiguro-Oonuma, Toru Takahashi, Misa Hosoe, Kazuyoshi Hashizume and Keiichiro Kizaki
* P4-33	New Insights into human endometrial-embryo interaction: secretome and exosomes during implantation Lois A Salamonsen, Hong PT Nguyen, Richard J Simpson and David W Greening
P4-34	Fast Effect of Estrogen via GPR30 on Mouse Blastocysts and Its Role in Implantation Shi-mao Zhang, Ting Qu, Lin-lin Yu, Dong-zhi Yuan, Sheng Zhang, You-bo Zhao, Jun-li Pan, Jin-hu Zhang and Li-min Yue
P4-35	Effects of arginine on nitric oxide synthase expression and implantation potential in mouse blastocysts Misato Seki, Miki Takeuchi, Emiko Fukui and Hiromichi Matsumoto
P4-36	Synergistic effects of threonine and acetate on developmental potential to term of dormant blastocysts ex vivo Misaki Hiraya, Kento Horikami, Sandeep Goel, Hiroshi Imai and Masayasu Yamada
P4-37	Clock mutant mice having a diminished circadian clock show abnormal implantation: both maternal Clock and embryonic Clock affect implantation Tomoko Amano
P4-38	Mural trophoctoderm specific activation of adhesion competence in peri-implantation murine blastocyst Ichiko Nishi, Fumie Kawase, Tomomi Kurane, Keiichiro Ohta, Hideki Tatemoto and Toshihiro Konno
P4-39	The involvement of endometrial exosome/microvesicle in the regulation of embryo dormancy in mice Weimin liu
P4-40	Effect of Cdx2 on trophoblast gene expression in TSCs derived from androgenetic embryos. Daisuke Suzuki, Tomohiro Kono and Hidehiko Ogawa
P4-41	Administration of N-acetyl-cysteine attenuate embryonic loss induced by exogenous gonadotrophin treatment Yusheng Qin, Lei An and Jianhui Tian
P4-42	Expression of interleukin-1 beta 2 in equine conceptus during implantation period Shingo Haneda and Motozumi Matsui

P4-43	The effect of PGF2α on differential gene expression in porcine conceptuses during peri-implantation period Piotr Kaczynski, Monika M Baryla and Agnieszka Waclawik
P4-44	Prostaglandin F2α up-regulates the gene expression of angiogenic factors at the conceptus-endometrial interface in the pig Agnieszka Waclawik and Piotr Kaczynski
* P4-45	Nucleosomes of polyploid trophoblast giant cells mostly consist of histone variants and form an unstable chromatin structure. Koji Hayakawa, Kanae Terada, Tomohiro Takahashi, Hidehiro Oana, Masao Washizu and Satoshi Tanaka
* P4-46	Hypoxia associated with twin and/or undernourished pregnancies contributes to fetal growth restriction in sheep Victor H. Parraguez, Francisco Sales, Oscar Peralta, Eileen Cofre, Sue McCoard and Antonio Gonzalez-Bulnes
P4-47	The expression of autophagy-related genes Atg9a and Atg9b in normally developing and arresting porcine conceptuses on gestational days 20 and 50 Xinyu Liu, Mariam Jamil, Brian Ngo, Jocelyn Wessels, Kasra Khalaj, Rami T. Kridli, Chandrakant Tayade and Pawel M. Bartlewski
* P4-48	Calcium and chloride ion current responsible for spontaneous contractions of bovine oviduct Yuki Yamamoto, Taiji Ogawa, Maho Kurokawa and Koji Kimura
P4-49	Investigating the correlation between GALNTL5 expression and prolificacy in ewes Xlaolei Yao, Shuting Wang, M.A.El Samahy, Xu Feng, Tingting Zhang, Fengzhe Li, Guomin Zhang, Jing Pang, Yanli Zhang, Haitao Nie and Feng Wang
P4-50	Effects of the first wave dominant follicle and corpus luteum on sex steroid hormone concentrations and these receptor expressions in bovine oviducts Ken Hazano, Shingo Haneda, Ryotaro Miura, Mitsunori Kayano and Motozumi Matsui
P4-51	The proinflammatory roles of SAA1 in human fetal membranes: implications in parturition Gang Sun, Wangsheng Wang and Wenjiao Li
P4-52	TRPV6 mutation in healthy and preeclamptic human placenta Eui-Bae Jeung, Changhwan Ahn, Jae-Hwan Lee, Dinh Nam Tran, Jin Yong An, Seon Young Park and Bonn Lee
P4-53	Inhibition of the TLR4 signaling pathway protects from inflammation induced preterm birth and fetal inflammatory injury Peck Y Chin, Mark R Hutchinson, Kenner C Rice and Sarah A Robertson
P4-54	The role of ASC in lipopolysaccharide-induced miscarriage Eun young Oh, Young-Joo Yi and Sang-Myeong Lee
P4-55	Screening for genes involved in pre-eclampsia Tomohiro Tobita, Masanaga Muto, Daiji Kiyozumi and Masahito Ikawa
P4-56	Expression of CC chemokines and their receptors in bovine placentome at spontaneous and induced parturition Hiroki Hirayama, Ryosuke Sakumoto, Keisuke Koyama, Taichi Yasuhara, Taito Hasegawa, Takashi Fujii and Satoru Moriyasu
P4-57	The effect of bovine parthenogenesis embryo transfer to previously artificially inseminated cows. Hikari Yaginuma

P4-58	Relationship between the uterine involution and the blood flow volume of uterine arteries in Japanese black cows after parturition Kosuke Iga, Tomoaki Kubo and Manabu Shimizu
P4-59	Hemodynamic analyses of primary corpus luteum, GnRH-induced accessory corpus luteum and middle uterine artery in pregnant cows Tomoaki Kubo, Kosuke Iga, Manabu Shimizu and Toru Takahashi
P4-60	Effect of progesterone and estradiol on changes of bovine endometrial thickness Tomochika Sugiura, Wataru Kitamura, Yojiro Yanagawa, Masaharu Moriyoshi, Motoshi Tajima and Seiji Katagiri
P4-61	Recurrence quantification analysis of uterine EMG signal of myometrium during estrus cycle in sow Zdzislaw Gajewski, Ewelina Brzozowska, Bartosz Pawlinski, Malgorzata Domino and Edward Oczeretko
P4-62	Variations in EMG signal content during propagation in the non-pregnant porcine uterus Malgorzata Domino, Bartosz Pawlinski, Tomasz Jasinski, Piotr Matyba, Romuald Zabielski and Zdzislaw Gajewski
P4-63	Metagenomic insights into vaginal microbial genetic diversity and abundance between Holstein and Fleckvieh cattle Lucky T. Nesengani, Jun Wang, Yujiang Yang, Lianyu Yang and Wenfa Lu
P4-65	The Sensitivity to Antibiotics and Leaf Extracts of Ocimum Basilicum and Ocimum Gratissimum of Bacterial Flora of the Genitalia of Slaughtered Female Goats in Makurdi Metropolis, Benue State Nigeria Iyorchemba Utim Ate, Jannet Iveren Samu, Oluwatosin Adesina, Deborah Seember Adi and Terzungwe Tughgba
P5-1	Effect of metals on the activation of zebrafish ovarian cancer G-protein-coupled receptor 1 and GPR4 Jun Negishi, Shiori Musha, Suminori Nagayama and Hideaki Tomura
* P5-2	Sex and stress: Is cortisol a mediator of sex change in fish? Alexander Goikoetxea, Erica V. Todd, Simon Muncaster, P. Mark Lokman, Jodi T. Thomas, Hui Liu and Neil J. Gemmell
P5-3	Biological roles of oligosaccharides on recombinant luteinizing hormone of Japanese eel and functions of its receptors Munkhzaya Byambaragchaa
P5-4	Expression profile of gonadotropin hormone receptors gene in sperm storage tubules of oviduct in Japanese quail during maturation Gautam sudamrao Khillare and SASTRY K V
P5-5	Reproduction and Metabolism Change in Japanese Quail (Coturnix Japonica) Exposed to Heat Challenge Shaoxia Pu, Kentaro Nagaoka and Gen Watanabe
P5-6	Testosterone-Mediated Epididymis-Specific Quiescin Q6 Sulfhydryl Oxidase 2 (QSOX2) Protein Expression Tse-en Joan Wang, Shiori Minabe, Sheng-Hsiang Li, Yu-Hua Lai, Hui-Wen Chang, Hiroko Tsukamura, Fuko Matsuda, Kei-Ichiro Maeda and Pei-Shiue Jason Tsai
P5-7	Metals differently activate ovarian cancer G-protein-coupled receptor 1 of various animal species Yuta Mochimaru, Sho Murakami, Nanaka Yoshimura and Hideaki Tomura

* P5-8	Regulation of Testosterone Production by Circadian Clockwork in Mouse Leydig Cells Lei Gao, Huatao Chen, Dan Yang, Cuimei Li, Aihua Wang and Yaping Jin
P5-9	Isolation and structural characterization of glycosylated mouse prolactin Lihui Lai
* P5-10	Interactions between activins, follistatin, and inhibin in the male reproductive tract Rukmali Wijayarathna, Andreas Meinhardt, Kate A Loveland, David M de Kretser and Mark P Hedger
P5-11	Autotaxin (ATX) in the circulating blood in pregnant rats: multiple sources and possible regulatory role in parturition. Miki Shirasaka, Kanako Masuda, Motohiro Toda, Makoto Sugiyama, Ryota Terashima, Mitsumori Kawaminami and Shiro Kurusu
P5-12	Increased oxytocin-mRFP1 fluorescent intensity with urocotin-like immunoreactivity in the hypothalamo-neurohypophysial system of aged transgenic rats Shigeo Ohno, Hirofumi Hashimoto, Hiroaki Fujihara, Nobuhiro Fujiki, Mitsuhiro Yoshimura, Takashi Maruyama, Yasuhito Motojima, Reiko Saito, Hiromichi Ueno, Satomi Sonoda, Motoko Ohno, Yuichi Umezumi, Akinori Hamamura, Satoru Saeki and Yoichi Ueta
P5-13	The influence of early life psychological stress on sexual maturation in male and female rats. Kiyohito Yano, Toshiya Matsuzaki, Takeshi Iwasa, Yiliyasi Mayila, Rie Yanagihara and Minoru Irahara
P5-14	Study of fertility enhancing potential of Anacyclus pyrethrum roots in male albino rats Muhammad Riaz, Fatima Yousaf, Muhammad Shahid, Hina Fatima and Asma Irshad
P5-15	Involvement of the activation of hindbrain ependymocytes in regulating luteinizing hormone (LH) secretion in male rats Marimo Sato, Shiori Minabe, Youki Watanabe, Fuko Matsuda and Kei-ichiro Maeda
P5-16	Identification of kappa-opioid receptor-expressing cells associated with gonadotropin-releasing hormone (GnRH) secretion using transgenic rats Chudai Takahashi, Mingdao Dai, Sho Nakamura, Teppei Goto, Masumi Hirabayashi, Kana Ikegami, Yoshihisa Uenoyama, Hiroko Tsukamura, Shiori Minabe, Fuko Matsuda and Kei-ichiro Maeda
P5-17	Epigenetic changes of the Vegf promoter region in rat granulosa cells undergoing luteinization after the LH surge Masahiro Shinagawa, Isao Tamura, Ryo Maekawa, Maki Okada, Yuichiro Shirafuta, Kosuke Jozaki, Shun Sato, Toshiaki Taketani, Hiromi Asada, Hiroshi Tamura and Norihiro Sugino
P5-18	Chemical ablation of kappa-opioid receptor neurons within the arcuate nucleus resulted in acceleration of luteinizing hormone (LH) pulses in female rats Mingdao DAI, Chudai Takahashi, Kaoru Hayashi, Nahoko Ieda, Yoshihisa Uenoyama, Hiroko Tsukamura, Shiori Minabe, Fuko Matsuda and Kei-ichiro Maeda
P5-19	Histological analysis of the possible participation of TIP39 and somatostatin in Kiss1 suppression during lactation Alisa Sugimoto, Yoshihisa Uenoyama, Nahoko Ieda, Kana Ikegami, Naoko Inoue and Hiroko Tsukamura
P5-20	Establishment and evaluation of rat kisspeptin neuronal cell lines Kei Horihata, Ai Takahashi, Naoko Inoue, Nahoko Ieda, Yoshihisa Uenoyama, Yuta Suetomi, Fuko Matsuda, Kei-ichiro Maeda and Hiroko Tsukamura
P5-21	Fluorescent visualization of oxytocin neurons activated by acute nociceptive stimuli in the c-fos-eGFP transgenic rats Yasuhito Motojima, Haruki Nishimura, Takanori Matsuura, Mitsuhiro Yoshimura, Hirofumi Hashimoto, Reiko Saito, Hiromichi Ueno, Takashi Maruyama, Satomi Sonoda, Kazuaki Nishimura, Kentaro Tanaka, Hitoshi Suzuki, Makoto Kawasaki, Hideo Ohnishi, Akinori Sakai and Yoichi Ueta

P5-22	The Neural pathway originating from the ependymocytes of the hindbrain to the kisspeptin neurons Chikaya Deura, Naoko Inoue, Kei-ichiro Maeda, Yoshihisa Uenoyama and Hiroko Tsukamura
P5-23	The localization of μ-opioid receptor-expressing cells in the female rat brain. Narumi Kawai, Nahoko Ieda, Yoshihisa Uenoyama, Naoko Inoue and Hiroko Tsukamura
P5-24	Expression of calcitonin receptors in kisspeptin neurons in the arcuate and anteroventral periventricular nuclei in female rats Assadullah Dost, Nahoko Ieda, Naoko Inoue, Yoshihisa Uenoyama and Hiroko Tsukamura
P5-25	Effects of <i>Veratrum maackii</i> extract on testosterone-induced benign prostatic hyperplasia in rats Charith Udara bandara Wijerathne
P5-26	The effect of administration of ATP into the anteroventral periventricular nucleus on LH secretion in female rats. Ren Ishigaki, Nahoko Ieda, Yoshihisa Uenoyama, Hiroko Tsukamura and Naoko Inoue
P5-27	Analysis of a novel gene expressed by S100b-positive cells in rat anterior lobe of the pituitary. Kotaro Horiguchi, Takashi Nakakura, Takehiro Tsukada, Saishu Yoshida, Rumi Hasegawa, Shu Takigami, Shunji Ohsako, Takako Kato and Yukio Kato
P5-28	Expression of Gpr101, receptor gene for GnRH metabolite, in KNDy neurons in female rats Nahoko Ieda, Shiori Minabe, Kana Ikegami, Youki Watanabe, Alisa Sugimoto, Naoko Inoue, Yoshihisa Uenoyama, Kei-ichiro Maeda and Hiroko Tsukamura
P5-29	Delayed adverse effects of neonatal exposure to titanium dioxide nanoparticles in female Wistar rats Sona Scsukova, Monika Ursinyova, Iveta Uhnakova, Vlasta Masanova, Ingrid Zitnanova, Monika Dvorakova, Alzbeta Bujnakova Mlynarcikova and Eva Rollerova
P5-30	Seasonal Regulation of Epigenetic Enzymes in the Reproductive Neuroendocrine Axis of the Siberian Hamster (<i>Phodopus sungorus</i>) Chris S Coyle, Eloise WJ Lynch and Tyler J Stevenson
P5-31	An in vivo mouse model for endometriosis to validate the efficacy of new drugs Sara Santorelli
* P5-32	Infectious stress in neonatal period delayed the onset of puberty in male and female rats. Yiliyasi Mayila, Toshiya Matsuzaki, Takeshi Iwasa, Kiyohito Yano, Rie Yanagihara and Minoru Irahara
P5-33	Development-related changes in the expression of the ovarian Kiss1 and Kiss1r genes and their sensitivity to HCG in pre-pubertal female rats Mikio Yamasaki, Akira Kuwahara, Takeshi Iwasa, Yuri Yamamoto, Yuka Taniguchi, Yuya Yano, Sumika Matsui, Takeshi Kato, Akane Kondo, Kenji Hinokio, Kazuhisa Maeda, Toshiya Matsuzaki and Minoru Irahara
* P5-34	Kisspeptin neurons in the arcuate nucleus is a target of estrogen in the developing brain to lead reproductive toxicity in male rats Shiori Minabe, Naoko Inoue, Yoshihisa Uenoyama, Kei-ichiro Maeda and Hiroko Tsukamura
P5-35	Environmental perspectives of DEHP and its impact on canine gonadal development and function. Rebecca Nicole Sumner, Morne Van Der Mescht, Gary C.W. England, Norah Spears and Richard G. Lea
P5-36	Distribution of kisspeptin in the feline hypothalamic-pituitary-ovarian axis. Prattana Tanyapanyachon, Olga Amelkina and Kaywalee Chatdarong
P5-37	The relationship of sow's reproductive performance with inflammation Junyou Li

P5-38	Effects of ACTH on serum endocrine profiles and genome-wide DNA methylation in porcine corpus luteum in multiparous sows after weaning Fang Zhao, Bojiang Li, Qiannan Weng, Yi Jiang, Kaiqing Liu, Wangjun Wu, Quanwei Wei and Honglin Liu
P5-39	Identification of reproduction proteins in porcine endometrium using a proteomics approach JAEUN LEE, Tao Lin, Reza K Oqani, JungWon Kang, SoYeon Kim, JooBin Lee and Dongll Jin
P5-40	Serum anti-Mullerian hormone and oestradiol in juvenile gilts can predict future reproductive performance parameters Alicia N. Steel, Rebecca Z Athorn and Christopher G Grupen
P5-41	In vivo study of effect of uterine artery ligation on Hypoxia-inducible factor: HIF-2a expression in porcine uterus Barbara Wasowska, Dominika Bartkowska, Przemyslaw Gilun and Joanna Kwiatkowska
* P5-42	The influence of azaperone treatment at weaning on reproductive function in sows: Ovarian activity and endocrine profiles during the weaning-to-ovulation interval Tomasz Schwarz, Adam Ziecik, Maciej Murawski, Jacek Nowicki, Ryszard Tuz, Benjamin Baker and Pawel M. Bartlewski
P5-43	Neurokinin B/neurokinin-3 receptor signaling is involved in the regulation of GnRH pulse generation in male goats Takashi Yamamura, Satoshi Ohkura and Yoshihiro Wakabayashi
* P5-44	Do exogenous gonadotropins affect factors regulating oviductal functions expressed in the porcine oviductal epithelial cells (POEC)? Aneta Andronowska and Izabela Malysz-Cymborska
P5-45	The effect of neurokinin 3 receptor agonist, B21-750, on luteinizing hormone secretion in the follicular and luteal phases in goats LARASATI PUJI RAHAYU, NATSUMI ENDO, SHINYA OISHI and TOMOMI TANAKA
P5-46	Changes of plasma concentrations of insulin-like peptide 3 and testosterone, and their association with scrotal circumference during pubertal development in male goats Noritoshi Kawate, M. A. Hannan, Yuri Fukami, W. W.P.N. Weerakoon, Erika E. Bullesbach, Toshio Inaba and Hiromichi Tamada
P5-47	Dietary supplementation of Selenium-enriched Yeast promotes puberty and expression of reproduction-related genes of ovaries in growing ewes CHUNHUA MENG, ziyu wang, aoxiang zhu, chunhua meng and feng wang
P5-48	Amino acid sequences of neuropeptides and their receptors regulating reproduction of sika deer (Cervus nippon) Takahiro Sakono, Shiori Minabe, Youki Watanabe, Fuko Matsuda, Takafumi Ishida and Kei-ichiro Maeda
P5-49	Effects of nutritional level and additives on growth and puberty of female Hu lambs YONG QIAN, Chun H. Meng, Shao X. Cao, Yong Qian, Jun Zhang, Hui L. Wang, Yin X. Li and Sheng Zhong
P5-50	Possible mechanism for the detection of the male effect pheromone by main olfactory system in female goats Josh Elisha Roque Octura, Kei-ichiro Maeda and Yoshihiro Wakabayashi
P5-51	TALEN-mediated Cre recombinase knockin in KISS1 locus of goat embryonic fibroblasts Ryoki Tatebayashi, Tetsushi Sakuma, Takashi Yamamoto, Satoshi Ohkura and Fuko Matsuda
P5-52	Microimplants of estradiol in the medial preoptic area induce a surge-like secretion of luteinizing hormone in male Shiba goats. Minami Watanabe, Takuya Sasaki, Ryoki Tatebayashi, Yuta Suetomi and Satoshi Ohkura

P5-53	Peripheral administration of κ-opioid receptor antagonist stimulates pulsatile LH secretion by acting on the GnRH pulse generator activity in goats Takuya Sasaki, Daisuke Ito, Tomoya Sonoda, Yoshihiro Wakabayashi, Takashi Yamamura, Hiroaki Okamura, Shinya Oishi, Taro Noguchi, Nobutaka Fujii, Yoshihisa Uenoyama, Hiroko Tsukamura, Kei-Ichiro Maeda, Fuko Matsuda and Satoshi Ohkura
* P5-54	The effects of gut peptides on reproductive function at the level of the median eminence of hypothalamus Leila Arbabi, Gregory Conductier and Iain Clarke
P5-55	The intensity of anti-Mullerian hormone immunostaining in equine cryptorchid testis. Nao Komyo, Harutaka Murase, Kayo Habukawa, Hisashi Shibuya, Tadashi Yasui, Tadatashi Ohtaki, Shigehisa Tsumagari and Yasuo Nambo
P5-56	Endometrial secretion of selected arachidonic acid metabolites and cytokines during subclinical endometritis in mares Marta J. Siemieniuch, Katarzyna Gajos, Roland Kozdrowski and Marcin Nowak
P5-57	Adrenomedullin regulates fluid flow speed in the bovine oviduct Sayaka Ito, Yuka Yoshimoto, Takumi Nishie, Yoshihiko Kobayashi, Yuki Yamamoto, Kiyoshi Okuda and Koji Kimura
P5-58	The Investigated Incidence And The Screening of Candidate Genes in Endometritis of Cattle Fuying Chen
P5-59	Comparison of structure of vaginal microbial community in beef cattle between luteal phase and follicular phase Jun Wang, Chang Liu, Yongsheng Gong, Yujiang Yang, Lianyu Yang and Wenfa Lu
P5-60	Effects of sand calving pens on dairy cow behavior during parturition Mizuki Takeuchi, Hatsuki Naganuma, Wakana Takahashi, Manami Yokokawa, Chisato Minagawa, Shigefumi Tanaka, Takakazu Nishikawa and Chikako Yoshida
P5-61	Exogenous melatonin reduces somatic cell count of milk in Holstein cows Minghui Yang
P5-62	Establishment of immortalized GnRH neuronal cell lines derived from the cattle brain Riho OZAKI, Yoshihisa Uenoyama, Yuta Suetomi, Shuichi Matsuyama, Koji Kimura, Nahoko Ieda, Naoko Inoue, Hiroko Tsukamura, Satoshi Ohkura and Fuko Matsuda
P5-63	Lysophosphatidic acid (LPA) modulates prostaglandin F₂α production in the ampulla of bovine oviduct in follicular and early-luteal phases of estrous cycle Emilia Sinderewicz, Dorota Boruszewska, Katarzyna Grycmacher, Ilona Kowalczyk-Zieba, Joanna Staszkiwicz and Izabela Woclawek-Potocka
P5-64	Insulin resistance during late gestation in Holstein cows is related to their calf metabolism rather than postpartum fertility Chiho Kawashima, Izumi Iwase, Moeri Kondo, Hazuki Kato, Tomas J. Acosta, Katsuya Kida, Takashi Shimizu and Motozumi Matsui
P5-65	A Neurokinin 3 Receptor-Selective Agonist, Senktide, Stimulates Pulsatile Luteinizing Hormone Secretion in Lactating Cattle Sho Nakamura, Yoshihiro Wakabayashi, Takashi Yamamura, Satoshi Ohkura and Shuichi Matsuyama
P5-66	Relationship between lunar cycle and spontaneous delivery date in Holstein cows Tomohiro Yonezawa, Dai Ishiyama, Mona Uchida, Michiko Tomioka, Kazunori Ishii, Shizuko Maeda, Yoji Sasai, Masatsugu Asada, Tadashi Kawamura, Yoshihiro Nakamura, Eimei Sato, Shingo Maeda and Naoaki Matsuki

P5-67	Evaluation of heat stress responses by analysis of heart rate variability in crossbred dairy cows under the tropical climate Chan Bun, Youki Watanabe, Satoshi Ohkura, Yoshihisa Uenoyama, Naoko Inoue, Nahoko Ieda, Fuko Matsuda, Hiroko Tsukamura, Masayoshi Kuwahara, Kei-Ichiro Maeda and Vutha Pheng
P5-68	Lysophosphatidic acid (LPA) modulates expression of the factors involved in gamete or embryo with oviduct interactions in the bovine oviduct in early-luteal phase of estrous cycle Emilia Sinderewicz, Dorota Boruszewska, Katarzyna Grycmacher, Ilona Kowalczyk-Zieba, Joanna Staszkiwicz and Izabela Woclawek-Potocka
P5-69	Enhanced AI Efficiency through Synchronized Ovulation and Fixed Time AI in Water Buffaloes Eufrocina P Atabay, Edwin C Atabay, Excel Rio S Maylem, Ramesh C Tilwani, Ester B Flores and Annabelle S Sarabia
P5-70	Buffalo production status and reproductive capacities in Quang Dien district, Thua Thien Hue province Hai Thanh Duong
P5-71	Enhancing Prostaglandin-based Estrus Synchronization Protocol for Artificial Insemination in Water Buffaloes Edwin C Atabay, Eufrocina P Atabay, Excel Rio S Maylem, Erwin C Encarnacion and Ronaldo L Salazar
* P5-72	Comparison of plasma insulin-like growth factor-I, insulin-like peptide 3, testosterone and inhibin concentrations around puberty in Japanese Black beef bulls between normal and abnormal semen W. W.P.N. Weerakoon, Noritoshi Kawate, M. A. Hannan, Mitsuhiro Sakase, Namiko Kohama and Hiromichi Tamada
P5-73	The strategy for repeated assisted reproductive technology failures associated with hydrosalpinx Shozo Kurotsuchi
P5-74	The research on the kisspeptin levels in children and adolescents Olga I. Gumeniuk, Yuriy V. Chernenkov, Natalia B. Zacharova and Inna L. Ivanenko
P5-75	Phoenixin (PNX) and its novel receptor GPR173 in human ovary: Expression and regulation for steroidogenic enzymes Phuoc Xuan Nguyen, Akira Iwase, Tomohiko Murase, Umida Ganieva, Ying Qin, Bayasula Bayasula, Ken Shimizu, Satoko Osuka, Sachiko Takikawa, Maki Goto and Fumitaka Kikkawa
P5-76	Regulation of Vascular Endothelial Growth Factor (VEGF) during Endometrial Stromal Cell Decidualization Ling Ting, Peter Hewett and Sarah Conner
P5-77	Quisqualis indica improves benign prostatic hyperplasia by regulating prostate cell proliferation and apoptosis Hye-Yun Jeong and Charith UB Wijerathne
P5-78	Vasoinhibin increases mRNA expression of alpha-smooth muscle actin in human cardiac fibroblasts. Kazunori Morohoshi, Kyoka Satomura, Mariko Soga, Lai Lihui and Toshio Harigaya
P5-79	Effects of Vaginal Short-Chain Fatty Acids on Reproductive Behavior in the Cynomolgus Monkey (Macaca fascicularis) Maiko Kobayashi, Takamasa Koyama, Hiroyuki Fuchino, Yasuhiro Yasutomi and Tadashi Sankai
P5-80	Cytogenetics of Primary Amenorrhea: An Investigation on 14 Affected Women Akane Kondo, Daichi Nakaoku, Mikio Yamasaki, Mikio Morine, Kenji Hinokio, Yukio Kato, Mari Shinoda, Shinichiro Izumi and Kazuhisa Maeda

P6-1	CRISPR/Cas9-mediated genome editing in wild-derived mice: generation of tamed wild-derived strains by mutation of the a (nonagouti) gene Michiko Hirose, Ayumi Hasegawa, Keiji Mochida, Shogo Matoba, Yuki Hatanaka, Kimiko Inoue, Tatsuhiko Goto, Hideaki Kaneda, Ikuko Yamada, Tamio Furuse, Kuniya Abe, Yoshihisa Uenoyama, Hiroko Tsukamura, Shigeharu Wakana, Arata Honda and Atsuo Ogura
P6-2	Technology development for gene function analysis by CRISPR/Cas9 system Shinnosuke Suzuki and Kuniya Abe
P6-3	Isozygous and selectable marker-free MSTN knockout cloned pigs generated by the combined use of CRISPR/Cas9 and Cre/LoxP Yanzhen Bi, Zaidong Hua, Ximei Liu, Wenjun Hua, Hongyan Ren, Hongwei Xiao, Liping Zhang, Li Li, Zhirui Wang, Gotz Laible, Yan Wang, Faming Dong and Xinmin Zheng
P6-4	High efficient production of genome editing rats by electroporation Takehito Kaneko
P6-5	Generation of SALL1 KO pigs by cytoplasmic injection of Platinum TALEN mRNA into zygotes. Sayaka Yashima, Masahito Watanabe, Ayuko Uchikura, Kazuaki Nakano, Hitomi Matsunari, Yuri Kasai, Tooru Fukuda, Shuko Takayanagi, Kazuhiro Umeyama, Tetsushi Sakuma, Takashi Yamamoto and Hiroshi Nagashima
P6-6	Disease modeling in cynomolgus monkeys using CRISPR/Cas9 injection into ICSI embryos. Tomoyuki TSUKIYAMA, Kenichi Kobayashi, Chizuru Iwatani, Hideaki Tsuchiya, Yasunari Seita, Jun Matsushita, Kahoru Kitajima, Ikuo Kawamoto, Takahiro Nakagawa, Koji Fukuda, Teppei Iwakiri, Hiroyuki Izumi, Iori Itagaki, Shinichiro Nakamura, Akihiro Kawauchi and Masatsugu Ema
P6-7	Melatonin Biosynthesis rate-limiting enzyme AANAT transgenic goats model produced by Somatic Cell Nuclear Transfer Jingli Tao
P6-8	Conditional knockout of vascular endothelial growth factor A in the mouse female genital system Yuquan Zhang, Xiaoqing Yang, Xiaomei Ji, Zhijuan Qin and Min SU
P6-9	TALEN-mediated knock-in in the bovine zygote by microinjection Da Som Park, Se Eun Kim, Min-Ji Kim, Jin-Woo Kim, Deog-Bon Koo and Man-Jong Kang
P6-10	Knock-in efficiency depending on homologous arm structure of the knock-in vector in the bovine fibroblasts Se Eun Kim, Da Som Park, Deog-Bon Koo and Man-Jong Kang
P6-11	Generation of SALL1 knockout pigs using the CRISPR/Cas9 system via cytoplasmic injection Masahito Watanabe, Ayuko Uchikura, Sumiyo Morita, Hitomi Matsunari, Shuko Takayanagi, Sayaka Yashima, Kazuaki Nakano, Kazuhiro Umeyama, Takuro Horii, Izuho Hatada and Hiroshi Nagashima
P6-12	Generation of transgenic monkey with tetracyclin-inducible gene expression system for neurodegenerative disease model. Ikuo Tomioka, Naotake Nogami, Naoko Fujita, Kensuke Owari, Terumi Nakatani, Hideyuki Motohashi, Osamu Takayama, Yoshitaka Nagai and Kazuhiko Seki
P6-13	Generation of GGTA1 biallelic knockout Yucatan miniature pigs via TALENs and somatic cell nuclear transfer. Joohyun Shim, Nayoung Ko, Yongjin Lee, Hyoung-Joo Kim, Jae-Kyung Park, Hyunil kim and Kimyung Choi
P6-14	Updates on mutant mouse production using genome editing technology and mouse resource archiving Shinya Ayabe, Kenichi Nakashima, Maiko Ijuin, Koji Nakade, Tomomi Hashimoto, Masayo Kadota, Mizuho Iwama, Hatsumi Nakata, Toshiaki Nakashiba, Takehide Murata, Atsushi Yoshiki and Yuichi Obata

P6-15	Production of mice carrying large deletions via microinjection of fertilized eggs using the CRISPR/Cas9 system Satoshi Hara, Tomoko Kato and Shuji Takada
P6-16	Production of transgenic three-genes expressed pig for Alzheimer's disease animal model Seung-Eun Lee, Hyuk Hyun, Yeo-Jin Son, Yun-Gwi Park, Min-Young Shin, Sang-Gi Jeong, Eun-Young Kim and Se-Pill Park
P6-17	Application of dead end-knockout zebrafish to recipients of germ cell transplantation Qian Li, Wataru Fujii, Kunihiro Naito and Goro Yoshizaki
P6-18	Induced chimerism rescues lethal trait of Duchenne muscular dystrophy (DMD) model pig Hitomi Matsunari, Mayuko Kurome, Sayaka Yashima, Toru Fukuda, Kazuaki Nakano, Ayuko Uchikura, Masahito Watanabe, Kazuhiro Umeyama, Masaki Nagaya, Barbara Kessler, Annegret Wuensch, Nikolai Klymiuk, Eckhard Wolf and Hiroshi Nagashima
P6-19	Generation of PARK2 knockout pigs via somatic cell nuclear transfer Hyun Ju Oh, Joonho Moon, Geon A Kim, Sanghoon Lee, Sun Ha Paek, Seokjoong Kim, Hyunil Kim and Ji Ho Kim
P6-20	Faithful genetic inheritance of autosomal dominant polycystic kidney disease generated by genome editing of the cloned pig Tooru Fukuda, Masahito Watanabe, Kazuaki Nakano, Susumu Tajiri, Kei Matsumoto, Hitomi Matsunari, Kazuhiro Umeyama, Shuichiro Yamanaka, Nagaya Masaki, Takashi Yokoo and Hiroshi Nagashima
P6-21	Establishing GFP/RFP tagged ES cells for CRISPR/Cas9 mediated gene function analysis in chimeric mice Seiya Oura, Taichi Noda, Ayako Isotani and Masahito Ikawa
P6-22	Effects of Akt signaling on totipotent-like state within ES cell culture Ayaka Kakahara, Asuka Furuta, Ayaka Mori and Toshinobu Nakamura
P6-23	RNA-Seq analysis among multiple pig derived induced pluripotent cell lines Kenichiro Donai, Hisato Kobayashi, Takashi Hirano and Tomokazu Fukuda
* P6-24	Establishment of induced pluripotent stem cell lines from Taiwan black silkie chicken Lih-Ren Chen, Jenn-Fa Liou and Yu-Jing Liao
P6-25	Mth2 induces mouse naive pluripotency through improvement of genomic stability via reduction of intracellular ROS and promotion of DNA repair Jianyong Han, Liang Yue, Yangli Pei, Liang Zhong, Wei Zhang, Yanliang Wang, Bingqiang Wen, Jinzhu Xiang, Junhong Li, Shaopeng Zhang and Qingqing Wei
P6-26	Derivation and differentiation of porcine oogonial stem cell lines Jie Zhu
P6-27	DNA methylomes identify transcription factor-based epigenomic signatures for timed acquisition of differentiation competence in neural stem/progenitor cells towards neuronal and glial lineages Takuya Imamura, Tsukasa Sanosaka, Nobuhiko Hamazaki, MuhChyi Chai, Katsuhide Igarashi, Maky Otsuka, Fumihito Miura, Takashi Ito, Nobuyuki Fujii, Kazuho Ikeo and Kinichi Nakashima
P6-28	Developmental potential of single mouse blastomere Yuki Nakajima, Maiko Gotoh and Yu-ichi Tsukada
P6-29	Bone marrow stem cells are unlikely to contribute to non-hematopoietic lineages of the mouse endometrium James Antony Deane, Y Rue Ong, Fiona L Cousins, Xiaoqing Yang, Ahmed Aedh A Al Mushafi and Caroline E Gargett

P6-30	Induction and characterization of totipotent fraction in ES culture Asuka Furuta and Toshinobu Nakamura
P6-31	Defining epidermal stem cell dynamics governing abdominal skin expansion during pregnancy Fumiko Toyoshima, Ryo Ichijo, Hiroki Kobayashi, Saori Yoneda, Yui Iizuka, Hirokazu Kubo, Shigeru Matsumura, Satsuki Kitano, Hitoshi Miyachi and Tetsuya Honda
P6-32	Human umbilical cord mesenchymal stem cells improve pregnancy outcome in spontaneous abortion model through JAK / STAT signaling pathway Xiaoqing Yang, Rongrong Wu, Xiaojing Chen, Xiaoyue Gao and Yuquan Zhang
P6-33	Expression of a Master Transcription Factor Cdx2 in Mouse Trophoblast Stem Cells Modulates Expression of Placental Lactogen I after the Differentiation Kenta Nishitani, Koji Hayakawa and Satoshi Tanaka
P6-34	Characterization of trophoblastic cell lines derived from cynomolgus monkey blastocyst Shoma matsumoto, Christopher J. Porter, Naomi Ogasawara, Yasunari Seita, Ikuhiro Okamoto, Mitinori Saitou, Masatsugu Ema, Theodore J. Perkins, William L. Stanford and Satoshi Tanaka
P6-35	Analysis of gene expression patterns in reprogramming factor-overexpressed pig embryonic stem cells Tae-Yeong Park
P6-36	Characterization of the single-cell derived bovine induced pluripotent stem cells Li xia Zhao, Zi xin Wang, Jin dun Zhang, Jian Yang, Xue fei Gao, Bao jiang Wu, Gao ping Zhao, Si qin Bao, Shu xiang Hu, Pen tao Liu and Xi he Li
P6-37	Generation of bi-potent stem cells from mouse embryonic stem cells baojiang wu, Yanglin Chen, Mengyi Wei, Yueshi Liu, Jia Liu, Xihe Li and Siqin Bao
P6-38	Establishment of novel stem cells from pre-implantation embryos in different genetic background strain mice Yanglin Chen
P6-39	Reprogramming of human periodontal ligament fibroblasts to induced pluripotent stem cells under xeno-free conditions Kyoung-Ha So and Sang-Hwan Hyun
P6-40	Application of bovine pluripotency factors for generation of bovine iPS cells. Misuzu Hiraide, Suguru Sato, Mizuki Sakuraoka, Takahiro Suzuki, Natsuki Kusuhara, Tomokazu Fukuda and Masayuki Kobayashi
P6-41	Effect of EGAM1 homeoproteins identified in preimplantation mouse embryos on the generation of mouse iPS cells. Suguru Sato, Takahiro Kikuchi, Misuzu Hiraide and Masayuki Kobayashi
P6-42	Differentiating ability of mouse pluripotent stem cells into gonads and cerebral cortex of interspecies rat-mouse chimeras Teppeï Goto, Etsuko Tarusawa, Yoshiaki Nakamura, Shinichi Hochi, Yumiko Yoshimura and Masumi Hirabayashi
P6-43	Parental origin-derived primary memories are erased in Zfp57-deficient embryonic stem cells Keisuke Sasaki, Ai Nakajima, Kanako Morohaku, Yuta Asanuma, Yusuke Sotomaru, Tomohiro Kono and Yayoi Obata
P6-44	Pluripotency chicken embryonic stem cells have potential ability to form chimeras Hsiao-Yun Kuo, Lih-Ren Chen and Yow-Ling Shiue

P6-45	Nuclear proteomic profiling identified SAMHD1 as a marker of spermatogonial stem/progenitor cells in mice Kazue Kakiuchi-Yonezawa, Kazumi Taniguchi, Jan Rehwinkel and Hiroshi Kubota
P6-46	Region specific patterning of porcine neural progenitor cells differentiated from induced pluripotent stem cells Eunhye Kim, Eunhye Kim and Sang-Hwan Hyun
P6-47	Reconstitution in vitro of germ cell lineage from pluripotent stem cells of model animals Orié Hikabe, Mayumi Shono, Kiyoko Kato, Erika Sasaki and Katsuhiko Hayashi
P6-48	Cryopreservation and xenotransplantation of germ stem cells of European salmonid species Jelena Zoran Lujic, Zoran Marinovic, Simona Susnik Bajec, Ida Djurdjevic, Eszter Kasa, Bela Urbanyi and Akos Horvath
P6-49	Assessment of neural developmental toxicity using human embryonic stem cell with triangular chart Seon Young Park, Jae-Hwan Lee, Changhwan Ahn, Jin Yong An, Dinh Nam Tran, Bonn Lee and Eui-Bae Jeung
P6-50	Effect of feeder cell on the culture and maintenance of spermatogonial stem cell in Japanese quail Jin Se Park , Young Hyun Park, Ho Yeon Cho and Jae Yong Han
P6-51	A novel approach for the derivation of putative brain endothelial progenitor cells using porcine induced pluripotent stem cells Mirae Kim and Sang-Hwan Hyun
P6-52	Comparison of the toxic and gene expression of NDI1-transformed minipig neural stem cells to untransformed cells about rotenone. Hee Jin Chun
P6-53	Mesenchymal Stem Cells transplantation into porcine cervix increases the proliferative potential of endogenous cells Bartosz Pawlinski and Zdzislaw Gajewski
P6-54	Mouse embryonic stem cell (mESC) lines as models for periconceptual developmental programming Pooja Khurana
P6-55	Germ cell-autonomous function of sex chromosome during oogenesis Norio Hamada, Nobuhiko Hamazaki, Orié Hikabe, Kiyoko Kato and Katsuhiko Hayashi
* P6-56	Germ Cells from Induced Pluripotent Stem Cells of an Endangered Species, Tokudaia Osimensis. Arata Honda, Narantsog Choijookhuu, Haruna Izu, Yoshihiro Kawano, Yoshitaka Hishikawa, Takamichi Jogahara and Chihiro Koshimoto
P6-57	Migration and differentiation of the primordial germ cells which transplanted into abdominal cavity of neonatal mouse Hiroya Nakamura, Wataru Yasuo, Jun Wakai and Kazuei Matsubara
* P6-58	A Unique Epigenetic and Transcriptional Program of Chicken Primordial Germ Cells Bo Ram Lee, Hong Jo Lee, Kyung Youn Lee and Jae Yong Han
P6-59	Targeting germ cell development to produce sterile surrogate chickens as hosts for transplanted PGCs Mark E Woodcock, Lorna Taylor, Sunil Nandi, Dave W Burt and Michael J McGrew
P6-60	Effects of Gestational Diabetes on Mouse Primordial Follicle Formation Huansheng Dong

P6-61	Efficient purification of neonatal porcine gonocytes by using the magnetic FG-Beads and its gene expression of spermatogonial markers Kairi Hirose
P6-62	Production of viable trout offspring derived from germ cells cultured in vitro Yoshiko Iwasaki and Goro Yoshizaki
P6-63	Isolation of neonatal porcine gonocytes using the long-term trypsin shaking incubation methods Yuji TAKAGI
* P6-64	Understanding the post-transplantation behavior of mouse spermatogenic stem cells Yoshiaki Nakamura and Shosei Yoshida
P6-65	Hybrid mackerel (<i>Scomber australasicus</i> × <i>S. japonicus</i>) possesses germ cell-deficient sterile gonads: Its suitability as a surrogate recipient for gamete production of bluefin tuna. Wataru Kawamura, Ryosuke Yazawa, Reoto Tani, Yutaka Takeuchi and Goro Yoshizaki
P6-66	A method for canine oviduct epithelial cell isolation and culture Seunghoon Lee, Minghui Zhao, Jingu No, Yai-Young Hur, Yoonseok Nam, Sun A Ock, JeongHee Yun, Dong-Hoon Kim and Gi-Sun Im
P6-67	Zebularine significantly improves cloning efficiency, decreases DNA methylation of cumulus cells and reconstructed embryos in ovine Junjie LI, Qiaoli Wei, Hui Cao, Wenlong Su, Junjie Li, Shuchun Sun, Zhigang Wang, Shujun Tian, Nana Meng and Jiexin Li
P6-68	Enhanced rates of full-term development of cloned mouse embryos by TSA and 2i treatment Hiroki Kuwayama, Ah Reum Lee, Go Nagamatsu, Teruhiko Wakayama and Satoshi Kishigami
P6-69	The success of the pronuclear formation in mouse somatic cell nuclear transfer using feces-derived cells Satoshi Kamimura, Sayaka Wakayama, Hiroki Kuwayama, Yoshiaki Tanabe, Satoshi Kishigami and Teruhiko Wakayama
P6-70	Large cytoplasm predisposes oocytes to chromosome segregation errors. Hirohisa Kyogoku and Tomoya S Kitajima
P6-71	Isolation and characterization of zebra finch primordial germ cells Kyung Min Jung
P6-72	Blastomere Biopsy as factor of risk for the onset of metabolic disorders in mice Federica Zacchini, Artur Gurgul, Ewelina Semik, Klaudia Pawlina, Tomasz Szmata, Monika Bugno-Poniewierska and Grazyna Ewa Ptak
P6-73	Effect of histone methylation in cloned embryos using interspecies somatic cell nuclear transfer Rika Azuma, Hitoshi Murai, Minoru Miyashita, Akari Washizu, Chikara Kogiso, Rina Ogasawara, Yoshihiko Hosoi and Masayuki Anzai
P6-74	Phenotypic variation in the cloned pigs with heterozygous fibrillin-1 mutation Kazuhiro Umeyama, Yoshikazu Arai, Kazuaki Nakano, Tooru Fukuda, Ikuma Umeki, Ayuko Uchikura, Yuri Kasai, Hitomi Matsunari, Masaki Nagaya, Masahito Watanabe, Jun Ohgane and Hiroshi Nagashima
P6-75	Xist Intron 1 Repression by TALE Transcriptional Factors Improves Somatic Cell Reprogramming in Mice Jindun Zhang, Xuefei Gao, Jian Yang, Xiaoying Fan, Yanfeng Liang, Lihong Fan, Hongmei Han, Lixia Zhao, Fuchou Tang, Siqin Bao, Pentao Liu and Xihe Li
P6-76	Production of cloned mice using oocytes derived from ICR strain Yoshiaki Tanabe, Hiroki Kuwayama, Satoshi Kishigami and Teruhiko Wakayama

P6-77	Improvement of canine cloning efficiency Ji Hye Lee, Lili Zhuang, Dong Eon Kim, Kuk bin Ji, Chi Sun Yun, Eun Ji Lee, Gyeong Yeob Kim, Ju Lan Chun and Min Kyu Kim
P6-78	Identification of imprinted gene associated with the pluripotency state in nuclear transfer embryonic stem cells Zhiming Han, Hui Li, Shuai Gao, Wenqiang Liu, Xiaoyu Liu, Yawei Gao, Rongrong Le, Xiaochen Kou, Yanhong Zhao, Hong Wang, Qingyuan Sun, Shaorong Gao and Zhiming Han
P6-79	Reduction epigenetic error in mouse somatic cell nuclear transfer embryos could be rescued by HDACi cocktail treatment Ruimin Xu, Yinglu Tang, Sayaka Wakayama, Teruhiko Wakayama, Chong Li and Shaorong Gao
P6-80	Improved development potential and quality of somatic cell nuclear transfer bovine embryos with epidermal growth factor, insulin growth factor and flavonoid supplements Minjee Park, Eun-Young Kim and Se-Pill Park
P6-81	Fibroblast Growth Factor10 treatment during in vitro maturation of porcine oocyte efficiently enhances the development of somatic cell nuclear transfer embryos Yeo Jin Son, Seung-Eun Lee, Min-Young Shin, Yun-Gwi Park, Sang-Gi Jeong, Eun-Young Kim and Se-Pill Park
P6-82	Mitogen-activated protein kinase activity is not essential for the first step of nuclear reprogramming in bovine somatic cell nuclear transfer Tetsuya Tani and Yoko Kato
P6-83	Postactivation treatment with Latrunculin A improves in vitro development of bovine somatic cell nuclear transfer embryos. Misaki Fujimura and Takehiro Himaki
* P6-84	Ultrastructural analysis reveals abnormal mitochondria in cloned blastocysts Marta Czernik, Paola Toschi, Domenico Iuso, Jacek Andrzej Modlinski and Pasqualino Loi
P6-85	Gene expression and epigenetic modification in porcine SCNT embryos and IVF embryos Ziyi Li, Yanhui Zhai, Zhiren Zhang, Xinglan An and Sheng Zhang
* P6-86	Somatic cell nuclear transfer in a real endangered species, Sturgeon Effrosyni Fatira
P6-87	Effects of different sperm immobilization method on the in vitro development of porcine ICSI embryos Masaki Iwamoto, Satoko Yazaki, Tomonori Ishikawa, Kiyotaka Kawai and Kenichiro Hiraoka
P6-88	Treatment with cryoprotectants at 25°C improves post vitrification developmental competence of porcine germinal vesicle stage cumulus-oocytes complexes Ruth Appeltant, Tamas Somfai and Kazuhiro Kikuchi
P6-89	Additives used to improve semen preservation in stallion Gamal Attia El Sisy
P6-90	RNA-Seq transcriptome profiling of mouse oocytes after in vitro maturation and/or vitrification Lei Gao, Gongxue jia, Ai Li, Haojia Ma, Zhengyuan Huang, Shien Zhu and Xiangwei Fu
P6-91	Vitrification of blastocyst stage embryos produced in vitro from porcine oocytes vitrified at the immature stage Tamas Somfai, Koji Yoshioka, Kazuhiro Kikuchi and Takashi Nagai
P6-92	Identification of quantitative trait loci associated with the susceptibility of mouse spermatozoa to cryopreservation Jinsha Liu

P6-93	Vitrification of immature oocytes in an indigenous Vietnamese pig breed Van Khanh Nguyen
P6-94	Analysis of sperm motility, viability and mitochondrial activity of frozen-thawed bull sperm collected through microfluidic sorting system. Kazuko Ogata, Maria Portia Nagata, Tadayuki Yamanouchi, Hideo Matsuda, Yuki Goto, Kenichi Yamashita and Yutaka Hashiyada
P6-95	Comparison of cryoprotectant agents (CPAs) dilution methods of vitrified bovine blastocysts for field trials Tsugumi Yamazaki, Shoji Hasegawa, Daisaku Morishige, Masahiro Takahashi, Yuki Murayama, Konosuke Okada, Masashige Kuwayama, Takao Atsumi and Hitoshi Ushijima
P6-96	L-carnitine increases blastocyst development, reduces lipid content but does not increase in vivo survival of bovine embryos following slow-freezing David N. Wells, Jingwei Wei, Daina Harris, Jan Oliver and Stephanie Delaney
P6-97	The application of apoptotic inhibitor in apoptotic pathways of MII stage porcine oocytes after vitrification Yingfang Niu, Jianjun Dai, Caifeng Wu, Yanning Chen, Shushan Zhang and Defu Zhang
P6-98	The decreasing of the developmental capacity of porcine parthenogenetic blastocysts after vitrification was closely related with the apoptosis mediated by mitochondria and death receptor Defu Zhang, Yanning Chen, Jianjun Dai, Caifeng Wu and Shushan Zhang
P6-99	Vitrification, not cryoprotectant exposure, alters the expression of IGF2 and IGF2R in in vitro produced porcine blastocysts Christopher G. Grupen, Louise K. Bartolac, George Koustas and Cecilia Sjoblom
P6-100	Effects of berberine on cryopreservation of porcine oocytes by vitrification Jian ming Gao, Li Wu, Xiaomeng Huang, Xiaofei Luo, Junli Wang, Bing Liu, Suying Cao and Jianming Gao
P6-101	N-acetyl cysteine improves the fertility of vitrified-warmed mouse oocytes by recovering the thiol levels of zona pellucida post oxidation Ayumi Mukunoki, Chihiro Sugahara, Toru Takeo and Naomi Nakagata
P6-102	Effect of antifreeze proteins (AFPs) on freeze-dried bovine somatic cells Shin Hongo, Shinnosuke Tamura, Satoshi Akagi, Akihiko Ichikawa, Toshinori Oikawa, Keisuke Edashige and Kazutsugu Matsukawa
P6-103	Cryopreservation of spermatogonial stem cells from cyprinid fish species Zoran Marinovic, Jelena Lujic, Eszter Kasa, Qian Li, Goro Yoshizaki, Roman Franek, Vojtech Kaspar, Bela Urbanyi and Akos Horvath
P6-104	Agarose capsules as new tools for protecting denuded mouse oocytes/embryos during handling and freezing-thawing and supporting embryonic development in vivo Hiroaki Nagatomo
P6-105	Study on rabbit sperm capacitation in vitro and normal temperature preservation Heping Pan, Xin Cao, Shoumei Huang, Chao Dong and Hailing Li
* P6-106	Cryopreservation of rainbow trout whole gonads by vitrification to maintain reproductive stem cell potential Tawny Nicole Aiko Scanlan, Goro Yoshizaki and Stuart Meyers
P6-107	Mechanism by which immature zebrafish oocytes are injured by hypertonic conditions Chikaki Higashimoto, Seiya Yokobori, Kazuki Fukishima, Kazutsugu Matsukawa, Magosaburo Kasai and Keisuke Edashige

P6-109	Factors affecting seasonal variation in the conception rate of Japanese Black cows Hisashi Nabenishi and Atusi Yamazaki
P6-110	Copy number of porcine endogenous retroviruses in wild boars in Japan Thanh Q. Dang-Nguyen, Shinya Ishihara, Masaaki Taniguchi, Makoto Osaki, Aisaku Arakawa, Kazuhiro Kikuchi, Junko Noguchi, Hiroyuki Kaneko and Takashi Nagai
P6-111	Growth hormone receptor gene dysfunction in domestic pigs Tetsuya Ito, Shiori Chiba, Shiro Yamashita, Mai Kamikawa, Genki Tanaka, Yuhei Kogasaka, Ryoichi Shima, Kazuo Fukawa and Yutaka Sendai
P6-112	Function of DJ-1 as a cell protection in canine Eun Young Kim, Lili Zhuang, Dong Eon Kim, Chi Sun Yun, Eun Ji Lee, Kyung Bon Lee, Ju Lan Chun and Min Kyu Kim
P6-113	Promotion of conception by a breeding protocol with hormonal treatment in postpartum Japanese black beef herd Yutaka Hashiyada, Hideo Matsuda, Tadayuki Yamanouchi and Yuki Goto
P6-114	Association between number of follicles, plasma anti-Mullerian hormone level at the onset of prostaglandin F2α injection and fertility in Japanese Black cows Masashi Tanaka, Yuji Tsubakishita, Takashi Ekawa, Kouichiro Henmi, Ikuo Kobayashi, Mizuho Uematsu, Go Kitahara and Takeshi Osawa
P6-115	Ultrasonographic characteristics of accessory sex glands and spectral Doppler indices of the internal iliac arteries in peri- and post-pubertal rams Maria Emilia Franco Oliveira, Efigenia S.C. Camela, Ricardo P P. Nociti, Victor J.C. Santos, Beatrice I. Macente, Giovana S. Maciel, Marcus A.R. Feliciano, Wilter R.R. Vicente, Inayat Gill and Pawel M. Bartlewski
P6-116	Productive and Reproductive Performance of Selective Native White and Black Duck Germplasm in Bangladesh Md. Sazedul Karim Sarker, Md. Masud Rana, Shakila Faruque, Shabiha Sultana, Nathu Ram Sarker and Takukder Nurun Nahar
P6-117	A non-invasive telemetric monitoring system for surface temperature registration of external genitals of the mare during parturition Tomasz Jasinski, Malgorzata Masko, Malgorzata Domino, Katarzyna Skierbiszewska, Bartosz Pawlinski, Magdalena Gajewska and Zdzislaw Gajewski
P6-118	Genetic diversity and structure of sika deer (Cervus nippon) from the Northeast Asia Chisun Yun
P6-119	Breeding of New Super-fine Wool Strain in Subo Merino guoqing shi, yonglin yang, jianhong ni, pengcheng wan and rong dai
P6-120	Comparison between conventional Artificial Insemination (AI) and Deep Intracornual Artificial Insemination (DIAI) using Y-bearing sperms to produce male offspring in beef cattle Bayu Rosadi, Darmawan Darmawan and Teguh Sumarsono
P6-121	Development of Timed Re-Insemination Synchronization (TRI Synch) program to synchronize return to ovulation of previously inseminated in dairy cows Ami Kitagawa, Reika Shimamura, Haruna Wada, Haruka Matsumoto, Marina Aizu, Tomoaki Kubo and Toru Takahashi
P6-122	Single fixed-time AI in sows in a commercial swine herd in Thailand Padet Tummaruk, Pachara Pearodwong, Chanyuth Tretipskul and Raphee Panyathong
P6-123	Efficient artificial insemination method based on estrous behavior monitoring system in buffaloes Tomas Javier Acosta, Yuji Tokura, Yoshio Yamaguchi and Takashi Shirai

P6-124	Low dose laparoscopic artificial insemination established for Alpine goats Ting-Chieh Kang, Yu-Hsin Chen, Feng-Hsiang Chu and Perng-Chih Shen
P6-125	Effect of parity on superovulatory response and reproductive performance after flushing during suckling period in Japanese Black cow Kazunaga Oshima, Yoshinori Ochiai, Takatoshi Kojima and Naoyuki Yamamoto
P6-126	Efficient and scheduled production of pseudopregnant female mice by progesterone injections. Ayumi Hasegawa, Keiji Mochida, Toshiko Tomishima, Michiko Hirose, Narumi Ogonuki, Kimiko Inoue and Atsuo Ogura
P6-127	Enhanced Preimplantation Development of Porcine Parthenogenetic Embryos by VitaminC Supplementation Xun Fang, Pantu Kumar Roy, Bahia MS Hassan and Jongki Cho
P6-128	Effect of in vitro fertilisation (IVF) and prolonged embryo culture on mouse development and postnatal health Anan Rajeh Aljahdali, Ili Raja Khalif, Bhav Sheth, Miguel A. Velazquez, Katrine Wallen, Clive Osmond, Neil R. Smyth and Tom P. Fleming
P6-129	The Development of Individual Embryo Culture System and Apply for Embryo Transfer in Hanwoo Joung Jun Park, Chang Woo Lee, Pil Sang Yoon, Mi Suk Jeon and Han Jun Yoo
P6-130	Allicin treatment during in vitro aging enhances porcine embryo developmental competence Hyuk Hyun, Seung-Eun Lee, Yeo-Jin Son, Yun-Gwi Park, Min-Young Shin, Sang-Gi Jeong, Eun-Young Kim and Se-Pill Park
P6-131	Lysophosphatidic acid promotes developmental speed by activating the formation of blastocoel in porcine embryos Min-Young Shin, Seung-Eun Lee, Yeo-Jin Son, Yun-Gwi Park, Sang-Gi Jeong, Eun-Young Kim and Se-Pill Park
P6-132	Comparison of various activation protocol in dog parthenogenesis Minjung Kim
P6-133	Developmental Rate of In Vitro Embryos according to Meat Quality Grade of Slaughtered Cow(Hanwoo) Han Jun Yoo, Chang Woo Lee, Pil Sang Yoon, Mi Suk Jeon and Joung Jun Park
P6-134	Production of fertile mice from sperm and haploid parthenogenotes at the first mitosis Toru Suzuki, Maki Asami, Martin Hoffmann, Xin Lu, Miodrag Gužvić, Cristoph A. Klein and Anthony C.F. Perry
P6-135	Effect of N-acetyl -L-cysteine for chromosome aneuploidy of oocytes from SOD1 deficient mice Mizuho Suzuki, Taiki Ohara, Junichi Fujii and Naoko Kimura
P6-136	US11 and hDAF reduce cell-mediated immune rejection for xenotransplantation. Jung Won Kang, Reza K Oqani, Tao Lin, Jae Eun Lee, So Yeon Kim, Joo Bin Lee and Dong Il Jin
P6-137	A newly developed semi-automatic micromanipulation system for mammalian embryos Tomoo Eto, Nobuaki Tanaka, Yoko Kurotaki, Yuko Yamada, Atsuko Kageyama, Tsukasa Takahashi, Riichi Takahashi, Erika Sasaki and Jun-ichi Hata
* P6-138	Chromosome elimination as a therapy for infertility Takayuki Hirota, Hiroshi Ohta, Shantha K. Mahadevaiah, Obah A. Ojarikre, Mitinori Saitou and James M. A. Turner
P6-139	Science communication attached with hands-on field experience program in university farm: Students' concerns about somatic cell cloning technology Shinya Watanabe, Mayuko Okabe, Mikio Sekinuma, Ko Hatakenaka and Koh-ichi Hamano

10. Presentation information

For speakers

- 1) The presentation file must be given on a portable USB stick or a CD-R in Microsoft PowerPoint format to the PC data desk (Theater Hall) at least **1 hour before your session starts** (ideally, on the day before the session).

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Sept. 29th (Fri) 07:30–14:30

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Plenary lectures	40 min talk and 10 min discussion
Invited lectures at the Concurrent Sessions	25 min talk and 4 min discussion
Selected lectures at the Concurrent Sessions	12 min talk and 2 min discussion

The next speakers are requested to be seated in a chair labeled "Next Speaker," during the presentation in prior to your own.

Poster sessions

- 1) Venue

Posters will be on display in the Exhibition Hall and will be available to view for the duration of the conference. The poster numbers will appear on the poster boards.

- 2) Poster discussion

Presenting authors are required to stand alongside their poster during their poster session:

Sept. 28 (Thu) 13:00–14:30 Poster Session 1 (odd numbers)

Sept. 29 (Fri) 13:00–14:30 Poster Session 2 (even numbers)

- 3) Poster size

Please ensure that your poster does not exceed A0 size (841 mm wide × 1189 mm high, portrait orientation). Posters should include the title of the abstract and the name(s) and affiliation(s) of the author(s). Posters can be mounted with push pins provided in the poster session room.

- 4) Schedule for display & mounting/removing

All posters must be mounted during 9:00-14:00 on Sept. 27 (Wed) or during 8:00-12:00 on Sept. 28 (Thu) and removed by 15:00 on Sept. 29 (Fri). Posters still in place at 17:00 on Sept. 29 (Fri) will be discarded.

11. Social program

Welcome reception

Free drinks and food. All are welcome to attend.

Exhibition Hall, Convention Center

Sept. 27 (Wed) 18:30–20:30

Dress code: Casual

Conference dinner

This is an excellent occasion to communicate with participants and speakers while enjoying a hotel meal.

Outdoor poolside, Laguna Garden Hotel (or Large Banquet Hall, Laguna Garden Hotel, in case of bad weather)

Sept. 29 (Fri) 19:00–21:00

Dress code: Casual

12. Facilities information

Internet access

Wi-Fi Internet access will be available free of charge to all participants.

Medical services

Please contact the WCRB2017 registration desk in case of an incident. If it is an emergency, please call 119 (Japanese only) and inform the WCRB staff at the registration desk.

Barrier-free facilities

Barrier-free facilities, including accessible elevators and toilets for disabled people with special needs, are available in the Convention Center area. Please ask the WCRB2017 registration desk, if necessary.

Evacuation routes

In case of fire or other accidents, please follow the evacuation route signs (green sign), which you will find at every hall and passage.

Cloak

A cloakroom is available at a space next to the conference Room A1. Opening hours are as follows:

Sept. 26 (Tue)	08:00-17:30
Sept. 27 (Wed)	08:30-20:30
Sept. 28 (Thu)	08:30-21:00
Sept. 29 (Fri)	08:30-19:00

13. Further information

Certificates of attendance

Certificates of attendance can be emailed to participants after the conference on request.

Photography and video

Participants are requested not to record any presentations by photography or video without prior permission from the speakers.

14. Author index

A		B	
Abbasi, Ferheen.....	P2-30	Baek, Jun Jong.....	P3-43
Abe, Kuniya.....	P2-14	Baek, Kwang-Hyun	P1-101
Abe, Kuniya.....	P6-1	Bage, Renee.....	P3-101
Abe, Kuniya.....	P6-2	Bai, Hanako.....	P4-7
Abe, Yumiko	YSS3-6	Bai, Jiahua.....	P1-114
Abe, Yumiko	P4-16	Bai, Shun.....	P2-16
Acosta, Tomas J.	P5-64	Bajec, Simona Susnik.....	P6-48
Acosta, Tomas Javier.....	P6-123	Baker, Benjamin.....	P5-42
Adachi, Haruhiko	YSS2-10	Baker, Mark.....	P2-32
Adachi, Haruhiko	P2-8	Bakhaus, Katharina.....	P2-96
Adachi, Hiromichi.....	P2-39	Bao, Si Qin.....	P6-36
Adesina, Oluwatosin.....	P4-65	Bao, Siqin.....	P6-37
Adhikari, Deepak	P1-53	Bao, Siqin.....	P6-75
Adi, Deborah Seember	P4-65	Bartkowska, Dominika	P5-41
Adiga, Satish Kumar	P3-21	Bartlewski, Pawel M.....	P4-47
Adiga, Satish Kumar	P3-99	Bartlewski, Pawel M.....	P5-42
Agapiou, David J.....	P1-72	Bartlewski, Pawel M.....	P6-115
Ahmad, Ejaz.....	P2-66	Bartolac, Louise K.....	P6-99
Ahmad, Gulfam	P2-74	Baryla, Monika M	P4-43
Ahmad, Tanveer	P2-66	Bassett, Andrew.....	P3-82
Ahmed, Nisar	P2-49	Bastian, Nicole Anne	YSS2-3
Ahn, Changhwan	P1-106	Bastian, Nicole Anne	P1-60
Ahn, Changhwan	P4-9	Batchelor, Nicola J.....	P1-8
Ahn, Changhwan	P4-52	Bayasula	P1-117
Ahn, Changhwan	P6-49	Bayasula, Bayasula.....	P1-16
Aiba, Atsu	P3-89	Bayasula, Bayasula.....	P1-65
Aiba, Shota.....	YSS2-10	Bayasula, Bayasula.....	P1-111
Aiba, Shota.....	P2-8	Bayasula, Bayasula.....	P1-116
Airey, Lauren Elizabeth	P3-103	Bayasula, Bayasula.....	P5-75
Aitken, R. John.....	P2-102	Beagley, Kenneth	YSS2-12
Aizu, Marina	P6-121	Beagley, Kenneth	P2-80
Akagi, Satoshi.....	P2-39	Beagley, Kenneth W	P2-79
Akagi, Satoshi.....	P6-102	Beagley, Kenneth W	P2-81
Akhtar, Muhammad Saleem.....	P2-66	Bellofiore, Nadia	P4-8
Akison, Lisa K	P1-103	Bemejo-Alvarez, Pablo	P3-8
Akter, Quzi Sharmin.....	P2-34	Bennien, Josefina.....	P2-96
Akter, Quzi Sharmin.....	P2-67	Bergmann, Martin.....	P2-32
Alageel, Arwa Abdulaziz.....	P3-25	Bergmann, Martin.....	P2-95
Alam, Md Hasanur	P1-56	Bergmann, Martin.....	P2-96
Ali, Ihsan	P3-11	Bernard, Daniel J.....	C-28
Ali, Ihsan	P3-15	Bernhardt, Rita.....	P2-95
Ali, Ihsan	P3-17	Bertoldo, Michael J.....	P1-72
Ali, Muhammad Amjid	P2-66	Bhushan, Sudhanshu	P2-98
Aljahdali, Anan Rajeh.....	P6-128	Bi, Yanzhen.....	P6-3
Alshahrani, Saad.....	P2-74	Bianco, Stephanie	P1-79
Al-Zubaidi, Usama I.....	P3-26	Bonner, Wendy M.....	YSS2-3
Amano, Kaori	P2-97	Bonner, Wendy M.....	P1-60
Amano, Tomoko.....	P4-37	Boruszewska, Dorota.....	P3-75
Amelkina, Olga.....	P5-36	Boruszewska, Dorota.....	P3-76
An, Jin Yong.....	P1-106	Boruszewska, Dorota.....	P3-77
An, Jin Yong.....	P4-9	Boruszewska, Dorota.....	P5-63
An, Jin Yong.....	P4-52	Boruszewska, Dorota.....	P5-68
An, Jin Yong.....	P6-49	Boudoures, Anna	C-7
An, Ju-Hyun.....	P3-34	Bousfield, George R.....	J-2
An, Ju-Hyun.....	P3-91	Bowles, Josephine	P2-20
An, Lei.....	P1-44	Bowles, Josephine	P2-78
An, Lei.....	P4-41		
An, Xinglan	P6-85		
Anderson, Richard A.....	C-22		
Anderson, Richard A.....	P1-3		
Andersson, Goran.....	P3-101		
Andreas, Eryk	C-7		
Andronowska, Aneta.....	P5-44		
Aniolek, Olga	P4-11		
Anzai, Masayuki	P1-39		
Anzai, Masayuki	P3-10		
Anzai, Masayuki	P3-12		
Anzai, Masayuki	P6-73		
Anzalone, Debora A.	P3-93		
Aoki, Fugaku	P3-5		
Appeltant, Ruth.....	P6-88		
Arai, Yoshikazu.....	P6-74		
Arai, Yuka.....	P2-45		
Arakawa, Aisaku	P6-110		
Arbabi, Leila	P5-54		
Ardestani, Goli	P3-82		
Arihara, Wakana.....	YSS2-7		
Arihara, Wakana.....	P1-88		
Arima, Takahiro	P1-73		
Arima, Takahiro	P2-110		
Aritomi, Taiki.....	YSS2-1		
Aritomi, Taiki.....	P1-6		
Armitage, Charles.....	YSS2-12		
Armitage, Charles.....	P2-80		
Armitage, Charles W	P2-79		
Armitage, Charles W	P2-81		
Asada, Hiromi	P4-2		
Asada, Hiromi	P4-6		
Asada, Hiromi	P5-17		
Asada, Masatsugu	P5-66		
Asami, Maki	P6-134		
Asano, Atsushi	P2-53		
Asano, Atsushi	P2-101		
Asanuma, Yuta.....	P6-43		
Ashworth, Cheryl Joy	P1-20		
Atabay, Edwin C	P2-71		
Atabay, Edwin C	P5-69		
Atabay, Edwin C	P5-71		
Atabay, Eufrocina P.....	P2-71		
Atabay, Eufrocina P.....	P5-69		
Atabay, Eufrocina P.....	P5-71		
Atchalalt, Khurchabiling.....	P1-76		
Ate, Iyorhembra Utim.....	P4-65		
Atess, Victoria.....	P1-21		
Athorn, Rebecca Z	P5-40		
Atreya, Hanudatta	P3-21		
Atsumi, Takao.....	P6-95		
Ayabe, Shinya.....	P6-14		
Azuma, Haruhito.....	P2-59		
Azuma, Rika.....	P1-39		
Azuma, Rika.....	P6-73		

- Braidy, Nady P1-72
 Bromfield, Elizabeth G P2-102
 Brown, Hannah M P3-102
 Bruyere, Pierre P3-53
 Bryan, Emily YSS2-12
 Bryan, Emily P2-79
 Bryan, Emily P2-80
 Bryan, Emily P2-81
 Brzozowska, Ewelina P4-61
 Buff, Samuel P3-53
 Bugno-Poniewierska, Monika P6-72
 Buitrago, Minerva Ferrer P3-82
 Bullesbach, Erika E P5-46
 Bun, Chan P5-67
 Bunma, Thunya P1-25
 Burdge, Graham C P1-112
 Burks, Deion M P1-43
 Burnet, Guillaume P2-78
 Burt, Dave W P6-59
 Bustamante, Sonia P1-72
 Butnev, Viktor Y J-2
 Byambaragchaa, Munkhzya P5-3
- C**
- Caetano, Laura P3-100
 Cai, Rui P4-28
 Cai, Xin P2-13
 Camela, Efigenia S.C P6-115
 Cao, Guangyi C-11
 Cao, Guangyi P1-48
 Cao, Hui P6-67
 Cao, Shao X P5-49
 Cao, Suying P6-100
 Cao, Xin P6-105
 Carlson, Daniel F S-5
 Carroll, John P1-53
 Castaneda, Julio P2-19
 Cha, Jae-Jin P3-34
 Cha, Jae-Jin P3-91
 Chaaben, Kais P2-83
 Chabchoub, Maha P2-83
 Chai, Muhchyi P6-27
 Chai, Ranran P2-84
 Chakrabort, Damayanti Plenary6
 Chakraborty, Prabuddha P1-7
 Chakroun, Nozha P2-83
 Chan, Hon Y YSS1-3
 Chan, Hon Y P2-106
 Chanapiwat, Panida P2-64
 Chang, Heng-Yu P1-93
 Chang, Hui-Wen YSS3-11
 Chang, Hui-Wen P5-6
 Chatdarong, Kaywalee P1-24
 Chatdarong, Kaywalee P5-36
 Cheewasopit, Warakorn P1-26
 Chen, Chi-Long P1-93
 Chen, Fuying P5-58
 Chen, Guowu P2-84
 Chen, Hong P2-49
 Chen, Hong P2-84
 Chen, Huatao P2-90
 Chen, Huatao P5-8
 Chen, Jiaqin P2-54
 Chen, Lih-Ren P3-95
 Chen, Lih-Ren P6-24
 Chen, Lih-Ren P6-44
 Chen, Mei Xue P1-10
 Chen, Qi Wen P1-10
 Chen, Qiusheng P2-49
 Chen, Xiaojing P6-32
 Chen, Xueqin P1-54
 Chen, Yanglin P6-37
 Chen, Yanglin P6-38
 Chen, Yaning P6-97
 Chen, Yaning P6-98
 Chen, Yen-Lin P2-86
 Chen, Yu-Hsin P6-124
 Chen, Yu-Shin P3-95
 Cheng, Chiao-Yin P2-86
 Cheng, Delfine P4-13
 Chernenkov, Yuriy V P5-74
 Chiang, Han-Sun P2-24
 Chiang, Han-Sun P2-86
 Chiba, Shiori P6-111
 Chidangil, Santosh P3-99
 Chin, Peck Y P4-53
 Cho, Ho Yeon P6-50
 Cho, Jong Ki P3-45
 Cho, Jongki P6-127
 Cho, Sang-Rae P2-69
 Choe, Changyong P1-69
 Choi, Hee Jung P3-80
 Choi, Inchul YSS1-9
 Choi, Inchul C-27
 Choi, Inchul P2-65
 Choi, Inchul P3-58
 Choi, Jihye P1-101
 Choi, Jong Dug P3-43
 Choi, Kimyung P3-31
 Choi, Kimyung P6-13
 Choi, Seon-A P3-34
 Choi, Seon-A P3-91
 Choi, Yohan P4-18
 Choi, Yoo Bin P1-34
 Choi, Yunjung P3-3
 Chojjookhuu, Narantsog P6-56
 Chokoe, Tlou Caswell P2-52
 Chu, Feng-Hsiang P3-95
 Chu, Feng-Hsiang P6-124
 Chuma, Shinichiro P2-14
 Chun, Hee Jin P6-52
 Chun, Ju Lan P3-43
 Chun, Ju Lan P6-77
 Chun, Ju Lan P6-112
 Chun, Ju Ran P2-63
 Chung, Ki-Yong P2-69
 Clarke, Iain P5-54
 Cofre, Eileen P4-46
 Commin, Loris P3-53
 Conductier, Gregory P5-54
 Conner, Sarah P5-76
 Coupe, Kate Jane P3-104
 Cousins, Fiona L P6-29
 Coyle, Chris S P5-30
 Croce, Fernando Di L-1
 Cuenca, Jose Ramon Eguibar YSS2-2
 Cuenca, Jose Ramon Eguibar P1-22
 Cui, Xiang Shun P1-35
 Cui, Xiang-Shun YSS1-8
 Cui, Xiang-Shun P3-38
 Cui, Xiang-Shun P3-57
 Czernik, Marta P2-40
 Czernik, Marta P6-84
- D**
- Dabrowski, Sebastian P2-76
 Dabrowski, Sebastian P2-77
 Dai, Jianjun P6-97
 Dai, Jianjun P6-98
 Dai, Mingdao P5-16
 Dai, Mingdao P5-18
 Dai, Peng Yuan P2-55
 Dai, Pengyuan P2-47
 Dai, Rong P6-119
 Dai, Xiaoli P3-44
 Dai, Yibo P1-54
 Daly, Janet M P1-90
 Damian, Eva Patricia Lopez P3-51
 Dang, Han P1-103
 Dang-Nguyen, Thanh Q P6-110
 Daoud, Salima P2-83
 Darmawan, Darmawan P6-120
 Dat, Nguyen Tien P3-92
 Davies, Sophie P3-83
 Davis, John S J-2
 Dean, Jurrien P3-94
 Deane, James Antony P6-29
 Deboer, Kathleen P2-28
 Ded, Lukas P2-33
 Delaney, Stephanie P6-96
 Deleva, Anna P1-11
 Deng, Mingtian P1-67
 Deura, Chikaya P5-22
 Dickinson, Hayley P4-8
 Dimitriadis, Evdokia P4-30
 Ding, Bin Yu P1-10
 Ding, Wei P1-14
 Djurdjevic, Ida P6-48
 Do, Lanh Thi Kim YSS1-7
 Do, Lanh Thi Kim P2-92
 Dochi, Osamu P3-40
 Domino, Malgorzata P4-61
 Domino, Malgorzata P4-62
 Domino, Malgorzata P6-117
 Donai, Kenichiro P6-23
 Dong, Chao P6-105
 Dong, Faming P6-3
 Dong, Feng P2-112
 Dong, Huansheng P6-60
 Dongyang, Yunyi P1-63
 Dost, Assadullah P5-24

- Dowland, Sam.....P4-17
Dowland, Samson.....P4-13
Dowland, Samson N.....P4-1
Dowland, Samson N.....P4-5
Dsouza, Fiona.....P3-21
Dsouza, Fiona.....P3-99
Duan, Tao.....P3-71
Duggavathi, Rajesha.....P1-79
Dun, Matthew D.....P2-102
Duncan, W Colin.....P1-81
Dunleavy, Jessica.....P2-29
Duong, Hai Thanh.....P5-70
Duong, Kevin.....P2-38
Dutta, Sudipta.....P1-43
Dvorakova, Monika.....P5-29
Dvorakova-Hortova, Katerina.....P2-33
- E**
- Ebisawa, Masashi.....P2-1
Eckert, Judith.....P3-104
Eckert, Judith J.....P1-112
Eckert, Judith J.....P3-100
Edashige, Keisuke.....P3-42
Edashige, Keisuke.....P6-102
Edashige, Keisuke.....P6-107
Ekawa, Takashi.....YSS1-12
Ekawa, Takashi.....P6-114
Ellery, Stacey.....P4-8
Ema, Masatsugu.....P1-122
Ema, Masatsugu.....P6-6
Ema, Masatsugu.....P6-34
Emes, Richard D.....P2-109
Emori, Chihiro.....P1-64
Encarnacion, Erwin C.....P5-71
Endo, Daisuke.....P2-51
Endo, Natsumi.....P5-45
Endoh, Mitsuhiro.....P3-22
England, Gary C.W.....P5-35
Eto, Tomoo.....P6-137
Evans, Jemma.....P4-8
Ezaki, Ryo.....YSS3-5
Ezaki, Ryo.....P3-106
- F**
- Fadhillah.....YSS2-5
Fadhillah.....P1-70
Fadhillah.....P1-82
Fahrenkrug, Scott C.....S-5
Fan, Heng-Yu.....Plenary4
Fan, Lihong.....P6-75
Fan, Xiaoying.....P6-75
Fan, Yixuan.....P1-67
Fang, Nan Zhu.....P3-15
Fang, Nan Zhu.....P3-17
Fang, Nanzhu.....P3-11
Fang, Nanzhu.....P3-13
Fang, Xun.....P3-45
Fang, Xun.....P6-127
Faruque, Shakila.....P6-116
- Fatima, Hina.....P5-14
Fatira, Effrosyni.....P6-86
Faundez, Ricardo.....P2-76
Faundez, Ricardo.....P2-77
Feliciano, Marcus A.R.....P6-115
Feng, Chun-Wei Allen.....P2-20
Feng, Tao.....P1-114
Feng, Xu.....P1-96
Feng, Xu.....P1-97
Feng, Xu.....P4-49
Fenwick, Mark.....P1-18
Fenwick, Mark A.....C-1
Ferey, Jeremie.....C-7
Fernandez, Esther Collado.....P1-33
Fietz, Daniela.....P2-32
Fietz, Daniela.....P2-95
Fietz, Daniela.....P2-96
Fijak, Monika.....P2-98
Findlay, Jock K.....P1-23
Fiordeliso, Tatiana.....P1-105
Fiordeliso, Tatiana.....P3-51
Fissore, Rafael.....P3-82
Fleming, Tom P.....P1-112
Fleming, Tom P.....P3-104
Fleming, Tom P.....P3-100
Fleming, Tom P.....P6-128
Fleming, Tom Patrick.....Plenary2
Fleming, Tom Patrick.....P3-103
Flores, Ester B.....P5-69
Ford, Emmalee.....P1-12
Fox, Sebastian.....P3-82
Franek, Roman.....P6-103
Franks, Stephen.....P1-21
Fraser, Rupsha.....P3-8
Frolikova, Michaela.....P2-33
Frost, Emily R.....P1-12
Fu, Xiangwei.....P6-90
Fuchino, Hiroyuki.....P5-79
Fujihara, Hiroaki.....P5-12
Fujihara, Taisuke.....P4-23
Fujihara, Yoshitaka.....P2-36
Fujii, Junichi.....YSS3-3
Fujii, Junichi.....P3-62
Fujii, Junichi.....P6-135
Fujii, Nobutaka.....P5-53
Fujii, Nobuyuki.....P6-27
Fujii, Takashi.....P3-56
Fujii, Takashi.....P4-56
Fujii, Wataru.....YSS1-6
Fujii, Wataru.....P1-62
Fujii, Wataru.....P1-64
Fujii, Wataru.....P2-23
Fujii, Wataru.....P6-17
Fujiki, Nobuhiro.....P5-12
Fujime, Nao.....P4-22
Fujimura, Misaki.....P6-83
Fujinoki, Masakatsu.....P2-41
Fujinoki, Masakatsu.....P2-42
Fujinoki, Masakatsu.....P2-43
Fujioka, Yasuhiro.....P2-12
Fujita, Naoko.....P6-12
- Fukami, Yuri.....P5-46
Fukawa, Kazuo.....P6-111
Fukushima, Kazuki.....P6-107
Fukuda, Koji.....P6-6
Fukuda, Tomokazu.....P6-23
Fukuda, Tomokazu.....P6-40
Fukuda, Tooru.....P6-5
Fukuda, Tooru.....P6-20
Fukuda, Tooru.....P6-74
Fukuda, Toru.....P6-18
Fukui, Emiko.....YSS1-11
Fukui, Emiko.....P4-35
Fukumori, Rika.....P1-76
Fukushima, Moriyuki.....P2-45
Fulka, Helena.....P3-61
Fullerton, Paul T.....P4-12
Funahashi, Hiroaki.....P1-37
Funaya, Satoshi.....P3-5
Furusawa, Shuichi.....YSS3-5
Furusawa, Shuichi.....P3-106
Furusawa, Tadashi.....P2-99
Furusawa, Tadashi.....P3-79
Furuse, Tamio.....P6-1
Furuta, Asuka.....P6-22
Furuta, Asuka.....P6-30
Furutani, Aina.....P3-107
- G**
- Gajewska, Magdalena.....P6-117
Gajewski, Zdzis?Aw.....P4-11
Gajewski, Zdzislaw.....P2-76
Gajewski, Zdzislaw.....P2-77
Gajewski, Zdzislaw.....P4-61
Gajewski, Zdzislaw.....P6-53
Gajewski, Zdzislaw.....P6-117
Gajewski, Zdzislaw.....P4-62
Gajos, Katarzyna.....P5-56
Galina, Carlos.....P3-51
Galindo-Solano, Nuria.....P1-105
Ganieva, Umida.....P5-75
Gao, Fei Ru.....P1-10
Gao, Jian Ming.....P6-100
Gao, Jianming.....P6-100
Gao, Lei.....P5-8
Gao, Lei.....P6-90
Gao, Shaorong.....P3-67
Gao, Shaorong.....P3-71
Gao, Shaorong.....P6-78
Gao, Shaorong.....P6-79
Gao, Shuai.....P6-78
Gao, Xiaoyue.....P6-32
Gao, Xue Fei.....P6-36
Gao, Xuefei.....P6-75
Gao, Yawei.....P3-67
Gao, Yawei.....P6-78
Gao, Zhengling.....P3-60
Gargett, Caroline E.....P6-29
Gavin-Plagne, Lucie.....P3-53
Ge, Lei.....P1-92
Gemmell, Neil J.....P5-2

- Geng, Qing YanP1-10
 Gevry, NicolasP1-79
 Geyer, Joachim.....P2-95
 Geyer, Joachim.....P2-96
 Gilchrist, Robert B.....P1-72
 Gilchrist, Robert B.....P1-73
 Gill, Inayat P6-115
 Gilun, Przemyslaw P5-41
 Glistler, Claire.....P1-26
 Godlewski, Marek.....P2-76
 Godlewski, Marek.....P2-77
 Godlewski, Michal M.....P2-77
 Godlewski, Michal MarekP2-76
 Godwin, JonathanP1-49
 Godwin, JonathanP3-82
 Goel, Sandeep.....YSS3-8
 Goel, Sandeep.....P4-36
 Goikoetxea, Alexander P5-2
 Gong, Yongsheng.....P5-59
 Gonzalez-Bulnes, Antonio.....P4-46
 Goto, MakiP1-16
 Goto, MakiP1-65
 Goto, MakiP1-111
 Goto, MakiP1-116
 Goto, MakiP5-75
 Goto, Tatsuhiko P6-1
 Goto, Teppei.....P5-16
 Goto, Teppei.....P6-42
 Goto, YukiP3-28
 Goto, YukiP6-94
 Goto, YukiP6-113
 Gotoh, MaikoP6-28
 Gould, Joanna Mary P3-103
 Granados-Aparici, Sofia.....P1-18
 Gray, NickiP3-25
 Green, Ella P3-102
 Green, Mark P.....C-24
 Greening, David W.....P4-33
 Grupen, Christopher GP5-40
 Grupen, Christopher GP6-99
 Grycmacher, Katarzyna.....P3-75
 Grycmacher, Katarzyna.....P3-76
 Grycmacher, Katarzyna.....P3-77
 Grycmacher, Katarzyna.....P5-63
 Grycmacher, Katarzyna.....P5-68
 Guerrero-Netro, HildaP1-61
 Gumeniuk, Olga I.P5-74
 Guo, Changli.....P3-13
 Guo, Jing.....YSS1-8
 Guo, Jing.....P1-35
 Guo, Jing.....P3-38
 Guo, Jing.....P3-57
 Guo, XuejiangC-15
 Gurgul, ArturP6-72
 Gutierrez-Ospina, Gabriel.....P1-105
 Gužvić, MiodragP6-134
- H**
- Ha, Wootae.....C-4
 Ha, Wootae.....P2-5
 Habukawa, KayoP5-55
 Hachem, AlaaP3-82
 Hagino, ShikiYSS1-7
 Hagino, ShikiP2-92
 Halet, GuillaumeP1-53
 Hamaad, Ata Ul-Rehman.....P2-66
 Hamada, NorioP1-4
 Hamada, NorioP6-55
 Hamamura, AkinoriP5-12
 Hamano, Koh-IchiP6-139
 Hamazaki, Nobuhiko.....P1-4
 Hamazaki, Nobuhiko.....P1-28
 Hamazaki, Nobuhiko.....P3-64
 Hamazaki, Nobuhiko.....P6-27
 Hamazaki, Nobuhiko.....P6-55
 Han, HongmeiP6-75
 Han, Jae YongPlenary5
 Han, Jae YongP3-80
 Han, Jae YongP6-50
 Han, Jae YongP6-58
 Han, JaeheeP1-69
 Han, JianyongP6-25
 Han, JisooP4-18
 Han, JunYSS2-8
 Han, JunP1-102
 Han, Le.....P1-96
 Han, Peng.....P1-61
 Han, ZheP1-92
 Han, ZhimingP6-78
 Han, ZhimingP6-78
 Haneda, Shingo.....P1-29
 Haneda, Shingo.....P4-42
 Haneda, Shingo.....P4-50
 Hannan, M. A.P5-46
 Hannan, M. A.P5-72
 Hara, Asuka.....P1-76
 Hara, KenshiroP2-7
 Hara, KenshiroP2-26
 Hara, KenshiroP2-27
 Hara, KenshiroP2-82
 Hara, KenshiroP2-110
 Hara, SatoshiP6-15
 Harayama, Hiroshi.....P2-44
 Harayama, Hiroshi.....P2-45
 Hardy, Kate.....P1-21
 Harigaya, Toshio.....P5-78
 Harris, Daina.....P6-96
 Harris, RachelP1-83
 Hartmann, Katja.....P2-32
 Hartmann, Katja.....P2-96
 Hasegawa, Ayumi.....P3-88
 Hasegawa, Ayumi.....P4-29
 Hasegawa, Ayumi.....P6-1
 Hasegawa, Ayumi.....P6-126
 Hasegawa, Hiroki.....YSS1-2
 Hasegawa, Hiroki.....P1-87
 Hasegawa, MayumiP1-76
 Hasegawa, RumiP5-27
 Hasegawa, Shoji.....P6-95
 Hasegawa, TaitoP4-56
 Hashiba, Kazuhisa.....YSS2-5
 Hashiba, Kazuhisa.....YSS2-6
 Hashiba, Kazuhisa.....P1-82
 Hashiba, Kazuhisa.....P1-86
 Hashimoto, Hirofumi.....P5-12
 Hashimoto, Hirofumi.....P5-21
 Hashimoto, Shu.....P1-38
 Hashimoto, Shu.....P3-50
 Hashimoto, TomomiP6-14
 Hashiyada, YutakaP1-73
 Hashiyada, YutakaP3-28
 Hashiyada, YutakaP3-79
 Hashiyada, YutakaP6-94
 Hashiyada, YutakaP6-113
 Hashizume, Kazuyoshi.....P3-79
 Hashizume, Kazuyoshi.....P4-32
 Hashizume, Tsutomu.....P3-39
 Hashizume, Tsutomu.....P3-48
 Hassan, Bahia Ms.....P3-45
 Hassan, Bahia Ms.....P6-127
 Hasuo, Kaoru.....P1-36
 Hata, Jun-Ichi.....P6-137
 Hatada, Izuhio.....P6-11
 Hatakenaka, KoP6-139
 Hatanaka, Yuki.....P2-14
 Hatanaka, Yuki.....P4-29
 Hatanaka, Yuki.....P6-1
 Hatzirodos, NicholasYSS2-3
 Hatzirodos, NicholasP1-60
 Hayakawa, KojiP4-45
 Hayakawa, KojiP6-33
 Hayashi, Kaoru.....P5-18
 Hayashi, KatsuhikoC-18
 Hayashi, KatsuhikoP1-4
 Hayashi, KatsuhikoP1-28
 Hayashi, KatsuhikoP1-58
 Hayashi, KatsuhikoP3-64
 Hayashi, KatsuhikoP6-47
 Hayashi, KatsuhikoP6-55
 Hayashi, Ken-GoP3-79
 Hayashi, Makoto.....P2-1
 Hayashi, Makoto.....P3-64
 Hayashi, Shotaro.....P1-116
 Hayashi, TakeshiP4-21
 Hayashi, TetsutaroP2-1
 Hazano, KenP1-29
 Hazano, KenP4-50
 He, Changjiu.....P3-20
 He, Lin Jun.....P1-10
 Hedger, Mark PP5-10
 Hedger, Mark P.....P2-98
 Heindryckx, BjornP3-82
 Henmi, Kouichiro.....YSS1-12
 Henmi, Kouichiro.....P6-114
 Hernandez, Angelica TrujilloYSS2-2
 Hernandez, Angelica TrujilloP1-22
 Hewett, Peter.....P5-76
 Hiep, Nguyen ThiP3-92
 Higaki, Shogo.....P2-12
 Higashimoto, Chikaki.....P6-107
 Higeta, DaisukeYSS3-6
 Higeta, DaisukeP4-16

- Higuchi, Chika.....P3-10
Higuchi, Chika.....P3-12
Higuchi, Toshiya.....YSS1-6
Higuchi, Toshiya.....P2-23
Hikabe, Ori.....P1-4
Hikabe, Ori.....P6-47
Hikabe, Ori.....P6-55
Himaki, Takehiro.....P6-83
Hinokio, Kenji.....P5-33
Hinokio, Kenji.....P5-80
Hirabayashi, Masumi.....P5-16
Hirabayashi, Masumi.....P6-42
Hiraide, Misuzu.....P6-40
Hiraide, Misuzu.....P6-41
Hirano, Takashi.....P6-23
Hirao, Yuji.....Plenary1
Hirao, Yuji.....YSS2-1
Hirao, Yuji.....P1-6
Hirao, Yuji.....P1-30
Hiraoka, Kenichiro.....P6-87
Hirata, Toh-Ichi.....P3-86
Hiraya, Misaki.....YSS3-8
Hiraya, Misaki.....P4-36
Hirayama, Hiroki.....P3-56
Hirayama, Hiroki.....P4-56
Hirose, Hitohiko.....P2-97
Hirose, Kairi.....P6-61
Hirose, Michiko.....P2-14
Hirose, Michiko.....P3-61
Hirose, Michiko.....P4-29
Hirose, Michiko.....P6-1
Hirose, Michiko.....P6-126
Hirota, Keiji.....P3-87
Hirota, Takayuki.....P6-138
Hishikawa, Yoshitaka.....P6-56
Hishinuma, Mitsugu.....YSS1-2
Hishinuma, Mitsugu.....P1-87
Hiura, Jin.....P2-110
Ho, Wing Hong.....P1-115
Hochi, Shinichi.....P6-42
Hoffmann, Martin.....P6-134
Hogg, Charis O.....P1-20
Hojo, Takuo.....P1-85
Hojo, Takuo.....P3-96
Homer, Hayden A.....P1-115
Honda, Arata.....P4-29
Honda, Arata.....P6-1
Honda, Arata.....P6-56
Honda, Shinnosuke.....YSS1-10
Honda, Shinnosuke.....P3-66
Honda, Tetsuya.....P6-31
Hong, Nguyen Thi.....P3-92
Hong, Seong-Geun.....P1-69
Hongo, Shin.....P6-102
Hori, Konomi.....YSS2-7
Hori, Konomi.....P1-88
Horiguchi, Kotaro.....P5-27
Horiata, Kei.....P5-20
Horii, Takuro.....S-4
Horii, Takuro.....P6-11
Horikami, Kento.....YSS3-8
Horikami, Kento.....P4-36
Horiuchi, Hiroyuki.....YSS3-5
Horiuchi, Hiroyuki.....P3-106
Horvath, Akos.....P6-48
Horvath, Akos.....P6-103
Hoshino, Yoichiro.....P2-39
Hoshino, Yoichiro.....P2-67
Hoshino, Yumi.....P3-18
Hosoe, Misa.....P3-79
Hosoe, Misa.....P4-32
Hosoi, Yoshihiko.....P1-39
Hosoi, Yoshihiko.....P3-10
Hosoi, Yoshihiko.....P3-12
Hosoi, Yoshihiko.....P6-73
Hosokawa, Mami.....P3-42
Hosokawa, Misaki.....P3-9
Hou, Xiaoying.....J-2
Hou, Yi.....P1-27
Hou, Yi.....P1-59
Hou, Yi.....P2-17
Houghton, Franchesca.....P3-100
Houghton, Franchesca D.....C-16
Hsieh, Meng-Ti.....P1-93
Hu, Meng-Wen.....P1-27
Hu, Qinbo.....P1-54
Hu, Shu Xiang.....P6-36
Hu, Yanqin.....P2-87
Hua, Guohua.....P1-71
Hua, Guohua.....P2-37
Hua, Wenjun.....P6-3
Hua, Zaidong.....P6-3
Huan, Yanjun.....P3-69
Huang, Huiling.....P1-109
Huang, Jialv.....P2-21
Huang, Lin.....P1-27
Huang, Lin.....P2-17
Huang, Shoumei.....P6-105
Huang, Xiaomeng.....P6-100
Huang, Yufei.....P2-49
Huang, Zhengyuan.....P6-90
Hughes, Camilla K.....J-3
Huidoro-Hernandez, Coral.....P1-105
Hull, Louise.....P3-102
Humblot, Patrice.....P3-101
Hummitzsch, Katja.....YSS2-3
Hummitzsch, Katja.....P1-60
Humphreys, Ross C.....P2-38
Huntriss, John D.....P1-33
Huo, Ran.....C-15
Hur, Yai-Young.....P6-66
Hutchinson, Mark R.....P4-53
Hutt, Karla.....P1-2
Hutt, Karla J.....P1-23
Hutt, Karla J.....P1-103
Hutton, Oliver.....P3-104
Hwang, Kyu Chan.....P3-46
Hwang, Shiou Jiang.....P2-112
Hwang, Woo Suk.....P3-46
Hwang, Young Sun.....P3-80
Hyun, Hyuk.....P6-16
Hyun, Hyuk.....P6-130
Hyun, Sanghwan.....P3-37
Hyun, Sang-Hwan.....P1-42
Hyun, Sang-Hwan.....P6-39
Hyun, Sang-Hwan.....P6-46
Hyun, Sang-Hwan.....P6-51
- I**
- Ichida, Kensuke.....P2-1
Ichijo, Ryo.....P6-31
Ichikawa, Akihiko.....P6-102
Ichikawa, Kennosuke.....YSS3-5
Ichikawa, Kennosuke.....P3-106
Ideta, Atsushi.....P3-78
Ieda, Nahoko.....P5-18
Ieda, Nahoko.....P5-19
Ieda, Nahoko.....P5-20
Ieda, Nahoko.....P5-23
Ieda, Nahoko.....P5-24
Ieda, Nahoko.....P5-26
Ieda, Nahoko.....P5-28
Ieda, Nahoko.....P5-62
Ieda, Nahoko.....P5-67
Iga, Kosuke.....YSS1-2
Iga, Kosuke.....P1-87
Iga, Kosuke.....P4-58
Iga, Kosuke.....P4-59
Igarashi, Katsuhide.....P6-27
Igo, Masahiro.....P2-88
Iida, Hiroshi.....P2-3
Iizuka, Yui.....P6-31
Ijuin, Maiko.....P6-14
Ikawa, Masahito.....C-13
Ikawa, Masahito.....P2-15
Ikawa, Masahito.....P2-30
Ikawa, Masahito.....P2-36
Ikawa, Masahito.....P2-105
Ikawa, Masahito.....P4-55
Ikawa, Masahito.....P6-21
Ikeda, Mayumi.....P2-46
Ikeda, Shuntaro.....P3-41
Ikegami, Kana.....P5-16
Ikegami, Kana.....P5-19
Ikegami, Kana.....P5-28
Ikeo, Kazuho.....P6-27
Im, Gi-Sun.....P2-5
Im, Gi-Sun.....P6-66
Imai, Akira.....P2-39
Imai, Hiroshi.....YSS1-10
Imai, Hiroshi.....YSS3-4
Imai, Hiroshi.....YSS3-8
Imai, Hiroshi.....P3-66
Imai, Hiroshi.....P3-68
Imai, Hiroshi.....P4-36
Imai, Kei.....P1-73
Imai, Kei.....P3-40
Imamura, Masanori.....P2-100
Imamura, Takuya.....P6-27
Inaba, Toshio.....P5-46
Inaba, Toshiya.....P3-22
Ingram, Richard J.....P2-109

Inoue, Hiroki.....	P2-14	Ito, Junya	P3-84	Janiuk, Izabela	P4-11
Inoue, Hiroki.....	P3-89	Ito, Momoe.....	YSS1-6	Jasinski, Tomasz.....	P4-62
Inoue, Hiroki.....	P4-29	Ito, Momoe.....	P2-23	Jasinski, Tomasz.....	P6-117
Inoue, Kimiko.....	P2-14	Ito, Norihiko	YSS1-2	Jegal, Ho-Guen.....	P3-33
Inoue, Kimiko.....	P3-88	Ito, Norihiko	P1-87	Jeon, Mi Suk	P6-129
Inoue, Kimiko.....	P4-29	Ito, Sayaka.....	P5-57	Jeon, Mi Suk	P6-133
Inoue, Kimiko.....	P6-1	Ito, Takashi	P6-27	Jeong, Hye-Yun	P5-77
Inoue, Kimiko.....	P6-126	Ito, Tetsuya.....	P6-111	Jeong, Jiyeon.....	C-27
Inoue, Masayasu	P1-38	Iuso, Domenico	P2-40	Jeong, Jiyeon.....	P2-65
Inoue, Naoko	P5-19	Iuso, Domenico	P3-93	Jeong, Pil-Soo.....	P3-34
Inoue, Naoko	P5-20	Iuso, Domenico	P6-84	Jeong, Pil-Soo.....	P3-91
Inoue, Naoko	P5-22	Ivanenko, Inna L.....	P5-74	Jeong, Sang-Gi	P3-30
Inoue, Naoko	P5-23	Iwakiri, Teppei.....	P6-6	Jeong, Sang-Gi	P3-32
Inoue, Naoko	P5-24	Iwama, Mizuho.....	P6-14	Jeong, Sang-Gi	P6-16
Inoue, Naoko	P5-26	Iwamori, Naoki.....	P2-3	Jeong, Sang-Gi	P6-81
Inoue, Naoko	P5-28	Iwamori, Naoki.....	P2-35	Jeong, Sang-Gi	P6-130
Inoue, Naoko	P5-34	Iwamori, Tokuko.....	P2-3	Jeong, Sang-Gi	P6-131
Inoue, Naoko	P5-62	Iwamori, Tokuko.....	P2-35	Jeong, Yelin.....	C-27
Inoue, Naoko	P5-67	Iwamoto, Masaki.....	P6-87	Jeung, Eui-Bae.....	P1-106
Irahara, Minoru	P5-13	Iwanaga, Toshihiko.....	P1-81	Jeung, Eui-Bae.....	P4-9
Irahara, Minoru	P5-32	Iwasa, Takeshi.....	P5-13	Jeung, Eui-Bae.....	P4-52
Irahara, Minoru	P5-33	Iwasa, Takeshi.....	P5-32	Jeung, Eui-Bae.....	P6-49
Irshad, Asma.....	P5-14	Iwasa, Takeshi.....	P5-33	Ji, Kuk Bin	P6-77
Irving-Rodgers, Helen F.	YSS2-3	Iwasaki, Yoshiko.....	P2-1	Ji, Xiaomei	P6-8
Irving-Rodgers, Helen F.	P1-60	Iwasaki, Yoshiko.....	P6-62	Jia, Gongxue.....	P6-90
Isaka, Keiichi	P4-7	Iwase, Akira.....	P1-16	Jia, Minzhi.....	P2-93
Isaka, Keiichi	P4-14	Iwase, Akira.....	P1-65	Jia, Ru.....	P2-112
Isaka, Keiichi	P4-15	Iwase, Akira.....	P1-111	Jia, Wentong.....	C-15
Ishida, Chiharu.....	P1-65	Iwase, Akira.....	P1-116	Jiang, Chao	J-2
Ishida, Takafumi	YSS3-12	Iwase, Akira.....	P5-75	Jiang, Chaohua.....	P1-54
Ishida, Takafumi	P5-48	Iwase, Izumi	P5-64	Jiang, Tingting.....	P2-90
Ishigaki, Ren.....	P5-26	Iwata, Hisataka	YSS1-1	Jiang, Yi.....	P5-38
Ishiguro-Oonuma, Toshina	P4-32	Iwata, Hisataka	YSS2-4	Jiang, Zhongling.....	P3-69
Ishihara, Shinya	P6-110	Iwata, Hisataka	YSS2-7	Jie, Xu Li	P3-17
Ishii, Kazunori.....	P5-66	Iwata, Hisataka	YSS3-7	Jimenez-Medina, Jose Alfredo	P1-105
Ishii, Mika.....	P3-24	Iwata, Hisataka	C-2	Jimenez-Medina, Jose Alfredo	P3-51
Ishii, Rika.....	P1-36	Iwata, Hisataka	P1-66	Jimoh, Aisha	P2-75
Ishikawa, Tomonori.....	P6-87	Iwata, Hisataka	P1-74	Jin, Dong Il.....	P6-136
Ishima, Yu	P2-46	Iwata, Hisataka	P1-75	Jin, Dongil	P5-39
Ishino, Fumitoshi.....	P2-58	Iwata, Hisataka	P1-88	Jin, Jun-Xue	P1-31
Ishiyama, Dai	P3-105	Iwata, Hisataka	P1-98	Jin, Jun-Xue	P3-29
Ishiyama, Dai	P5-66	Iwata, Hisataka	P1-99	Jin, Minghui.....	P3-37
Ishizaki, Hana	P1-110	Iwata, Hisataka	P1-100	Jin, Yaping	P2-90
Ishizaki, Hana	P2-53	Iwata, Hisataka	P1-108	Jin, Yaping	P5-8
Ishizaki, Hana	P2-101	Iwata, Hisataka	P3-72	Jin, Yongxun	P3-46
Ishizuka, Misaki	P3-24	Iwata, Hisataka	P4-24	Jin, Yun-Kyeong.....	C-25
Islam, Md. Rashedul.....	P4-23	Iwata, Hisataka	P1-108	Jin, Zhe Long.....	P1-35
Isotani, Ayako.....	P2-15	Iwatani, Chizuru	P1-122	Jo, Jun-Ichiro.....	YSS2-9
Isotani, Ayako.....	P6-21	Iwatani, Chizuru	P6-6	Jo, Jun-Ichiro.....	P2-6
Isoyama, Sora.....	P1-76	Izu, Haruna.....	P6-56	Jogahara, Takamichi	P6-56
Itagaki, Iori.....	P6-6	Izumi, Hiroyuki	P6-6	Joly, Thierry.....	P3-53
Itami, Nobuhiko.....	YSS2-4	Izumi, Shinichiro	P5-80	Jones, Keith T	C-10
Itami, Nobuhiko.....	P1-74			Jones, Keith T	P3-1
Itami, Nobuhiko.....	P1-100			Jonker, Thinus	P2-52
Itami, Nobuhiko.....	P1-108			Jozaki, Kosuke.....	P4-2
Itazaki, Shiori.....	P3-55			Jozaki, Kosuke.....	P4-6
Ito, Daisuke	P5-53			Jozaki, Kosuke.....	P5-17
Ito, Haruka	P1-64			Jung, Jae-Min.....	P3-33
Ito, Hiroe.....	P4-14			Jung, Kyung Min.....	P6-71
Ito, Jun.....	YSS2-11				
Ito, Jun.....	P2-10				

J

Jamil, Mariam.....	P4-47
Jamsai, Duangporn.....	P2-28
Jan, Tong-Rong.....	YSS3-2
Jan, Tong-Rong.....	P2-104
Jang, Goo.....	C-25
Jang, Hwanhee	P4-18
Jang, Sun-Sik.....	P2-69

K

- Ka, Hakhyun C-9
 Ka, Hakhyun P4-18
 Kabayama, Yuka P3-61
 Kaczmarek, Monika M. P2-108
 Kaczmarek, Monika M. P4-31
 Kaczynski, Piotr P4-43
 Kaczynski, Piotr P4-44
 Kadota, Masayo P6-14
 Kaeoket, Kampon P2-64
 Kageyama, Atsuko P6-137
 Kakahara, Ayaka P6-22
 Kakiuchi-Yonezawa, Kazue P6-45
 Kalam, Sadaf Nusrat P4-3
 Kalthur, Guruprasad P3-99
 Kamada, Yuko P2-57
 Kamada, Yuko P2-58
 Kameda, Takashi YSS3-6
 Kameda, Takashi P4-16
 Kameyama, Yuichi P3-23
 Kamiie, Junichi P1-91
 Kamikawa, Mai P6-111
 Kamimura, Satoshi P1-5
 Kamimura, Satoshi P2-58
 Kamimura, Satoshi P3-84
 Kamimura, Satoshi P3-90
 Kamimura, Satoshi P6-69
 Kamio, Asuka P3-65
 Kamiya, Seitaro P3-86
 Kanai, Yoshiakira P2-88
 Kanai-Azuma, Masami P2-88
 Kanakkaparambil1, Raji P1-72
 Kaneda, Hideaki P6-1
 Kaneda, Masahiro P1-73
 Kaneda, Masahiro P2-39
 Kaneko, Hiroyuki P2-99
 Kaneko, Hiroyuki P6-110
 Kaneko, Takehito YSS1-10
 Kaneko, Takehito YSS3-4
 Kaneko, Takehito P3-54
 Kaneko, Takehito P3-66
 Kaneko, Takehito P3-68
 Kaneko, Takehito P6-4
 Kang, Dawon P1-69
 Kang, Jung Won P6-136
 Kang, Jungwon P5-39
 Kang, Man-Jong P6-9
 Kang, Man-Jong P6-10
 Kang, Sung Keun P1-80
 Kang, Sung-Sik P2-69
 Kang, Ting-Chieh P3-95
 Kang, Ting-Chieh P6-124
 Kanno, Chihiro P2-68
 Kansaku, Kazuki YSS1-1
 Kansaku, Kazuki P1-66
 Kansaku, Kazuki P1-108
 Kasa, Eszter P6-48
 Kasa, Eszter P6-103
 Kasahara, Yukiyo P1-65
 Kasahara, Yukiyo P1-116
 Kasai, Magosaburo P6-107
 Kasai, Yuri P2-72
 Kasai, Yuri P6-5
 Kasai, Yuri P6-74
 Kashima, Ami P1-47
 Kaspar, Vojtech P6-103
 Kassai, Hidetoshi P3-89
 Kaszewski, Jaroslaw P2-76
 Kaszewski, Jaroslaw P2-77
 Katagiri, Seiji P1-15
 Katagiri, Seiji P2-68
 Katagiri, Seiji P4-19
 Katagiri, Seiji P4-60
 Katen, Aimee L P2-111
 Kato, Hazuki P5-64
 Kato, Hiromi P3-10
 Kato, Kiyoko P6-47
 Kato, Kiyoko P6-55
 Kato, Nao P1-16
 Kato, Nao P1-65
 Kato, Nobuhiro P3-22
 Kato, Takako P5-27
 Kato, Takeshi P5-33
 Kato, Tomoko P6-15
 Kato, Yoko P6-82
 Kato, Yukio P5-27
 Kato, Yukio P5-80
 Kato, Yuzuru P2-35
 Katsumata, Yuki P2-72
 Kaune, Heidy P1-11
 Kawahara, Haruka YSS2-7
 Kawahara, Haruka P1-88
 Kawahara-Miki, Ryoka YSS3-7
 Kawahara-Miki, Ryoka P1-98
 Kawahara-Miki, Ryoka P4-24
 Kawahara-Miki, Ryouka P3-72
 Kawai, Hidehiko P3-22
 Kawai, Kiyotaka P6-87
 Kawai, Narumi P5-23
 Kawai, Tomoko P3-18
 Kawakami, Eri P2-4
 Kawaminami, Mitsumori P2-97
 Kawaminami, Mitsumori P5-11
 Kawamoto, Ikuo P6-6
 Kawamoto, Kazuaki P2-12
 Kawamoto, Riki P1-46
 Kawamura, Tadashi P5-66
 Kawamura, Wataru P6-65
 Kawano, Yoshihiro P6-56
 Kawasaki, Makoto P5-21
 Kawasaki, Toshihiro P2-12
 Kawase, Fumie P4-38
 Kawashima, Chiho P5-64
 Kawate, Noritoshi P5-46
 Kawate, Noritoshi P5-72
 Kawauchi, Akihiro P6-6
 Kayano, Mitsunori P4-50
 Kedzior, Sophie P3-102
 Kessler, Barbara P6-18
 Khalaj, Kasra P4-47
 Khalif, Ili Raja P6-128
 Khan, Faheem Ahmed P2-37
 Khan, Haroon Latif P2-74
 Khanthusaeng, Vilaivan P1-25
 Khanthusaeng, Vilaivan - P1-89
 Khillare, Gautam Sudamrao P5-4
 Khurana, Pooja P6-54
 Kiani, Faisal Ayub P2-66
 Kida, Katsuya P5-64
 Kielbik, Paula P2-76
 Kielbik, Paula P2-77
 Kikkawa, Fumitaka P1-16
 Kikkawa, Fumitaka P1-65
 Kikkawa, Fumitaka P1-111
 Kikkawa, Fumitaka P1-116
 Kikkawa, Fumitaka P5-75
 Kikuchi, Kazuhiro P2-99
 Kikuchi, Kazuhiro P3-92
 Kikuchi, Kazuhiro P6-88
 Kikuchi, Kazuhiro P6-91
 Kikuchi, Kazuhiro P6-110
 Kikuchi, Motohiro P1-118
 Kikuchi, Sumi P3-48
 Kikuchi, Takahiro P6-41
 Kim, Beom Sik P2-63
 Kim, Chang-Woon P1-69
 Kim, Dong Eon P2-63
 Kim, Dong Eon P3-43
 Kim, Dong Eon P6-77
 Kim, Dong Eon P6-112
 Kim, Dong-Hoon P6-66
 Kim, Eun Young P6-112
 Kim, Eunhye P6-46
 Kim, Eunhye P6-46
 Kim, Eun-Jin P1-69
 Kim, Eunsu P3-3
 Kim, Eun-Young P3-30
 Kim, Eun-Young P3-32
 Kim, Eun-Young P3-97
 Kim, Eun-Young P6-16
 Kim, Eun-Young P6-80
 Kim, Eun-Young P6-81
 Kim, Eun-Young P6-130
 Kim, Eun-Young P6-131
 Kim, Geon A P1-31
 Kim, Geon A P1-34
 Kim, Geon A P1-80
 Kim, Geon A P3-29
 Kim, Geon A P6-19
 Kim, Gyeong Yeob P6-77
 Kim, Hyeong-Jong C-25
 Kim, Hyoung-Joo P3-31
 Kim, Hyoung-Joo P6-13
 Kim, Hyoung-Joo P2-69
 Kim, Hyunil P3-31
 Kim, Hyunil P6-13
 Kim, Hyunil P6-19
 Kim, In-Su P3-33
 Kim, Ji Ho P6-19
 Kim, Jinhoi P3-3
 Kim, Jin-Woo P3-33
 Kim, Jin-Woo P6-9

Kim, Ji-Su.....	P3-34	Kishigami, Satoshi.....	P3-90	Komatsu, Kouji.....	P1-17
Kim, Ji-Su.....	P3-91	Kishigami, Satoshi.....	P6-68	Komeya, Mitsuru.....	P1-58
Kim, Joo-Young.....	P3-34	Kishigami, Satoshi.....	P6-69	Komyo, Nao.....	P5-55
Kim, Joo-Young.....	P3-91	Kishigami, Satoshi.....	P6-76	Kon, Hiroe.....	P2-43
Kim, Min Jung.....	P1-34	Kiso, Yasuo.....	P4-4	Kon, Shinnosuke.....	P3-81
Kim, Min Kyu.....	P2-63	Kitagawa, Ami.....	P6-121	Kondo, Akane.....	P5-33
Kim, Min Kyu.....	P3-43	Kitahara, Go.....	YSS1-12	Kondo, Akane.....	P5-80
Kim, Min Kyu.....	P6-77	Kitahara, Go.....	P3-98	Kondo, Moeri.....	P5-64
Kim, Min Kyu.....	P6-112	Kitahara, Go.....	P6-114	Kondoh, Gen.....	P3-87
Kim, Min-Ji.....	P3-33	Kitajima, Kahoru.....	P6-6	Kong, Il-Keun.....	P1-69
Kim, Min-Ji.....	P6-9	Kitajima, Tomoya S.....	P6-70	Kong, Shuangbo.....	C-8
Kim, Minjung.....	P6-132	Kitamura, Wataru.....	P4-60	Konishi, Masato.....	P3-78
Kim, Mirae.....	P6-51	Kitano, Satsuki.....	P6-31	Konno, Shunsuke.....	P1-5
Kim, Nam Hyung.....	P1-35	Kiyozumi, Daiji.....	P2-105	Konno, Shunsuke.....	P1-5
Kim, Nam Hyung.....	P3-46	Kiyozumi, Daiji.....	P4-55	Konno, Toshihiro.....	P4-38
Kim, Namhyung.....	YSS1-9	Kizaki, Keiichiro.....	P3-79	Kono, Aoi.....	P3-42
Kim, Namhyung.....	P3-58	Kizaki, Keiichiro.....	P4-32	Kono, Tomohiro.....	YSS3-9
Kim, Nam-Hyung.....	YSS1-8	Klathur, Guruprasad.....	P3-21	Kono, Tomohiro.....	P1-30
Kim, Nam-Hyung.....	P3-38	Klein, Cristoph A.....	P6-134	Kono, Tomohiro.....	P1-40
Kim, Nam-Hyung.....	P3-57	Kleinert, Anastasia Christine.....	P2-98	Kono, Tomohiro.....	P3-65
Kim, Sang Kyung.....	P3-80	Kliesch, Sabine.....	P2-32	Kono, Tomohiro.....	P4-40
Kim, Se Eun.....	P6-9	Kliesch, Sabine.....	P2-96	Kono, Tomohiro.....	P6-43
Kim, Se Eun.....	P6-10	Klymiuk, Nikolai.....	P6-18	Koo, Deog-Bon.....	P3-33
Kim, Seokjoong.....	P6-19	Knight, Philip G.....	P1-26	Koo, Deog-Bon.....	P6-9
Kim, So Yeon.....	P3-73	Ko, Nayoung.....	P3-31	Koo, Deog-Bon.....	P6-10
Kim, So Yeon.....	P6-136	Ko, Nayoung.....	P6-13	Koopman, Peter.....	P2-20
Kim, Soyeon.....	P5-39	Kobayashi, Eiji.....	P2-39	Koopman, Peter.....	P2-78
Kim, Sung Bok.....	P3-43	Kobayashi, Hiroki.....	P6-31	Koshimoto, Chihiro.....	P6-56
Kim, Sun-Uk.....	P3-34	Kobayashi, Hisato.....	P3-65	Kotze, Antoinette.....	P2-52
Kim, Sun-Uk.....	P3-91	Kobayashi, Hisato.....	P6-23	Kou, Xiaochen.....	P6-78
Kim, Ui-Hyung.....	P2-69	Kobayashi, Ikuo.....	YSS1-12	Koustas, George.....	P6-99
Kimura, Hiroshi.....	P1-58	Kobayashi, Ikuo.....	P6-114	Kowalczyk-Zieba, Ilona.....	P3-75
Kimura, Koji.....	YSS1-2	Kobayashi, Kenichi.....	P6-6	Kowalczyk-Zieba, Ilona.....	P3-76
Kimura, Koji.....	YSS2-5	Kobayashi, Kimio.....	P2-14	Kowalczyk-Zieba, Ilona.....	P3-77
Kimura, Koji.....	YSS2-6	Kobayashi, Maiko.....	P5-79	Kowalczyk-Zieba, Ilona.....	P5-63
Kimura, Koji.....	YSS3-7	Kobayashi, Masayuki.....	P6-40	Kowalczyk-Zieba, Ilona.....	P5-68
Kimura, Koji.....	P1-70	Kobayashi, Masayuki.....	P6-41	Koyama, Keisuke.....	P1-13
Kimura, Koji.....	P1-82	Kobayashi, Norio.....	P1-73	Koyama, Keisuke.....	P4-56
Kimura, Koji.....	P1-86	Kobayashi, Norio.....	P2-110	Koyama, Takamasa.....	P5-79
Kimura, Koji.....	P1-87	Kobayashi, Satoru.....	P3-64	Koyama, Takeshi.....	P1-13
Kimura, Koji.....	P4-22	Kobayashi, Yoshihiko.....	P5-57	Kozai, Keisuke.....	Plenary6
Kimura, Koji.....	P4-24	Koga, Yumiko.....	P2-14	Kozak, Leslie P.....	P2-108
Kimura, Koji.....	P4-25	Kogasaka, Yuhei.....	P6-111	Kozdrowski, Roland.....	P5-56
Kimura, Koji.....	P4-48	Kogiso, Chikara.....	P1-39	Kraisoon, Aree -.....	P1-89
Kimura, Koji.....	P5-57	Kogiso, Chikara.....	P6-73	Kretser, David M De.....	P5-10
Kimura, Koji.....	P5-62	Kogram, Nattawut.....	P1-25	Kridli, Rami T.....	P4-47
Kimura, Naoko.....	YSS3-3	Kohama, Namiko.....	P5-72	Kriseman, Maya L.....	P4-12
Kimura, Naoko.....	P1-19	Kohda, Takashi.....	P2-58	Kubo, Hirokazu.....	P6-31
Kimura, Naoko.....	P3-24	Koike, Tasuku.....	P3-65	Kubo, Tomoaki.....	YSS1-2
Kimura, Naoko.....	P3-62	Kojima, Junya.....	P4-14	Kubo, Tomoaki.....	P1-87
Kimura, Naoko.....	P6-135	Kojima, Takatoshi.....	P6-125	Kubo, Tomoaki.....	P4-58
Kin, Airi.....	YSS1-1	Kojima, Takumi.....	P1-73	Kubo, Tomoaki.....	P4-59
Kin, Airi.....	P1-66	Kojima-Kita, Kanako.....	P2-36	Kubo, Tomoaki.....	P6-121
Kino, Erina.....	P3-98	Kokubu, Daichi.....	P1-110	Kubota, Hiroshi.....	P6-45
Kinukawa, Masashi.....	P2-48	Kokubu, Daichi.....	P2-53	Kubota, Kaiyu.....	Plenary6
Kinukawa, Masashi.....	P2-62	Kokubu, Daichi.....	P2-101	Kubota, Kaiyu.....	P4-14
Kishi, Hiroshi.....	YSS3-6	Kollipara, Avinash.....	YSS2-12	Kudoh, Ken-Ichi.....	P3-23
Kishi, Hiroshi.....	P4-16	Kollipara, Avinash.....	P2-79	Kumamoto, Soichiro.....	P3-65
Kishi, Kasane.....	P2-88	Kollipara, Avinash.....	P2-80	Kumar, Pratap.....	P3-99
Kishigami, Satoshi.....	P3-16	Kollipara, Avinash.....	P2-81	Kumari, Mrinalini.....	P2-103
Kishigami, Satoshi.....	P3-19	Komatsu, Kouji.....	P1-16	Kume, Shinichi.....	P3-41

- Kuo, Hsiao-Yun.....P6-44
 Kuo, Pao-Lin.....P2-24
 Kurane, Tomomi.....P4-38
 Kurasaka, Mao.....YSS3-4
 Kurasaka, Mao.....P3-68
 Kuriwaki, Ryota.....YSS1-7
 Kuriwaki, Ryota.....P2-92
 Kurohmaru, Masamichi.....P2-88
 Kurokawa, Maho.....P4-48
 Kuroki, Kota.....P2-100
 Kuroki, Shunsuke.....YSS2-9
 Kuroki, Shunsuke.....P2-6
 Kurome, Mayuko.....P6-18
 Kurosaka, Satoshi.....P3-9
 Kurotaki, Yoko.....P6-137
 Kurotsuchi, Shozo.....P5-73
 Kurusu, Shiro.....P2-97
 Kurusu, Shiro.....P5-11
 Kusaka, Hiromi.....P1-118
 Kusakabe, Ken Takeshi.....P4-4
 Kusakari, Naohito.....P1-13
 Kusama, Kazuya.....P4-7
 Kuse, Mariko.....P4-22
 Kusahara, Natsuki.....P6-40
 Kuwabara, Naoko.....P4-15
 Kuwahara, Akira.....P5-33
 Kuwahara, Masayoshi.....P5-67
 Kuwahara, Yasushi.....P2-34
 Kuwayama, Hiroki.....P6-68
 Kuwayama, Hiroki.....P6-69
 Kuwayama, Hiroki.....P6-76
 Kuwayama, Masashige.....P6-95
 Kuwayama, Takehito.....YSS1-1
 Kuwayama, Takehito.....YSS2-4
 Kuwayama, Takehito.....YSS2-7
 Kuwayama, Takehito.....YSS3-7
 Kuwayama, Takehito.....P1-66
 Kuwayama, Takehito.....P1-74
 Kuwayama, Takehito.....P1-75
 Kuwayama, Takehito.....P1-88
 Kuwayama, Takehito.....P1-98
 Kuwayama, Takehito.....P1-99
 Kuwayama, Takehito.....P1-100
 Kuwayama, Takehito.....P1-108
 Kuwayama, Takehito.....P4-24
 Kuwayama, Takehito.....P3-72
 Kwiatkowska, Joanna.....P5-41
 Kwon, Jeongwoo.....YSS1-9
 Kwon, Jeongwoo.....P3-58
 Kydd, Julia H.....P1-90
 Kyogoku, Hirohisa.....P6-70
- L**
- Lai, F Anthony.....P3-83
 Lai, Lihui.....P5-9
 Lai, Tsung-Hsuan.....P2-24
 Lai, Yu-Hua.....YSS3-2
 Lai, Yu-Hua.....YSS3-11
 Lai, Yu-Hua.....P2-104
 Lai, Yu-Hua.....P5-6
- Laible, Gotz.....P6-3
 Laird, Mhairi.....P1-21
 Laird, Mhairi.....P1-26
 Lamas-Toranzo, Ismael.....P3-8
 Lammoglia, Miguel Angel.....P3-51
 Lancto, Cheryl A.....S-5
 Lane, Simon I.R.....P3-1
 Langford, Michael.....C-14
 Larasati, Tamara.....P2-36
 Laskowski, Denise.....P3-101
 Latham, Keith.....C-7
 Lavea, Cathy F.....P1-72
 Le, Rongrong.....P6-78
 Lea, Richard G.....P5-35
 Lee, Ah Reum.....P6-68
 Lee, Bo Ram.....P6-58
 Lee, Bonn.....P1-106
 Lee, Bonn.....P4-9
 Lee, Bonn.....P4-52
 Lee, Bonn.....P6-49
 Lee, Byeong Chun.....P1-31
 Lee, Byeong Chun.....P1-34
 Lee, Byeong Chun.....P1-80
 Lee, Byeong Chun.....P3-29
 Lee, Chang Woo.....P6-129
 Lee, Chang Woo.....P6-133
 Lee, Choong-Il.....C-25
 Lee, Da-Hye.....P1-101
 Lee, Dong-Keun.....P1-69
 Lee, Eun Ji.....P2-63
 Lee, Eun Ji.....P3-43
 Lee, Eun Ji.....P6-77
 Lee, Eun Ji.....P6-112
 Lee, Hoi Chang.....P3-82
 Lee, Hong Jo.....Plenary5
 Lee, Hong Jo.....P6-58
 Lee, Jae Eun.....P6-136
 Lee, Jaeun.....P5-39
 Lee, Jae-Hwan.....P1-106
 Lee, Jae-Hwan.....P4-9
 Lee, Jae-Hwan.....P4-52
 Lee, Jae-Hwan.....P6-49
 Lee, Ji Hye.....P6-77
 Lee, Jian.....C-27
 Lee, Jian.....P2-65
 Lee, Jibak.....C-5
 Lee, Jibak.....P2-18
 Lee, Ji-Hyun.....C-25
 Lee, Jong-Hee.....P3-34
 Lee, Jong-Hee.....P3-91
 Lee, Joo Bin.....P6-136
 Lee, Joobin.....P3-27
 Lee, Joobin.....P5-39
 Lee, Kyung Bon.....P6-112
 Lee, Kyung Youn.....P6-58
 Lee, Myoung-Sook.....P2-69
 Lee, Sanghoon.....P1-31
 Lee, Sanghoon.....P3-29
 Lee, Sanghoon.....P6-19
 Lee, Sang-Myeong.....YSS3-10
 Lee, Sang-Myeong.....P3-35
- Lee, Sang-Myeong.....P4-54
 Lee, Seok Hee.....P1-34
 Lee, Seok-Dong.....P2-69
 Lee, Seung-Eun.....P3-30
 Lee, Seung-Eun.....P3-32
 Lee, Seung-Eun.....P3-97
 Lee, Seung-Eun.....P6-16
 Lee, Seung-Eun.....P6-81
 Lee, Seung-Eun.....P6-130
 Lee, Seung-Eun.....P6-131
 Lee, Seunghoon.....P6-66
 Lee, Song-Jeong.....C-25
 Lee, Yongjin.....P3-31
 Lee, Yongjin.....P6-13
 Lehloenya, Khoboso Christina.....P2-52
 Lei, Lei.....P3-74
 Lei, Zhihai.....P1-67
 Li, Ai.....P6-90
 Li, Bojiang.....P5-38
 Li, Chong.....P3-71
 Li, Chong.....P6-79
 Li, Chuan-Yong.....P2-56
 Li, Chunmei.....P2-47
 Li, Chunmei.....P2-54
 Li, Cuimei.....P5-8
 Li, Fangzheng.....P3-69
 Li, Fengzhe.....P1-96
 Li, Fengzhe.....P1-97
 Li, Fengzhe.....P4-49
 Li, Hailing.....P6-105
 Li, Hui.....P1-59
 Li, Hui.....P6-78
 Li, Jiexin.....P6-67
 Li, Jingyi.....P3-67
 Li, Jingyu.....P3-60
 Li, Junhong.....P6-25
 Li, Junjie.....P6-67
 Li, Junjie.....P6-67
 Li, Junyou.....P5-37
 Li, Lei.....C-20
 Li, Li.....P6-3
 Li, Mei Chun.....P2-55
 Li, Mingzhe.....P1-48
 Li, Na.....P2-112
 Li, Qian.....P6-17
 Li, Qian.....P6-103
 Li, Sheng-Hsiang.....YSS3-11
 Li, Sheng-Hsiang.....P5-6
 Li, Shi-Yun Catherine.....P1-115
 Li, Tao Tao.....P2-89
 Li, Wei.....C-17
 Li, Wenjiao.....P4-51
 Li, Wenzhi.....P3-7
 Li, Xi He.....P6-36
 Li, Xiangping.....P3-44
 Li, Xiao.....P2-56
 Li, Xihe.....P6-37
 Li, Xihe.....P6-75
 Li, Yan Sen.....P2-55
 Li, Yan-Jiao.....P1-92
 Li, Yansen.....P2-47

- Li, Yansen P2-54
 Li, Yin X..... P5-49
 Li, Yining C-28
 Li, Yuanyuan P1-59
 Li, Zhaojian..... P2-47
 Li, Zhenzhen P2-53
 Li, Zhongshu..... P3-11
 Li, Zhongshu..... P3-14
 Li, Ziyi..... P6-85
 Liang, Cheng-Guang..... P1-92
 Liang, Hong-Ju YSS3-2
 Liang, Hong-Ju P2-104
 Liang, Qiu-Xia P1-27
 Liang, Qiu-Xia P2-17
 Liang, Shuang P3-46
 Liang, Yanfeng P6-75
 Liang, Yuanyuan..... P3-52
 Liao, Yu-Jing P3-95
 Liao, Yu-Jing P6-24
 Liew, Jason P1-103
 Liew, Seng Hii..... P1-23
 Lihui, Lai P5-78
 Lillycrop, Karen A..... P1-112
 Lim, Jae Sam..... P3-43
 Lim, Seung Bum..... P3-43
 Lin, Chih-Jen..... P3-8
 Lin, Fei..... P2-17
 Lin, Fei-Hu..... P2-56
 Lin, Hsiu-Lien P2-73
 Lin, Pengfei P2-90
 Lin, Tao P5-39
 Lin, Tao P6-136
 Lin, Ying-Hung P2-24
 Lin, Ying-Hung P2-86
 Lin, Yung-Chih P2-86
 Lindsay, Laura A P4-1
 Lindsay, Laura A P4-5
 Lindsay, Laura A P4-13
 Linh, Nguyen Viet..... P3-92
 Liou, Jenn-Fa P6-24
 Listijono, Dave R P1-115
 Liu, Bing P6-100
 Liu, Chang P5-59
 Liu, Chao..... P2-91
 Liu, Guoshi P3-20
 Liu, Hai Xing P3-15
 Liu, Hai Xing P3-17
 Liu, Haixing P3-11
 Liu, Honglin P5-38
 Liu, Hongyu P1-63
 Liu, Hui P5-2
 Liu, Hung-Ting..... YSS3-2
 Liu, Hung-Ting..... P2-104
 Liu, Jia P6-37
 Liu, Jin P1-107
 Liu, Jin P1-107
 Liu, Jin P1-109
 Liu, Jinsha P3-88
 Liu, Jinsha P6-92
 Liu, Jun..... YSS2-8
 Liu, Jun..... P1-102
 Liu, Kaiqing P5-38
 Liu, Ming..... C-15
 Liu, Pen Tao..... P6-36
 Liu, Pentao P6-75
 Liu, Qing Xue..... P1-10
 Liu, Qingyou P3-44
 Liu, Shichao..... P3-74
 Liu, Tengfei..... P2-49
 Liu, Wei..... P1-54
 Liu, Weimin..... P4-39
 Liu, Wenjing..... P2-13
 Liu, Wenqiang..... P3-67
 Liu, Wenqiang..... P6-78
 Liu, Xiaoyu P3-67
 Liu, Xiaoyu..... P6-78
 Liu, Ximei P6-3
 Liu, Xinyu P4-47
 Liu, Yan P1-114
 Liu, Yanlei..... C-15
 Liu, Yue P2-87
 Liu, Yueshi..... P6-37
 Liu, Zhonghua..... P3-60
 Liu, Zhonghua..... P3-74
 Lo, Belinda K.M. P1-9
 Lo, Belinda Km..... P1-11
 Loi, Pasqualino..... P2-40
 Loi, Pasqualino..... P3-93
 Loi, Pasqualino..... P6-84
 Lokman, P. Mark..... P5-2
 Looijenga, Leendert L.H..... P2-78
 Lopes, Federica..... P1-123
 Loveland, Kate A P5-10
 Loveland, Kate A.L..... C-6
 Loveland, Kate L..... P2-98
 Low, Walter C..... S-5
 Lu, Huifen C-15
 Lu, Jianping..... P1-33
 Lu, Wenfa..... P1-63
 Lu, Wenfa..... P4-63
 Lu, Wenfa..... P5-59
 Lu, Xin P6-134
 Lu, Yajuan P1-54
 Lu, Yujie P1-52
 Lujic, Jelena..... P6-103
 Lujic, Jelena Zoran..... P6-48
 Luo, Lingfeng P1-109
 Luo, Ming-Jiu..... P2-56
 Luo, Xiaofei P6-100
 Lv, Dongying..... P3-20
 Lynch, Eloise Wj..... P5-30
- M**
- Ma, Dongxue..... P3-14
 Ma, Haojia..... P6-90
 Ma, Ji You P2-89
 Ma, Jinbiao..... C-11
 Ma, Xue-Shan P1-27
 Ma, Xue-Shan P1-59
 Ma, Xue-Shan P2-17
 Macente, Beatrice I. P6-115
 Maciel, Giovana S. P6-115
 Madawala, Romanthi J P4-5
 Madawala, Romanthi Jessica..... P4-17
 Maeda, Kazuhisa..... P5-33
 Maeda, Kazuhisa..... P5-80
 Maeda, Kei-Ichiro YSS3-11
 Maeda, Kei-Ichiro YSS3-12
 Maeda, Kei-Ichiro P3-105
 Maeda, Kei-Ichiro P5-6
 Maeda, Kei-Ichiro P5-15
 Maeda, Kei-Ichiro P5-16
 Maeda, Kei-Ichiro P5-18
 Maeda, Kei-Ichiro P5-20
 Maeda, Kei-Ichiro P5-22
 Maeda, Kei-Ichiro P5-28
 Maeda, Kei-Ichiro P5-34
 Maeda, Kei-Ichiro P5-48
 Maeda, Kei-Ichiro P5-50
 Maeda, Kei-Ichiro P5-53
 Maeda, Kei-Ichiro P5-67
 Maeda, Shingo P5-66
 Maeda, Shizuko..... P5-66
 Maekawa, Ryo..... P4-2
 Maekawa, Ryo..... P4-6
 Maekawa, Ryo..... P5-17
 Magata, Fumie..... P3-78
 Mahadevaiah, Shantha K. P6-138
 Mahasawangkul, Sittidet P2-70
 Makalowski, Wojciech..... P3-61
 Malejczyk, Jacek..... P4-11
 Malysz-Cymborska, Izabela P5-44
 Mann, George E P4-20
 Mao, Dagan..... P1-14
 Marinovic, Zoran..... P6-48
 Marinovic, Zoran..... P6-103
 Maruo, China YSS2-5
 Maruo, China P1-82
 Maruyama, Takashi P5-12
 Maruyama, Takashi P5-21
 Masaki, Kaito..... YSS2-9
 Masaki, Kaito..... YSS2-10
 Masaki, Kaito..... P2-6
 Masaki, Kaito..... P2-8
 Masaki, Nagaya..... P6-20
 Masanova, Vlasta..... P5-29
 Mashimo, Tomoji S-3
 Masko, Malgorzata P6-117
 Masubuchi, Satoru P1-17
 Masuda, Hiroshi P2-59
 Masuda, Kanako..... P5-11
 Matoba, Shogo..... P2-14
 Matoba, Shogo..... P4-10
 Matoba, Shogo..... P6-1
 Matsubara, Kazuei..... P6-57
 Matsuda, Fuko YSS3-11
 Matsuda, Fuko P5-6
 Matsuda, Fuko YSS3-12
 Matsuda, Fuko P3-105
 Matsuda, Fuko P5-15
 Matsuda, Fuko P5-16
 Matsuda, Fuko P5-18

Matsuda, Fuko.....	P5-20	Mayila, Yiliyasi.....	P5-13	Minegishi, Takashi.....	P4-16
Matsuda, Fuko.....	P5-48	Mayila, Yiliyasi.....	P5-32	Ming, Jia.....	P3-7
Matsuda, Fuko.....	P5-51	Maylem, Excel Rio S.....	P5-69	Minobe, Kouhei.....	P3-9
Matsuda, Fuko.....	P5-53	Maylem, Excel Rio S.....	P5-71	Mitani, Tasuku.....	P3-9
Matsuda, Fuko.....	P5-62	Maylem, Excel Rio Santos.....	P2-71	Miura, Fumihito.....	P6-27
Matsuda, Fuko.....	P5-67	Mccoard, Sue.....	P4-46	Miura, Hiroshi.....	P1-118
Matsuda, Hideo.....	P1-73	Mcdermid, Heather E.....	P2-38	Miura, Ryotaro.....	P1-29
Matsuda, Hideo.....	P3-28	Mcgrew, Michael J.....	P6-59	Miura, Ryotaro.....	P4-50
Matsuda, Hideo.....	P6-94	Mckeegan, Paul J.....	P1-33	Miyachi, Hitoshi.....	P6-31
Matsuda, Hideo.....	P6-113	Mclaughlin, Eileen.....	YSS2-12	Miyagawa, Yasushi.....	P3-86
Matsuhashi, Tamako.....	P3-10	Mclaughlin, Eileen.....	P2-80	Miyamoto, Akio.....	YSS2-7
Matsuhashi, Tamako.....	P3-12	Mclaughlin, Eileen A.....	P1-12	Miyamoto, Akio.....	P1-88
Matsui, Motozumi.....	P1-29	Mclaughlin, Eileen A.....	P2-79	Miyamoto, Akio.....	P3-85
Matsui, Motozumi.....	P4-42	Mclaughlin, Eileen A.....	P2-102	Miyamoto, Kei.....	P3-10
Matsui, Motozumi.....	P4-50	Mclaughlin, Eileen A.....	C-6	Miyamoto, Kei.....	P3-12
Matsui, Motozumi.....	P5-64	Mclaughlin, Eileen Anne.....	P2-81	Miyamoto, Takuma.....	P3-18
Matsui, Sumika.....	P5-33	Mclaughlin, Yasmin.....	P1-83	Miyano, Takashi.....	Plenary1
Matsui, Yoshitaka.....	P1-13	Mcneel, Anthony K.....	L-1	Miyano, Takashi.....	P1-45
Matsukawa, Kazutsugu.....	P3-42	Mcpherson, Nicole O.....	YSS1-3	Miyano, Takashi.....	P1-46
Matsukawa, Kazutsugu.....	P6-102	Mcpherson, Nicole O.....	P2-106	Miyano, Takashi.....	P1-56
Matsukawa, Kazutsugu.....	P6-107	Meguro, Kanna.....	YSS2-11	Miyashita, Minoru.....	P6-73
Matsuki, Naoaki.....	P5-66	Meguro, Kanna.....	P2-10	Miyata, Haruhiko.....	P2-30
Matsumoto, Haruka.....	P6-121	Meinhardt, Andreas.....	P2-98	Miyata, Satoshi.....	YSS3-3
Matsumoto, Hiromichi.....	YSS1-11	Meinhardt, Andreas.....	P5-10	Miyata, Satoshi.....	P3-62
Matsumoto, Hiromichi.....	P4-35	Meinsohn, Marie-Charlotte.....	P1-79	Miyauchi, Sachi.....	P2-18
Matsumoto, Kazuya.....	P3-10	Mendoza, Tamra.....	P2-108	Miyazaki, Hitoshi.....	P1-110
Matsumoto, Kazuya.....	P3-12	Meng, Chun H.....	P5-49	Miyazaki, Hitoshi.....	P2-53
Matsumoto, Kei.....	P6-20	Meng, Chunhua.....	P5-47	Miyazaki, Hitoshi.....	P2-101
Matsumoto, Masaki.....	P2-35	Meng, Chunhua.....	P5-47	Mizutani, Eiji.....	P2-58
Matsumoto, Shoma.....	P6-34	Meng, Nana.....	P6-67	Mlynarcikova, Alzbeta Bujnakova.....	P5-29
Matsumura, Shigeru.....	P6-31	Meng, Tie-Gang.....	P1-27	Mochida, Keiji.....	P3-88
Matsumura, Takafumi.....	P2-15	Meng, Tie-Gang.....	P2-17	Mochida, Keiji.....	P4-29
Matsunari, Hitomi.....	P2-72	Merriner, D. Jo.....	P2-29	Mochida, Keiji.....	P6-1
Matsunari, Hitomi.....	P3-55	Merriner, Jo.....	P2-28	Mochida, Keiji.....	P6-126
Matsunari, Hitomi.....	P6-5	Mescht, Morne Van Der.....	P5-35	Mochimaru, Yuta.....	P5-7
Matsunari, Hitomi.....	P6-11	Metson, Jean.....	P1-49	Mochizuki, Masato.....	P3-16
Matsunari, Hitomi.....	P6-18	Meyers, Stuart.....	P6-106	Modlinski, Jacek Andrzej.....	P6-84
Matsunari, Hitomi.....	P6-20	Miao, Yi-Liang.....	P3-47	Mohammed, Amal.....	P4-20
Matsunari, Hitomi.....	P6-74	Miao, Yilong.....	P1-55	Moley, Kelle H.....	C-7
Matsuno, Yuta.....	P1-62	Mihalas, Bettina P.....	P2-102	Mongue, Andrew J.....	YSS3-1
Matsushita, Jun.....	P1-122	Mihara, Yumiko.....	P4-2	Mongue, Andrew J.....	P2-50
Matsushita, Jun.....	P6-6	Mihara, Yumiko.....	P4-6	Monsivais, Diana.....	P4-12
Matsushita, Mayumi.....	YSS2-7	Minabe, Shiori.....	YSS3-11	Moon, Anna.....	P3-83
Matsushita, Mayumi.....	P1-88	Minabe, Shiori.....	YSS3-12	Moon, Joonho.....	P6-19
Matsuura, Takanori.....	P5-21	Minabe, Shiori.....	P4-25	Moore, Chad Lewis.....	P4-13
Matsuyama, Shuichi.....	YSS2-7	Minabe, Shiori.....	P5-6	Moreton, Joanna.....	P2-109
Matsuyama, Shuichi.....	YSS3-7	Minabe, Shiori.....	P5-15	Mori, Ayaka.....	P6-22
Matsuyama, Shuichi.....	P1-88	Minabe, Shiori.....	P5-16	Mori, Miyuki.....	P4-21
Matsuyama, Shuichi.....	P4-24	Minabe, Shiori.....	P5-18	Mori, Yoshihiro.....	P3-9
Matsuyama, Shuichi.....	P4-25	Minabe, Shiori.....	P5-28	Morimoto, Yoshiharu.....	P1-38
Matsuyama, Shuichi.....	P5-62	Minabe, Shiori.....	P5-34	Morimoto, Yoshiharu.....	P3-50
Matsuyama, Shuichi.....	P5-65	Minabe, Shiori.....	P5-48	Morine, Mikio.....	P5-80
Matsuzaki, Toshiya.....	J-1	Minagawa, Chisato.....	P5-60	Morishige, Daisaku.....	P6-95
Matsuzaki, Toshiya.....	P5-13	Minagawa, Shuto.....	P3-39	Morita, Kohtarō.....	P3-10
Matsuzaki, Toshiya.....	P5-32	Minagawa, Shuto.....	P3-48	Morita, Kohtarō.....	P3-12
Matsuzaki, Toshiya.....	P5-33	Minagawa, Shuto.....	P3-59	Morita, Sumiyo.....	P6-11
Matyba, Piotr.....	P4-62	Minami, Naojiro.....	YSS1-10	Moritz, Karen M.....	P1-103
Matzuk, Martin M.....	P2-35	Minami, Naojiro.....	YSS3-4	Moriyama, Ryutaro.....	P2-25
Matzuk, Martin M.....	P2-19	Minami, Naojiro.....	P3-66	Moriyasu, Satoru.....	P3-56
Matzuk, Martin M.....	P4-12	Minami, Naojiro.....	P3-68	Moriyasu, Satoru.....	P4-56
May, Jeffrey V.....	J-2	Minegishi, Takashi.....	YSS3-6	Moriyoshi, Masaharu.....	P4-60

Morohaku, Kanako.....	P1-30	Nagasawa, Keiya.....	P2-88	Nakano, Kazuaki.....	P6-11
Morohaku, Kanako.....	P6-43	Nagasawa, Takumi.....	YSS3-6	Nakano, Kazuaki.....	P6-18
Morohoshi, Kazunori.....	P5-78	Nagasawa, Takumi.....	P4-16	Nakano, Kazuaki.....	P6-20
Motohashi, Hideyuki.....	P6-12	Nagashima, Hiroshi.....	S-1	Nakano, Kazuaki.....	P6-74
Motojima, Yasuhito.....	P5-12	Nagashima, Hiroshi.....	P2-72	Nakao, Satohiro.....	P2-46
Motojima, Yasuhito.....	P5-21	Nagashima, Hiroshi.....	P3-55	Nakaoka, Yoshiharu.....	P1-38
Mukoujima, Koushi.....	P2-67	Nagashima, Hiroshi.....	P6-5	Nakaoku, Daichi.....	P5-80
Mukunoki, Ayumi.....	P6-101	Nagashima, Hiroshi.....	P6-11	Nakashiba, Toshiaki.....	P6-14
Mulvey, Peter.....	YSS2-12	Nagashima, Hiroshi.....	P6-18	Nakashima, Kenichi.....	P6-14
Mulvey, Peter.....	P2-79	Nagashima, Hiroshi.....	P6-20	Nakashima, Kinichi.....	P6-27
Mulvey, Peter.....	P2-80	Nagashima, Hiroshi.....	P6-74	Nakata, Hatsumi.....	P6-14
Munakata, Yasuhisa.....	P1-75	Nagata, Maria P. B.....	P3-96	Nakatani, Terumi.....	P6-12
Munakata, Yasuhisa.....	P3-72	Nagata, Maria Portia.....	P6-94	Nakaya, Masataka.....	P3-9
Muncaster, Simon.....	P5-2	Nagatomo, Hiroaki.....	P2-58	Nam, Yoonseok.....	P6-66
Murai, Hitoshi.....	P6-73	Nagatomo, Hiroaki.....	P3-84	Nambo, Yasuo.....	P5-55
Murakami, Sho.....	P5-7	Nagatomo, Hiroaki.....	P3-90	Nandi, Sunil.....	P6-59
Murase, Harutaka.....	P5-55	Nagatomo, Hiroaki.....	P6-104	Naniwa, Yousuke.....	P2-48
Murase, Tetsuma.....	P2-34	Nagaya, Masaki.....	P6-18	Naniwa, Yousuke.....	P2-62
Murase, Tetsuma.....	P2-67	Nagaya, Masaki.....	P6-74	Naseer, Zahid.....	P2-66
Murase, Tomohiko.....	P1-16	Nagayama, Suminori.....	P5-1	Nasmyth, Kim.....	P1-49
Murase, Tomohiko.....	P1-65	Nagyova, Eva.....	P1-78	Natale, David.....	C-14
Murase, Tomohiko.....	P1-111	Nahar, Takukder Nurun.....	P6-116	Navanukraw, Chainarong.....	P1-25
Murase, Tomohiko.....	P1-116	Naito, Akira.....	P3-56	Navanukraw, Chainarong.....	P1-89
Murase, Tomohiko.....	P5-75	Naito, Aoba.....	YSS2-7	Nedambale, Tshimangadzo Lucky.....	P2-52
Murata, Takehide.....	P6-14	Naito, Aoba.....	P1-88	Negishi, Jun.....	P5-1
Murawski, Maciej.....	P5-42	Naito, Kunihiko.....	P1-62	Nelson, Sarah J.....	P1-20
Murayama, Yuki.....	P6-95	Naito, Kunihiko.....	P1-64	Nephawe, Khathutshelo Agree.....	P2-52
Murphy, Bruce D.....	P1-79	Naito, Kunihiko.....	P6-17	Nesengani, Lucky T.....	P4-63
Murphy, Christopher.....	P4-17	Naito, Yuki.....	P3-64	Ngo, Brian.....	P4-47
Murphy, Christopher R.....	P4-1	Najmula, Joanna.....	P4-31	Nguyen, Hong Pt.....	P4-33
Murphy, Christopher R.....	P4-5	Nakade, Koji.....	P6-14	Nguyen, Phuoc Xuan.....	P1-16
Murphy, Christopher R.....	P4-13	Nakagata, Naomi.....	P2-46	Nguyen, Phuoc Xuan.....	P5-75
Musha, Shiori.....	P5-1	Nakagata, Naomi.....	P2-60	Nguyen, Quynh-Nhu.....	P1-23
Mushafi, Ahmed Aedh A Al.....	P6-29	Nakagata, Naomi.....	P6-101	Nguyen, Thanh Q. Dang.....	P2-99
Muto, Masanaga.....	Plenary6	Nakagawa, Norio.....	YSS3-6	Nguyen, Van Khanh.....	P6-93
Muto, Masanaga.....	P4-55	Nakagawa, Norio.....	P4-16	Nguyen, Vivian V.....	P2-38
N					
Na, Jie.....	P3-7	Nakagawa, Takahiro.....	P6-6	Nhung, Nguyen Thi.....	P3-92
Nabenishi, Hisashi.....	P6-109	Nakajima, Ai.....	P6-43	Ni, Jianhong.....	P6-119
Nagahara, Tomoki.....	P1-37	Nakajima, Yuki.....	P6-28	Nicolas, Nour.....	P2-98
Nagai, Katsuhisa.....	P1-15	Nakakura, Takashi.....	P5-27	Niderla-Bieli?Ska, Justyna.....	P4-11
Nagai, Kohei.....	P3-10	Nakamura, Hiroko.....	P1-58	Nie, Haitao.....	P1-67
Nagai, Kohei.....	P3-12	Nakamura, Hiroya.....	P6-57	Nie, Haitao.....	P4-49
Nagai, Takashi.....	P1-16	Nakamura, Shinichiro.....	P6-6	Nie, Li.....	P4-26
Nagai, Takashi.....	P1-65	Nakamura, Sho.....	YSS2-7	Niimura, Sueo.....	YSS2-11
Nagai, Takashi.....	P1-116	Nakamura, Sho.....	P1-88	Niimura, Sueo.....	P2-10
Nagai, Takashi.....	P6-91	Nakamura, Sho.....	P4-25	Nikaido, Itoshi.....	P2-1
Nagai, Takashi.....	P6-110	Nakamura, Sho.....	P5-16	Nio-Kobayashi, Junko.....	P1-81
Nagai, Yoshitaka.....	P6-12	Nakamura, Sho.....	P5-65	Nishi, Hirotaka.....	P4-7
Nagamatsu, Aiko.....	P2-58	Nakamura, Tomoko.....	P1-65	Nishi, Hirotaka.....	P4-14
Nagamatsu, Go.....	P1-58	Nakamura, Toshinobu.....	P6-22	Nishi, Hirotaka.....	P4-15
Nagamatsu, Go.....	P3-64	Nakamura, Toshinobu.....	P6-30	Nishi, Ichiko.....	P4-38
Nagamatsu, Go.....	P6-68	Nakamura, Yoshiaki.....	P6-42	Nishie, Takumi.....	P5-57
Nagano, Masashi.....	P1-15	Nakamura, Yoshiaki.....	P6-64	Nishikawa, Takakazu.....	P5-60
Nagano, Masashi.....	P2-68	Nakamura, Yoshihiro.....	P3-105	Nishimura, Chiaki.....	P1-40
Naganuma, Hatsuki.....	P5-60	Nakamura, Yoshihiro.....	P5-66	Nishimura, Haruki.....	P5-21
Nagao, Yoshikazu.....	P1-76	Nakamura, Yuki.....	P1-98	Nishimura, Kazuaki.....	P5-21
Nagaoka, Kentaro.....	P1-113	Nakanishi, Natsuki.....	P1-16	Nishimura, Manami.....	P1-39
Nagaoka, Kentaro.....	P5-5	Nakanishi, Natsuki.....	P1-65	Nishimura, Ryo.....	YSS1-2
		Nakano, Kazuaki.....	P2-72	Nishimura, Ryo.....	P1-87
		Nakano, Kazuaki.....	P3-55	Nishimura, Yohei.....	P1-58
		Nakano, Kazuaki.....	P6-5	Nishino, Kagetomo.....	P2-39

- Nishino, Kaname.....P4-23
 Nishitani, KentaP6-33
 Nishizono, Akira.....P4-19
 Niu, Xin-XinP1-92
 Niu, Yingfang.....P6-97
 Niu, Ying-JieP3-57
 Nixon, Brett.....P2-102
 No, JinguP6-66
 Nociti, Ricardo P P.....P6-115
 Noda, Taichi.....P6-21
 Noda, Yoshihiro.....P1-39
 Nogami, Naotake.....P6-12
 Noguchi, JunkoP2-14
 Noguchi, JunkoP2-99
 Noguchi, JunkoP6-110
 Noguchi, Taro.....P5-53
 Noguchi, Tatsuo.....P3-72
 Nomikos, Michail.....P3-83
 Norton, Kacie A.....P2-38
 Nowak, Marcin.....P5-56
 Nowicki, JacekP5-42
 Nwachukwu, Chinwe UP1-68
 Nwachukwu, Chinwe UP1-84
 Nyiramana, Marie MerciP1-69
- O**
- O, Wai-Sum.....P2-84
 O`Bryan, MoiraP2-32
 O`Bryan, Moira K.....P2-28
 O`Connor, Anne E.....P2-28
 Oana, HidehiroP4-45
 Obashi, Akari.....P1-39
 Obata, Yayoi.....YSS2-1
 Obata, Yayoi.....P1-6
 Obata, Yayoi.....P1-30
 Obata, Yayoi.....P6-43
 Obata, YuichiP6-14
 O`Bryan, MoiraP2-20
 O`Bryan, MoiraP2-29
 O`Bryan, Moira KathleenPlenary3
 Ochiai, YoshinoriP6-125
 Ock, Sun AP6-66
 O`Connor, Anne.....P2-29
 Octura, Josh Elisha RoqueP5-50
 Oczeretko, Edward.....P4-61
 Ogasawara, Naomi.....P6-34
 Ogasawara, RinaP1-39
 Ogasawara, RinaP6-73
 Ogata, KazukoP1-76
 Ogata, KazukoP6-94
 Ogawa, Hidehiko.....YSS3-9
 Ogawa, Hidehiko.....P4-40
 Ogawa, Masaki.....P2-15
 Ogawa, Taiji.....P4-48
 Ogawa, Takehiko.....P1-58
 Ogonuki, Narumi.....P2-14
 Ogonuki, Narumi.....P3-88
 Ogonuki, Narumi.....P3-89
 Ogonuki, Narumi.....P6-126
 Ogura, Atsuo.....P2-14
 Ogura, Atsuo.....P3-61
 Ogura, Atsuo.....P3-88
 Ogura, Atsuo.....P3-89
 Ogura, Atsuo.....P4-10
 Ogura, Atsuo.....P4-29
 Ogura, Atsuo.....P6-1
 Ogura, Atsuo.....P6-126
 Ogushi, Sugako.....P1-49
 Oh, Eun Young.....YSS3-10
 Oh, Eun Young.....P4-54
 Oh, Hyun Ju.....P1-34
 Oh, Hyun Ju.....P1-80
 Oh, Hyun Ju.....P6-19
 Ohara, Taiki.....P6-135
 Ohba, Ryosuke.....P2-101
 Ohdaira, TakuyaYSS2-11
 Ohdaira, TakuyaP2-10
 Ohgane, JunP6-74
 Ohkura, Satoshi.....P5-43
 Ohkura, Satoshi.....P5-51
 Ohkura, Satoshi.....P5-52
 Ohkura, Satoshi.....P5-53
 Ohkura, Satoshi.....P5-62
 Ohkura, Satoshi.....P5-65
 Ohkura, Satoshi.....P5-67
 Ohnishi, Hideo.....P5-21
 Ohno, Motoko.....P5-12
 Ohno, ShigeoP5-12
 Ohsako, Shunji.....P5-27
 Ohta, HiroshiP6-138
 Ohta, Keiichiro.....P4-38
 Ohta, Ryo.....P1-91
 Ohtake, Masaki.....P3-28
 Ohtaki, Tadatoshi.....P5-55
 Ohtsu, AyakaYSS3-7
 Ohtsu, AyakaP1-98
 Ohtsu, AyakaP1-99
 Ohtsu, AyakaP4-24
 Oikawa, ToshinoriP6-102
 Oishi, Shinya.....P5-45
 Oishi, Shinya.....P5-53
 Ojarikre, Obah A.....P6-138
 Oji, AsamiP2-36
 Okabe, MasaruP2-105
 Okabe, Mayuko.....P6-139
 Okabe, Yuka.....YSS3-3
 Okabe, Yuka.....P3-62
 Okada, Konosuke.....P1-36
 Okada, Konosuke.....P6-95
 Okada, MakiP4-2
 Okada, MakiP4-6
 Okada, MakiP5-17
 Okada, Sawako.....P2-100
 Okae, Hiroaki.....P1-73
 Okae, Hiroaki.....P2-110
 Okamoto, AsakoP1-77
 Okamoto, IkuhiroP6-34
 Okamoto, Yoshiharu.....YSS1-2
 Okamoto, Yoshiharu.....P1-87
 Okamura, HiroakiP5-53
 Okubo, Haruna.....P3-78
 Okuda, Hidenobu.....P2-28
 Okuda, Hidenobu.....P2-29
 Okuda, Kiyoshi.....YSS1-2
 Okuda, Kiyoshi.....YSS2-6
 Okuda, Kiyoshi.....P1-70
 Okuda, Kiyoshi.....P1-86
 Okuda, Kiyoshi.....P1-87
 Okuda, Kiyoshi.....P4-22
 Okuda, Kiyoshi.....P5-57
 Okuyama, Minami W.P4-19
 Olaniyi, Kehinde.....P2-75
 Oliveira, Maria Emilia Franco ...P6-115
 Oliver, JanP6-96
 Ong, Y Rue.....P6-29
 Ongaro, LuisinaC-28
 Ono, Etsuro.....P2-35
 Ooga, Masatoshi.....P1-5
 Ooga, Masatoshi.....P3-6
 Ooga, Masatoshi.....P3-16
 Ooga, Masatoshi.....P3-84
 Ooga, Masatoshi.....P3-90
 Oqani, Reza K.....P5-39
 Oqani, Reza K.....P6-136
 Osada, Ikuko.....P2-58
 Osaki, Makoto.....P6-110
 Osawa, Takeshi.....YSS1-12
 Osawa, Takeshi.....P3-98
 Osawa, Takeshi.....P6-114
 Oshima, KazunagaP6-125
 Osmond, CliveP6-128
 Osuka, SatokoP1-16
 Osuka, SatokoP1-65
 Osuka, SatokoP1-111
 Osuka, SatokoP1-116
 Osuka, SatokoP5-75
 Otoi, Takeshige.....S-2
 Otoi, Takeshige.....YSS1-7
 Otoi, Takeshige.....P2-70
 Otoi, Takeshige.....P2-92
 Otsuka, MakyP6-27
 Otsuka, NagisaP2-44
 Oura, Seiya.....P6-21
 Ouyang, Ying-Chun.....P1-59
 Owari, Kensuke.....P6-12
 Oyewopo, Adeoye O.....P2-75
 Oyewopo, Christianah I.....P2-75
 Ozaki, Riho.....P5-62
 Ozawa, ManabuP2-2
 Ozawa, ManabuP2-4
 Ozawa, Satoe.....P1-36
- P**
- Paek, Sun HaP6-19
 Palazzese, LucaP2-40
 Palazzese, LucaP3-93
 Pan, HepingP6-105
 Pan, Jun-Li.....P4-34
 Pang, JingP1-96
 Pang, JingP1-97
 Pang, JingP4-49

- Pangas, Stephanie A P4-12
Pankhurst, Michael W P1-8
Panyathong, Raphee P6-122
Park, Da Som P6-9
Park, Da Som P6-10
Park, Hyo-Jin P3-33
Park, Jae-Kyung P3-31
Park, Jae-Kyung P6-13
Park, Jae-Young P3-33
Park, Jin Se P6-50
Park, Joung Jun P6-129
Park, Joung Jun P6-133
Park, Jun-Hyeok P1-101
Park, Kang Sun P2-63
Park, Minjee P6-80
Park, Min-Jee P3-97
Park, Seon Young P1-106
Park, Seon Young P4-9
Park, Seon Young P4-52
Park, Seon Young P6-49
Park, Se-Pill P3-30
Park, Se-Pill P3-32
Park, Se-Pill P3-97
Park, Se-Pill P6-16
Park, Se-Pill P6-80
Park, Se-Pill P6-81
Park, Se-Pill P6-130
Park, Se-Pill P6-131
Park, Sunha YSS1-9
Park, Sunha P3-58
Park, Tae-Yeong P6-35
Park, Young Hyun P6-50
Park, Young-Ho P3-34
Park, Young-Ho P3-91
Park, Yun-Gwi P3-30
Park, Yun-Gwi P3-32
Park, Yun-Gwi P6-16
Park, Yun-Gwi P6-81
Park, Yun-Gwi P6-130
Park, Yun-Gwi P6-131
Parnpai, Rangsun P3-52
Parraguez, Victor H P4-46
Parrington, John P3-82
Pasricha, Renu P3-21
Pate, Joy L J-3
Patil, Ajeet Kumar P3-99
Pawlina, Klaudia P6-72
Pawlinski, Bartosz P4-61
Pawlinski, Bartosz P4-62
Pawlinski, Bartosz P6-53
Pawlinski, Bartosz P6-117
Pearodwong, Pachara P6-122
Pearson-Farr, Jennifer P3-103
Pedraza, Diego Ojeda P3-104
Pei, Yangli P6-25
Penailillo-Escarate, Reyna Stephanie P1-112
Pepling, Melissa E P1-43
Peralta, Oscar P4-46
Perkins, Theodore J P6-34
Perry, Anthony C.F. P6-134
Perry, Ryan P2-79
Perry, Ryan P2-81
Phakdeedindan, Praopilas P2-70
Pheng, Vutha P5-67
Phuoc, Nguyen Xuan P1-65
Piao, Xuan Jing P1-35
Picton, Helen M P1-33
Pimentel, Jaime Arturo P3-51
Pleuger, Christiane P2-32
Porter, Christopher J P6-34
Premannandan, Helen P1-21
Price, Christopher A P1-61
Prunskaitė-Hyyryläin, Renata P2-19
Prunskaitė-Hyyryläin, Renata P4-12
Ptak, Grazyna Ewa P6-72
Pu, Shaoxia P5-5
Pujol, Pilar Ferre P1-37
- Q**
- Qian, Yong P5-49
Qian, Yong P5-49
Qin, Ying P1-16
Qin, Ying P1-111
Qin, Ying P5-75
Qin, Yusheng P2-11
Qin, Yusheng P4-41
Qin, Zhijuan P6-8
Qu, Ting P4-34
- R**
- Ra, Jeong Chan P1-80
Ra, Kihae P1-80
Rahayu, Larasati Puji P5-45
Rainczuk, Katarzyna P4-30
Rajabi-Toustani, Reza P2-67
Rajkovic, Aleksandar C-3
Ramirez-Solis, Ramiro P2-19
Ramukhithi, Fhulufhelo Vincent P2-52
Rana, Md. Masud P6-116
Rattani, Ahmed P1-49
Rebai, Tarek P2-83
Redgrove, Kate YSS2-12
Redgrove, Kate P2-80
Redgrove, Kate A P1-12
Redgrove, Kate A P2-79
Redgrove, Kate A P2-81
Rehwinkel, Jan P6-45
Reiter, Brenda L-1
Reliszko, Zaneta P P4-31
Ren, Caifang P1-97
Ren, Hongyan P6-3
Ren, Jing P1-92
Repapi, Emmanouela P3-25
Riaz, Muhammad P5-14
Rice, Kenner C P4-53
Richani, Dulama P1-72
Rivera, Shanemae M P2-71
Robertson, Gavin P1-26
Robertson, Sarah A P3-102
Robertson, Sarah A P4-53
Robertson, Sarah A YSS1-3
Robertson, Sarah A P2-106
Robinson, Robert S P1-68
Robinson, Robert S P1-83
Robinson, Robert S P1-84
Robinson, Robert S P1-90
Robinson, Robert S P4-20
Robker, Rebecca C-19
Rodgers, Raymond J YSS2-3
Rodgers, Raymond J P1-60
Rollerova, Eva P5-29
Roman, Shaun Daryl P2-111
Romaniewicz, Marta P2-108
Romero-Mota, Itayetzi P1-105
Rong, Mei P2-18
Rosadi, Bayu P6-120
Rosario, Roseanne P1-3
Roy, Pantu Kumar P3-45
Roy, Pantu Kumar P6-127
Roy, Shyamal J-2
Roy, Shyamal K P1-7
Ruas, Margarida P3-82
Rutherford, Kenneth M D P1-20
Ryu, Ji Hyeon P1-69
- S**
- Saben, Jessica C-7
Saeki, Kazuhiro P3-22
Saeki, Satoru P5-12
Saga, Yumiko P2-35
Saindane, Madhuri P1-101
Saito, Haruka YSS2-11
Saito, Haruka P2-10
Saito, Reiko P5-12
Saito, Reiko P5-21
Saitoh, Yui P3-19
Saitou, Mitinori P6-34
Saitou, Mitinori P6-138
Sakaguchi, Kenichiro P1-15
Sakaguchi, Maki P3-63
Sakaguchi, Minoru P1-118
Sakaguchi, Shin-Ich P2-67
Sakaguchi, Yosuke P3-36
Sakai, Akinori P5-21
Sakai, Kazuya P2-82
Sakai, Kazuya P2-110
Sakai, Noriyoshi P2-12
Sakai, Shunsuke P4-22
Sakamoto, Reiko P2-4
Sakase, Mitsuhiro P2-45
Sakase, Mitsuhiro P5-72
Sakashita, Akihiko P1-40
Sakashita, Akihiko P3-65
Sakatani, Miki P1-85
Sakatani, Miki P3-96
Sakono, Takahiro YSS3-12
Sakono, Takahiro P5-48
Sakuma, Tetsushi P5-51
Sakuma, Tetsushi P6-5
Sakumoto, Ryosuke P3-79

- Sakumoto, Ryosuke P4-22
 Sakumoto, Ryosuke P4-56
 Sakurai, Toshihiro P4-7
 Sakuraoka, Mizuki P6-40
 Salamonsen, Lois A P4-33
 Salazar, Ronaldo L P5-71
 Sales, Francisco P4-46
 Samahy, M.A.Ei P4-49
 Sambuu, Rentsenkhand YSS1-7
 Sambuu, Rentsenkhand P2-92
 Samu, Jannet Iveren P4-65
 Sanches, Maria Del Carmen Cortes... YSS2-2
 Sanches, Maria Del Carmen Cortes... P1-22
 Sanders, Jessica Rose P3-83
 Sangeeta, Sangeeta P2-85
 Sankai, Tadashi P5-79
 Sano, Eriko P3-90
 Sanosaka, Tsukasa P6-27
 Santorelli, Sara P5-31
 Santos, Victor J.C. P6-115
 Sapierzynski, Rafal P2-77
 Sapiezynski, Rafal P2-76
 Sarabia, Annabelle S P5-69
 Sarentongla, Borjigin P1-76
 Sarker, Md. Sazedul Karim P6-116
 Sarker, Nathu Ram P6-116
 Sasagawa, Yohei P2-1
 Sasai, Yoji P5-66
 Sasaki, Erika P6-47
 Sasaki, Erika P6-137
 Sasaki, Hiroyuki P3-61
 Sasaki, Keisuke P6-43
 Sasaki, Takuya P5-52
 Sasaki, Takuya P5-53
 Sasaki, Yosuke P1-94
 Sasaki, Yosuke P3-98
 Sasaki, Yosuke P3-107
 Sasatani, Megumi P3-22
 Sato, Akane P1-76
 Sato, Eimei P5-66
 Sato, Kan P1-73
 Sato, Marimo P5-15
 Sato, Shun P3-40
 Sato, Shun P4-2
 Sato, Shun P4-6
 Sato, Shun P5-17
 Sato, Suguru P6-40
 Sato, Suguru P6-41
 Sato, Yoko YSS1-7
 Sato, Yoko P2-70
 Sato, Yoko P2-92
 Satomura, Kyoka P5-78
 Sattar, Abdul P2-66
 Sawai, Ken P3-39
 Sawai, Ken P3-48
 Sawai, Ken P3-56
 Scanlan, Tawny Nicole Aiko P6-106
 Schang, Gauthier C-28
 Schatten, Heide P1-27
 Schatten, Heide P1-59
 Schatten, Heide P2-17
 Scheaffer, Suzanne C-7
 Scheiner-Bobis, Georgios P2-95
 Schermelleh, Lothar P1-49
 Schjenken, John E. YSS1-3
 Schjenken, John E. P2-106
 Schuler, Gerhard P2-95
 Schuppe, Hans-Christian P2-32
 Schwarz, Tomasz P5-42
 Scott, Regan Plenary6
 Scsukova, Sona P5-29
 Sebkova, Natasa P2-33
 Seita, Yasunari P1-122
 Seita, Yasunari P6-6
 Seita, Yasunari P6-34
 Seki, Kazuhiko P6-12
 Seki, Misato YSS1-11
 Seki, Misato P4-35
 Sekiguchi, Satoshi P1-94
 Sekiguchi, Satoshi P3-107
 Sekine, Hideo P2-97
 Sekine, Masafumi P2-110
 Sekinuma, Mikio P6-139
 Sellami, Afifa P2-83
 Semik, Ewelina P6-72
 Semmence, Oliver P3-103
 Sendai, Yutaka P6-111
 Senoo, Manami P2-2
 Seong, Minjung YSS1-9
 Seong, Minjung P3-58
 Seshoka, Mokgadi Magdelin P2-52
 Setyawan, Erif Maha Nugraha P1-34
 Sezutsu, Hideki YSS3-1
 Sezutsu, Hideki P2-50
 Sha, Jiahao C-15
 Shahid, Muhammad P5-14
 Shami, Gerald J. P4-13
 Shan, Ti Peng P2-55
 Shao, Xuan C-15
 Sheikh, Sairah P1-9
 Sheikh, Sairah P1-11
 Sheikh, Sairah P1-119
 Shen, Kaiyuan P3-44
 Shen, Meng-Shun P1-121
 Shen, Perng-Chih P6-124
 Shen, Ying P2-31
 Sheth, Bhav P3-100
 Sheth, Bhav P6-128
 Shi, Deshun P3-44
 Shi, Fangxiong P1-14
 Shi, Fangxiong P1-104
 Shi, Guoqing P6-119
 Shi, Lanying C-11
 Shi, Lanying P1-48
 Shi, Yingjiao P1-54
 Shibahara, Hidenori YSS2-4
 Shibahara, Hidenori P1-74
 Shibahara, Hiroaki P2-41
 Shibuya, Hisashi P5-55
 Shim, Joohyun P3-31
 Shim, Joohyun P6-13
 Shima, Ryoichi P6-111
 Shima, Sakurako P2-3
 Shimada, Manami P2-12
 Shimada, Masayuki P1-77
 Shimada, Masayuki P3-18
 Shimamoto, So P1-4
 Shimamoto, So P1-28
 Shimamura, Reika P6-121
 Shimazaki, Megumi YSS1-7
 Shimazaki, Megumi P2-92
 Shimazu, Toru P2-58
 Shimizu, Ken P1-16
 Shimizu, Ken P1-65
 Shimizu, Ken P1-116
 Shimizu, Ken P5-75
 Shimizu, Kenji P2-34
 Shimizu, Manabu P4-58
 Shimizu, Manabu P4-59
 Shimizu, Natsumi P3-22
 Shimizu, Takashi P1-110
 Shimizu, Takashi P3-85
 Shimizu, Takashi P5-64
 Shimoj, Gaku P3-23
 Shimomura, Katsumi P4-21
 Shin, Kyung Tae YSS1-8
 Shin, Kyung Tae P3-38
 Shin, Kyung-Tae P3-57
 Shin, Min-Young P3-30
 Shin, Min-Young P3-32
 Shin, Min-Young P3-97
 Shin, Min-Young P6-16
 Shin, Min-Young P6-81
 Shin, Min-Young P6-130
 Shin, Min-Young P6-131
 Shinagawa, Masahiro P4-2
 Shinagawa, Masahiro P4-6
 Shinagawa, Masahiro P5-17
 Shinoda, Mari P5-80
 Shinozuka, Yuko P3-64
 Shirafuta, Yuichiro P4-2
 Shirafuta, Yuichiro P5-17
 Shirai, Takashi P6-123
 Shirakado, Kazuki P2-46
 Shirakata, Yoshiki P2-110
 Shirasaka, Miki P5-11
 Shirasuna, Koumei P3-72
 Shirasuna, Koumei YSS1-1
 Shirasuna, Koumei YSS2-4
 Shirasuna, Koumei YSS2-7
 Shirasuna, Koumei YSS3-7
 Shirasuna, Koumei P1-66
 Shirasuna, Koumei P1-74
 Shirasuna, Koumei P1-75
 Shirasuna, Koumei P1-88
 Shirasuna, Koumei P1-98
 Shirasuna, Koumei P1-99
 Shirasuna, Koumei P1-100
 Shirasuna, Koumei P1-108
 Shirasuna, Koumei P4-24
 Shiota, Kinji P1-91
 Shiota, Mariko P1-91
 Shirouzu, Seiya P3-9

- Shiue, Yow-Ling.....P6-44
Shono, Mayumi.....P6-47
Shoyama, Yukihiro.....P3-86
Shu, Jing.....P1-54
Shu, Li Zhong.....P3-15
Shu, Li Zhong.....P3-17
Shun, Takeo.....P1-108
Siemieniuch, Marta J.....P5-56
Sikora, Malgorzata.....P2-108
Sim, Bo-Woong.....P3-34
Sim, Bo-Woong.....P3-91
Simmons, David.....C-14
Simpson, Richard J.....P4-33
Sinclair, David A.....P1-115
Sinclair, Kevin D.....P2-109
Sinderen, Michelle L Van.....P4-30
Sinderewicz, Emilia.....P3-75
Sinderewicz, Emilia.....P3-76
Sinderewicz, Emilia.....P3-77
Sinderewicz, Emilia.....P5-63
Sinderewicz, Emilia.....P5-68
Singh, Poonam.....P2-103
Sirard, Marc-Andre.....P3-101
Siregar, Adrian S.....P1-69
Sisy, Gamal Attia El.....P6-89
Sjoblom, Cecilia.....P6-99
Sjunnesson, Ylva.....P3-101
Skierbiszewska, Katarzyna.....P6-117
Smith, Rowena.....P3-8
Smyth, Neil R.....P3-100
Smyth, Neil R.....P6-128
So, Kyoung-Ha.....P6-39
Soares, Michael J.....Plenary6
Soga, Mariko.....P5-78
Somfai, Tamas.....P3-92
Somfai, Tamas.....P6-88
Somfai, Tamas.....P6-91
Songird, Chaleamchat.....P2-70
Son, Yeo Jin.....P6-81
Son, Yeo-Jin.....P3-30
Son, Yeo-Jin.....P3-32
Son, Yeo-Jin.....P3-97
Son, Yeo-Jin.....P6-16
Son, Yeo-Jin.....P6-130
Son, Yeo-Jin.....P6-131
Song, Bong-Seok.....P3-34
Song, Bong-Seok.....P3-91
Song, Hyuk.....C-4
Song, Hyuk.....P2-5
Song, Xuexiong.....P3-69
Song, Yukun.....P3-20
Song, Yuqing.....P1-114
Sonoda, Satomi.....P5-12
Sonoda, Satomi.....P5-21
Sonoda, Tomoya.....P5-53
Sotomaru, Yusuke.....P6-43
Spears, Norah.....P1-123
Spears, Norah.....P5-35
Spiller, Cassy.....P2-20
Spiller, Cassy M.....P2-78
Stanford, William L.....P6-34
Staszkievicz, Joanna.....P3-75
Staszkievicz, Joanna.....P3-76
Staszkievicz, Joanna.....P3-77
Staszkievicz, Joanna.....P5-63
Staszkievicz, Joanna.....P5-68
Steane, Sarah E.....P1-103
Steel, Alicia N.....P5-40
Stevenson, Tyler J.....P5-30
Strasser, Andreas.....P1-23
Stringer, Jessica Miriam.....P1-2
Su, Min.....P6-8
Su, Wenlong.....P6-67
Su, You-Qiang.....C-11
Su, You-Qiang.....P1-48
Sudoh, Kaori.....P2-101
Sueoka, Kanako.....P1-91
Suetomi, Yuta.....P5-20
Suetomi, Yuta.....P5-52
Suetomi, Yuta.....P5-62
Sueyoshi, Masuo.....P1-94
Sueyoshi, Masuo.....P3-107
Sugahara, Chihiro.....P6-101
Sugane, Naoko.....P1-76
Sugimoto, Alisa.....P5-19
Sugimoto, Alisa.....P5-28
Sugimoto, Masahito.....P1-13
Sugimoto, Miki.....P3-41
Sugimura, Satoshi.....P1-73
Sugimura, Satoshi.....P3-28
Sugino, Norihiro.....P4-2
Sugino, Norihiro.....P4-6
Sugino, Norihiro.....P5-17
Sugiura, Koji.....P1-62
Sugiura, Koji.....P1-64
Sugiura, Tomochika.....P4-60
Sugiyama, Makoto.....P5-11
Sugiyama, Yukiko.....P2-41
Sultana, Shabiha.....P6-116
Sumarsono, Teguh.....P6-120
Sumner, Rebecca Nicole.....P5-35
Sun, Gang.....P4-51
Sun, Qingyuan.....P6-78
Sun, Qing-Yuan.....P1-27
Sun, Qing-Yuan.....P1-59
Sun, Qing-Yuan.....P2-17
Sun, Shaochen.....YSS2-8
Sun, Shaochen.....P1-102
Sun, Shao-Chen.....P1-32
Sun, Shuchun.....P6-67
Sun, Siyu.....P1-14
Sun, Tian Yi.....P1-35
Sun, Xuejing.....P2-49
Sutherland, Jessie M.....P2-79
Sutherland, Jessie Maree.....P1-12
Sutter, Petra De.....P3-82
Suzuki, Ayumi.....P1-36
Suzuki, Chie.....P3-36
Suzuki, Chie.....P4-19
Suzuki, Daisuke.....YSS3-9
Suzuki, Daisuke.....P4-40
Suzuki, Hiromi.....P2-58
Suzuki, Hiroshi.....P1-120
Suzuki, Hitomi.....P2-88
Suzuki, Hitoshi.....P5-21
Suzuki, Mizuho.....P3-24
Suzuki, Mizuho.....P6-135
Suzuki, Shinnosuke.....YSS1-10
Suzuki, Shinnosuke.....YSS3-4
Suzuki, Shinnosuke.....P2-14
Suzuki, Shinnosuke.....P3-66
Suzuki, Shinnosuke.....P3-68
Suzuki, Shinnosuke.....P6-2
Suzuki, Takahiro.....P6-40
Suzuki, Toru.....P6-134
Svoboda, Petr.....P3-61
Swann, Karl.....C-26
Swann, Karl.....P3-83
Syoji, Rina.....YSS2-11
Syoji, Rina.....P2-10
Szmatola, Tomasz.....P6-72
- ## T
- Tabata, Yasuhiko.....YSS2-9
Tabata, Yasuhiko.....P2-6
Tachibana, Makoto.....YSS2-9
Tachibana, Makoto.....P2-6
Tachikawa, Eiichi.....P4-7
Tachikawa, Eiichi.....P4-15
Tada, Motoki N.....P2-58
Tagima, Shigeyuki.....P4-19
Tajima, Motoshi.....P4-60
Tajiri, Susumu.....P6-20
Takada, Shuji.....P6-15
Takada, Tatsuyuki.....P2-12
Takaesu, Yotaro.....P4-14
Takagi, Mitsuhiro.....YSS1-7
Takagi, Mitsuhiro.....P2-92
Takagi, Yuji.....P6-63
Takahashi, Ai.....P5-20
Takahashi, Chudai.....P5-16
Takahashi, Chudai.....P5-18
Takahashi, Masahiro.....P6-95
Takahashi, Motoko.....YSS3-3
Takahashi, Motoko.....P3-62
Takahashi, Riichi.....P6-137
Takahashi, Tomohiro.....P4-45
Takahashi, Toru.....P3-79
Takahashi, Toru.....P4-32
Takahashi, Toru.....P4-59
Takahashi, Toru.....P6-121
Takahashi, Tsukasa.....P6-137
Takahashi, Wakana.....P5-60
Takahashi, Yoshiyuki.....P2-68
Takamatsu, Shingo.....P3-9
Takase, Hinako M.....P2-88
Takashima, Seiji.....YSS1-4
Takashima, Seiji.....YSS2-9
Takashima, Seiji.....YSS2-10
Takashima, Seiji.....P2-6
Takashima, Seiji.....P2-8
Takashima, Seiji.....P2-9

Takayama, Osamu	P6-12	Tanaka, Shigefumi	P5-60	Tilwani, Ramesh C	P5-69
Takayama-Watanabe, Eriko	P3-81	Tanaka, Tomomi	P5-45	Ting, Ling.....	P5-76
Takayanagi, Shuko.....	P6-5	Tanemura, Kentaro.....	P1-73	Tiptanavattana, Narong	P2-70
Takayanagi, Shuko.....	P6-11	Tanemura, Kentaro.....	P2-7	Tobita, Tomohiro.....	P4-55
Takeda, Kumiko	P2-39	Tanemura, Kentaro.....	P2-14	Toda, Motohiro.....	P5-11
Takeda, Rie	P3-87	Tanemura, Kentaro.....	P2-26	Todd, Erica V.....	P5-2
Takei, Gen L.....	P2-41	Tanemura, Kentaro.....	P2-27	Todo, Takaaki.....	P2-12
Takei, Gen L.....	P2-42	Tanemura, Kentaro.....	P2-82	Toji, Noriyuki	P4-32
Takei, Gen L.....	P2-43	Tanemura, Kentaro.....	P2-110	Tokunaga, Akinori	P2-4
Takenaka, Yu.....	P3-42	Tang, Fuchou.....	P1-1	Tokunaga, Tomoyuki	P3-79
Takenouchi, Naoki.....	P1-85	Tang, Fuchou.....	P6-75	Tokura, Yuji.....	P6-123
Takenouchi, Naoki.....	P3-96	Tang, Keqiong.....	P2-90	Tomioka, Ikuo.....	P6-12
Takeo, Shun.....	P1-75	Tang, Li	P4-27	Tomioka, Michiko	P5-66
Takeo, Toru.....	P2-46	Tang, Yinglu.....	P3-71	Tomishima, Toshiko.....	P6-126
Takeo, Toru.....	P2-60	Tang, Yinglu.....	P6-79	Tomura, Hideaki.....	P5-1
Takeo, Toru.....	P6-101	Tani, Reoto.....	P6-65	Tomura, Hideaki.....	P5-7
Taketani, Toshiaki.....	P4-2	Tani, Tetsuya	P6-82	Tone, Masaaki	YSS1-4
Taketani, Toshiaki.....	P4-6	Tanida, Takashi.....	P1-15	Tone, Masaaki	P2-9
Taketani, Toshiaki.....	P5-17	Taniguchi, Kazumi	P6-45	Tong, Chao.....	P1-10
Taketo, Teruko.....	P3-4	Taniguchi, Masaaki.....	P6-110	Tongrueng, Surapong.....	P1-25
Taketsuru, Hiroaki.....	P3-54	Taniguchi, Masayasu.....	YSS1-7	Tooyama, Ikuo	P2-12
Takeuchi, Miki	YSS1-11	Taniguchi, Masayasu.....	P2-70	Topipat, Chutima	P1-33
Takeuchi, Miki	P4-35	Taniguchi, Masayasu.....	P2-92	Torokoff, Alma K M	P1-3
Takeuchi, Mizuki.....	P5-60	Taniguchi, Yuka.....	P5-33	Torre, Luz Patricia Munoz De La.....	YSS2-2
Takeuchi, Yutaka.....	P6-65	Tanihara, Fuminori	S-2	Torre, Luz Patricia Munoz De La.....	P1-22
Takigami, Shu.....	P5-27	Tanihara, Fuminori	YSS1-7	Toschi, Paola	P2-40
Takijiri, Takashi	P2-2	Tanihara, Fuminori	P2-92	Toschi, Paola	P6-84
Takikawa, Sachiko.....	P1-16	Tanikawa, Nao.....	YSS3-7	Totemeyer, Sabine	P1-90
Takikawa, Sachiko.....	P1-65	Tanikawa, Nao.....	P4-24	Touma, Senga	P3-39
Takikawa, Sachiko.....	P1-111	Tanimoto, Ren.....	P1-30	Touma, Senga	P3-48
Takikawa, Sachiko.....	P1-116	Tanyapanyachon, Prattana.....	P5-36	Toustani, Reza Rajabi.....	P2-34
Takikawa, Sachiko.....	P5-75	Tao, Jingli.....	P6-7	Toyoshima, Fumiko	P6-31
Tamada, Hiromichi.....	P5-46	Tarlinton, Rachael E.....	P1-90	Tran, Dinh Nam	P1-106
Tamada, Hiromichi.....	P5-72	Tarusawa, Etsuko.....	P6-42	Tran, Dinh Nam	P4-9
Tamura, Hiroshi	P4-2	Tatebayashi, Ryoki.....	P5-51	Tran, Dinh Nam	P4-52
Tamura, Hiroshi	P4-6	Tatebayashi, Ryoki.....	P5-52	Tran, Dinh Nam	P6-49
Tamura, Hiroshi	P5-17	Tatemoto, Hideki	P4-38	Tretipskul, Chanyuth.....	P6-122
Tamura, Isao	P4-2	Tateno, Hiroyuki.....	P3-85	Truchanowicz, Joanna Olkowska.....	P4-11
Tamura, Isao	P4-6	Tatsumi, Takayuki.....	P3-49	Tsai, Pei-Shiue Jason	YSS3-11
Tamura, Isao	P5-17	Taweechaipaisankul, Anukul.....	P1-31	Tsai, Pei-Shiue Jason	P5-6
Tamura, Kana.....	P2-46	Taweechaipaisankul, Anukul.....	P3-29	Tsai, Pei-Shiue Jason	YSS3-2
Tamura, Kazuhiro.....	P4-7	Tayade, Chandrakant.....	P4-47	Tsai, Pei-Shiue Jason	P2-104
Tamura, Kazuhiro.....	P4-15	Taylor, Lorna	P6-59	Tsai, Ting-Fen.....	P1-93
Tamura, Shinnosuke.....	P3-42	Techakumphu, Mongkol	P2-70	Tsubakishita, Yuji.....	YSS1-12
Tamura, Shinnosuke.....	P6-102	Teixeira, Magda Guedes.....	P3-53	Tsubakishita, Yuji.....	P6-114
Tan, Jing-He.....	P2-56	Temple-Smith, Peter	P4-8	Tsuchimoto, Akihiro.....	YSS1-4
Tan, Seang Lin.....	P3-4	Terada, Kanae.....	P4-45	Tsuchimoto, Akihiro.....	P2-9
Tan, Tiffany Cy	P3-102	Terashima, Ryota.....	P2-97	Tsuchiya, Hideaki	P1-122
Tanabe, Yoshiaki.....	P6-69	Terashima, Ryota.....	P5-11	Tsuchiya, Hideaki	P6-6
Tanabe, Yoshiaki.....	P6-76	Tetsuka, Masafumi.....	P1-47	Tsujimura, Akira	P3-86
Tanaka, Genki.....	P6-111	Thammasiri, Jiratti -	P1-89	Tsukada, Takehiro	P5-27
Tanaka, Hazuki.....	P1-98	Tharasanit, Theerawat.....	P2-70	Tsukada, Yu-Ichi	P6-28
Tanaka, Hazuki.....	P1-99	The Oxford Fertility Preservation Team.....	P1-123	Tsukamoto, Satoshi	YSS1-10
Tanaka, Hiromitsu.....	P3-86	Thitaram, Chatchote.....	P2-70	Tsukamoto, Satoshi	YSS3-4
Tanaka, Kentaro.....	P5-21	Thomas, Jodi T.....	P5-2	Tsukamoto, Satoshi	P3-49
Tanaka, Masashi	YSS1-12	Thompson, Jeremy G	P3-102	Tsukamoto, Satoshi	P3-66
Tanaka, Masashi	P6-114	Thomson, Kacie.....	P1-21	Tsukamoto, Satoshi	P3-68
Tanaka, Nobuaki	P6-137	Thongtip, Nikorn	P2-70	Tsukamura, Hiroko	YSS3-11
Tanaka, Satoshi	P4-45	Tian, Jianhui.....	P1-44	Tsukamura, Hiroko	P5-6
Tanaka, Satoshi	P6-33	Tian, Jianhui.....	P4-41	Tsukamura, Hiroko	P5-16
Tanaka, Satoshi	P6-34	Tian, Shujun.....	P6-67	Tsukamura, Hiroko	P5-18

- Tsukamura, Hiroko P5-19
Tsukamura, Hiroko P5-20
Tsukamura, Hiroko P5-22
Tsukamura, Hiroko P5-23
Tsukamura, Hiroko P5-24
Tsukamura, Hiroko P5-26
Tsukamura, Hiroko P5-28
Tsukamura, Hiroko P5-34
Tsukamura, Hiroko P5-53
Tsukamura, Hiroko P5-62
Tsukamura, Hiroko P5-67
Tsukamura, Hiroko P6-1
Tsukiyama, Tomoyuki P6-6
Tsumagari, Shigehisa P5-55
Tughgba, Terzungwe P4-65
Tummaruk, Padet P6-122
Tung, Nguyen Huu P3-86
Turner, James M. A. P6-138
Tuz, Ryszard P5-42
- U**
- Uchida, Aya P2-88
Uchida, Mona P5-66
Uchida, Takafumi P3-18
Uchikura, Ayuko P2-72
Uchikura, Ayuko P3-55
Uchikura, Ayuko P6-5
Uchikura, Ayuko P6-11
Uchikura, Ayuko P6-18
Uchikura, Ayuko P6-74
Uchikura, Kenzo P4-19
Uchino, Keiro YSS3-1
Uchino, Keiro P2-50
Uchisawa, Hidemitsu P3-23
Uchiyama, Kyoko P2-48
Uchiyama, Kyoko P2-62
Ueda, Manami P1-100
Ueda, Shuji P4-21
Uematsu, Mizuho YSS1-12
Uematsu, Mizuho P3-98
Uematsu, Mizuho P6-114
Ueno, Hiromichi P5-12
Ueno, Hiromichi P5-21
Ueno, Yumie YSS1-1
Ueno, Yumie P1-66
Uenoyama, Yoshihisa C-23
Uenoyama, Yoshihisa P5-16
Uenoyama, Yoshihisa P5-18
Uenoyama, Yoshihisa P5-19
Uenoyama, Yoshihisa P5-20
Uenoyama, Yoshihisa P5-22
Uenoyama, Yoshihisa P5-23
Uenoyama, Yoshihisa P5-24
Uenoyama, Yoshihisa P5-26
Uenoyama, Yoshihisa P5-28
Uenoyama, Yoshihisa P5-34
Uenoyama, Yoshihisa P5-53
Uenoyama, Yoshihisa P5-62
Uenoyama, Yoshihisa P5-67
Uenoyama, Yoshihisa P6-1
- Ueta, Yoichi P5-12
Ueta, Yoichi P5-21
Uhnakova, Iveta P5-29
Ullah, Obaid P3-11
Ullah, Obaid P3-15
Ullah, Obaid P3-17
Umeda, Chiaki P2-25
Umeki, Ikuma P3-55
Umeki, Ikuma P6-74
Umetsu, Misa P3-23
Umeyama, Kazuhiro P2-72
Umeyama, Kazuhiro P6-5
Umeyama, Kazuhiro P6-11
Umeyama, Kazuhiro P6-18
Umeyama, Kazuhiro P6-20
Umeyama, Kazuhiro P6-74
Umezu, Kohei P2-27
Umezu, Yuichi P5-12
Umida, Ganieva P1-65
Uppangala, Shubhashree P3-21
Uppangala, Shubhashree P3-99
Urakawa, Manami P3-78
Urbanyi, Bela P6-48
Urbanyi, Bela P6-103
Ursinyova, Monika P5-29
Ushijima, Hitoshi P1-36
Ushijima, Hitoshi P6-95
Usman, Zeenat P2-74
- V**
- V, Sastry K P5-4
Van, Nguyen Khanh P3-92
Velazquez, Miguel A. P6-128
Venturina, Emma V P2-71
Vicente, Wilter R.R. P6-115
Vipassa, Vajara P3-52
- W**
- Waclawik, Agnieszka P4-43
Waclawik, Agnieszka P4-44
Wada, Haruna P6-121
Wahle, Eva P2-98
Wakabayashi, Yoshihiro P5-43
Wakabayashi, Yoshihiro P5-50
Wakabayashi, Yoshihiro P5-53
Wakabayashi, Yoshihiro P5-65
Wakai, Jun P6-57
Wakai, Mina P2-97
Wakai, Takuya P1-37
Wakana, Shigeharu P2-14
Wakana, Shigeharu P6-1
Wakasa, Ichiko P1-120
Wakasa, Ikumi P2-25
Wakayama, Sayaka P1-5
Wakayama, Sayaka P2-57
Wakayama, Sayaka P2-58
Wakayama, Sayaka P3-84
Wakayama, Sayaka P3-90
Wakayama, Sayaka P6-69
Wakayama, Sayaka P6-79
Wakitani, Shoichi P4-4
Walker, Charlotte A P1-123
Wallen, Katrine P6-128
Walters, James R. YSS3-1
Walters, James R. P2-50
Walters, Jessica Lh P2-102
Walters, Kirsty A C-29
Walton, Sarah L P1-103
Wan, Pengcheng P6-119
Wan, Yongjie P1-67
Wang, Aihua P2-90
Wang, Aihua P5-8
Wang, Chen P1-71
Wang, Chenfei P3-67
Wang, Dong P2-11
Wang, Dong-Hui P1-92
Wang, Ensheng P1-54
Wang, Feng P1-67
Wang, Feng P1-96
Wang, Feng P1-97
Wang, Feng P4-49
Wang, Feng P5-47
Wang, Hai Yang P1-35
Wang, Haibin C-8
Wang, Hong P6-78
Wang, Hongmei P1-27
Wang, Hui L P5-49
Wang, Jun P1-63
Wang, Jun P4-63
Wang, Jun P5-59
Wang, Junli P6-100
Wang, Lan P2-112
Wang, Li P1-54
Wang, Li P2-87
Wang, Lingling P2-49
Wang, Peizhe P3-7
Wang, Qiang P1-57
Wang, Qiaochu YSS2-8
Wang, Qiaochu P1-102
Wang, Shuting P4-49
Wang, Taozhi P2-49
Wang, Tse-En Joan YSS3-11
Wang, Tse-En Joan P5-6
Wang, Wangsheng P4-51
Wang, Xinrong P1-95
Wang, Xiong Ying P1-10
Wang, Yan P6-3
Wang, Yanliang P6-25
Wang, Yan-Ling C-15
Wang, Ya-Yun P2-24

- Wang, Ya-Yun.....P2-86
Wang, Zhen-BoP1-27
Wang, Zhen-BoP2-17
Wang, Zhigang.....P6-67
Wang, Zhirui.....P6-3
Wang, Zi Xin.....P6-36
Wang, Ziyu.....P1-67
Wang, Ziyu.....P5-47
Ward, Monika A.C-12
Washizu, AkariP1-39
Washizu, AkariP6-73
Washizu, MasaoP4-45
Wasowska, Barbara.....P5-41
Watanabe, Akihiko.....P3-81
Watanabe, Gen.....P1-113
Watanabe, Gen.....P5-5
Watanabe, Hiroyuki.....P3-85
Watanabe, HitomiP3-87
Watanabe, MasahitoP6-5
Watanabe, MasahitoP6-11
Watanabe, MasahitoP6-18
Watanabe, MasahitoP6-20
Watanabe, MasahitoP6-74
Watanabe, Minami.....P5-52
Watanabe, RenP1-19
Watanabe, Shinya.....P2-39
Watanabe, Shinya.....P6-139
Watanabe, YoukiYSS3-12
Watanabe, YoukiP5-15
Watanabe, YoukiP5-28
Watanabe, YoukiP5-48
Watanabe, YoukiP5-67
Watanabe, YuriYSS2-6
Watanabe, YuriP1-86
Watkins, Adam J.....P2-109
Watkins, Charlotte.....P1-90
Watson, Adrienne L.S-5
Weatherill, Chelsey B.....P2-38
Webster, Dennis A.....S-5
Weerakoon, W. W.P.N.....P5-46
Weerakoon, W. W.P.N.....P5-72
Wei, Jingwei.....P6-96
Wei, MengyiP6-37
Wei, Qiaoli.....P6-67
Wei, Qingqing.....P6-25
Wei, Quanwei.....P1-14
Wei, Quanwei.....P1-104
Wei, Quanwei.....P5-38
Weidner, Wolfgang.....P2-32
Weidner, Wolfgang.....P2-96
Weigel, DanL-1
Wells, David N.P6-96
Wen, Bingqiang.....P6-25
Weng, QiannanP5-38
Weng, ShaopingP1-121
Weng, Yao-ShaneP1-93
Wessels, Jocelyn.....P4-47
Wijayarathna, Rukmali.....P5-10
Wijerathne, Charith UbP5-77
Wijerathne, Charith Udara BandaraP5-25
Willaime-Morawek, Sandrine ... P3-103
Willaime-Morawek, Sandrine ... P3-104
Williams, Suzannah A.....P1-11
Williams, Suzannah A.....P1-119
Williams, Suzannah A.....P1-123
Williams, Suzannah A.....P3-25
Williams, Suzannah A.....P1-9
Woad, Kathryn J.....P1-68
Woad, Kathryn J.....P1-83
Woad, Kathryn J.....P1-84
Woad, Kathryn J.....P4-20
Woclawek-Potocka, IzabelaP3-75
Woclawek-Potocka, IzabelaP3-76
Woclawek-Potocka, IzabelaP3-77
Woclawek-Potocka, IzabelaP5-63
Woclawek-Potocka, IzabelaP5-68
Wolf, EckhardP6-18
Wolska, Ewelina.....P2-76
Wolska, Ewelina.....P2-77
Wongbandue, Grisnarong.....P1-24
Woo, Jae-Seok.....P2-5
Wood, Jennifer R.C-21
Woodcock, Mark E.....P6-59
Wrenzycki, Christine.....P2-95
Wright, Bryon E.....C-24
Wroblewska, Bogna Ziarkiewicz....P4-11
Wu, Bao Jiang.....P6-36
Wu, Baojiang.....P6-37
Wu, Caifeng.....P6-97
Wu, Caifeng.....P6-98
Wu, Chean-Ping.....P3-95
Wu, GuoyunP1-104
Wu, JingwenP2-87
Wu, JuanP1-10
Wu, LiP6-100
Wu, Lindsay E.....P1-115
Wu, RongrongP6-32
Wu, Shaoyin.....P1-121
Wu, Shixin.....P2-13
Wu, Tingting.....P1-109
Wu, WangjunP5-38
Wu, Yi-No.....P2-86
Wudy, Stefan A.....P2-95
Wuensch, AnnegretP6-18
- X**
- Xi, GuangyinP1-44
Xia, YangC-15
Xiang, JinzhuP6-25
Xiao, BinP2-56
Xiao, HongweiP6-3
Xiao, LinliP1-114
Xiao, Yinxia.....P1-114
Xie, JiangP4-27
Xie, MeimeiP1-109
Xing, JunP1-14
Xing, JunP1-104
Xiong, BoYSS2-8
Xiong, BoP1-54
Xiong, BoP1-102
Xiong, BoP3-94
- Xu, Chen.....P2-87
Xu, ChuanfeiP2-13
Xu, LijieP3-11
Xu, LijieP3-15
Xu, Peng.....P2-112
Xu, RuiminP3-71
Xu, RuiminP6-79
Xu, Xiaoling.....P1-114
Xu, Zhao-YangP2-17
Xuan, Nuguyen Phoc.....P1-116
- Y**
- Yagi, MamiP4-22
Yaginuma, Hikari.....P4-57
Yajima, AkiraP1-73
Yamada, Ikuko.....P6-1
Yamada, MasayasuYSS3-8
Yamada, MasayasuP4-36
Yamada, RieP1-45
Yamada, Yuko.....P6-137
Yamagata, KazuoP3-10
Yamagata, KazuoP3-12
Yamaguchi, MioP1-76
Yamaguchi, Ryo.....P2-105
Yamaguchi, SokiP3-10
Yamaguchi, SokiP3-12
Yamaguchi, YoshioP6-123
Yamamoto, Naoyuki.....P6-125
Yamamoto, TakashiP5-51
Yamamoto, TakashiP6-5
Yamamoto, YukiP1-70
Yamamoto, YukiP4-22
Yamamoto, YukiP4-48
Yamamoto, YukiP5-57
Yamamoto, Yume.....P2-25
Yamamoto, Yunosuke.....P3-84
Yamamoto, YuriP5-33
Yamamura, Takashi.....P5-43
Yamamura, Takashi.....P5-53
Yamamura, Takashi.....P5-65
Yamanaka, Hiroyuki.....P1-58
Yamanaka, Kaori.....P2-58
Yamanaka, Masaya.....P1-38
Yamanaka, Masaya.....P3-50
Yamanaka, ShuichiroP6-20
Yamanouchi, TadayukiP1-73
Yamanouchi, TadayukiP3-28
Yamanouchi, TadayukiP6-94
Yamanouchi, TadayukiP6-113
Yamasaki, KanaP2-97
Yamasaki, Mikio.....P5-33
Yamasaki, Mikio.....P5-80
Yamashiro, Hideaki.....YSS2-11
Yamashiro, Hideaki.....P2-10
Yamashita, Kenichi.....P3-96
Yamashita, Kenichi.....P6-94
Yamashita, Masamichi.....YSS1-2
Yamashita, Masamichi.....P1-87
Yamashita, Seiya.....P4-23
Yamashita, Shiro.....P6-111

- Yamashita, YasuhisaP1-77
 Yamauchi, NobuhikoP4-23
 Yamazaki, Atusi P6-109
 Yamazaki, TsugumiP6-95
 Yamochi, TakayukiP1-38
 Yamochi, TakayukiP3-50
 Yanagawa, YojiroP1-13
 Yanagawa, YojiroP1-15
 Yanagawa, YojiroP2-68
 Yanagawa, YojiroP4-60
 Yanagihara, RieP5-13
 Yanagihara, RieP5-32
 Yanai, RinP2-26
 Yang, Bo-SuckP2-69
 Yang, Byoung-ChulP2-69
 Yang, Dan P5-8
 Yang, DiqiP2-90
 Yang, DiqiP2-90
 Yang, Hae-JunP3-34
 Yang, Hae-JunP3-91
 Yang, HuaP1-96
 Yang, HuaP2-107
 Yang, JianP6-36
 Yang, JianP6-75
 Yang, LeiP3-71
 Yang, LianyuP4-63
 Yang, LianyuP5-59
 Yang, LiguoP2-37
 Yang, MinghuiP5-61
 Yang, PingP2-49
 Yang, Seul-GiP3-33
 Yang, Xiaoqing P6-8
 Yang, XiaoqingP6-29
 Yang, XiaoqingP6-32
 Yang, XuP3-60
 Yang, YananP1-95
 Yang, YinghuaP1-15
 Yang, YonglinP6-119
 Yang, YujiangP4-63
 Yang, YujiangP5-59
 Yano, KiyohitoP5-13
 Yano, KiyohitoP5-32
 Yano, SachikoP2-58
 Yano, YuyaP5-33
 Yao, Qingqing C-11
 Yao, XiaoleiP1-96
 Yao, XiaoleiP4-49
 Yashima, SayakaS-1
 Yashima, SayakaP2-72
 Yashima, SayakaP3-55
 Yashima, SayakaP6-5
 Yashima, SayakaP6-11
 Yashima, SayakaP6-18
 Yasuhara, TaichiP4-56
 Yasui, TadashiP5-55
 Yasui, TakayukiP1-110
 Yasui, TakayukiP2-101
 Yasuo, WataruP6-57
 Yasutomi, YasuhiroP5-79
 Yazaki, SatokoP6-87
 Yazawa, RyosukeP6-65
 Yenugu, SureshP2-85
 Yi, Young-JooYSS3-10
 Yi, Young-JooP3-35
 Yi, Young-JooP4-54
 Yin, HongP1-48
 Ying, QinP1-65
 Ying, QinP1-116
 Yogo, KeiichiroYSS1-6
 Yogo, KeiichiroP2-23
 Yokobori, SeiyaP6-107
 Yokokawa, ManamiP5-60
 Yokoo, TakashiP6-20
 Yoneda, SaoriP6-31
 Yonekawa, RyoP4-15
 Yonezawa, TomohiroP5-66
 Yoo, Han JunP6-129
 Yoo, Han JunP6-133
 Yoo, InkyuP4-18
 Yoon, Junchul DavidP1-42
 Yoon, Pil SangP6-129
 Yoon, Pil SangP6-133
 Yoon, Seung-BinP3-34
 Yoon, Seung-BinP3-91
 Yoshida, ChikakoP5-60
 Yoshida, NobuakiP2-2
 Yoshida, NobuakiP2-4
 Yoshida, SaishuP5-27
 Yoshida, ShoseiP2-7
 Yoshida, ShoseiP6-64
 Yoshie, MikihiroP4-7
 Yoshie, MikihiroP4-15
 Yoshiki, AtsushiP6-14
 Yoshimoto, HidetakaP2-60
 Yoshimura, YukaP5-57
 Yoshimura, MikaP2-1
 Yoshimura, MitsuhiroP5-12
 Yoshimura, MitsuhiroP5-21
 Yoshimura, NanakaP5-7
 Yoshimura, YumikoP6-42
 Yoshino, HitomiP3-56
 Yoshioka, KojiP3-36
 Yoshioka, KojiP4-19
 Yoshioka, KojiP6-91
 Yoshizaki, GoroP2-1
 Yoshizaki, GoroP6-17
 Yoshizaki, GoroP6-62
 Yoshizaki, GoroP6-65
 Yoshizaki, GoroP6-103
 Yoshizaki, GoroP6-106
 Young, Julia C C-6
 Yousaf, FatimaP5-14
 Yoza, AkiyoshiP4-32
 Yu, Lin-LinP4-34
 Yu, YuansongP3-83
 Yuan, Dong-ZhiP4-34
 Yuan, YueP1-27
 Yuan, YueP2-17
 Yuan, ZhiyuP1-63
 Yue, LiangP6-25
 Yue, Li-MinP4-34
 Yue, QiulingYSS1-5
 Yue, QiulingP2-22
 Yuen, Wai ShanP1-53
 Yum, Soo-Young C-25
 Yun, Chi SunP2-63
 Yun, Chi SunP3-43
 Yun, Chi SunP6-77
 Yun, Chi SunP6-112
 Yun, ChisunP6-118
 Yun, JeongheeP6-66
 Yura, RyosukeP3-85
- Z**
- Zabielski, RomualdP4-62
 Zacchini, FedericaP6-72
 Zacharova, Natalia B.P5-74
 Zhai, YanhuiP6-85
 Zhang, ChenP1-10
 Zhang, ChenyunP1-109
 Zhang, DefuP6-97
 Zhang, DefuP6-98
 Zhang, GuominP1-67
 Zhang, GuominP4-49
 Zhang, HengP3-60
 Zhang, Jin DunP6-36
 Zhang, JindunP6-75
 Zhang, JingP3-7
 Zhang, Jin-HuP4-34
 Zhang, JunP5-49
 Zhang, KemeiP1-54
 Zhang, KemeiP1-54
 Zhang, LipingP6-3
 Zhang, MianqunP1-41
 Zhang, QinghuaP3-2
 Zhang, Qing-HuaP1-53
 Zhang, ShaopengP6-25
 Zhang, ShengP4-34
 Zhang, ShengP6-85
 Zhang, Shi-MaoP4-34
 Zhang, ShujunP2-37
 Zhang, ShushanP6-97
 Zhang, ShushanP6-98
 Zhang, TengP1-59
 Zhang, TingtingP1-96
 Zhang, TingtingP1-97
 Zhang, TingtingP4-49
 Zhang, WeiP6-25
 Zhang, WenchangP1-109
 Zhang, Xiaoyun C-11
 Zhang, XiaoyunP1-48
 Zhang, YanliP1-67
 Zhang, YanliP1-96
 Zhang, YanliP1-97
 Zhang, YanliP4-49
 Zhang, YongP3-67
 Zhang, YuP1-51
 Zhang, YueqiaoP1-14
 Zhang, YueqiaoP1-104
 Zhang, YuquanP6-8
 Zhang, YuquanP6-32
 Zhang, ZhenzhenP3-20

Zhang, Zhiren.....	P6-85
Zhao, Fang	P5-38
Zhao, Gao Ping.....	P6-36
Zhao, Jianchao.....	P3-74
Zhao, Li Xia	P6-36
Zhao, Lixia	P6-75
Zhao, Minghui	P6-66
Zhao, Wangsheng	P2-13
Zhao, Yanhong	P6-78
Zhao, You-Bo	P4-26
Zhao, You-Bo	P4-34
Zhao, Yue-Fang	P1-92
Zheng, Meihua	P1-113
Zheng, Xinmin	P6-3
Zhong, Liang	P6-25
Zhong, Sheng	P5-49
Zhou, Cheng-Jie.....	P1-92
Zhou, Dongjie.....	P3-3
Zhou, Dou	P2-90
Zhou, Xiang	C-28
Zhou, Xin	P2-47
Zhu, Aoxiang	P1-96
Zhu, Aoxiang	P1-97
Zhu, Aoxiang	P5-47
Zhu, Jia-Qiao.....	P3-4
Zhu, Jie	P6-26
Zhu, Pei Ji.....	P2-55
Zhu, Peiqi.....	P2-54
Zhu, Shien	P6-90
Zhuang, Lili	P2-63
Zhuang, Lili	P3-43
Zhuang, Lili	P6-77
Zhuang, Lili	P6-112
Ziecik, Adam	P5-42
Zitnanova, Ingrid	P5-29

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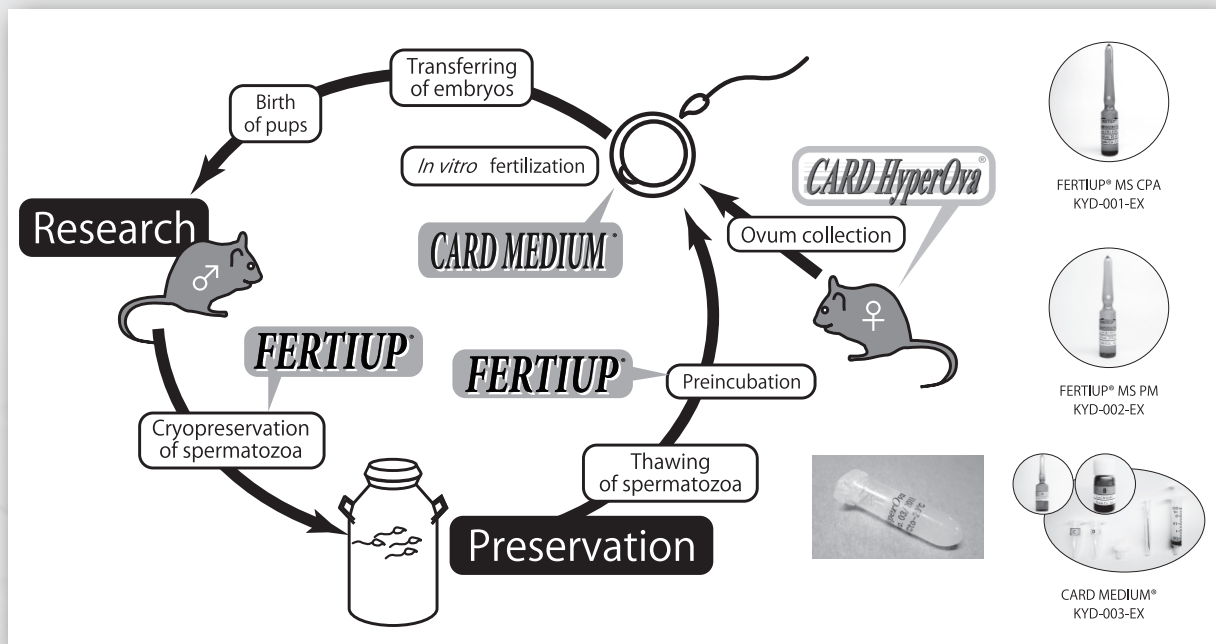
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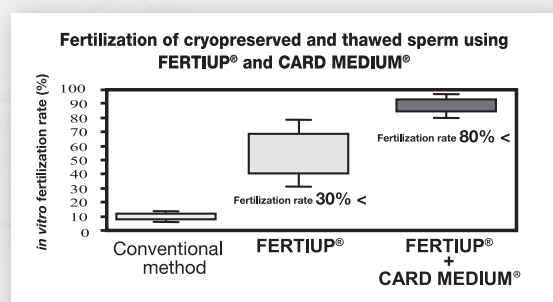
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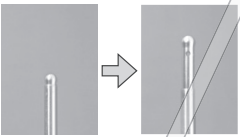
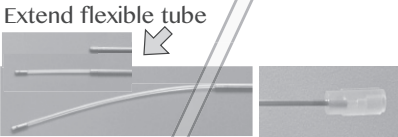
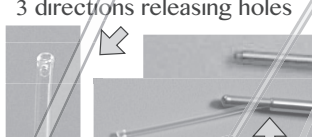
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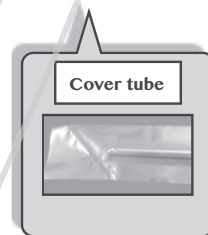
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<ul style="list-style-type: none"> • straight type • for 0.25mL straw • with plunger & ramrod * Short type available 	<ul style="list-style-type: none"> • go deep into uterine • for 0.25mL straw • with plug stick 	<ul style="list-style-type: none"> • go deep into uterine • for 0.5mL straw • with plug stick 	<ul style="list-style-type: none"> • go deep into uterine • for both 0.25 & 0.5mL straw • with plug stick
 <p>Open holes for releasing</p>	 <p>Extend flexible tube Connector for straw and syringe</p>	 <p>3 directions releasing holes Open & flexible tube extends</p>	

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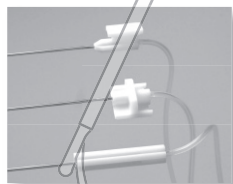


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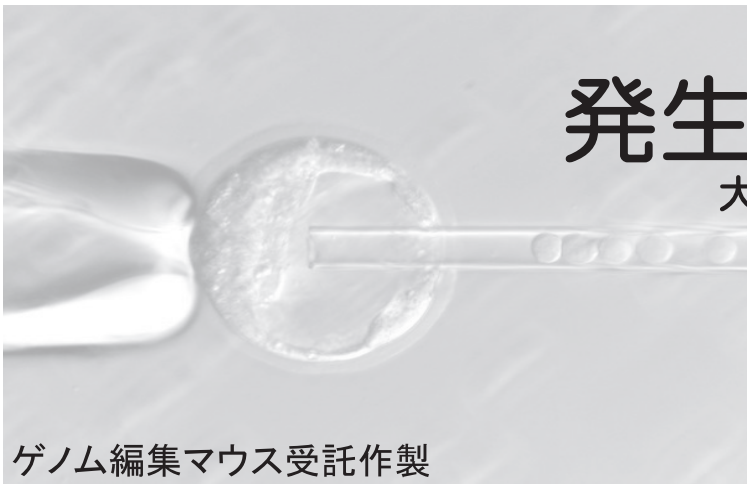
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