

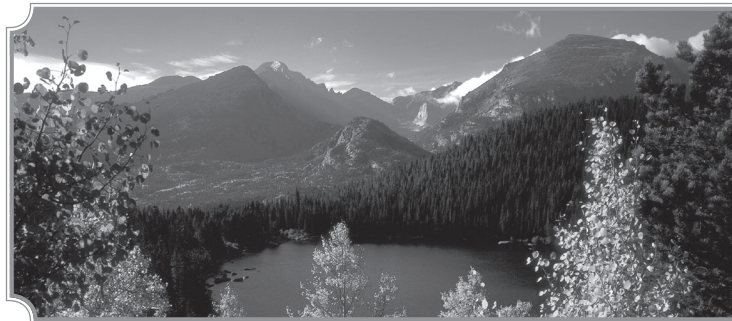
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General Information

REGISTRATION

Registration is located on the Plaza Building Concourse Level.

Monday, October 20	Noon – 7:00 PM
Tuesday, October 21	7:00 AM – 4:00 PM
Wednesday, October 22	7:30 AM – 6:00 PM
Thursday, October 23	8:00 AM – 4:00 PM
Friday, October 24	7:30 AM – 10:30 AM

SPEAKER READY ROOM

The Speaker Ready Room is located in Client Office 1 on the Plaza Building Concourse Level.

Monday, October 20	5:00 PM – 7:00 PM
Tuesday, October 21	7:00 AM – 4:00 PM
Wednesday, October 22	7:00 AM – 4:30 PM
Thursday, October 23	7:00 AM – 4:30 PM
Friday, October 24	7:30 AM – 10:30 AM

EXHIBITS/ INTERNET CAFÉ

Exhibits and the Internet café are located in the Plaza Exhibit Hall on the Plaza Building Concourse Level.

HOURS AND POSTER VIEWING

Monday, October 20	8:00 PM – 10:00 PM
Tuesday, October 21	10:00 AM – Noon 2:00 PM – 7:00 PM
Wednesday, October 22	10:30 AM – Noon 2:30 PM – 5:30 PM
Thursday, October 23	10:30 AM - Noon

POSTER MOUNTING TIMES:

Monday, October 20	3:00 PM – 7:30 PM
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*all posters should be mounted by 7:30 PM on Monday, October 20. If additional time is needed please visit the registration desk.

POSTER DISMOUNTING TIME:

Thursday, October 23	Noon – 2:00 PM
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(Any poster still in place at 2:00 PM will be discarded)



General Information

ADA COMPLIANCE

ASHI fully complies with the legal requirements of the Americans with Disabilities Act. If any participant is in need of special accommodations, please notify the hotel and indicate the type of assistance needed. ASHI cannot ensure the availability of appropriate assistance without advance notice.

CAMERAS AND CELL PHONES

The recording or taking photographs during ASHI educational programming is prohibited. Any violation of this policy may result in the offender being removed from the meeting. As a courtesy to fellow attendees, please turn off cell phones during educational sessions.

MEETING OBJECTIVES

The 40th ASHI Annual Meeting will provide participants with comprehensive state-of-the-art updates and glimpses into the future on a variety of topics related to the fields of genomics, immunogenetics, immunology, histocompatibility and transplantation. The keynote address will set the stage with a discussion of medical applications of the new supercomputers like "Watson" - a lot has happened since that computer first learned to play Jeopardy and beat the best of the best champions. Plenary and symposium sessions will then update participants on the ever-increasing knowledge of the role of HLA molecules as risk or protection factors for HIV, influenza, drug and pollen allergies, malaria and narcolepsy; on new ways of using typing for HLA and immune system genes for matching and for understanding human population history; and, on exciting new approaches to getting more people transplanted. A joint AABB Symposium will also enlighten participants about how ABO types affect transplantation.

Workshop sessions will provide participants with practical information that can be utilized right now in their laboratories and transplant programs. In 2014 these sessions will include clinically important updates on new UNOS/OPTN policies for kidney allocation and paired donor exchanges, and an ethics debate on paid organ donation. There will also be updates on using KIR, epitope websites and C1Q antibody binding tests for HPC or organ donor selection and updates on methods for clinically useful statistical calculations and for analyzing results from the latest types of next generation sequencing assays. Case studies in solid organ and stem cell transplantation provide attendees with informative presentations about specific challenges that laboratories have faced in providing testing for complex patients.

In addition, abstract and poster sessions will provide attendees the opportunity to learn about important new clinical and basic research projects that could change future laboratory and clinical practice.

After attending this meeting, participants will be able to identify important roles for histocompatibility and immune system genes that reach beyond transplantation, new ways to expand opportunities for transplantation and current best practices for selecting donors for both hematopoietic stem cell and organ transplantation. They will also be able to more critically assess various aspects of laboratory testing, from detection of clinically relevant antibodies to the very latest methods for HLA typing and for analyzing test results.

EVALUATION

Participants must complete an evaluation in order to receive a certificate documenting credits earned for attending sessions. Sessions must be attended in their entirety. Partial credit is not available. Following the meeting, complete the evaluation and print your certificate by visiting <http://2014.ashi-hla.org/> and clicking on the evaluation-specific icon. A username and password will be provided to you via e-mail upon the end of the meeting. Online meeting evaluations will be available from October 20 – December 19, 2014, after which time certificates will no longer be available.

General Information *(CONTINUED)*

PHYSICIANS

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the Institute for the Advancement of Human Behavior (IAHB) and the American Society for Histocompatibility & Immunogenetics. The IAHB is accredited by the ACCME to provide continuing medical education for physicians.

AMA PRA STATEMENT

The IAHB designates this live activity for a maximum of 33 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CHT, CHS, ABHI DIPLOMATES

The American Board of Histocompatibility and Immunogenetics has approved the 40th Annual Meeting content for a maximum of 33.0 contact hours (4.0 contact hours for Inspectors' Workshop and 29 contact hours for the conference) or 4.95 CECs (0.6 CECs for Inspector's Workshop and 4.35 CECs for the conference) of continuing education hours for completing each module.

ABSTRACT AWARDS

The following awards will be presented to the highest ranked abstracts accepted for oral presentations: ASHI Scholars, International Scholar, Best Solid Organ Case Study and Best Stem Cell Case Study. Four posters will be awarded for the following: Most Innovative, Most Clinically Relevant, President's Choice, and People's Choice.

INTERNET CAFÉ – SUPPORTED BY ABBOTT MOLECULAR

Complimentary computer stations are provided to access the Internet. The Internet café is located in the Plaza Exhibit Hall. Use of these computers is limited to 15 minutes per session.

40th ANNUAL MEETING



Hotel Information

LINK @ SHERATON

Located on Lobby Level

Complimentary computers, docking stations for laptops, and printers. Open 24 hours daily.

PENFIELD'S BUSINESS CENTER

Located around the corner from the hotel lobby

Hours:

Monday – Friday 7:00am – 7:00pm

Saturday and Sunday 8:00am – 4:00pm

RESTAURANTS

15|Fifty Restaurant

Relax and enjoy at the 15|Fifty Lounge, conveniently located next to the Link @ Sheraton. 15|Fifty Lounge features the Sheraton Social Hour from 5:00pm – 7:00pm Monday through Friday and is the ideal location to treat yourself to great wine and friendly conversation.

15|Fifty Lounge is open daily from 4:00pm - 10:00pm

16 Mix

Enjoy the scenery from 16Mix featuring an open-air patio located on the 16th Street Mall. Their team of mixologists will create you the perfect signature cocktail that compliments your style.

Pair your tasty blend with a Mile High Angus Burger or a delicious Seared Tuna Niscoise Salad.

Open daily from 3:00pm - 2:00am

Happy hour: Monday - Friday from 4:00pm - 6:00pm

Peet's Coffee & Tea

Peet's Coffee & Tea is the perfect place to jump start the day with a hot or cold beverage along with a quick snack or light lunch. Enjoy their freshly brewed and blended coffee or assorted teas while savoring the taste of their home made fresh baked pastries.

Open daily from 6:00am – 4:00pm

Yard House

Yard House Denver is an upscale-casual eatery known for great food, classic rock music and 130 taps of imported, craft and specialty ales & lagers.

Hours:

Sunday - Thursday: 11:00am - 12:00am

Friday - Saturday: 11:00am - 1:00am

Happy hour: Monday – Friday from 3:00pm – 6:00pm

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40th ANNUAL MEETING



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Abbott Molecular

105

1300 East Touhy Avenue
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Phone: (224) 279-3405
E-mail: michael.steel@abbott.com
www.abbottmolecular.com

Abbott Molecular is a leader in molecular diagnostics – the analysis of DNA and RNA at the molecular level. Abbott Molecular's tests can also detect subtle but key changes in patients' genes and chromosomes and have the potential to aid with early detection or diagnosis, can influence the selection of appropriate therapies, and may assist with monitoring of disease progression.

American Foundation for Donation & Transplantation

405

8154 Forest Hill Avenue
Suite 3
Richmond, VA 23235
Phone: (804) 323-9893
E-mail: skinner@seopf.org
www.amfdt.org

The American Foundation for Donation & Transplantation, formerly SEOPF, is the continuation of the oldest transplantation and donation professional organization in the United States. AFDT's services include: educational courses for transplant professionals (Basic & Specialist Histocompatibility Courses), proficiency testing program, insurance for transplant professionals, procurement billing, travel awards and living kidney donor insurance program. 1-800-KIDNEY9.

Axis-Shield PoC

310

P.O. Box 6863 Rodelokka
Oslo, Norway N0504
Phone: (472) 405-6000
E-mail: bjorn.henriksen@axis-shield.com
www.axis-shield-density-gradient-media.com

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Bio-Rad Laboratories

104

4000 Alfred Nobel Drive
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Phone: (510) 741-5773
E-mail: diagcs@bio-rad.com
www.bio-rad.com/diagnostics

Bio-Rad offers a complete line of industry standard HLA Serology Typing Trays (Lymphotype); Serological (Lymphoscreen) and ELISA-based (AbScreen/Abldent*) Antibody Diagnostics Systems; Molecular Typing Systems (SSO and SSP) with full automation platforms; Immune Monitoring, Infectious Disease and Traditional Blood Group Serology Products to meet your laboratory needs.

*Not available in US.



Exhibitor Company Descriptions (CONTINUED)

CEDARLANE

108

1210 Torrentine Street
Burlington, NC 27215
Phone: (336) 513-5135
E-mail: eddie.johnson@cedarlanelabs.com
www.cedarlanelabs.com

CEDARLANE is a leading distributor and manufacturer of high quality reagents to the transplant and research communities. We specialize in producing COMPLEMENT for tissue typing and bacteriocidal assays. Other manufactured products include Cedarlane's Lympholyte® cell separation media and Antibodies including our B and T cell Positive Control Antisera and antibodies to complement components.

chemagen from PerkinElmer, Inc.

405

710 Bridgeport Ave.
Shelton, CT 06484
Phone: (800) 762-4000
E-mail: office.chemagen@perkinelmer.com
www.chemagen.com

chemagen a leading supplier of automation and reagents for fast and reliable magnetic bead based DNA and RNA extraction for sample volumes from 10 ul to 10 ml for blood, tissues, saliva, bacteria, food, PCR products. All functions can be performed on the one instrument. Advantages of this unique system are fast processing, unmatched sample volume range and robust chemistry.

Conexio Genomics

406

P.O. Box 1294
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www.conexio-genomics.com

Conexio Genomics is a privately owned life sciences company, pioneering a wide range of HLA Typing products and sequence analysis/variant detection software for over a decade. With users and patients in mind, Conexio has established itself as a world leader with innovative products such as Gamma-Type™.

GenDx

505

Yalelaan 48
Utrecht 3521CM, Netherlands
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E-mail: info@gendx.com
www.gendx.com

GenDx develops and markets a comprehensive line of In Vitro Diagnostic (IVD) tests and services, analysis software and education. The company is a pioneer in the area of Sequencing-Based Typing (SBT) for transplantation. Now supporting HLA laboratories worldwide with Sanger and Next Generation Sequencing optimized workflows to get to true high resolution HLA typing. For more information please go to www.gendx.com or contact us at support@gendx.com.

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GenTrak, Inc.

216

*P.O. Box 1290
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Phone: (336) 622-5266
E-mail: sfpresearc@aol.com
www.GenTrakinc.com*

GenTrak, Inc. manufactures a quality line of classical HLA serology trays and Frozen Cell trays. HLA serology testing provides quick, cost effective results as well as useful information for molecular typing. When used in conjunction with molecular products, serological typing helps resolve ambiguities and null alleles. Please come see our new Texas BioGene Molecular products including SSP and SBT.

Histogenetics

313

*300 Executive Boulevard
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www.histogenetics.com*

Histogenetics specializes in HLA, KIR, ABO-Rh Sequence based Typing services using NGS for blood stem cell transplants. With proprietary state-of-the-art facilities Histogenetics serves clients globally. Histogenetics provides fast high throughput high resolution molecular tissue typing services for registries, donor centers, cord blood banks, transplant centers and HLA laboratories at a very competitive price.

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407

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Immucor, Inc.

301

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E-mail: kmiller@immucor.com
www.immucor.com*

Immucor is a global provider of transfusion and transplantation diagnostics. Our transfusion products include a complete line of reagents and scalable automation for immunohematology. For transplant, we provide molecular and antibody-based assays for HLA compatibility between donors and recipients. Our molecular and specialty diagnostic assays provide advanced technology for compatibility, hemostasis and platelet antibody testing.



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110

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www.labcorp.com

Laboratory Corporation of America® Holdings (LabCorp®) operates one of the nation's most extensive clinical laboratory networks. LabCorp has one of the largest and most experienced HLA testing laboratories, providing comprehensive HLA analysis, KIR genotyping, anti-HLA antibody testing, crossmatch, Immuknow, and Chimerism analysis. LabCorp's Specialty testing services are offered globally.

Labs, Inc.

113

6933 S. Revere Parkway
Centennial, CO 80112
Phone: (303) 979-2500
www.labs-inc.org

LABS, Inc. is a non-profit, mission-driven provider of donor eligibility testing for solid organ, tissue and human cells. We help ASHI members by providing 24/7/365 quality laboratory services that contribute to sound transplantation decisions and help improve clinical outcomes. With 30 years' experience, LABS continues to look beyond the test result to help each member fulfill their mission to shape a brighter future for the transplantation community.

Linkage Biosciences, Inc.

100

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E-mail: emitshell@linkagebio.com
www.linkagebio.com

Real-Time PCR HLA Typing. LinkS^{eq}™ is the fastest and easiest method available for HLA typing – no more gels or probing and washing. Less hands on time is required, and LinkS^{eq} provides HLA Typing results, including DP, in under 90 minutes. LinkS^{eq} – Accurate, Fast, Easy HLA Typing. For more information, please visit www.linkagebio.com.

Miltenyi Biotec

312

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San Diego CA 92121
Phone: (858) 202-0700
E-mail: lilam@miltenyibiotec.com
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Miltenyi Biotec's mission is to improve scientific understanding and medical progress. We provide products and services that advance biomedical research and cellular therapy. Honoring this mission drives our commitment to support the translation of basic research into therapy in the areas of immunology, cancer, neuroscience and stem cell biology. We innovate products that address sample preparation, separation of cells and their analysis, and that advance the concept of cellular therapy. "Researchers working for researchers" is our promise to provide pioneering products to our customers.

Exhibitor Company Descriptions *(CONTINUED)*

mTilda

511

5292 Lost Creek Road
Eagle Point, OR 97524
Phone: (541) 826-6581
E-mail: barbara@mtilda.com
www.mtilda.com

With over a decade of perfecting the user's approach, this HLA management software offers unprecedented abilities for search, vendor integration, accuracy and ease of use. A remarkably robust and completely integrated approach that allows you to do more faster, better and more accurately. Stop by for a demo!

National Marrow Donor Program, Bioinformatics Research

116

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<https://bioinformatics.bethematchclinical.org/>

NMDP: Bioinformatics Research

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Olerup, Inc.

101

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Olerup is a life science company with a focus on transplantation that provides high quality products and services, in order to facilitate safe and effective bone marrow and solid organ transplants. Olerup is the global distributor of innovative molecular diagnostic products and services for transplantation: HLA typing (Olerup SSP® and SBT Resolver™) and for non – HLA antibody detection (XM-ONE®). Olerup's product offerings are distributed through Olerup, Inc. (Americas) and Olerup GmbH (Rest of World).

Omixon

506

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Omixon is a global biotechnology company that commercializes disruptive innovations specializing in targeted applications for Next Generation Sequencing (NGS). The Omixon Hologtype HLA™ product combines a targeted HLA Assay and the Omixon HLA Twin™ software to deliver the most accurate high-resolution HLA genotyping available. Omixon maintains an active grant-funded research program and assists scientists and clinicians to analyze the most challenging genomic regions including HLA, KIR and ABO.



Exhibitor Company Descriptions (CONTINUED)

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201

21001 Kittridge Street
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One Lambda, Inc., is celebrating 30 years as the global leader in transplant diagnostics and continues to offer a broad range of products to support clinicians and laboratories in the management of transplant patients. In addition to donor specific antibody (DSA) assays, our line of monitoring products includes both complement and non-complement binding assays. Our typing portfolio includes products from serology to NGS. Visit the One Lambda booth to discover how we can help you improve the standard of care in your transplant programs.

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307

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504

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Promega Corporation

111

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Promega Corporation is a leader in providing innovative solutions to life science, forensic, clinical research and molecular diagnostics markets. Our products consist of kits, reagents and automated platforms. The new Maxwell® RSC Instrument is compatible with the Quantus™ Fluorometer, enhancing your HLA laboratory workflow by providing integrated quantification of extracted nucleic acid. Stop by the Promega booth to learn more.

Exhibitor Company Descriptions (CONTINUED)

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408

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Hockenheim, Germany 68766
Phone: +49 620 529 2990
E-mail: mail@protrans.info
www.protrans.info*

PROTRANS is a company for research, development and production of Diagnostic Products for Organ- and Bone Marrow Transplantation, located in Germany, near Frankfurt and next to the University City of Heidelberg www.protrans.info

QIAGEN

512

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E-mail: ronda.keys@qiagen.com
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QIAGEN is the leading global provider of sample and assay technologies that are used to transform biological materials into valuable molecular information. QIAGEN markets more than 500 products around the world, selling both consumable kits and automation systems to four customer classes: Molecular Diagnostics, Academia, Applied Testing, and Pharma.

Scisco Genetics, Inc.

510

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Scisco Genetics is dedicated to providing laboratories with state-of-the-art sequencing technologies through an integrated genotyping system (IGS). Using our system, clinical laboratories – already driving the transformation to precision medicine – can accelerate the innovation process and prevent the technological and informational stagnation consequent from widespread outsourcing of clinical testing.

Solid Phase Immunoassays Website

210

*2041 East Monument Street
Baltimore, MD 21205
Phone: (410) 955-3600
www.immunoassays.net*

Members of the Johns Hopkins Immunogenetics Laboratory have created a website for all things related to solid phase antibody immunoassays. The website was created in response to discussions at the 16th International Histocompatibility and Immunogenetics workshop. At www.immunoassays.net, you can enter into discussions about test interpretation and troubleshooting. The site provides information on the latest assays, performance of different test lots, correlations between solid phase and cell based test results, and serum treatments. There is information on bead assays, flow cytometry and ELISA as well as links to relevant publications. Please visit the website and become a member at www.immunoassays.net. You can become a site moderator and lead discussions.

Match Program Update

Please visit our booth for information on the updated version of the match program for living donor transplants, now in worldwide use to help transplant centers manage their kidney exchange programs.



Exhibitor Company Descriptions *(CONTINUED)*

STEMCELL Technologies Inc.

500

570 West 7th Avenue
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www.stemcell.com

STEMCELL Technologies provides fast and easy cell isolation solutions for HLA and chimerism analysis, facilitating high-volume sample processing and reliable results. EasySep™ and RosetteSep™ are fast, gentle on cells, and stable at room temperature. SepMate™ isolates PBMCs in just 15 minutes, and RoboSep™ fully automates cell isolation, saving technician time and eliminating cross-contamination.

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214

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SystemLink, Inc.

411

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E-mail: mgunessever@systemlink-inc.com
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Visit the SystemLink booth to learn about building a complete, customizable HLA laboratory management system to meet the needs of your laboratory. HistoTrac is a seamless system with flexible design, providing functionality to make data entry and data access quick and easy.

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See the HistoTrac software for yourself - in the exhibit hall or in your office.

Exhibitor Company Descriptions *(CONTINUED)*

Texas BioGene

213

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E-mail: willy@texasbiogene.com
www.texasbiogene.com

Texas BioGene Inc. offer SSP kits for low to medium resolution typing and SBT kits containing both Generic and Group Specific Amplification (GSA) primers for high resolution sequencing. We also offer simple automation solutions for SSP, SSO, SBT and NGS preparation. Please come to visit our booth for more information.

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112

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E-mail: jriley@therapak.com
www.therapak.com

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Transplant Genomics Inc

501

1501 Beacon Street
#1903
Brookline, MA 02446
Phone: (608) 217-7978
E-mail: courtney@transplantgenomics.com
www.transplantgenomics.com

Transplant Genomics Inc. (TGI) is a molecular diagnostic company committed to working with the transplant community to improve organ transplant outcomes. TGI will deliver noninvasive serial monitoring tests that provide clinicians with clear, actionable information to optimize immunosuppression therapy, enhance patient care and improve graft survival.

Viracor-IBT Laboratories

211

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With 30+ years of specialized expertise in infectious disease, immunology and allergy testing for immunocompromised patients, Viracor-IBT gets results faster, when it matters most. We are passionate about delivering value to our clients, never losing sight of the connection between the testing we perform and the patients we serve.



Paul I. Terasaki Clinical Science Award

The Paul I. Terasaki Clinical Science Award was established in 2003 to honor an individual, group, or institution in recognition of significant accomplishments and/or contributions to the fields of clinical transplantation, histocompatibility and immunogenetics. This award was made possible by a grant from the Paul I. Terasaki Foundation.

THE WINNER OF THE 2014 PAUL I. TERASAKI CLINICAL SCIENCE AWARD IS:



Robert A. Bray, PhD
Emory University Hospital

Robert A. Bray, PhD, is currently a Professor in the Department of Pathology and Laboratory Medicine, School of Medicine, at Emory University. He is also the Co-Director of the Histocompatibility & Molecular Immunogenetics Laboratory at Emory (1989–Current). Dr. Bray received his undergraduate degree (1977) from Indiana University, Bloomington, Indiana and graduate degree (Ph.D. – Immunology) from Indiana University School of Medicine in Indianapolis, Indiana (1985). He did a post-doctoral fellowship at Rush Medical Center in Chicago, Il. (1985–1987) and subsequently, he became an Assistant Professor in the Department of Immunology/Microbiology and Assistant Director of the Clinical Immunology Laboratory (1987–1989) at Rush Medical Center. In 1989 Dr. Bray moved to Atlanta and Emory University. Initially, he was an assistant professor, and co-director of the HLA laboratory with Dr. Glenn Rodey. Dr. Bray also established and directed the diagnostic flow cytometry facility at Emory University from 1990 to 1997. He was promoted to Professor in 2001. Dr Bray is a past President of ASHI and has served on several Committees within UNOS, SEOPF (now AFDT),

ASHI, ABHI and the NMDP. Some selected examples are: Past chairman, Proficiency Testing Committee (SEOPF), ASHI/ARB Regional Commissioner, Member and former Chair, ABHI Laboratory Director's Examination Committee, Past Chairman, ABHI Credentials Review Committee, Member and former Chair, NMDP Histocompatibility Committee, and former UNOS board member (as ASHI President). Dr. Bray is also currently serving as the UNOS Region 3 Histocompatibility representative and vice-chair of the Histocompatibility committee.

The Rose Payne Award

The Rose Payne Award was established in 1984 to honor a great scientist and to recognize her longstanding contributions to the field of immunogenetics. As a founding member of ASHI, Dr. Rose Payne was always willing to share her knowledge and assist others in their endeavors. For more than 30 years, Dr. Payne made significant contributions in areas related to HLA. The Rose Payne Award was established as a tangible recognition of the high regard in which she was held.

THE WINNER OF THE 2014 ROSE PAYNE AWARD IS:



John A. Hansen, MD

Fred Hutchinson Cancer Research Center

(Award Supported by STEMCELL Technologies, Inc.)

Dr. Hansen was born in Minneapolis, Minnesota and graduated from the University of Minnesota with a BA in Biological Sciences. He received an MD from Stanford University. During medical school his research elective involved the study of canine cardiac allografts in the Cardiovascular Surgery laboratory of Dr. Norman Shumway. To pursue further his interest in transplantation immunology, he chose a fifth year research elective to work in transplant immunology in the laboratory of Professor Leslie Brent, St Mary's Hospital, London aimed at inducing specific tolerance to skin allografts in a murine model by administration of ALS following intravenous priming with cell membrane extracts.

After graduating from medical school, Dr. Hansen continued his clinical training in internal medicine at the University of Minnesota where major advances were underway in clinical bone marrow transplantation (BMT) led by the very charismatic and inspiring Immunologist Dr. Robert A. Good. Dr. Hansen joined Dr. Good's group as research fellow and was soon

recruited by Dr. Bo Dupont to his laboratory and studies aimed at understanding the genetics of BMT, and identifying HLA functional polymorphisms and haplotype structure of the HLA-D region. When Dr. Good and his team moved to Memorial Sloan Kettering Cancer Center (MSKCC) in 1972/73, Dr. Hansen followed drawn by the opportunity to help establish a new clinical BMT program and continue his research in the Dupont laboratory.

In 1977, Dr. Hansen was recruited by Dr. E. Donnell Thomas to the Fred Hutchinson Cancer Research Center (FHCRC) and Puget Sound Blood Center (PSBC) in Seattle as a member of the Bone Marrow Transplant (BMT) program and Director of the HLA laboratory. In 1979 Dr. Hansen led the Seattle team an effort to identify an HLA matched unrelated donor for an ALL patient therapy resistant disease who lacked an HLA identical sibling. The patient achieved complete donor cell chimerism after myeloablative BMT and had an uneventful recovery with no graft-versus-host disease; unfortunately leukemia eventually recurred after more than a year in remission. This seminal clinical breakthrough was published as a case report in the *New England Journal of Medicine* in 1980 and stimulated wide-spread interest in expanding the lifesaving potential of BMT to other patients lacking a matched related donor. To meet the need for HLA typed volunteer BMT donors, Dr. Hansen collaborated with Drs. Jeffery McCullough and Herb Perkins to apply for a grant from the Office of Naval Research to establish a network of donor centers, transplant centers and a coordinating center now known as the National Marrow Donor Program (NMDP). NMDP facilitated the first unrelated donor matching and BMT in 1986 and spectacular growth and medical benefit followed thereafter. Dr. Hansen served several years as a member of the NMDP Board of Directors and was also Board Chairman.

Dr. Hansen is currently a Member of FHCRC, Professor of Medicine, University of Washington, and an Attending Physician in the SCCA Hematopoietic Cell Transplant program Medical Director of the Seattle Cancer Care Alliance (SCCA) Clinical Immunogenetics Laboratory.

Addendum

During his medical school research training at Stanford, Dr. Hansen was often the courier of blood samples from cardiac allograft recipients to Dr. Rose Payne's laboratory for DLA typing and alloantibody screening. He soon learned that Dr. Payne was very cordial, and also that she had a well-earned reputation for asking fellows and students critical but encouraging questions. He recalls looking forward to these encounters, sometimes challenging but always interesting.



ASHI Distinguished Scientist Award

The ASHI Distinguished Scientist Award was established in 2001 to honor a distinguished scientist who is an ASHI member. This individual must have contributed significantly to the field of immunogenetics and/or transplant immunobiology.

THE WINNER OF THE 2014 ASHI DISTINGUISHED SCIENTIST AWARD IS:



Prof. Dr. Clara Gorodezky

Fuente De La Acordada No. 9

(Award Supported by Bio-Rad Laboratories)

Professor Clara Gorodezky is the Head of the Department of Immunology and Immunogenetics of The Instituto de Diagnóstico y Referencia Epidemiológicos of the General Direction of Epidemiology at The Secretary of Health in Mexico, since 1983. Her undergraduate training at the National Autonomous University of Mexico (UNAM) was in Pharmaco-Biological and Chemistry Sciences and her Masters and PhD degrees were on Immunology. Her first role was as an associate scientist at the Laboratory of Immunology of The Secretary of Health in Mexico City, where she pioneered the area of Histocompatibility in Mexico, together with her mentor, Prof. Mario Salazar Mallén. She published the first scientific worldwide papers on the diversity of Mexican Mestizo population and Mexican Nahuas and Otomies in 1972 and was a world pioneer in HLA and disease with her publications on HLA and disease in lepromatous leprosy and autoimmune diseases in Mexicans in 1973.

Clara was trained in Basic Techniques in Radioisotopes and Radiobiology at The Institute of Physics of UNAM & Nacional Institute of Nuclear Energy-INEN (1968); on Immunity of Infectious Diseases, WHO. Institute de Biochemié, Université du Lusanne, Switzerland (1974); she was a fellow in Histocompatibility with Prof. Jean Dausset at The Hôpital Saint Louis in Paris (1978) and with Dr. Paul Terasaki at The Immunogenetics Laboratory of The UCLA in Los Angeles, CA, in Workshop analysis data (1983). Here academic experience is enormous and has trained since 33 years ago many students for all the Latin-American Histocompatibility and Immunogenetic labs, helping them to get started with the available technology for the clinical purposes and research, having organized as a Director and Professor, The International Current Courses on Histocompatibility and Molecular Genetics sponsored by The American Society of Histocompatibility and Immunogenetics,-ASHI, UNAM and ABHI, since 1982. She became a Professor of Immunology of The Graduate Programs of Immunology and Microbiology at The National School of Biological Sciences of The National Polytechnic School in Mexico (IPN) since 1982 and Professor and Thesis Mentor of The Graduate Programs of Medical and Biomedical Sciences at The UNAM since 1986.

Clara has published 172 original articles in scientific journals, 69 Book Chapters and 10 books. She has mentored 52 PhD and MSc students and is a member of 11 International and 8 National Scientific Societies. She is a Member of The National Council of Research (SNI), since 1984; she got the maximum degree (Level 3). She is a Member of The Mexican Academy of Sciences (1984) and of The National Academy of Medicine (1994), who recommends to the Mexican Government the health politics and standards to be followed. Clara has given 698 invited talks and poster and oral presentations in different parts of The USA, Europe, Latina America, Asia, Australia & South-Africa.

She was awarded as an International Councilor for the International Histocompatibility Workshops in 1996 and has been actively participating, as well as chaired different components in the International Workshops since 1973, working on Molecular Anthropology and detecting polymorphisms in different Mexican Mestizo populations along the Country, and identifying new alleles and migration patterns and studying the epidemiological impact of HLA genes, KIRs, cytokine SNP polymorphisms and mHA in different Mexican Indian groups as well. She pioneered the studies on the association mechanisms of Type I Diabetes in Latin American groups and showed the contribution of DRB1 locus in this disease expression. She has received multiple national and International Awards. She serves as a reviewer and on Editorial boards of Human Immunology, Tissue Antigens, Immunology,

ASHI Distinguished Scientist Award *(CONTINUED)*

Immunological Methods, Immunity, Leukemia Research, Human Biology & Genes & Immunity. She co-founded the Latin American Society of Histocompatibility & organized one of the Latin American Workshops in Mexico City as well as a Symposium on Molecular anthropology, at The National Museum of Anthropology, and organized The International Summer School (2005), among other important academic international activities.

Clara became an ASHI member in 1980 and has served since then several Committees: She served as as the Chair of the International Affairs Committee for 10 years; she has participated in the Educational Committee since many years ago and has been part of the Faculty at the SEOPF Courses (1988-1994). Since 2001, she directs and organizes the **International Symposium on Hematopoietic Stem Cell Transplantation**, at the National Academy of Medicine, with the **Academic Recognition and Educational Credits of the Division of Post-graduate Studies of the Faculty of Medicine, National University of Mexico-UNAM**.

Most important is that Clara was a founder of The Fundación Comparte Vida A.C. (1998), a non-profit Organization, where she became the President of the Board since 2000. With this, she created and leads **The Mexican Unrelated Bone Marrow Donor Registry- DONORMO** in 1998 & **The Altruistic Mexican Cord Blood Bank-BACEC** in 2002, and started in Mexico the Program of BMT with unrelated donors. Among the several awards she has received, she got international grants from NIH and from the European Community for research studies in Immunogenetics of Cervical Cancer and on Molecular characterization of the Mexican groups. Finally, her contributions to the Public Health System in Mexico have been very valuable, with recommendations and discussions at The Forum For Installing, The Law Of Human Cloning In Mexico: (House of Representatives, 2002). At the House of Representatives, to establish the Mexican Law of Solid Organ Donation, 2003. Establishment of Standards and laws for HSC donation and for CB donation (the Senate); (2005, 2007, 2009 2012). Clara was an Invited Speaker, by the NIH, NCR, NSF, National Sciences and Engineering Research Council of Canada, CONACyT, Canadian Institutes of Health, European Commission, at the North American Gender Summit, 2013, Washington, to discuss "Researching sex effects in susceptibility to cancer". At the National Academy of Medicine, The Superior Court of Justice of Mexico and the Mexican Association of the Pharmaceutical Industry, Clara was invited to assess Secretary of Health, on Challenges to universalize the Mexican Health System, 2014.

ASHI Distinguished Service Award

The ASHI Distinguished Service Award was established in 1999 to honor colleagues who have contributed significantly to serving ASHI.

THE WINNER OF THE 2014 DISTINGUISHED SERVICE AWARD IS:



Paul Warner, PhD, D(ABHI)

Puget Sound Blood Center

(Award Supported by Linkage Biosciences, Inc.)

Paul was born in Salmon, Idaho, and his family moved to Montana when he was a young boy. He received his Bachelor's degree in Microbiology from Montana State University, and then went through Medical Technologist training in Spokane, Washington. Upon gaining board certification as a medical technologist, he started working as a technologist in the HLA lab at Inland Northwest Blood Center in Spokane, Washington, and immediately realized he had found a profession he would never leave. During the 14 years Paul worked at the INBC HLA lab, he went back to school part-time to get his Masters degree in biology, and spent a lot of his free time climbing, hiking, fishing and skiing in the Inland Pacific Northwest. In 1999, Paul was admitted to graduate school at Washington State University, and received his PhD in 2003. Paul then moved to Seattle to work at the Puget Sound Blood Center HLA lab, and became a credentialed HLA lab Director in 2007.



ASHI Outstanding Technologist Award

The Outstanding Technologist Award has honored some of the most active and creative technologists in the field of HLA. Candidates must have made significant and sustained contributions to ASHI. The Outstanding Technologist Award is dedicated to all ASHI technologists past, present and future for the fine work they do every day in creating better patient outcomes and saving lives.

THE WINNER OF THE 2014 OUTSTANDING TECHNOLOGIST AWARD IS:



Donna P. Lucas, MS, CHS

Johns Hopkins University

(Award Supported by National Marrow Donor Program)

Donna Lucas is currently the research manager for the Immunogenetics Laboratory at the Johns Hopkins University School of Medicine in Baltimore, MD. She received a BA from Wittenberg University in biology and a master's degree in biotechnology from the Johns Hopkins University. She began her career in HLA in 1980 under the direction of Dr. Wilma Bias performing serum protein and red cell enzyme electrophoresis and MLCs. She then took a 7 year hiatus from histocompatibility working in the Johns Hopkins Neuromuscular research laboratory. She returned to the field in 1992 to work as a research tech for Dr. Mary S. Leffell who had been appointed as co-director to the Immunogenetics Laboratory along with Dr. Bias. Several years later Dr. Andrea Zachary joined the laboratory when Dr. Bias retired. Donna has continued to work for Drs. Zachary and Leffell since then overseeing research projects and aiding in the development and implementation of new technologies and methodologies in the laboratory.

With the support and encouragement of her laboratory directors Donna has been an active member of ASHI for more than twenty years and was accredited as a Certified Histocompatibility Specialist in 1996. She is currently serving on the organization's board of directors and is a member of proficiency testing committee. Additionally she has served on the program planning committee, Accreditation Review Board and has served as an ASHI inspector for many years. Donna has supported both regional and national ASHI meetings as a moderator and speaker. She has contributed to the ASHI Lab Manual and coauthored more than 20 peer reviewed articles and chapters and 40 abstracts and posters.

Donna is a member of the Transplantation Society and AST and serves on the Examination Committee for the American Board of Histocompatibility and Immunogenetics.

Donna states that her career in HLA has been a wild ride with rarely a dull moment and has been honored to be part of ASHI and worked with such an exceptional group of people. She looks forward to working with new people and learning new things.

The ASHI Rising Star Award

The ASHI Rising Star Award (formerly the ASHI/AFDT J. Marilyn MacQueen Award) recognizes an outstanding HLA technologist who has worked in the field for fewer than three years and desires to pursue a career in HLA.

THE WINNER OF THE 2014 RISING STAR AWARD IS:



Alyson A. Morris, BS, CHT

Johns Hopkins University Immunogenetics Lab

Alyson Morris was born and raised in Baltimore, Maryland and earned a Bachelor of Science degree in Biology from High Point University in 2011. Following graduation, Alyson began a career in clinical histocompatibility and immunogenetics with the Johns Hopkins University Department of Medicine as an Immunogenetics Technologist. The Johns Hopkins Immunogenetics Laboratory is a notably recognized tissue typing lab and serves renal, thoracic, and bone marrow transplantation programs within the Johns Hopkins Comprehensive Transplant Center and the Inova Transplant Center.

Through this position Alyson gained experience in solid-phase immunoassays, flow cytometric and cytotoxic crossmatch tests, intermediate and high resolution HLA typing, and sample accessioning. Additionally, when the lab introduced new clinical assays for non-HLA antibodies, she was trained in flow cytometric crossmatch testing using endothelial cell precursors as targets and in ELISA testing for

angiotensin II receptor type-1 (AT1R) antibody. Alyson also works cooperatively with supervisors, transplant coordinators, and surgeons while on call for the deceased donor program.

Shortly after obtaining her Histocompatibility Technologist certification from the American Board of Histocompatibility and Immunogenetics in September of 2012, Alyson began a research project exploring the role of C1q-activating donor-specific antibodies in renal transplantation recipients, concomitant with a rejection episode. With the assistance of her laboratory directors and supervisors, Alyson submitted an abstract to the ASHI 39th Annual Meeting in Chicago, IL that was accepted for an oral presentation in the Case Studies in Solid Organ Transplantation Workshop. Further, Alyson was a contributing author on two additional ASHI meeting abstracts submitted in 2013 and 2014, respectively.

Alyson has experienced both sides of transplantation, as her friend is a bone marrow transplant recipient and her aunt was a deceased organ donor. With her family, Alyson participates in the annual Dash for Organ and Tissue Donor Awareness sponsored by Gift of Life in Philadelphia. Through these experiences Alyson has become more connected to the field of histocompatibility and immunogenetics and has gained a unique perspective into transplantation.

Alyson is currently pursuing a Master of Science degree in Biotechnology at the Johns Hopkins University and hopes to continue to expand her role outside of the laboratory through training as a lab inspector and volunteering for an ASHI committee in the coming year. Alyson is appreciative of the opportunities afforded to her and extends her thanks to the Johns Hopkins Comprehensive Transplant Center and to the Johns Hopkins Immunogenetics Laboratory, as well as to her laboratory directors, supervisors, and coworkers for aiding in her development as a new HLA technologist.



ASHI Scholars and International Scholar Awards

The best abstracts submitted for the 2014 Annual Meeting will be recognized during the Awards Symposium and the submitters will give an oral presentation during the Special Abstract Scholar Session. These abstracts received the highest rating by the reviewers, and the awards are provided to recognize individuals who made a significant advance in either clinical or basic research areas. The authors were selected from more than 230 submitted abstracts. Recipients receive a monetary award and certificate of recognition for their research.

SPECIAL ABSTRACT SESSION: SCHOLAR AWARDS

Thursday, October 23

2:00 PM – 3:30 PM



Neema Mayor, BSc (Hons), PhD - ASHI International Scholar
*Anthony Nolan Research Institute
London, United Kingdom*

Abstract #59-OR: GENERATION OF 252 HLA CLASS I GENOMIC SEQUENCES IN A SINGLE SEQUENCING REACTION USING DNA BARCODES AND SINGLE MOLECULE REAL-TIME (SMRT) DNA SEQUENCING TECHNOLOGY
(Award Supported by Elsevier)



E. Victoria Turner, PhD, D(ABHI) - ASHI Scholar
*St. Jude Children's Research Hospital
Memphis, TN*

Abstract # 56-OR: EFFECTS OF KIR 3DL1 AND HLA-Bw4 MISCLASSIFICATION ON DONOR SELECTION FOR NATURAL KILLER CELL THERAPY
(Award Supported by mTilda HLA Software Specialists)



Curtis McMurtrey, PhD - ASHI Scholar
*University of Oklahoma Health Sciences Center
Oklahoma City, OK*

Abstract #57-OR: DEEP LIGAND SEQUENCING REVEALS OVER 200 HLA-A*02:01 TOXOPLASMA GONDII LIGANDS



Yi-Ping Jin, MD - ASHI Scholar
*University of California Los Angeles
Los Angeles, CA*

Abstract #58-OR: PROTEIN TYROSINE KINASES SRC AND PI3K REGULATE HLA-II ANTIBODY-INDUCED SURVIVAL PROTEIN EXPRESSION IN ENDOTHELIAL CELLS

Schedule at a Glance

Monday, October 20

8:30 am - 5:00 pm	GenDx User Group Meeting: SBT HLA Teaching Session Director's Row H
10:00 am - 1:00 pm	Omixon Biocomputing User Group Meeting: Novel Allele Discovery with Omixon HLA Twin™ Plaza Court 7
Noon - 4:00 PM	Accreditation Inspectors' Training Workshop Plaza C
Noon - 7:00 PM	Registration Open
5:00 PM - 7:00 PM	Accreditation, Standards, Proficiency Testing and Director Training and Review Program Updates Plaza Ballroom ABC
7:00 PM - 8:00 PM	Keynote Address: When Sherlock Holmes Can't Solve the Case - Watson to the Rescue! Plaza Ballroom ABC Welcome <i>Marilyn S. Pollack, PhD, D(ABHI)</i> Introduction <i>John A. Gerlach, PhD, D(ABHI)</i> Murthy Devarakonda, PhD <i>IBM Thomas J. Watson Research Center</i>
8:00 PM - 10:00 PM	Welcome Reception & Poster Viewing Plaza Exhibit Hall/Foyer Immucor Lounge is open - complimentary beverages provided

Tuesday, October 21

7:00 AM - 4:00 PM	Registration Open
8:00 AM - 9:30 AM	Plenary I: HLA and the Immunogenetics of Infectious Disease Plaza Ballroom ABC HIV-1 and Dengue Virus Diversity, Immunogenetics and Vaccine Field Trials in Thai Populations Henry Stephens, PhD, BSc (Hons) <i>University College London</i> HLA & Influenza Paul Thomas, PhD <i>St. Jude Children's Research Hospital</i> Moderators David Eckels, PhD, D(ABHI) Jill Hollenbach, PhD



Schedule at a Glance *(CONTINUED)*

9:30 AM – 10:00 AM

AM Refreshment Break
Immucor Lounge is open

10:00 AM – Noon

Symposium I: The Role of HLA in Vaccines and Allergic Reactions
Plaza Ballroom ABC

HLA Restriction in Drug and Pollen Allergies
Bjoern Peters, PhD
La Jolla Institute for Allergy & Immunology

Influenza Vaccine Leading to Narcolepsy
Emmanuel Mignot, MD, PhD
Stanford University

An Overview of the Role of HLA on Vaccine Response
Gregory Poland, MD, MACP, FIDSA
Mayo Clinic and Foundation

Moderators
William Hildebrand, PhD, D(ABHI)
Neil Greenspan, MD, PhD

Noon – 2:00 PM

User Group Luncheons:
Overview of Illumina Technology & Applications
Governor's Square 12
Linkage Biosciences, Inc.: Learn the Benefits of Real-Time PCR HLA Typing
Plaza D
One Lambda, Inc. A Thermo Fisher Scientific Brand: Bridges Between the Phenotype of Circulating Antibodies & the Phenotype of Antibody-mediated Injury in Solid Organ Transplants
Plaza EF
STEMCELL Technologies, Inc.: Tutorial
Governor's Square 10

2:00 PM – 3:30 PM

Workshop 1: New UNOS Kidney Allocation and Paired Donor Exchange Policies
Plaza AB
Lee Ann Baxter-Lowe, PhD, D(ABHI)
Children's Hospital of Los Angeles
Dolly Tyan, PhD, D(ABHI)
Stanford University
Moderator
Deborah Crowe, PhD, D(ABHI)

Schedule at a Glance *(CONTINUED)*

Workshop 2: Use of KIR in Donor Selection

Plaza C

Sarah Cooley, MD
University of Minnesota

E. Victoria Turner, PhD, D(ABHI)
St. Jude Children's Research Hospital

Moderators

Jill Hollenbach, PhD
Paul Norman, PhD

Abstract Session 1: New & Improved NGS

Governor's Square 14

Moderator

Daniel Geraghty, PhD

Abstract Session 2: Optimization of Histocompatibility Testing

Governor's Square 15

Moderator

Nicholas DiPaola, PhD

3:30 PM – 4:00 PM

PM Refreshment Break

ImmuCor Lounge is open - complimentary beverages provided

4:00 PM – 5:30 PM

Workshop 3: From Research Abstract to Publication: Finding and Telling Your Story

Plaza C

Steven Mack, PhD, BA
Children's Hospital Oakland

Thomas Annesley, PhD, DABCC, FACB
The University of Michigan

Moderator

David Partlow, MBA, MS

Workshop 4: The Ethics of Live Donation

Plaza AB

Igal Kam, MD
University of Colorado Denver

Gabriel Danovitch, MD
UCLA Division of Nephrology

Moderators

Brett Loehmann, CHT, CHS
Christine Miller

5:30 PM – 7:00 PM

Poster Session & Reception

Plaza Exhibit Hall/Foyer

7:00 PM – 9:00 PM

ASHI/ARB Inspectors' & International Reception (by invitation only)

Governor's Square 10 & Governor's Foyer



Schedule at a Glance *(CONTINUED)*

Wednesday, October 22

7:30 AM – 6:00 PM	Registration Open
6:30 AM – 8:00 AM	Run for a Life 5K Fun Run/Walk (Shuttle to City Park at 6:15 AM)
8:30 AM – 10:00 AM	Plenary II: New Directions for the Characterization of the MHC Plaza Ballroom ABC
	Generating Full-Length HLA Haplotypes Paul Norman, PhD <i>Stanford University School of Medicine</i>
	Typing Immune System Genes from SNP Array Data Stephen Leslie, BSc Hons, DPhil <i>Murdoch Children's Research Institute</i>
	Moderators Dimitri Monos, PhD Marcelo Fernández-Viña, PhD, D(ABHI)
10:00 AM -10:30 AM	AM Refreshment Break Immunor Lounge is open
10:30 AM – 12:30 PM	Symposium II: HLA and the Genome: From Ancestry to Identity Plaza Ballroom ABC
	Mapping the Match: Genetic Ancestry and Self-Identification in 21st Century America Jill Hollenbach, PhD <i>University of California San Francisco School of Medicine</i>
	The Origin of Modern Humans Within Africa Brenna Henn, PhD <i>Stony Brook University</i>
	The Enigma of Easter Island: Evidence of an Early Contribution of Native Americans Erik Thorsby, MD <i>Institute of Immunology</i>
	Moderators Derek Middleton, DSc, PhD, FRCPath Henry Erlich, PhD
12:30 PM – 2:30 PM	User Group Luncheons: Immunor, Inc. Plaza F Olerup Luncheon Governor's Square 12 One Lambda, Inc. A Thermo Fisher Scientific Brand: NXType™: A Solution to Next Generation Sequencing HLA Typing Plaza E Pacific Biosciences Workshop: Advances in fully phased HLA & KIR typing using SMRT® Sequencing Plaza D

Schedule at a Glance *(CONTINUED)*

2:30 PM – 4:00 PM

Workshop 5: HLA Typing by Next-Generation Sequencing - Targeted and Whole Genome Approaches

Plaza AB

Robert Carter, PhD
St. Jude Children's Research Hospital

Curt Lind, CHS
Children's Hospital of Philadelphia

Moderators

Martin Maiers
Dimitri Monos, PhD

Workshop 6: Case Studies & More

Plaza C

Moderator

Daniel Ramon, PhD

Abstract Session 3: Role of HLA in Disease & Immunity

Governor's Square 14

Moderator

Brian Freed, PhD, D(ABHI)

Abstract Session 4: Mechanisms of Tolerance & Rejection

Governor's Square 15

Moderator

Marcelo J. Pando Rigal, PhD, D(ABHI)

4:00 PM – 4:30 PM

PM Refreshment Break

Immucor Lounge is open - complimentary beverages provided

4:30 PM – 6:00 PM

Workshop 7: Using Epitope Websites for Donor Selection

Plaza AB

Rene Duquesnoy, PhD
University of Pittsburgh

Illias Doxiadis, PhD
Leiden University Medical Center

Moderator

Patrick Adams, MS, CHS(ABHI)

Abstract Session 5: Best of the Rest

Governor's Square 14

Moderator

Howard M. Gebel, PhD, D(ABHI)

Abstract Session 6: Genetic Diversity & Functional Polymorphisms

Plaza C

Moderator

Marcel Tilanus, PhD



Schedule at a Glance *(CONTINUED)*

Abstract Session 7: Humoral Immunity & Transplantation
Governor's Square 15

Moderator
Andrea Zachary, PhD, D(ABHI)

6:00 PM – 7:30 PM

Directors' Forum
Plaza AB

Technologists' Forum
Plaza C

Thursday, October 23

7:15 AM – 8:15 AM

Women in Transplantation Meeting
Governor's Square 15

8:00 AM – 4:00 PM

Registration Open

8:30 AM – 10:00 AM

Plenary III: Scientific Award Lectures
Plaza Ballroom ABC

Rose Payne Awardee: Genomics of Hematopoietic Cell Transplantation. Donor Selection and Immune Monitoring

Paul Terasaki Awardee: Beads, Beliefs and the Blarney Stone

Distinguished Scientist Awardee: Epidemiological and Clinical Impact of HLA Polymorphisms in Different Mexican Populations

10:00 AM – 10:30 AM

AM Refreshment Break
ImmuCor Lounge is open

10:30 AM – Noon

Symposium III: Awards & Business Meeting
Plaza Ballroom ABC

Noon – 2:00 PM

User Group Luncheons:
Omixon Hologlyc HLA Luncheon
Governor's Square 11
GenDx User Group Meeting: HLA Sequencing Based Typing Strategies: Sanger and NGS
Governor's Square 15

2:00 PM – 3:30 PM

Joint AABB ASHI Symposium
Plaza AB

ABO Blood Group System Basics
Carol Pancoska, PhD, D(ABHI)
Einstein Medical Center

ABO Issues in Solid Organ Transplantation
Paul Warner, PhD, D(ABHI)
Puget Sound Blood Center

Schedule at a Glance *(CONTINUED)*

ABO Issues in HSC and Cord Blood Transplantation

Patricia Kopko, MD
University of California, San Diego

Moderator

Lesley Kresie, MD, D(ABHI)

Special Abstract Session: Scholar Awards

Plaza C

Moderators

Steven Marsh, PhD
Sarah Cooley, MD
Erik Thorsby, MD
Dimitri Monos, PhD

3:30 PM – 4:00 PM

PM Refreshment Break

4:00 PM – 5:30 PM

Workshop 8: C1Q Pre-Transplant for Donor Selection

Plaza AB

John Lunz, PhD
University of Pittsburgh

Thomas Ellis, PhD, D(ABHI)
University of Wisconsin-Madison

Workshop 9: Understanding Common Statistical Methodologies for Histocompatibility and Immunogenetics Research

Plaza C

David Gjertson, PhD
University of California Los Angeles
Dorry Segev, MD, PhD
Johns Hopkins Outpatient Center

8:00 PM – 11:00 PM

ASHI Networking Dinner

Lucky Strike

Ticketed Event

Friday, October 24

7:30 AM – 10:30 AM

Registration Open

8:00 AM – 10:00 AM

Symposium IV: Panel Discussion – Effective Communication with Transplant Clinicians

Plaza Ballroom ABC

A Surgeon's Perspective – Eliminating Obstacles to get More Transplants

Robert Montgomery, MD, Dphil, FACS
Johns Hopkins Medicine

A Surgeon's Perspective - HLA Testing Needed for Tolerance Induction Protocols

James Markmann, MD, PhD
Massachusetts General Hospital



Schedule at a Glance *(CONTINUED)*

A Nephrologist's Perspective – The Need for Caution with DSA

James Cooper, MD
University of Colorado Hospital

A Lab Director's/Nephrologist's Perspective

Patricia Campbell, MBChB, FRCP(UK), FRCP(C)
University of Alberta Hospitals

Moderator

Malek Kamoun, MD, PhD

10:00 AM – 10:30 AM

AM Refreshment Break

10:30 AM – Noon

Plenary IV: Future Transplant Options – Getting More People Transplanted

Plaza Ballroom ABC

Novel Ways to Increase the Donor Pool

Dorry Segev, MD, PhD
Johns Hopkins Outpatient Center

Modulation of Antigen Presentation by Thymic Tissue Repopulation- Implications for Autoimmunity and Transplantation

Massimo Trucco, MD
Children's Hospital of Pittsburgh

Hurdles to Bioengineering Human Lung for Clinical Use

Joan Nichols, PhD
University of Texas Medical Branch

Moderators

Annette Jackson, PhD
Malek Kamoun, MD, PhD

Noon – 12:15 PM

Meeting Adjournment

Future Annual Meetings

Malek Kamoun, MD, PhD

2017 International Workshop

Marcelo Fernández-Viña, PhD, D(ABHI)

Abstracts

Tuesday, October 21, 2014

2:00 PM - 3:30 PM

Abstract Session 1: New & Improved NGS**OR01****AUTOMATED ASSEMBLY OF COMPLEX IMMUNOGENETIC HAPLOTYPES USING LONG-READ SINGLE MOLECULE, REAL-TIME SEQUENCING OF FOSMIDS**

Richard J. Hall¹, Kevin Eng¹, Lawrence Hon¹, Chul-woo Pyo², Daniel E. Geraghty², Swati Ranade¹. ¹Pacific Biosciences, Menlo Park, CA; ²Fred Hutchinson Cancer Research, Seattle, WA

R.J. Hall: Employee; Company/Organization; Pacific Biosciences. **K. Eng:** Employee; Company/Organization; Pacific Biosciences. **L. Hon:** Employee; Company/Organization; Pacific Biosciences. **D.E. Geraghty:** Employee; Company/Organization; Scisco Genetics Inc. **S. Ranade:** Employee; Company/Organization; Pacific Biosciences.

OR02**DEVELOPMENT OF ADVANCED NGS BASED HLA DNA TYPING METHOD: SS-SBT**

Yuki Ozaki¹, Shingo Suzuki¹, Atsuko Shigenari¹, Sayaka Ito¹, Yuku Okudaira¹, Anri Masuya¹, Shigeki Mitsunaga¹, Masao Ota², Hidetoshi Inoko¹, Takashi Shiina¹. ¹Tokai University School of Medicine, Kanagawa, Japan; ²Shinshu University School of Medicine, Nagano, Japan

OR03**HLA-GENOTYPING OF CLINICAL SPECIMENS USING ION TORRENT-BASED NGS**

Kathleen Davis¹, Yuki Saito², Jonathan Barone³, Erica S. Johnson¹, Karl Beutner², Wei Dong³, Chirayu Goswami¹, Zixuan Wang⁴, Susan Hsu³. ¹Thomas Jefferson University Hospital, Philadelphia, PA; ²Transplant Diagnostics/Thermo Fisher Scientific, Canoga Park, CA; ³American Red Cross, Philadelphia, PA; ⁴Thomas Jefferson University, Philadelphia, PA

K. Davis: Other (Identify); Company/Organization; Thermo Fisher, Free pre-market reagents. **Y. Saito:** Employee; Company/Organization; Thermo Fisher Scientific. **J. Barone:** Other (Identify); Company/Organization; Thermo Fisher Scientific, Free pre-market reagents. **E.S. Johnson:** Other (Identify); Company/Organization; Thermo Fisher, Free pre-market reagents. **K. Beutner:** Employee; Company/Organization; Thermo Fisher Scientific. **W. Dong:** Other (Identify); Company/Organization; Thermo Fisher Scientific, Free pre-market reagents. **C. Goswami:** Other (Identify); Company/Organization; Thermo Fisher, Free pre-market reagents. **Z. Wang:** Other (Identify); Company/Organization; Thermo Fisher, Free pre-market reagents. **S. Hsu:** Other (Identify); Company/Organization; Thermo Fisher Scientific, Free pre-market reagents.



Abstracts

OR04

A MULTI-CENTER STUDY USING NEXT-GENERATION SEQUENCING (NGS) FOR HLA GENOTYPING

Curt Lind¹, Deborah Ferriola¹, Anh Huynh¹, Jamie Duke¹, Anna Papazoglou¹, Medhat Askar², Attila Berces³, Mette Christiansen⁴, Wei Dong⁵, Manish Gandhi⁶, Tim Hague³, Gyorgy Horvath³, Susan Hsu⁵, Brad Johnson⁷, Malek Kamoun⁷, Jane Kearns⁷, Raul Kooter⁸, Wietse Mulder⁸, Maarten Penning⁸, Erin Pierce⁷, Krisztina Rigo³, Erik Rozemuller⁸, Brittany Schneider⁶, Dawn Thomas², Dimitri Monos¹. ¹The Children's Hospital of Philadelphia, Philadelphia, PA; ²Allogen Laboratories, Cleveland Clinic, Cleveland, OH; ³Omixon, Inc., Budapest, Hungary; ⁴Aarhus University Hospital, Aarhus, Denmark; ⁵American Red Cross - Penn-Jersey Blood Services Region, Philadelphia, PA; ⁶Mayo Clinic, Rochester, MN; ⁷University of Pennsylvania, Philadelphia, PA; ⁸GenDx, Utrecht, Netherlands

A. Berces: Employee; Company/Organization; Omixon, Inc.. **T. Hague:** Employee; Company/Organization; Omixon, Inc. **G. Horvath:** Consultant; Company/Organization; Omixon, Inc.. **R. Kooter:** Employee; Company/Organization; GenDx. **W. Mulder:** Stock Shareholder; Company/Organization; GenDx. **M. Penning:** Employee; Company/Organization; GenDx. **K. Rigo:** Employee; Company/Organization; Omixon, Inc. **E. Rozemuller:** Stock Shareholder; Company/Organization; GenDx.

OR05

COMPLETE RESEQUENCING OF EXTENDED GENOMIC REGIONS USING FOSMID TARGET CAPTURE AND SINGLE MOLECULE REAL-TIME (SMRT®) LONG READ SEQUENCING TECHNOLOGY

Chul-woo Pyo¹, Cynthia Vierra-Green², Yoon Soo Pyon¹, Kevin Eng³, Richard Hall³, Lawrence Hon³, Swati Ranade³, Daniel Geraghty¹. ¹Fred Hutchinson Cancer Research Center, Seattle, WA; ²Center for International Blood and Marrow Transplant Research, Minneapolis, MN; ³Pacific Biosciences, Menlo Park, CA

OR06

GROUP SPECIFIC, UNAMBIGUOUS FULL-LENGTH GENE HLA CLASS I TYPING BY SANGER SEQUENCING: A ROBUST SSBT STRATEGY FOR TYPING AND A GOLDEN REFERENCE FOR NEXT GENERATION SEQUENCING APPROACHES

Mathijs Groeneweg, Fausto Palusci, Christel Meertens, Christien EM Voorter, Marcel GJ Tilanus. Maastricht University Medical Center, Maastricht, Netherlands

LBOR01

ONE MILLION SAMPLES TYPED BY NGS - LESSONS LEARNED

Vinzenz Lange¹, Irina Boehme¹, Patrick Paul¹, Johanna M. Andreas¹, Bianca Schoene¹, Philipp Quenzel¹, Kathrin Lang¹, Carmen Schwarzelt¹, Daniel M. Baier², Angela I. Lucaci-Timocek², Jan A. Hofmann², Juergen Sauter², Julia Pingel², Alexander H. Schmidt^{1,2}. ¹DKMS Life Science Lab, Dresden, Germany; ²DKMS German Bone Marrow Center, Tübingen, Germany

Abstracts

Tuesday, October 21, 2014

2:00 PM - 3:30 PM

Abstract Session 2: Optimization of Histocompatibility Testing

OR07

A NOVEL MULTIPLEX APPROACH TO DEFINE PERIPHERAL BLOOD HLA-SPECIFIC B-CELL SUBSETS IN CLINICAL TRANSPLANTATION

Ahmed Akl, Anat Roitberg-Tambur, M.Javeed Ansari. Northwestern University, Chicago, IL

OR08

IT'S ABOUT TIME. THE DEVELOPMENT OF THE RAPID OPTIMIZED SINGLE ANTIGEN BEAD (ROB) LABSCREEN® PROTOCOL TO EXPEDITE HLA ANTIBODY TESTING

Robert Liwski¹, Jorge Neumann², Geoff Peladeau¹, Kelly Heinsteins¹, Roxanne Sperry¹, Robert Bray³, Howard Gebel³. ¹Dalhousie University, Halifax, NS, Canada; ²Lab of Transplant Immunology, Porto Alegre, Brazil; ³Emory University, Atlanta, GA

OR09

KEEP IT COOL. A NOVEL INHIBITOR COMPLEX EXCLUSION (ICE) PROTOCOL FOR LABSCREEN THAT PREVENTS THE "PROZONE" EFFECT

Robert Liwski¹, Robert Bray², Howard Gebel². ¹Dalhousie University, Halifax, NS, Canada; ²Emory University, Atlanta, GA

OR10

SUCCESSFUL USE OF VIRTUAL CROSSMATCH (VXM) IN DECEASED-DONOR RENAL TRANSPLANTATION (DDRT): A SINGLE CENTER EXPERIENCE

Dessislava Kopchaliiska¹, Sonika Puri², Raja Rajalingam¹, Stephen Tomlanovich², John Roberts³. ¹Immunogenetics and Transplantation Laboratory, San Francisco, CA; ²Department of Nephrology, San Francisco, CA; ³Department of Surgery, University of California San Francisco, San Francisco, CA

OR11

THE IMPORTANCE OF SURROGATE CROSSMATCHING IN ASSIGNMENT OF HLD-DQ ANTIBODIES

Aisha Eltayeb¹, Patrick W. Adams¹, Paula Steller², Nicholas DiPaola². ¹Ohio State University, Columbus, OH; ²Ohio State University, Columbus, OH

OR12

AUTOMATED FLOW CYTOMETRY CROSSMATCH USING THE BIOTEK ELx50 MICROPLATE WASHER

David Freedom, Daniel Magas, Katarzyna Brooks, Bozena Labuda, Andres Jaramillo. Gift of Hope Organ & Tissue Donor Network, Itasca, IL



Abstracts

OR13

HIGH TITER ANTIBODY STRENGTH CANNOT RELIABLY BE DESCRIBED WITHOUT DILUTION

Jennifer Baye, Peggy Krefting, Laurie Krummel, Nancy Henrickson, Sigrid Johnson, Maurine Davidson, David Maurer. University of Minnesota Medical Center - Fairview, Minneapolis, MN

LBOR02

CROSSMATCH OPTIONS? CAN A CELL CAPTURE IMAGE BE WORTH A THOUSAND FLOW EVENTS?

Tom Franks¹, Leo L. Chan², Benjamin Paradis², Brianna O'Donnell², Daniel Ramon¹. ¹University of Michigan, Ann Arbor, MI; ²Nexcelom Bioscience LLC., St. Lawrence, MA

Wednesday, October 22, 2014

2:30 PM - 4:00 PM

Abstract Session 3: Role of HLA in Disease & Immunity

OR14

THE MACAQUE ALLELE MAMU-A1*004 IS FUNCTIONALLY SIMILAR TO HLA-B*57

Curtis McMurtrey¹, Rico Buchli², Ken Jackson¹, Christopher Stewart¹, Wilfried Bardet¹, William Hildebrand¹. ¹University of Oklahoma HSC, Oklahoma City, OK; ²Pure Protein LLC, Austin, OK

C. McMurtrey: Consultant; Company/Organization; Pure Protein LLC. R. Buchli: Employee; Company/Organization; Pure Protein LLC. W. Hildebrand: Scientific/Medical Advisor; Company/Organization; Pure Protein LLC.

OR15

SUSCEPTIBLE HLA SHARED EPITOPES IN RHEUMATOID ARTHRITIS MEDIATE BINDING OF CITRULLINATED PEPTIDES TO THE MHC

Kirsten M. Anderson, Christina Roark, Michael Aubrey, Brian Freed. University of Colorado Denver, Aurora, CO

OR16

CHARACTERIZATION THE MAJOR AND MINOR LIGAND COMPARTMENT OF HLA-E

Curtis McMurtrey¹, Wilfried Bardet¹, Danijela Mojsilovic¹, Ken Jackson¹, Lauren Liles¹, Freda Schafer¹, Melanie Harriff², Gwendolyn Swarbrick², Deborah Lewinsohn², David Lewinsohn², William Hildebrand¹. ¹University of Oklahoma HSC, Oklahoma City, OK; ²Oregon Health Science University, Portland, OR

OR17

THE EFFECT OF HLA EPITOPES ON COLLAGEN-SPECIFIC T CELL RESPONSES IN RHEUMATOID ARTHRITIS

Christina L. Roark^{1,2}, Kirsten M. Anderson³, Michael T. Aubrey¹, Brian M. Freed^{1,2}. ¹ClinImmune Labs, Aurora, CO; ²University of Colorado Anschutz Medical Campus, Aurora, CO; ³University of Colorado Anschutz Medical Campus, Aurora, CO

Abstracts

OR18

IMMUNOGENETIC BASIS OF TYPE 1 DIABETES IN THE INDIAN POPULATION

Narinder K. Mehra¹, Neeraj Kumar¹, Gurvinder Kaur¹, Uma Kanga¹, Nikhil Tandon². ¹All India Institute of Medical Sciences, New Delhi, India; ²All India Institute of Medical Sciences, New Delhi, India

OR19

FREQUENCY OF HLA-B*44:03-C*04:09N BEARING HAPLOTYPES AND PHENOTYPES IN LEUKEMIA PATIENTS

Brandt Moore, Edward Guerrero, Yudith Carmazzi, Kai Cao. UT MD Anderson Cancer Center, Houston, TX

OR20

THE MECHANISTIC DIFFERENCES IN HLA-ASSOCIATED DRUG HYPERSENSITIVITY

Heike Kunze-Schumacher, Huyton Trevor, Rainer Blasczyk, Christina Bade-Doeding. Hannover Medical School, Hannover, Germany

Wednesday, October 22, 2014

2:30 PM - 4:00 PM

Abstract Session 4: Mechanisms of Tolerance & Rejection

OR21

GAMMA-Delta T CELL EXPANSION ASSOCIATES WITH LESSER RISK OF ALLOANTIBODY DEVELOPMENT IN PEDIATRIC HEART TRANSPLANTATION

Eric Ho, Camille A. Knosp, Elena R. Vasilescu, Linda J. Addonizio, George Vlad. Columbia University, New York, NY

OR22

LIGATION OF HLA CLASS II MOLECULES BY HLA ANTIBODIES INDUCES ENDOTHELIAL CELL PERMEABILITY AND MONOCYTE TRANSENDOTHELIAL MIGRATION

Fang Li, Nicole Valenzuela, Xiaohai Zhang, Elaine F. Reed. University of California Los Angeles, Los Angeles, CA

OR23

THE INTEGRIN $\alpha 4$ CONNECTING SEGMENT DOMAIN IS REQUIRED FOR HLA CLASS I-MEDIATED ENDOTHELIAL CELL ACTIVATION

Nwe Nwe Soe, Xiaohai Zhang, Yiping Jin, Elaine F. Reed. UCLA, Los Angeles, CA



Abstracts

OR24

MONOCYTE RECRUITMENT TO HUMAN LEUKOCYTE ANTIGEN CLASS I ANTIBODY-ACTIVATED ENDOTHELIAL CELLS IS DEPENDENT UPON MTOR

Sahar Salehi, Nicole M. Valenzuela, Elaine F. Reed. UCLA, Los Angeles, CA

S. Salehi: Grant/Research Support; Company/Organization; NIH.

OR25

DYSREGULATION OF INNATE IMMUNE RESPONSES DUE TO PROMISCUOUS PEPTIDE REPERTOIRE OF HLA-E*01:01

Thomas Kraemer, Trevor Huyton, Heike Kunze-Schumacher, Wiebke Abels, Rainer Blasczyk, Christina Bade-Doeding. Hannover Medical School, Hannover, Germany

OR26

TOLEROGENIC EFFECTS OF EVEROLIMUS AND OTHER DRUGS USED IN COMBINATION AS STUDIED USING THE "TREG-MLR"

James M. M. Mathew, Xuemei Huang, Joseph R. Leventhal, Lorenzo Gallon, Joshua Miller, Josh Levitsky. Northwestern University, Chicago, IL

LBOR03

ASSOCIATION BETWEEN CTL PRECURSOR FREQUENCY TO HLA-C MISMATCHES AND HLA-C ANTIGEN CELL SURFACE EXPRESSION

Moshe Israeli¹, Dave L. Roelen¹, Mary Carrington², Effie W. Petersdorf³, Frans H. J. Claas¹, Geert W. Haasnoot¹, Machteld Oudshoorn¹. ¹Leiden University Medical Center, Leiden, Netherlands; ²Frederick National Laboratory for Cancer Research, Frederick, MD; ³Fred Hutchinson Cancer Research Center, Seattle, WA

OR27

ROLE OF AIRE GENE (AUTOIMMUNE REGULATOR) IN TRANSCRIPTIONAL AND POST-TRANSCRIPTIONAL REGULATION OF HLA-G

Breno L. Melo-Lima^{1,2}, Isabelle Poras², Fabrício C. Dias¹, Philippe Moreau², Eduardo A. Donadi¹. ¹School of Medicine of Ribeirao Preto, Ribeirao Preto, Brazil; ²Commissariat à l'Energie Atomique et aux Energies Alternatives, Paris, France

Abstracts

Wednesday, October 22, 2014

2:30 PM - 4:00 PM

Workshop 6: Case Studies & More

OR28

Bw4/Bw6 ON HLA-A AND HLA-C: THE FORGOTTEN SEROLOGICAL PROPERTIES OF HLA CLASS I ANTIGENS

Chak-Sum Ho¹, Daniel Ramon², Andrés Jaramillo³. ¹Gift of Life Michigan, Ann Arbor, MI; ²University of Michigan Medical School, Ann Arbor, MI; ³Gift of Hope Organ & Tissue Donor Network, Itasca, IL

OR29

DISCREPANT HLA-DQ EPI TOPE EXPRESSION ON SINGLE ANTIGEN BEADS VERSUS B CELLS CARRYING THE SAME HLA-DQA1*/DQB1* ALLELES

Medhat Askar¹, Jane Kearns², Thanh-Mai Bui², Lynne Klingman¹, Aiwen Zhang¹, Malek Kamoun². ¹Cleveland Clinic, Cleveland, OH; ²University of Pennsylvania, Philadelphia, PA

OR30

ALEMTUZUMAB, BORTEZOMIB, AND INTRAVENOUS IMMUNOGLOBULIN PRE-TREATMENT REDUCES THE RISK OF ACUTE ANTIBODY MEDIATED REJECTION AFTER INTESTINAL TRANSPLANT IN HIGHLY SENSITIZED PATIENTS

Aiwen Zhang¹, Ajai Khanna², Gabriela Diaz², Masato Fujiki², Koji Hashimoto², Lynne Klingman¹, Ana Bennett⁴, Kareem Abu-Elmagd², Medhat Askar¹. ¹Allogen Laboratories, Cleveland Clinic, Cleveland, OH; ²Digestive Disease Institute, Cleveland Clinic, Cleveland, OH; ³Unidad de Inmunología e Histocompatibilidad, Hospital Dr Carlos G. Durand, Buenos Aires, Argentina; ⁴Pathology and Lab Medicine, Cleveland Clinic, Cleveland, OH

OR31

SUCCESSFUL OUTCOMES OF COMBINED HEART LIVER TRANSPLANTS ACROSS PRE-FORMED HIGH LEVELS OF DONOR SPECIFIC HLA ANTIBODIES

Malek Kamoun¹, Jane Kearns¹, Maria Molina², Thanh-Mai Bui¹, Joyce Wald³, Thomas Cappola³, Lee Goldberg³. ¹University of Pennsylvania, Philadelphia, PA; ²Penn Transplant Center, Philadelphia, PA; ³University of Pennsylvania, Philadelphia, PA

OR32

CASE STUDY: DOA: DONOR ORIGINATING ANTIBODY; A CASE OF PASSIVE ANTIBODY TRANSFER

Sarah J. Rongione, Annette Jackson, Bethany L. Dale, Karl P. Schillinger, Paul Sikorski, Andrea A. Zachary. Johns Hopkins University, Baltimore, MD



Abstracts

OR33

GETTING OUT OF THE PANIC MODE: MATERNAL BLOOD CONTAMINATION IN A CORD BLOOD UNIT FOR DOUBLE CORD HEMATOPOIETIC CELL TRANSPLANTATION

Qi Wang, Chih-Hung Lai, Mehrmoush Naim, Geraldine Ong, Nancy L. Reinsmoen. Cedars-Sinai Medical Center, Los Angeles, CA

OR34

CLINICALLY USEFUL TOOL FOR COMPARING THEORETICAL AND EVIDENCE BASED HLA EPITOPES.

Erin Chang, Allen J. Norin. SUNY Downstate Medical Center, Brooklyn, NY

A.J. Norin: Speaker's Bureau; Company/Organization; Immuncor - Lifecodes. Scientific/Medical Advisor; Company/Organization; ICON CL.

Wednesday, October 22, 2014

4:30 PM - 6:00 PM

Abstract Session 5: Best of the Rest

OR35

THE NEW OPTN KIDNEY ALLOCATION POLICY: INEQUITBLE ACCESS AMONG HIGHLY SENSITIZED PATIENTS

Robert Bray¹, Patricia Brannon¹, Charlene Breitenbach², Tracy McRacken³, Monica Stephens³, Jennifer Lai⁴, Eddie Mui⁴, Howard Gebel¹. ¹Emory University, Atlanta, GA; ²Henrico Doctor's Hospital, Richmond, VA; ³Sentara Norfolk General Hospital, Norfolk, VA; ⁴California Pacific Medical Center, San Francisco, CA

OR36

THE DYNAMICS OF SERUM FREE LIGHT CHAIN IMMUNOGLOBULINS AFTER KIDNEY TRANSPLANTATION

Thomas H.P.M. Habets¹, Stefan J.J. Molenbroeck¹, Jacqueline J.Y. Frijns¹, Els Bielen¹, Christina E.M. Voorter¹, Gerard M.J. Bos¹, Frank A.M. Redegeld², Maarten H.L. Christiaans¹, Marcel G.J. Tilanus¹, Joris Vanderlocht¹. ¹Maastricht University Medical Center, Maastricht, Netherlands; ²Utrecht University, Utrecht, Netherlands

OR37

IMPACT OF PREEMPTIVE PERIOPERATIVE DESENSITIZATION ON DECEASED DONOR TRANSPLANTATION AND DSA ELIMINATION

Pam Kimball, Felecia McDougan. MCVH, Richmond, VA

Abstracts

OR38

INCREASED LEVELS OF CELL-FREE CIRCULATING DONOR DNA IN RECIPIENT DETECTED BY NEXT GENERATION SEQUENCING OF HLA AMPLICONS: A POSSIBLE INDICATOR OF KIDNEY GRAFT REJECTION

Melinda V. Rastrou¹, Yan Li¹, Wei-min Liu¹, Sunil M. Kurian², Terri Gelbart², Tony Mondala², Michael M. Abecassis³, John Friedewald³, Daniel R. Salomon², Henry A. Erlich^{4,1}, Cherie L. Holcomb¹. ¹Roche Molecular Systems, Pleasanton, CA; ²The Scripps Research Institute, La Jolla, CA; ³Northwestern University, Chicago, IL; ⁴Children's Hospital Oakland Research Institute, Oakland, CA

OR39

CARFIZOMIB FOR REFRACTORY ANTIBODY MEDIATED REJECTION IN LUNG TRANSPLANTATION THE IMPACT ON DSA

Adriana Zeevi, Marilyn Marrari, John Lunz, Carol Curry, Matthew R. Morrell, Joseph Pilewski, Samuel A. Yousem, Jonathan D' Cunha, Christian Bermudez, John McDyer, Christopher R. Ensor. University of Pittsburgh, Pittsburgh, PA

OR40

UTILITY OF ASSESSING THE C1Q BINDING ABILITY OF HLA ANTIBODIES IN MAXIMIZING DONOR POOLS AND PREDICTING RISK OF TRANSPLANT-RELATED MORBIDITY IN HEART TRANSPLANT

Hemant K. Parekh¹, Joseph L. Rudic², Phoebe W. Lai², Justin Lin², Phi A. Lai², Steven S. Geier¹. ¹Temple University School of Medicine, Philadelphia, PA; ²Temple University Hospital, Philadelphia, PA

OR41

PLATELET CROSSMATCH VIA FLUORESCENCE CYTOMETRY: AN ALTERNATIVE APPROACH

Bobbie Rhodes-Clark, Soumya Pandey, Terry Harville. University of Arkansas for Medical Sciences, Little Rock, AR

T. Harville: Scientific/Medical Advisor; Company/Organization; Arkansas Regional Organ Recovery Agency, Baxter Biologics, CSL Behring, Grifols.



Abstracts

Wednesday, October 22, 2014

4:30 PM - 6:00 PM

Abstract Session 6: Genetic Diversity & Functional Polymorphisms

OR42

HLA-E POLYMORPHISM IN VIEW OF THE 1000 GENOMES PROJECT: A FULL LENGTH HLA-E SEQUENCING APPROACH REVEALS NEW AND NULL ALLELES

Timo I. Olieslagers, Mathijs Groeneweg, Lotte Wieten, Christina EM Voorter, Marcel GJ Tilanus. Maastricht University Medical Center, Maastricht, Netherlands

OR44

RNA AND PROTEIN EXPRESSION OF HLA-A*23:19Q

Kevin E.H. Gerritsen¹, Marie-Odile Joannis², Lotte Wieten¹, Birgit L.M.G. Senden-Gijsbers³, Frantz Agis², Christina E.M. Voorter¹, Marcel G.J. Tilanus¹. ¹University Hospital Maastricht, Maastricht, Netherlands; ²Centre Hospitalier Universitaire de Point-à-Pitre/Abymes, Point-à-Pitre, Guadeloupe; ³University Hospital Maastricht, Maastricht, Netherlands

OR45

ANALYSIS OF THE EFFECT OF HLA-C EXPRESSION IN RENAL TRANSPLANT BIOPSIES THROUGH GENOTYPING A SINGLE NUCLEOTIDE POLYMORPHISM rs9264942T>C

Peter Jindra¹, Alida Hayner-Buchan², Don Constantino³, David Conti⁴, Amy Hahn⁴. ¹Baylor College of Medicine, Houston, TX; ²Albany Medical College, Albany, NY; ³Albany Medical College, Albany, NY; ⁴Albany Medical College, Albany, NY

OR46

KIR ALLELE AND HAPLOTYPE DIVERSITY OF MAORI AND POLYNESIANS

Neda Nemat-Gorgani¹, Atan Edinur², Jill A. Hollenbach³, Paul P.J. Dunn⁴, Geoff K. Chambers², Peter Parham¹, Paul J. Norman¹. ¹Stanford University, Stanford, CA; ²Victoria University of Wellington, Wellington, New Zealand; ³Children's Hospital Oakland Research Institute, Oakland, CA; ⁴New Zealand Blood Service, Epsom, New Zealand

OR47

INTERLEUKIN-1 RECEPTOR (IL1-R): ROLE IN ANTI-CYTOMEGALOVIRUS (CMV) IMMUNE RESPONSE AND PROTECTION AGAINST CMV REACTIVATION AFTER ALLOGENEIC HEMATOPOETIC CELL TRANSPLANTATION

GAURAV TRIPATHI^{1,2}, Poonam D. Khan¹, Rehan M. Faridi¹, Victor Lewis³, Jan Storek⁴, Noureddine Berka⁵, Faisal M. Khan^{1,2,6}. ¹University of Calgary, Calgary, AB, Canada; ²University of Calgary, Calgary, AB, Canada; ³University of Calgary, Calgary, AB, Canada; ⁴Tom Baker Cancer Centre, Calgary, AB, Canada; ⁵Tissue Typing Laboratory, Calgary, AB, Canada; ⁶Calgary Laboratory Services, Calgary, AB, Canada

OR48

DONOR AND RECIPIENT GENETIC POLYMORPHISMS AND DELAYED GRAFT FUNCTION IN KIDNEY TRANSPLANTATION

Amador Goncalves-Primo^{1,2}, Erika F. Campos^{1,2}, Jose O. Medina-Pestana^{3,2}, Hélio Tedesco-Silva³, Maria Gerbase-DeLima^{1,2}. ¹Associação Fundo de Incentivo à Pesquisa - AFIP, São Paulo, Brazil; ²Universidade Federal de São Paulo, São Paulo, Brazil; ³Hospital do Rim e Hipertensão, São Paulo, Brazil

Abstracts

Wednesday, October 22, 2014

4:30 PM - 6:00 PM

Abstract Session 7: Humoral Immunity & Transplantation**OR49****INCIDENCE OF AT1R ANTIBODY IN LIVER TRANSPLANT CANDIDATES WITH FIBROSIS**

Mary Carmelle Philogene, Naudia L. Jonassaint, Sabra Lewsey, Mary S. Leffell, Andrea A. Zachary. Johns Hopkins University, Baltimore, MD

OR50**REVELANCE OF HLA ANTIBODY TITER COMPARED TO PRA AND ANTIBODY MFI WHEN TRYING TO IDENTIFY CLINICALLY RELEVANT UNACCEPTABLE ANTIGENS**

Peter Jindra, Jerome Saltarrelli, Christine O'Mahony, Charles Van Buren, Eva McKissick, Noriel Acorda, Alfred Eaton, Nicholas Woolley, Phillip Erice, Angela Hoover, Clair Hollingsworth, John Chappelle, Ronald Kerman. Baylor College of Medicine, Houston, TX

OR51**ASSESSMENT OF THE LUMINEX® SINGLE ANTIGEN AND C1q ASSAYS' ABILITY TO CORRELATE DONOR SPECIFIC ANTIBODIES WITH KIDNEY TRANSPLANT REJECTION**

James C. Cicciarelli^{1,2}, Nathan A. Lemp¹, Michael Koss^{1,3}, Rolando Montes², Bruce Williams², Noriyuki Kasahara¹, Robert Naraghi^{4,5}, Tariq Shah^{4,5}. ¹Viracor-IBT Laboratories, Los Angeles, CA; ²Sharp Healthcare HLA Lab, San Diego, CA; ³USC Keck School of Medicine, Los Angeles, CA; ⁴St. Vincent Medical Center, Los Angeles, CA; ⁵Transplant Research Institute, Los Angeles, CA

OR52**IMMUNOGENICITY OF HLA-DRB3 AFTER KIDNEY TRANSPLANTATION AND THE DEVELOPMENT OF A TOOL FOR EPITOPE DISCOVERY USING MUTAGENIZED RECOMBINANT HLA-FUSION PROTEINS**

Thomas H.P.M. Habets¹, Evelien E. Bouwmans¹, Jacqueline J.Y. Frijns¹, Els Bielen¹, Maarten H.L. Christiaans¹, Sarah L. Morley², Christina E.M. Voorter¹, Joris Vanderlocht¹, Marcel G.J. Tilanus¹. ¹Maastricht University Medical Center, Maastricht, Netherlands; ²University of Cambridge, Cambridge, United Kingdom

OR53**ANTIBODIES AGAINST PROTEASE-ACTIVATED RECEPTORS (PAR) AFTER IMMUNOSUPPRESSION WITHDRAWAL IN PEDIATRIC LIVING-DONOR LIVER TRANSPLANT**

Michiko Taniguchi¹, Ohe Hidenori², Shinji Uemoto², Kai Schulze-Forster³, Harald Heidecke³, Duska Dragun⁴, Gabriela Riemekasten⁴, Ralf Dechend⁴, Curtis Maehara¹, Judy Hopfield¹, Paul I. Terasaki¹. ¹Terasaki Foundation, Los Angeles, CA; ²Kyoto University Hospital, Kyoto, Japan; ³CellTrend GmbH, Luckenwalde, Germany; ⁴Charité - Universitätsmedizin Berlin, Berlin, Germany

K. Schulze-Forster: Other (Identify); Company/Organization; CellTrend GmbH (owner). **H. Heidecke:** Other (Identify); Company/Organization; CellTrend GmbH (owner).



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OR54

DE-NOVO DEVELOPMENT OF DONOR MISMATCHED HLA IS SIGNIFICANTLY REDUCED IN ABO-INCOMPATIBLE RENAL TRANSPLANT RECIPIENTS: IMPLICATION FOR LONG TERM ALLOGRAFT FUNCTION

Patricia Willey¹, V. Subramanian², M. Gunasekaran², D. Phelan¹, R. Delos Santos³, J. Wellen⁴, S. Shenoy⁴, T. Mohanakumar^{2,1}.
¹Barnes-Jewish Hospital, St. Louis, MO; ²Washington University School of Medicine, St. Louis, MO; ³Washington University School of Medicine, St. Louis, MO; ⁴Washington University School of Medicine, St. Louis, MO

OR55

HLA-EpiDB: A DATABASE FOR THE ANALYSIS OF HLA EPITOPE FREQUENCIES IN WORLDWIDE POPULATIONS

Faviel F. Gonzalez-Galarza¹, Louise YC Takeshita², Andrew R. Jones², Derek Middleton³. ¹Autonomous University of Coahuila, Torreon, Mexico; ²University of Liverpool, Liverpool, United Kingdom; ³Royal Liverpool Royal Liverpool and Broadgreen University Hospital, Liverpool, United Kingdom

Thursday, October 23, 2014

2:00 PM - 3:30 PM

Abstract Session 8: Scholar Awards

OR56

EFFECTS OF KIR 3DL1 AND HLA-Bw4 MISCLASSIFICATION ON DONOR SELECTION FOR NATURAL KILLER CELL THERAPY

E. Victoria Turner, Wing H. Leung. St. Jude Children's Research Hospital, Memphis, TN

E. Turner: Employee; Company/Organization; St. Jude Children's Research Hospital. W.H. Leung: Employee; Company/Organization; St. Jude Children's Research Hospital.

OR57

DEEP LIGAND SEQUENCING REVEALS OVER 200 HLA-A*02:01 TOXOPLASMA GONDII LIGANDS

Curtis McMurtrey¹, Wilfried Bardet¹, Ken Jackson¹, Ira Blader², William Hildebrand¹. ¹University of Oklahoma HSC, Oklahoma City, OK; ²University at Buffalo, State University of New York, Buffalo, NY

C. McMurtrey: Consultant; Company/Organization; Pure Protein LLC. W. Hildebrand: Scientific/Medical Advisor; Company/Organization; Pure Protein LLC.

OR58

PROTEIN TYROSINE KINASES SRC AND PI3K REGULATE HLA-II ANTIBODY-INDUCED SURVIVAL PROTEIN EXPRESSION IN ENDOTHELIAL CELLS

Yi-Ping Jin, Elaine F. Reed. David Geffen School of Medicine, University of California Los Angeles, LOS ANGELES, CA

Abstracts

OR59

GENERATION OF 252 HLA CLASS I GENOMIC SEQUENCES IN A SINGLE SEQUENCING REACTION USING DNA BARCODES AND SINGLE MOLECULE REAL-TIME (SMRT) DNA SEQUENCING TECHNOLOGY

Neema P. Mayor^{1,2}, James Robinson^{1,2}, Swati Ranade³, Kevin Eng³, Shem Wallis-Jones¹, Alasdair JM McWhinnie¹, Will P. Bultitude¹, William Midwinter¹, Brett Bowman³, Lance Hepler³, Henny Braund¹, J Alejandro Madrigal^{1,2}, Katy Latham¹, Steven GE Marsh^{1,2}.

¹Anthony Nolan, London, United Kingdom; ²UCL Cancer Institute, London, United Kingdom; ³Pacific Biosciences, Menlo Park, CA

S. Ranade: Employee; Company/Organization; Pacific Biosciences. **K. Eng:** Employee; Company/Organization; Pacific Biosciences.

B. Bowman: Employee; Company/Organization; Pacific Biosciences. **L. Hepler:** Employee; Company/Organization; Pacific Biosciences.

Poster Session

P001

DSA SOLID-PHASE CROSSMATCHING DEMONSTRATES THAT PRONASE-TREATED B CELLS SOMETIMES FAIL TO BIND ANTI-CLASS I IgG

Patrick W. Adams, Aisha Eltayeb, Paula Steller, Nicholas DiPaola. Ohio State University, Columbus, OH

P002

CERNER PROVISION DOCUMENT IMAGING SOLUTION, MAXIMIZE THE HLA TYPING PROCESS EFFICIENCY

Fadi Al Zayer, Maha Al Harbi, Amal Al Gharably, Sahar Sandooga, Moheeb Al-Awwami. King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia

P003

TRANSLATING HLA DATA FROM THE LABORATORY TO THE ELECTRONIC MEDICAL RECORD, THE BUMPY ROAD OF EPIC IMPLEMENTATION

Laurine Maria Bow¹, Jean Maatta¹, Lizette Rosenthal², Maria Stavropoulos¹, George Manley³. ¹Yale University School of Medicine, New Haven, CT; ²Yale New Haven Health System, Stratford, CT; ³SystemLink, Inc., Dulles, VA

G. Manley: Employee; Company/Organization; SystemLink.

P004

2014 XM-ONE PROFICIENCY TESTING (PT) PROGRAM UPDATE

Manuel R. Carreno¹, Annette Jackson², Bruno Vanherberghen³, Håkan Hall³. ¹OLERUP, Inc, West Chester, PA; ²Johns Hopkins University, Baltimore, MD; ³Absorber, AB, Stockholm, Sweden

M.R. Carreno: Consultant; Company/Organization; OLERUP, Inc. **B. Vanherberghen:** Employee; Company/Organization; Absorber, AB. **H. Hall:** Employee; Company/Organization; Absorber, AB.



Abstracts

P005

LOW LEVEL ANTI-HLA ANTIBODIES: DETERMINING RELEVANT UNACCEPTABLE ANTIGENS BY SINGLE ANTIGEN MICROARRAY AND SPECIFIC /SUROGATE FLOW CROSSMATCHES

Robert Cirocco¹, Kristin Gilbert², Jennifer Mendiolina¹, Lindsey Biondi³, Michael Moritz⁴. ¹Lehigh Valley Health Network, Allentown, PA; ²Lehigh Valley Health Network, Allentown, PA; ³Lehigh Valley Health Network, Allentown, PA; ⁴Lehigh Valley Health Network, Allentown, PA

P006

SUCCESSFUL RENAL TRANSPLANTATION OF HIV+ PATIENTS WITH T CELL REACTIVE ANTIBODIES AND POSITIVE T CELL CROSSMATCH

Adriana I. Colovai¹, Peter Masiakos¹, Enver Akalin¹, Liise Kayler¹, Min Ling². ¹Montefiore Medical Center, Bronx, NY; ²UT Medical School at Houston, Houston, TX

P007

HIGHLY ACCURATE PREDICTION OF ALLELIC-RESOLUTION HLA TYPING BY HAPLOTYPE ANALYSIS OF LOW-RESOLUTION HLA TYPING

Zeying Du¹, Andres Jaramillo², Wuhua Sun¹, Amishi Desai¹, Stefan Vidovich¹, Sujata Gaitonde¹. ¹University of Illinois At Chicago, Chicago, IL; ²Gift of Hope Organ & Tissue Donor Network, Itasca, IL

P008

AGGREGATED IgG CONTROL FOR PRONASE FC RECEPTOR (FcR) REMOVAL in FLOW CROSSMATCH

Steven S. Geier¹, Phi A. Lai², Justin Lin², Phoebe W. Lai², Joseph L. Rudic², Hemant K. Parekh². ¹Temple University School of Medicine and Hospital, Philadelphia, PA; ²Temple University School of Medicine and Hospital, Philadelphia, PA

P009

REDUCING THE COST OF A ROSETTING METHOD WHICH IMPROVES FLOW CROSSMATCH SENSITIVITY BY REMOVING NEUTROPHILS AND MONOCYTES

Phi A. Lai, Hemant K. Parekh, Justin Lin, Phoebe Lai, Joseph Rudic, Steven S. Geier. Temple University School of Medicine and Hospital, Philadelphia, PA

P010

COMPARISON OF TREATMENTS OF THE SERUM FOR ELIMINATING INHIBITORY FACTORS IN THE LUMINEX SINGLE ANTIGEN ASSAY

Renato de Marco, Maria Gerbase-DeLima. Associação Fundo de Incentivo à Pesquisa - AFIP, São Paulo, Brazil

P011

MAKING THE MOST OF HLA SINGLE ANTIGEN ANTIBODY TESTING

Kelley MK Haarberg¹, Nancy D. Herrera¹, John J. Freidewald¹, Joseph R. Leventhal¹, Denis Glotz², Anat R. Tambur¹. ¹Northwestern University, Chicago, IL; ²Hôpital Saint-Louis, Paris, France

Abstracts

P012

EVALUATION OF FOUR METHODS TO REDUCE BACKGROUND REACTIVITY AND INTERFERENCE IN SINGLE ANTIGEN BEAD ANTIBODY DETECTION

Erica Letwiniuk, Anne Halpin, Patricia Campbell, Luis Hidalgo. University of Alberta Hospital, Edmonton, AB, Canada

P013

ELEVATED BACKGROUND FLUORESCENCE IN SINGLE-ANTIGEN BEAD ANTI-HLA ANTIBODY ASSAYS IS NOT ASSOCIATED WITH A SPECIFIC AGE, GENDER, ETHNICITY, OR HLA TYPE

Izabelle Harville¹, Soumya Pandey², Bobbie Rhodes-Clark², Terry Harville². ¹LISA Academy, Little Rock, AR; ²University of Arkansas for Medical Sciences, Little Rock, AR

T. Harville: Scientific/Medical Advisor; Company/Organization; Arkansas Regional Organ Recovery Agency, Baxter Biologics, CSL Behring, Grifols.

P014

THE EFFECTS OF ANTIGEN TARGET NUMBER ON ACCURATE FCXM INTERPRETATION

Luis G. Hidalgo, Susan Hasenbank, Anne Halpin, Patricia M. Campbell. University Of Alberta, Edmonton, AB, Canada

P015

EVALUATION OF THE RELATIONSHIP BETWEEN PRE-TRANSPLANT EVALUATION OF DSA BY VARIOUS METHODS AND INCIDENCE OF AMR IN KIDNEY ALLOGRAFT RECIPIENTS

Eric K. Ho¹, Lloyd E. Ratner², David J. Cohen³, Lingzhi Li¹, Xiuwei Tang¹, Raphael A. Clynes¹, Nicole Suci-Foca¹, George Vlad¹, E. Rodica Vasilescu¹. ¹Columbia University, New York, NY; ²Columbia University, New York, NY; ³Columbia University, New York, NY

P016

PRONASE TREATMENT OF T LYMPHOCYTES DECREASES CDC CROSSMATCH TESTING TIME BY 50% AND MAINTAINS DSA COMPLEMENT ACTIVATING SPECIFICITY

Anne Igbokwe, Jason Payne, Dana Crumback, Tammi Whitted, James Cicciarelli, Kevin Burns. BloodSource, Mather, CA

P017

HLA EXPRESSION DIFFERENCES ON B CELL SUBSETS ISOLATED FROM DECEASED DONOR TISSUE

June A. Jones, Melissa E. Jeresano, Charles Swisko, Annette M. Jackson. Johns Hopkins University, Baltimore, MD

P018

IDENTIFICATION OF UNACCEPTABLE HLA ANTIGENS WHEN PRESENT IN TRANSPLANT PATIENT SERA AT AN UNDILUTED OR NEAT TITER BUT NOT PRESENT AT A LOW TITER ($\leq 1:16$)

Peter Jindra, Jerome Saltarrelli, Christine O'Mahony, Charles Van Buren, Eva McKissick, Noriel Acorda, Alfred Eaton, Nicholas Woolley, Phillip Erice, Angela Hoover, Clair Hollingsworth, John Chappelle, Ronald Kerman. Baylor College of Medicine, Houston, TX



Abstracts

P019

SENSITIZATION CHANGES ARE COMMON AND CLINICALLY RELEVANT IN WAITLISTED KIDNEY TRANSPLANT PATIENTS

James H. Lan, Michelle Hickey, Xiaohai Zhang, Elaine F. Reed, Qiuheng Zhang. UCLA Immunogenetics Center, Los Angeles, CA

P020

CAN LUMINEX DONOR SPECIFIC ANTIBODY CROSS MATCH BE A BETTER ALTERNATIVE OF COMPLEMENT DEPENDENT CYTOTOXICITY CROSS FOR RENAL TRANSPLANT CASES IN DEVELOPING COUNTRIES LIKE INDIA?

Ankit Mathur, Sanjana Dontula, Nutan Dighe, Latha Jagannathan Jagannathan. Rotary Bangalore TTK Blood Bank, Bangalore, India

P021

DTT CAN UNCOVER HIDDEN UAS

Jennifer Mendiolina, Robert Cirocco. Lehigh Valley Health Network, Allentown, PA

P022

FLOW CYTOMETRIC CROSSMATCH FOR DECEASED DONOR TRANSPLANT CANDIDATES USING SMALL NUMBER OF CELLS AND SERUM VOLUME IN MICROPLATE

Myoung Hee Park, Sohyun Kim, Hyewon Hwang, Heeseo Park, Jiye Kwak, Bok Nyun Han. Korea Organ Donation Agency, Seoul, Korea, Republic of

P023

TAGGING CELLS IN FLOW CYTOMETRY CROSSMATCH: PLATE METHOD PROVIDES HIGHER B CELL PERCENTAGE AS COMPARED TO TUBE METHOD

Prabhakar Putheti, Manikkam Suthanthiran, Vijay K. Sharma. The Rogosin Institute, New York, NY

P024

POTENTIAL FOR A FALSE POSITIVE B CELL FLOW CYTOMETRY CROSSMATCH WITH THE USE OF FLUORESCHEIN ISOTHYOCYANATE-GOAT-ANTI-HUMAN IMMUNOGLOBULIN-G ANTIBODY

Prabhakar Putheti, Rex Friedlander, Arvind Menon, Darshana Dadhania, Manikkam Suthanthiran, Vijay K. Sharma. The Rogosin Institute, New York, NY

P025

PRONASE TREATMENT OF SINGLE ANTIGEN BEADS (SAB) REVEALS A COMPLEX BIOLOGY FOR EXPLAINING DENATURED HLA ANTIGENS

Tiffany K. Roberts, Gizem Tumer, Robert A. Bray, Howard M. Gebel. Emory University, Atlanta, GA

Abstracts

P026

A BIOTIN/STREPTAVIDIN ENHANCED SINGLE ANTIGEN BEAD (SAB) METHOD IMPROVES SENSITIVITY AND OVERCOMES COMPLEMENT MEDIATED INHIBITION

Tiffany K. Roberts¹, Kathryn Tinckam², Gizem Tumer¹, Howard M. Gebel¹, Robert A. Bray¹. ¹Emory University, Atlanta, GA; ²University of Toronto, Toronto, ON, Canada

P027

DONOR SPECIFIC HLA ANTIBODIES DETECTED BY LUMINEX CANNOT PREDICT THE OUTCOME OF A CDC OR FLOW CYTOMETRIC CROSSMATCH IN AN INDIVIDUAL PATIENT

Dave Roelen, Simone Brand-Schaaf, Sophia Stein, Frans Claas. Leiden University Medical Center, Leiden, Netherlands

P028

IMPROVING VIRTUAL CROSSMATCHES: USING TWO DIFFERENT CUTOFFS FOR RESOLUTION OF ANTI-DQ AND CLASS I/DR UNACCEPTABLE ANTIBODIES INCREASE ACCURACY IN PREDICTION OF FLOW CROSSMATCHES RESULTS

Alexandre Rouleau, Fernando Echeverry, Claude Daniel. INRS - Institut Armand Frappier, Laval, QC, Canada

P029

HLA-A, -B, -DRB1 ALLELE AND HAPLOTYPE FREQUENCIES IN RENAL TRANSPLANT CANDIDATES IN A POPULATION IN SOUTHERN BRAZIL

Patricia Keiko Saito¹, Roger Haruki Yamakawa¹, Erika Noda Noguti², Gustavo Borelli Bedendo¹, Waldir Verissimo da Silva Júnior¹, Sergio Seiji Yamada¹, Sueli Donizete Borelli¹. ¹State University of Maringa, Maringa, Brazil; ²Histogene Laboratory of Histocompatibility and Genetics, Maringa, Brazil

P030

THE EFFECTS OF HYPOTONIC DIALYSIS AND SPIN COLUMNS ON SERUM ANTI-HLA IgG LEVELS

Michael B. Solomon II, Matthew G. Fair, Angela Kessler, Jennifer Mendiolina, Robert Cirocco. Lehigh Valley Health Network, Allentown, PA

P031

NO MORE POOLED POSITIVE CONTROL SERUM: POSITIVE CONTROL SERUM FOR THE STANDARDIZATION OF HLA LABORATORY ASSAYS USING A COMBINATION OF CHIMERIC MONOCLONAL ANTIBODIES AGAINST HLA AND AB NEGATIVE SERUM

Thomas Thompson, Sheree H. Waslaske, Douglas Gimlin, Cindi G. Marchman, Elise M. McPherson, Haywood Titchner, Carissa Lemerise, Cheryl Nasse, Karen A. Cellars, Omar Moussa. Medical University of South Carolina, Charleston, SC



Abstracts

P032

DSA IN THE ABSENCE OF KNOWN SENSITIZING EVENTS: WHAT TO DO?

Eric Wagner¹, Annie Mimeault¹, Serey-Phorn Sea¹, Isabelle Lapointe², Isabelle Côté², Sacha DeSerres², Réal Noël², Isabelle Houde².
¹CHU de Quebec-CHUL, Quebec, QC, Canada; ²CHU de Quebec-HDQ, Quebec, QC, Canada

P033

IMPACT OF CYP3A5 POLYMORPHISMS ON THE METABOLISM OF TACROLIMUS IN RENAL TRANSPLANT RECIPIENTS DURING A 4-YEAR FOLLOW-UP

Xuedong Wei¹, Mubin Sun¹, Yangyang Sun², Jun He³, Jianquan Hou¹. ¹The First Affiliated Hospital of Soochow University, Suzhou, China; ²The Third Affiliated Hospital of Soochow University, Changzhou, China; ³The First Affiliated Hospital of Soochow University, Suzhou, China

P034

TOWARDS STANDARDIZATION OF SOLID-PHASE ASSAYS

Tenisha West, Walter Herczyk, Sana Ramahi, Jerome Weidner, Susana R. Marino. University of Chicago Medicine, Chicago, IL

P035

PRONASE EFFECTS IN THE FLOW CYTOMETRY CROSSMATCH

Danny Youngs, Paul Warner. Puget Sound Blood Center, Seattle, WA

P036

C1Q SINGLE ANTIGEN BEAD ASSAY ONLY DETECTS HIGH TITER/AVIDITY CLASS-I ANTI-HLA ANTIBODIES DETECTED BY SINGLE ANTIGEN BEADS

Manish J. Gandhi, Steven DeGoey, Nicole Henderson, Laurie Voit, Justin Kreuter. Mayo Clinic, Rochester, MN

M.J. Gandhi: Consultant; Company/Organization; Thermo Fisher-One Lambda.

P037

LACK OF C1Q REACTIVITY IN POST-LVAD PATIENT SERA

Peter Jindra¹, Jacek Pliszczynski¹, Charles Van Buren¹, Alfred Eaton¹, Nicholas Woolley¹, Jerome Saltarrelli¹, Eva McKissick¹, Noriel Acorda¹, Phillip Erice¹, Angela Hoover¹, Clair Hollingsworth¹, John Chappelle¹, Christine O'Mahony¹, O.H. Frazier², Hari Mallidi², Ronald Kerman¹. ¹Baylor College of Medicine, Houston, TX; ²Baylor College of Medicine, Houston, TX

P038

USE OF HLA-ALLELE PAIRS WHICH DIFFER ONLY IN BW4/BW6 FOR ANTIBODY ANALYSIS

Maria Kafetzi, Isabelle Wood, Edgar Milford, Indira Guleria. Brigham and Women's Hospital, Boston, MA

Abstracts

P039

CORRELATION OF FLOW HLA ANTIBODY SCREENING AND LUMINEX SINGLE ANTIGEN BEAD ASSAY

Karine E. Lopes, Adella Clark, Liang Wan, Wendy E. Wegner, Dong-Feng Chen. Duke University Medical Center, Durham, NC

P040

THREE METHODS TO IDENTIFY CYTOTOXIC ANTIBODIES; ONE METHOD IS NOT ENOUGH

Mehrnoush R. Naim, Chih Hung Lai, Geraldine Ong, Qi Wang, Robin Masukawa, Maria Manalo, Alfredo Santiago, Dianne Paredes, Nancy L. Reinsmoen. Cedars Sinai Medical Center, Los Angeles, CA

P041

DONOR SPECIFIC ANTIBODY MEAN FLUORESCENCE INTENSITIES IN POSITIVE, NEGATIVE, AND EQUIVOCAL C4D RENAL TRANSPLANTS: IS EQUIVOCAL C4D A TIME FOR TREATMENT?

James C. Cicciarelli¹, Michael Koss^{1,2}, Tariq Shah^{3,4}, Nathan A. Lemp¹, Noriyuki Kasahara¹, Robert Naraghi^{3,4}. ¹Viracor-IBT Laboratories, Los Angeles, CA; ²USC Keck School of Medicine, Los Angeles, CA; ³St. Vincent Medical Center, Los Angeles, CA; ⁴Transplant Research Institute, Los Angeles, CA

P042

PREVALENCE AND CLINICAL SIGNIFICANCE OF C1q BINDING DONOR SPECIFIC ANTIBODIES IN RENAL TRANSPLANTATION

Adriana Colovai¹, Christina Savchik¹, Summeye Calp Inal¹, Peter Masiakos¹, Min Ling², Liise Kayler¹, Enver Akalin¹. ¹Montefiore Medical Center, Bronx, NY; ²UT Medical School at Houston, Houston, TX

P043

ELEVATED EXPRESSION OF AIF-1 AND IL-18 AT EARLY KIDNEY TRANSPLANTATION MAY PREDICT ALLOGRAFT DYSFUNCTION BUT NOT THE DGF. NOVEL MARKERS OF PODOCYTES

D. Olga McDaniel, Joel Duff, Corey W. Sivils, Akshay Bangale, Jack Neill, Fauzia Butt, Christopher Anderson. University of MS Med Center, Jackson, MS

P044

C4d NEGATIVE ANTIBODY MEDIATED RENAL ALLOGRAFT REJECTION- NEED FOR MOLECULAR SIGNATURE

Michele Prod¹, Maria Opperman¹, Ina Kurbegovic-Skaljic¹, Sylvia Piggott¹, Erin Christian¹, Nadia Parmakova¹, David Cimbaluk², Siva Kanangat². ¹Rush University Medical Center, Chicago, IL; ²Rush University Medical Center, Chicago, IL

P045

DONOR-SPECIFIC ANTIBODY CAN BE MITIGATED BY INCREASING ANTIMETABOLITE DOSING ALONE

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DONOR SPECIFIC ANTIBODY TO TRANS-ENCODED DONOR HLA-DQ HETERO-DIMER

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ANALYSIS OF EPITOPE SHARING AMONG HLA-A1,3,11 AND 80

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HIGH FREQUENCY OF HLA-DQ ANTIBODIES IN HEART TRANSPLANT PATIENTS

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THE COMPLEXITY OF ANTI-HLA ANTIBODIES IN IMMUNOLOGICAL RESPONSE PATTERNS OF SENSITIZED TRANSPLANT PATIENTS

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P050

CORRELATION OF THE PRESENCE OF COMPLEMENT BINDING DE NOVO DSA AND PATHOLOGY DEFINED ANTIBODY MEDIATED REJECTION (pAMR) IN HEART RECIPIENTS

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IDENTIFICATION OF NOVEL HLA ALLELES BY SEQUENCE BASED TYPING (SBT): A*33:73N AND C*03:218

Weicheng Zhao, Brandt Moore, Edward Guerrero, David Partlow, Kai Cao. UT MD Anderson Cancer Center, Houston, TX

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HLA GENE MUTAGENESIS CAUSED BY TUMOR BLAST CELLS IN PERIPHERAL BLOOD

Weicheng Zhao, Edward Guerrero, Dana Willis, Kai Cao. UT MD Anderson Cancer Center, Houston, TX

P053

DISTRIBUTION OF KIR HLA LIGANDS IN TRANSPLANT PATIENTS AND THEIR CORD BLOOD UNIT (CBU) DONORS

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GENOTYPING OF HLA NOVEL AND RARE ALLELES USING NEXT GENERATION SEQUENCING ON THE ION TORRENT PERSONNEL GENOME MACHINE (PGM), USING A NOVEL GROUP-SPECIFIC SANGER SEQUENCE BASED TYPING METHOD AS REFERENCE.

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INS-VNTR POLYMORPHISM AND GENE EXPRESSION IN TYPE 1, TYPE 2 AND GESTATIONAL IN BRAZILIAN DIABETES MELLITUS PATIENTS

Flavia Porto Pela¹, Adriane Feijó Evangelista², Diane Rassi¹, Maria Cristina Foss¹, Milton Foss¹, George Tadeu Nunes³, Celso Teixeira Mendes Junior¹, Norma Lucena³, Eduardo A. Donadi¹. ¹FMRP-USP, Ribeirao Preto, Brazil; ²Hospital do Cancer de Barretos, Barretos, Brazil; ³Centro de Pesquisas Aggeu Magalhães, Recife, Brazil

P056

FREQUENCIES OF AUTOIMMUNE DISEASES ASSOCIATED POLYMORPHISMS IN MEXICAN POPULATION

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P057

INFLUENCE OF ACTIVATING AND INHIBITORY KILLER IMMUNOGLOBULIN-LIKE RECEPTOR GENES ON PREDISPOSITION TO LYMPHOCYTIC LEUKEMIAS

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THE CHARACTERISTICS OF KIR2DL1 ALLELES POLYMORPHISM AND RECOGNITION HLA-C LIGAND IN THE CHINESE HAN POPULATION

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META ANALYSIS OF SEQUENCE-BASED HLA TYPING APPROACHES

Szilveszter Juhos, Krisztina Rigo, Gyorgy Horvath, Tim Hague. Omixon Biocomputing Ltd, Budapest, Hungary

P060

HLA-B*52 HAPLOTYPIC DISTRIBUTION IN A BRAZILIAN SAMPLE

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PROMOTER METHYLATION CAN AFFECT THE ANTIGEN AND mRNA EXPRESSION OF KIR3DL1

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ALLELIC AND HAPLOTYPIC FREQUENCIES OF THE HLA-A, -B, -C, -DRB1 AND -DQB1 GENES IN POLYTRANSFUSED PATIENTS IN ETHNICALLY DIVERSE POPULATIONS FROM BRAZIL

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IDENTIFICATION OF A NEW DQB1 AND DPB1 ALLELE WITH SBT AND GENE CLONING

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KIR mRNA EXPRESSION IN NATURAL KILLER CELLS AND PERIPHERAL BLOOD MONONUCLEAR CELLS ASSAYED BY QUANTITATIVE REAL-TIME PCR

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PCR-SSOP AMBIGUITIES POLICY IN LOW/MEDIUM HLA TYPING FOR BONE MARROW VOLUNTEER DONATION

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P066

PLATFORM-INDEPENDENT SOFTWARE AND REAGENTS FOR QPCR-BASED MICROCHIMERISM ANALYSIS

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P067

TWO NOVEL ALLELES HLA-A*02:433 AND HLA-A*02:434 IDENTIFIED IN SAUDI BONE MARROW DONORS USING SEQUENCE-BASED TYPING

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ALLOGENEIC HEMATOPOIETIC CELL TRANSPLANTATIONS WITH KILLER IMMUNOGLOBULIN-LIKE RECEPTOR GENOTYPE MATCHED DONORS HAVE REDUCED INCIDENCE OF GRAFT VERSUS HOST DISEASE WITH NO EFFECT ON THE RISK OF DISEASE RELAPSE

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ANALYSIS OF THE NON INHERITED HLA MATERNAL ANTIGENS-NIMA, IN THE BACECU-MEXICAN ALTRUISTIC CORD BLOOD BANK

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THREE NEW ALLELES HLA-C*14:02:13, HLA-C*15:72, AND HLA-C*15:74 IN SAUDI BONE MARROW DONORS

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DESCRIPTION OF THREE NOVEL ALLELES HLA-DQB1*05:48, HLA-DQB1*06:126, AND HLA-DQB1*06:123 IN SAUDI STEM CELL DONORS

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TWO NOVEL ALLELES HLA-DRB1*11:150 AND HLA-DRB1*14:145 IDENTIFIED IN SAUDI INDIVIDUALS

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IMMUNOBIOLOGY OF HLA-G IN SIBLING RELATED HEMATOPOIETIC STEM CELL TRANSPLANTATION

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IDENTIFICATION OF NOVEL HLA ALLELES IN HEMATOPOIETIC STEM CELL TRANSPLANT PATIENTS

Taba Kheradmand, Rebecca Upchurch, Brenda Issangya, Walter Herczyk, Susana R. Marino. University of Chicago Medicine, Chicago, IL

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VARIABLE ANTIGEN EXPRESSION ON PLATELETS: IMPLICATIONS FOR ANTIGEN-NEGATIVE PLATELET SELECTION

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ASSESSMENT OF CELL FRACTION PURITY BY PCR ON SEQUENTIAL LINEAGE-SPECIFIC CELL SEPARATIONS FOR CHIMERISM MONITORING

Tatiana Lebedeva, Charlotte Cronin, Vil Sydara, Brigid Bonin, Kara McGee, Sue Aronovitz, Neng Yu. American Red Cross, Dedham, MA

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IMPROVED SBTENGINE BATCH ANALYSIS MODULE

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ASSESSMENT OF CLINICAL SIGNIFICANCE OF NOVEL ALLELES FOR HEMATOPOIETIC STEM CELL TRANSPLANTATION

Runying Tian, Elaine Hodges, Candace Young, Angelica DeOliveira, Wendy E. Wegner, Gansuud Balgansuren, Dong-Feng Chen. Duke University Medical Center, Durham, NC

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IS DNA ISOLATED FROM FROZEN PLASMA A RELIABLE METHOD FOR rSSOP HLA TYPING?

Jerome Weidner, Sana Ramahi, Susana R. Marino. University of Chicago Medicine, Chicago, IL

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BIOLOGICAL SIGNIFICANCE OF HLA-G IN TYPE 1 DIABETES SUSCEPTIBILITY AMONG NORTH INDIANS

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STUDY OF THE INFLUENCE OF N-3 FATTY ACIDS IN THE SYNTHESIS OF NITRIC OXIDE DURING PARACOCCIDIOIDOMYCOSIS.

Sheisa C. Sargi, Vinicius J. Navarini, Marcia MO Dalalio, Jesui V. Visentainer. Universidade Estadual de Maringa, Maringa, Brazil

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IMPLEMENTATION OF NEXT GENERATION SEQUENCING (NGS) TECHNOLOGY FOR HLA TESTING: KEY LESSONS LEARNED FROM A MULTI-CENTER ALPHA STUDY

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DETERMINATION OF THE CLINICAL USEFULNESS OF HLA NEUTRALIZATION PROFILES

Rico Buchli¹, Arend Mulder², Annette Jackson³, Anat R. Tambur⁴, René J. Duquesnoy⁵, Rebecca D. McAdams¹, Alyson Morris³, Rick Eggers⁶, Georgina Lopez Padilla⁶, Daniel Zehnder⁷, David P. Lowe⁸, David C. Briggs⁹, Robert Higgins¹⁰, Frans H.J. Claas¹¹, Mike Hogan⁶, William H. Hildebrand¹². ¹Pure Protein LLC, Oklahoma City, OK; ²Leiden University Medical Center, Leiden, Netherlands; ³Johns Hopkins University, Baltimore, MD; ⁴Feinberg School of Medicine, Northwestern University, Chicago, IL; ⁵University of Pittsburgh Medical Center, Pittsburgh, PA; ⁶gmsbiotech, Tucson, AZ; ⁷The University of Warwick, Coventry, United Kingdom; ⁸Royal Liverpool and Broadgreen University Hospitals NHS Trust, Liverpool, United Kingdom; ⁹NHSBT Birmingham, Birmingham, United Kingdom; ¹⁰University Hospitals of Coventry & Warwickshire NHS Trust, Coventry, United Kingdom; ¹¹Leiden University Medical Center, Leiden, Netherlands; ¹²Oklahoma University Health Sciences Center, Oklahoma City, OK

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THE HLA PROTEIN CHIP - A HIGH PERFORMANCE MICROARRAY PLATFORM FOR ANTI-HLA ANTIBODY DETECTION UTILIZING SOLUBLE HLA

Rico Buchli¹, Rick Eggers², Georgina Lopez Padilla², Arend Mulder³, Annette Jackson⁴, Anat R. Tambur⁵, Frans H.J. Claas⁶, William H. Hildebrand⁷, Mike Hogan². ¹Pure Protein LLC, Oklahoma City, OK; ²GMSBiotech, Tucson, AZ; ³Leiden University Medical Center, Leiden, Netherlands; ⁴Johns Hopkins University, Baltimore, MD; ⁵Feinberg School of Medicine, Northwestern University, Chicago, IL; ⁶Leiden University Medical Center, Leiden, Netherlands; ⁷Oklahoma University Health Sciences Center, Oklahoma City, OK

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RAPID METHOD TO ELIMINATE HIGH BACKGROUND ON LUMINEX-SINGLE ANTIGEN BEADS (L-SAB) IN SERA FROM PATIENTS WITH VENTRICULAR ASSIST DEVICES (VAD)

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IMPROVED ION TORRENT SEQUENCING CHEMISTRY ENABLES RAPID TURN AROUND AND 600BP READS

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LIS ON A SHOESTRING

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HLA TYPING VALIDATION BY NEXT GENERATION SEQUENCING (NGS)

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IS THERE A LINK BETWEEN TRANSCRIPTION AND HLA IN CARDIAC TRANSPLANTATION?

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NEXT-GENERATION SEQUENCING-BASED HLA TYPING OF SALIVA AND BLOOD SAMPLES FROM THE SAME DONORS PRODUCES CONCORDANT TYPING RESULTS

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A COMPARATIVE STUDY OF HLA TYPING USING AN ILLUMINA MISEQ NGS SYSTEM

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PERFORMANCE EVALUATION OF HIGH RESOLUTION 11 LOCI HLA-TYPING PROTOTYPE ASSAY USING NGS TECHNOLOGY

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PRESENTATION OF ESX FAMILY PROTEINS BY CLASSICAL AND NON-CLASSICAL CLASS I HLA AFTER M. TUBERCULOSIS INFECTION

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A FULL NGS WORKFLOW FOR REACHING THE ULTIMATE HLA TYPING RESOLUTION

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HYBRID READS, A QUALITY VALUE FOR HLA AMPLIFICATION: MEASURED WITH NGSengine

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EVALUATION OF ENZYMATIC LIBRARY PREPARATION FOR THE ILLUMINA MISEQ

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ACCURATE HLA TYPING BY NGS USING THE IonTorrent PGM WITH A PLATFORM SPECIFIC DEVELOPED AND TESTED WORKFLOW

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HLA TYPING USING ION TORRENT PGM AND LONG RANGE HLA GENE AMPLIFICATION PRIMERS: EVALUATION OF ISOTHERMAL AMPLIFICATION AND HI-Q CHEMISTRY

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A SINGLE CENTER COMPARISON OF HIGH-RESOLUTION HLA TYPING BY NEXT-GENERATION VERSUS SANGER SEQUENCING

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LONG RANGE NGS HLA TYPING IS ACCURATE IN THE IDENTIFICATION OF COMMON, RARE, AND NOVEL ALLELES

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DQB1*03:19 ASSOCIATION WITH DRB1 AND DQA1 IN NORTH CAROLINA POPULATION

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HIGH RESOLUTION HLA ALLELE FREQUENCIES OF STEM CELL DONORS IN MEXICO. GENETIC DIVERSITY AND ITS RELEVANCE TO IMPROVE UNRELATED DONOR SEARCHES

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SPECTRUM OF HLA ASSOCIATIONS WITH ACUTE LYMPHOBLASTIC LEUKEMIA IN MEXICAN PATIENTS

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ALLELE-, HAPLOTYPE- AND GENOTYPE-LEVEL ASSOCIATIONS WITH CROHN'S DISEASE IN JEWISH AND NON-JEWISH EUROPEAN AMERICANS

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SMALL POPULATION SIZES LEAD TO LINKAGE DISEQUILIBRIUM OVERESTIMATES

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Elizabeth A. Trachtenberg¹, Julia B. M. Udell¹, Kazutoyo Osoegawa¹, Martha B. Ladner¹, David A. Noonan¹, Dermot P. B. McGovern², Jerome I. Rotter³, Kent D. Taylor³, Henry A. Erlich⁴. ¹Stanford University, Palo Alto, CA; ²Cedars-Sinai Medical Center, Los Angeles, CA; ³Los Angeles Biomedical Research Institute, Harbor-UCLA, Torrance, CA; ⁴Children's Hospital Oakland Research Institute, Oakland, CA

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Everton F. Alves, Sueli Donizete Borelli, Luiza T. Tsuneto. State University of Maringá, Maringá, Brazil

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Luciana R. Jarduli¹, Hugo V. Alves¹, Elaine V. C. Marcos², Fabiana C. Souza², Ana C. Pereira², Marcelo T. Mira³, Milton O. Moraes⁴, Jeane EL Visentainer¹. ¹Universidade Estadual de Maringa, Maringa, Brazil; ²Instituto Lauro de Souza Lima, Bauru, Brazil; ³Pontifícia Universidade Católica do Paraná, Curitiba, Brazil; ⁴FIOCRUZ, Rio de Janeiro, Brazil

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Laurie Voit, Crystal Keso, Lisa Hallaway, Justin D. Kreuter, Manish J. Gandhi. Mayo Clinic, Rochester, MN

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HLA HIGH RESOLUTION GENOTYPING USING 454 NGS AND GS GTYPE HLA ASSAY

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Jennifer R. Baye, Maurine Davidson, David Maurer. University of Minnesota Medical Center - Fairview, Minneapolis, MN



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Walter Herczyk, Tenisha West, James Meade, Xiaohua Tian, Susana R. Marino. University of Chicago Medicine, Chicago, IL

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Siva Kanangat, Maria Oppermann, Michele Prod, Ina Kurbegovic-Skaljic, SYLVIA PIGGOTT, Erin Christian, Nadia Parmakova, David Cimaluk, Samuel Saltzberg, Steven Jensik, Edward Hollinger. Rush University Medical Center, Chicago, IL

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Mia Kost, John C. Magee, David B. Kershaw, Milagros D. Samaniego-Picota, Timothy C. Williams, Daniel S. Ramon. University of Michigan, Ann Arbor, MI

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DR7 PEDIATRIC HEART TRANSPLANT PATIENTS CAN HAVE ANTIBODIES REACTIVE TO DR4, 7 AND 9 SINGLE ANTIGEN BEADS THAT ARE NON-REACTIVE TO CELLS

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GRAFT REJECTION IN A KIDNEY TRANSPLANT RECIPIENT WITH NEGATIVE CROSSMATCHES AND A SINGLE HLA-DP DONOR SPECIFIC ANTIBODY

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Allen J. Norin, Erin H. Chang, Mary Mondragon-Escopizo, David Hochman. SUNY Downstate Medical Center, Brooklyn, NY

A.J. Norin: Speaker's Bureau; Company/Organization; Immucor-Lifecodes. Scientific/Medical Advisor; Company/Organization; ICON CL.

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Gareth Page. Guy's Hospital, London, United Kingdom

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John Skibby, Ellen Klohe. Inland Northwest Blood Center, Spokane, WA

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Kirsten Tronsgard, Bobbi Lynn Goudreau, Patricia Campbell, Luis Hidalgo. Universtiy of Alberta Hospital, Edmonton, AB, Canada

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CONFIRMATION OF AN ALLELE DROPOUT DEPENDANT ON DNA SOURCE

Adam Schoen, Nebila M. Abdulwahab, Nicholas Dipaola. The Ohio State University Wexner Medical Center, Columbus, OH



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Fleur M. Aung. The University of Texas MD Anderson Cancer Center, Houston, TX

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RARE ALLELES IN ALLOGENEIC DONORS OF HEMATOPOIETIC STEM CELL TRANSPLANTATION

Vincenzo Grimaldi¹, Antonietta Picascia¹, Amelia Casamassimi², Claudio Napoli^{1,2}. ¹U.O.C. Division of Immunohematology, Transfusion Medicine and Transplant Immunology [SIMT], Regional Reference Laboratory of Transplant Immunology [LIT], Azienda Universitaria Policlinico (AOU), Second University of Naples, Naples, Italy; ²Department of Biochemistry, Biophysics and General Pathology, Second University of Naples, Naples, Italy

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*Late Breaking Posters***LBP01****DIFFERENT STROKES FOR DIFFERENT FOLKS: CONCORDANCE AND DISCORDANCE IN ANTI-HLA ANTIBODY TESTING**

Moshe Israeli¹, Marilyn S. Pollack², Carley A. E. Shaut³, Anne Halpin⁴, Nicholas R. DiPaola⁵, Danny Youngs⁶, Susan L. Saidman⁷.
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LBP02**AGE DEPENDENT HLA PROFILES IN A WORLD OF POPULATION MIGRATION: IMPACT ON HEMATOPOIETIC CELL DONOR RECRUITMENT AND AVAILABILITY**

Moshe Israeli¹, Machteld Oudshoorn¹, Geert W. Haasnoot¹, Tirza Klein², Bracha Zisser³, Gideon Bach⁴, Frans H. J. Claas¹. ¹Leiden University Medical Center, Leiden, Netherlands; ²Rabin Medical Center, Petach-Tikva, Israel; ³Ezer-Mizion Bone Marrow Donor Registry, Petach-Tikva, Israel; ⁴Bedomayich-Chayi Public Cord Blood Bank, Jerusalem, Israel

LBP03**ALLOGENEIC-DRIVEN BENEFIT OF HUMAN CARDIAC-DERIVED STEM/PROGENITOR CELLS**

Hocine Rachid Hocine, Laura Lauden, Noémie Dam, Wahid Boukouaci, Dominique Charron, Reem Al-Daccak. Immunology, INSERM, Hôpital Saint Louis, IUH, paris, France

LBP04**APPLICATION OF SINGLE MOLECULE REAL-TIME (SMRT) SEQUENCING TECHNOLOGY FOR THE FIELD 4 LEVEL GENOTYPING OF CLASSICAL HLA LOCI**

Shingo Suzuki¹, Brett N. Bowman², Yuki Ozaki¹, Shigeki Mitsunaga¹, Hidetoshi Inoko¹, Swati Ranade², Takashi Shiina¹. ¹Tokai University School of Medicine, Kanagawa, Japan; ²Pacific Biosciences, Menlo Park, CA

LBP05**B CELL POSITIVE FLOWCYTOMETRY CROSS MATCH DUE TO DONOR SPECIFIC ANTIBODIES OF IgM ISOTYPE**

Andrew L. Lobashevsky, Kevin M. Rosner, Melinda A. Kincade, Nancy G. Higgins. Indiana University Health, Methodist Hospital, Histocompatibility laboratory, Indianapolis, IN

LBP06**HLA-C ANTIBODY: HOW STRONG IS UNACCEPTABLE? DEFINING HLA-C ANTIBODY CUT-OFF AT ONE TRANSPLANT CENTER**

Jessica Gatulis, Neng Yu, Jennifer Brissette, Gillian Lennon. Umass Memorial Medical Center, Worcester, MA



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EVALUATION OF MULTIPLEXING STRATEGIES FOR HLA GENOTYPING USING PACBIO SEQUENCING TECHNOLOGIES

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LBP08

PLASMA TRANSFUSION/EXCHANGES MAY RESULT IN ACQUIRED PASSIVE DONOR SPECIFIC HLA ANTIBODY (DSA) IN CARDIAC TRANSPLANTED PATIENTS

Raffaella Lopa¹, Yu Bai², Chengyu Wu², Rhonda Hobbs², Susan Rossman³, Beth Hartwell³, Cynthia Adams², Leonida Legal-Stockwell², Thuydung Tu², Siram Nathan², Pranav Loyalka², Igor Gregoric², Biswajit Kar², John Bynon², Min Ling⁴. ¹UT Medical School at Houston/Memorial Hermann Hospital, Houston, TX; ²UT Medical School at Houston, Houston, TX; ³Gulf Coast Regional Blood Center, Houston, TX; ⁴UT Medical School at Houston, Houston, TX

LBP09

CASE STUDY: TREATMENT AND MONITORING FOR HYPER-ACUTE REJECTION OF A TRANSPLANTED HEART

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CO-EVOLUTION OF KIR AND HLA CLASS I IN A SOUTHERN AFRICAN HUNTER-GATHERER POPULATION

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LBP11

THE TEST OF TIME. A MULTICENTER EVALUATION OF THE RAPID OPTIMIZED SINGLE ANTIGEN BEAD (ROB) PROTOCOL FOR LABSCREEN.

Robert Liwski¹, Patricia Campbell², Adriana Colovai³, Deborah Crowe⁴, Anne Halpin², Luis Hidalgo², Ronald Kerman⁵, Peter Jindra⁵, Dong Li⁶, John Lunz⁷, Cathi Murphey⁸, Peter Nickerson⁹, Denise Pochinco⁹, Sandra Rosen-Bronson⁶, Olga Timofeeva⁶, Paul Warner¹⁰, Adriana Zeevi⁷. ¹Dalhousie University, Halifax, NS, Canada; ²University of Alberta, Edmonton, AB, Canada; ³Montefiore-Einstein Transplant Center, Bronx, NY; ⁴Dialysis Clinic Inc. (DCI) Laboratory, Nashville, TN; ⁵Baylor College of Medicine, Houston, TX; ⁶Medstar Georgetown University Hospital, Washington, DC; ⁷University of Pittsburgh Medical Center, Pittsburgh, PA; ⁸Southwest Immunodiagnostics, Inc., San Antonio, TX; ⁹University of Manitoba, Winnipeg, MB, Canada; ¹⁰Puget Sound Blood Center, Seattle, WA

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A COMPARISON OF DECEASED DONOR TYPING STRATEGIES ELICITED BY A NOVEL HLA-DPB1 ALLELE

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LBP13

HLA MUTATIONS OBSERVED IN EBV-TRANSFORMED AND EXPANDED B-LYMPHOBLASTOID CELL LINES (BLCLS)

Elizabeth Beduhn¹, Ana Lazaro², Tatiana Lebedeva³, Elaine Reed⁴, Marcelo Fernandez-Vina⁵, Lindsay Carpenter¹, Jen Poate¹, Dan Scheller¹, Gail Flickinger¹. ¹National Marrow Donor Program, Minneapolis, MN; ²Georgetown University, Washington, DC; ³American Red Cross Northeast Division, Dedham, MA; ⁴UCLA, Los Angeles, CA; ⁵Stanford School of Medicine, Palo Alto, CA

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TWO KIDNEY RECIPIENTS WITH GOOD FUNCTION AND DONOR SPECIFIC ANTIBODIES POSITIVE FOR C1Q AND IGG4 SUBCLASS

James C. Cicciarelli¹, Nathan A. Lemp¹, Noriyuki Kasahara¹, Kevin Burns², Bruce Williams³, Sheila Bloom³, Rolando Montes³, Bennie Pitpitan¹, Barry Brown³, Steven Steinberg³. ¹Viracor-IBT Laboratories, Los Angeles, CA; ²BloodSource, Sacramento, CA; ³Sharp Memorial Hospital, San Diego, CA

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THE CHANCE OF FINDING A FULLY MATCHED RELATED DONOR IN SAUDI ARABIA: CAN IT BE HELPFUL TO DETERMINE THE BEST ALTERNATIVE DONOR SOURCE?

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THE DILEMMA OF DQ HLA- ANTIBODIES

Rabab A. Alattas, Dalal AlAbduladheem, Adel Shawahatti, Ricardo Lopez, Saber AlZahrani, Abdulnaser Abadi, Nasreen Hasan, Khalid Akkari. King Fahad Specialist Hospital, Dammam, Saudi Arabia

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A SCIENTIFIC MYTH: THERE IS MORE HLA CLASS I ON B CELLS THAN ON T CELLS

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HLA-PEPTIDE BINDING ANALYSIS BY THE CELL-SURFACE EXPRESSINO ASSAY

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EXTENDED COVERAGE BY NEXT GENERATION SEQUENCING METHODS REFINES THE CHARACTERIZATION OF THE COMMON AND WELL DOCUMENTED HLA ALLELES

Marcelo A. Fernandez-Vina, Chunlin Wang, Sujatha Krishnakumar, Douglas F. Levinson, Ronald W. Davis, Micheal Mindrinos. Stanford University, Palo Alto, CA

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RELEVANCE OF STRONG POSITIVE DONOR SPECIFIC ANTIBODIES AND FLOW CROSSMATCH WHILE C1q TEST NEGATIVE IN RENAL TRANSPLANTATION

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LABORATORY INFORMATION SYSTEM IMPLEMENTATION AND INTEGRATION: ACHIEVING A FULLY FUNCTIONAL SYSTEM

Yelena Kleyman-Smith, Thomas Peterson, Jagadish Chaparala, Kathryn Daavettila, Timothy Williams, Daniel S. Ramon. Histocompatibility Laboratory. Pathology, Universtity of Michigan Health System, Ann Arbor, MI

LBP22

STRONG DONOR SPECIFIC ANTI-HLA DR53 ANTIBODY DETECTED BY SINGLE-ANTIGEN BEADS SHOULD NOT ALWAYS PREVENT TRANSPLANTATION

Elizabeth Portwood, Paul A. Brailey, Matthew Blanton, Alin Girnita. Hoxworth Blood Center, Cincinnati, OH

LBP23

CLINICAL RELEVANCE OF CYTOKINE GENE POLYMORPHISM ON POST TRANSPLANT RENAL ALLOGRAFT SURVIVAL

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MULTI-PARAMETER FLOW CYTOMETRY OF T-CELL SUBPOPULATIONS AND LINEAR MIXED EFFECTS MODEL TO CHARACTERIZE MULTIORGAN DYSFUNCTION SYNDROME AFTER MECHANICAL CIRCULATORY SUPPORT DEVICE

Yael Korin^{1,2}, Nicholas Wisniewski^{3,4}, Martin Cadeiras^{5,6}, Joanna Schaefer^{7,8}, Murray Kwon^{9,8}, Tiffany Sidwell^{1,8}, Fadi Kandarian^{1,8}, Galyna Bondar^{5,8}, Elaine Reed^{1,8}, Mario Deng^{5,8}. ¹UCLA Immunogenetics Center, Department of Pathology and Laboratory Medicine, Los Angeles, CA; ²David Geffen School of Medicine at UCLA, Los Angeles, CA; ³Advanced Heart Failure Program, Division of Cardiology, Department of Medicine, Los Angeles, CA; ⁴David Geffen School of Medicine at UCLA, Los Angeles, CA; ⁵Advanced Heart Failure Program, Division of Cardiology, Department of Medicine, Los Angeles, CA; ⁶David Geffen School of Medicine at UCLA, Los Angeles, CA; ⁷Division of Infectious Diseases, Department of Medicine, Los Angeles, CA; ⁸David Geffen School of Medicine at UCLA, Los Angeles, CA; ⁹Division of Cardiothoracic Surgery, Department of Surgery, Los Angeles, CA

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TYPE 1 DIABETES: AROUND THE WORLD WITH HLA

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THE NIMA EFFECT IN CORD BLOOD TRANSPLANT (CBT): REAL OR A CONSEQUENCE OF BETTER HIGH RESOLUTION (HR) MATCHING IN THE NIMA MATCHED (NIMA+) GROUP?

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DECIPHERING STRONG AUTO AND ALLO HLA ANTIBODY REACTIVITIES POST ANGIOPLASTY FOR RENAL TRANSPLANT CANDIDATES

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A ROLE FOR IFN- γ STIMULATED MONOCYTES IN ANTIBODY-MEDIATED DAMAGE BY C1Q+ DSA

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TRANSPLANTATION OF SENSITIZED HEART PATIENTS

Liang Wan, Chet Patel, Joseph Rogers, Carmelo Milano, Wendy E. Hanshew, Dong-Feng Chen. Duke University Medical Center, Durham, NC

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THE SPECIFICITY OF HLA-DP ANTIBODIES ARE DEFINED BY TWO DIMORPHIC EPITOPES

Xiaohai Zhang, Jeffrey McNamara, David Gjertson, Michael Cecka, Elaine Reed. the UCLA Immunogenetics Center, Los Angeles, CA

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MOLECULAR MEASUREMENT OF T-HELPER SUBSET GENE TRANSCRIPTS IN PERIPHERAL BLOOD RAPIDLY AND ACCURATELY IDENTIFIES SUBSET VARIATIONS IN RELATION TO GRAFT STATUS

Phillip Ruiz, Emilio Margolles-Clark. University of Miami, Miami, FL

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FETAL MICROCHIMERISM IN DEVELOPING OF ACUTE GVHD AFTER HAPLOIDENTICAL BMT.

Ildar Barkhatov, Youri Serov, A. Shakirova, O. Smykova, L. Zubarovskaya, Boris Afanasyev. First Pavlov State Medical University of St.Petersburg, Saint Petersburg, Russian Federation

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DEFINING A CLINICALLY RELEVANT CUTOFF FOR THE IDENTIFICATION OF HLA ANTIBODIES USING THE SINGLE ANTIGEN BEAD ASSAY

Eric Salazar, Todd N. Eagar, Geoffrey A. Land. Houston Methodist Hospital, Houston, TX

LBP34

ANTI-HUMAN GLOBULIN (AHG) ENHANCED C1Q ASSAY IMPROVES DETECTION OF DONOR SPECIFIC HLA ANTIBODIES (DSA) IN HEART TRANSPLANT RECIPIENTS WITH ANTIBODY MEDIATED REJECTION.

Fengxia Ge¹, Lingzhi Li¹, Xiuwei Tang¹, Eric Ho¹, Charles-Chuck Marboe¹, Rodica Vesilescu¹, Robert Liwski², Raphael A. Clynes¹.
¹Columbia University Medical Center, NEW YORK, NY; ²Dalhousie University, Halifax, NS, Canada

Abstracts

LBP35

STRENGTH OF DE NOVO HLA DONOR SPECIFIC ANTIBODY IS A STRONG PREDICTOR OF ITS C1Q BINDING CAPABILITY

Salim Ghandorah¹, Jinguo Wang², Amir Ahadzadeh¹, Abdalnaser Alabadi³, Serdar Yilmaz^{3,4}, Faisal Khan^{5,2}, Nouredine Berka^{6,7}.
¹University of Calgary, Calgary, AB, Canada; ²Calgary Laboratory Services, Calgary, AB, Canada; ³Foothills Medical Center, Calgary, AB, Canada; ⁴Division of Transplantation, University of Calgary, Calgary, AB, Canada; ⁵Departments of Pathology & Laboratory Medicine, Calgary, AB, Canada; ⁶Tissue Typing Laboratory - Calgary Laboratory Services, Calgary, AB, Canada; ⁷Department of Pathology and Laboratory Medicine, Calgary, AB, Canada

LBP36

MATCHING FOR SNP'S IN THE MHC GAMMA BLOCK REDUCES THE RISK OF GVHD AND INCREASES SURVIVAL RATES POST HSCT

Hayley M. Hogan, Karolina Dimovski, Damian M. Goodridge, David C. Sayer. Conexio, Wangara, Australia

LBP37

THE INCIDENCE OF AT1R ANTIBODY IN SOLID ORGAN TRANSPLANT AND CORRELATION WITH PRE-TRANSPLANT FACTORS

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Hotel Floor Plans



Sheraton
Denver Downtown
HOTEL

PLAZA BUILDING CONCOURSE LEVEL

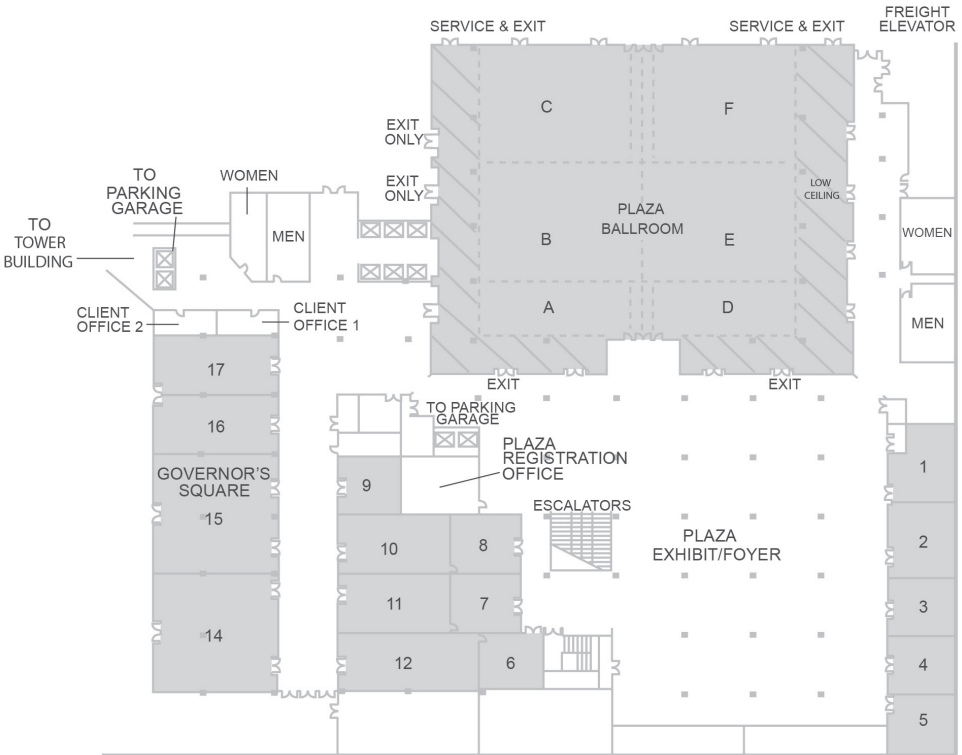
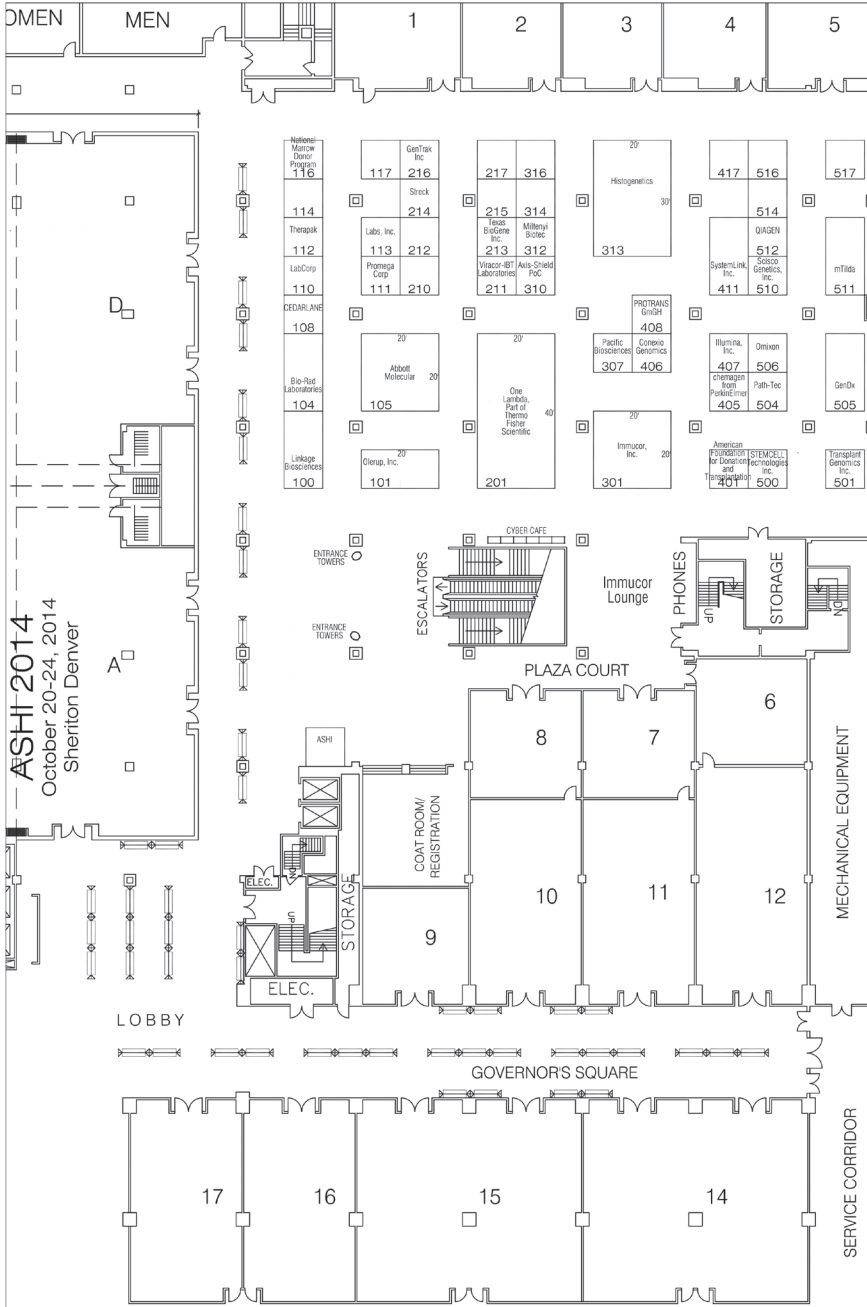


Exhibit Hall Floor Plans



Future Annual Meetings

41ST ANNUAL MEETING

September 28 – October 2, 2015
Savannah Convention Center
Savannah, GA

42ND ANNUAL MEETING

September 26 – 30, 2016
Hyatt Regency St. Louis at the Arch
St. Louis, MO

43RD ANNUAL MEETING

September 11 – 15, 2017
Hilton San Francisco Union Square
San Francisco, CA