9th International Congress on Spondyloarthropathies

Gent, Belgium

October 23 - 25, 2014

FINAL PROGRAMME

www.spa-congress.org

Table of Contents

Presidents

John Reveille (USA)
Martin Rudwaleit (Germany)

Local Organising Committee

Dirk Elewaut (Belgium)
Filip Van den Bosch (Belgium)

Honorary Chair

Herman Mielants (Belgium)

Scientific Committee

Xenofon Baraliakos (Germany)
Paul Bowness (UK)
Jürgen Braun (Germany)
Maxime Breban (France)
Matthew Brown (Australia)
Ruben Burgos-Vargas (Mexico)
Robert Colbert (USA)
Atul Deodhar (USA)
J. S. Hill Gaston (UK)
Robert Inman (Canada)
Muhammad Asim Khan (USA)
Robert Landewé (The Netherlands)
Marjatta Leirisalo-Repo (Finland)
Jose A. Lopez de Castro (Spain)
Rik Lories (Belgium)
Walter Maksymowych (Canada)
Helena Marzo-Ortega (UK)
Percival Sampaio-Barros (Brazil)
Georg Schett (Germany)
Jochen Sieper (Germany)
Désirée van der Heijde (The Netherlands)

Invited Speakers and Chairs

All speakers and chairs are invited by the Presidents and the Local Organising Committee.

Welcome Address

Dear Colleagues,

Welcome to the **Ninth International Congress on Spondyloarthropathies**. The rapid advances in SpA research since the last Congress two years ago have been remarkable indeed, and the field is nearly unrecognizable from the first SpA Congress in 1998, when little was known in SpA predisposition other than HLA-B27 and some infectious triggers, and there was little effective in SpA treatment than NSAIDs. This Congress will see the various themes that have dominated this research come together in a complementary and interactive manner showing a convergence of immunology, genetics, imaging, outcome studies and novel approaches to treatment.

The International Congress on Spondyloarthropathies has become the premier international research meeting focusing on SpA, and has provided a unique social and scientific forum for investigators worldwide to interact and collaborate. In the Ninth International Congress on Spondyloarthropathies we will see presentations from a broad range of researchers from the disciplines of molecular biology and cellular immunology, genetics, imaging, outcome studies and clinical research including imaging and clinical outcomes. The success of the meeting has been attributed to the high caliber of the research, a format which involves multidisciplinary expertise, and a venue which encourages both social and scientific interactions.

The program for the meeting will particularly focus on advances in genetics, including the complex networks of gene within and outside the MHC, in immunology, where in particular the critical importance of the IL17/IL23 axis and of antigen presentation will be explored, and the growing awareness of the role of the skin and intestinal mucosa in SpA pathogenesis will be highlighted, with focus in particular on skin and gut immunology and the microbiome, and on comorbidities complicating the course and prognosis of SpA. This underscores the importance of classification of early disease that will allow earlier diagnosis and novel therapeutic and behavioral interventions. The area of imaging has in particular been a challenge, and the growing awareness of the needs and challenges of utilizing this modality in early diagnosis and to identify those at highest risk for rapid progression and a poorer outcome will be explored. These major themes will be presented in a series of state-of-the-art lectures by international experts in the respective fields. The high quality of the abstracts is in particular an exciting aspect of this program, and outstanding work from young investigators worldwide will be presented in both poster and podium sessions. It is the goal of the meeting not only to contribute to disseminating these recent advances, but also to contribute to advancing the field of SpA research through communication and collaboration. This Congress has proved to be an ideal forum to build those synergies.

As Co-Presidents of the 2014 Congress, we extend a warm welcome to this exciting meeting and to the warmth and charm of the host city of Gent.

Martin Rudwaleit and John D. Reveille
Presidents of the 9th International Congress on Spondyloarthropathies

Thursday, October 23

13.30 **Welcome & Introduction**
John Reveille & Martin Rudwaleit, Presidents

Opening Keynote Lectures
Chairs: John Reveille & Martin Rudwaleit

13.45 INV1 **Basic science: The intestinal microbiome and the immune system**
Gerard Eberl, Paris, France

14.30 INV2 **Clinical science: Clinical trials - strengths, flaws, and limitations**
Maarten Boers, Amsterdam, The Netherlands

15.15 **Session I: Comorbidities and treatment decision strategies in SpA (industry-sponsored) - See page 12**

16.15 Coffee Break

16.45 **Session II: Novel pathways and opportunities in psoriatic arthritis and beyond (industry-sponsored) - See page 12**

17.45 **Session III: Current management of SpA (industry-sponsored) See page 12**

18.45 Opening Reception and Walking Dinner

Friday, October 24

Session IV: Genetics and pathogenesis in SpA
Chairs: Muhammad Asim Khan & Maxime Breban

08.30 INV9 **Update on genetics of SpA**
Matthew Brown, Woolloongabba, Australia

08.55 INV10 **Revisiting MHC genes in SpA**
Maxime Breban, Boulogne-Billancourt, France

09.20 INV11 **HLA-B27, antigen presentation and ERAP1**
Paul Bowness, Oxford, UK

Selected Oral Presentations

09.45 O1 **HLA-B27 subtype oligomerization and intracellular accumulation patterns correlate with predisposition to spondyloarthritis**
C. Jeanty, A. Noteuil, N. Jah, A. Sourisce, A. Wielgosik, I. Fert, M. Breban, C. André (France)

09.55 O2 **Peptide handling by HLA-B27 subtypes influences their biological behavior, association with ankylosing spondylitis and susceptibility to ERAP1**
C. Alvarez-Navarro, N. García-Medel, A. Sanz-Bravo, P. Gómez-Molina, E. Barnea, M. Marcilla, A. Admon, J.A. López de Castro (Spain & Israel)

10.05 O3 **Discovery of T cell receptor clonotypes distinctive for HLA B27-positive ankylosing spondylitis by deep repertoire sequence analysis**
M. Faham, V. Carlton, M. Moorhead, J. Zheng, T. Asbury, R.D. Inman (USA & Canada)

10.15 Coffee Break offered by Celgene and Poster Session 1

11.15 **Session V: Novel inflammatory pathways and targets (industry-sponsored) - See page 13**

12.15 Lunch

State-of-the-Art Lecture
Chairs: Ruben Burgos-Vargas & Helena Marzo-Ortega

13.30 INV14 **Juvenile spondyloarthritis: Clinical epidemiology update**
Pamela Weiss, Philadelphia, USA

Friday, October 24

Session VI: ER stress and related responses
Chairs: Dirk Elewaut & Paul Bowness

14.00 INV15 **ER stress in health and disease**
Bart Lambrecht, Ghent, Belgium

14.25 INV16 **Intestinal gamma delta T cells and stress**
Adrian Hayday, London, UK

14.50 INV17 **ER stress in SpA**
Robert Colbert, Bethesda, USA

15.15 Coffee Break and Poster Session 2

Selected Short Abstract Summaries
Chairs: Robert Colbert & Dominique Baeten

16.15 SO1 **A novel monocyte-specific transcript underlies the chromosome 21Q22 intergenic genetic association in ankylosing spondylitis**
K. Haynes, T. Kenna, E. Glazov, M.A. Brown, G.P. Thomas (Australia)

16.22 SO2 **IL-23 expression and activation of autophagy in synovium and PBMCS of HLA-B27 positive patients with ankylosing spondylitis**
B. Neerinckx, S.L. Carter, R.J. Lories (Belgium)

16.29 SO3 **Stromal overexpression of transmembrane TNF induces experimental spondyloarthritis in mice**
L.M. Van Duivenvoorde, M.N. Van Tok, D.L. Baeten (The Netherlands)

16.36 SO4 **Gut derived IL-23R+CD3+/CD3-CD4-CD8-CD56+RORc-T-bet+NKp44+ innate lymphoid cells are expanded in the peripheral blood, synovial fluid and bone marrow of ankylosing spondylitis patients**
F. Ciccia, G. Guggino, A. Rizzo, L. Saieva, A.R. Giardina, R.Alessandro, G. Triolo (Italy)

16.43 SO5 **Calgranulin levels are elevated in spondyloarthritis and reflect the presence of acute microscopic gut inflammation**
H. Cypers, G. Varkas, L. Van Praet, C. Cuvelier, J. Roth, T. Vogl, D. Foell, M. Lavric, F. Van den Bosch, D. Elewaut (Belgium & Germany)

17.00 **Session VII: Controversies in axSpA (industry-sponsored)** **- See page 13**

19.30 Gala Dinner at the 'Oude Vismijn' (Old Fish Market)

Saturday, October 25

Session VIII: What drives syndesmophyte formation in AS?
Chairs: Xenofon Baraliakos & Joachim Sieper

08.30 INV20 **Inflammation and other factors relevant for radiographic progression in AS**
Robert Landewé, Heerlen, The Netherlands

08.55 INV21 **The mechanistic point of view of new bone formation in AS**
Rik Lories, Leuven, Belgium

09.20 INV22 **Which molecules might be relevant for blocking new bone formation in SpA?**
Georg Schett, Erlangen, Germany

Selected Oral Presentations

09.45 O4 **Autoantibody to 14-3-3ETA is a novel biomarker associated with MRI inflammation and radiographic progression in axial spondyloarthritis**
W.P. Maksymowych, S. Wichuk, M. Murphy, A. Marotta (Canada)

09.55 O5 **The relationship between inflammation, fatty lesions and syndesmophytes in AS: Results from GO-RAISE**
X. Baraliakos, G. Hermann Kay, S. Xu, B. Hsu, J. Braun (Germany & USA)

10.05 O6 **Disease activity in male smokers has a >10-fold amplified effect on radiographic damage in comparison with female non-smokers in ankylosing spondylitis**
S. Ramiro, A. van Tubergen, R. Landewé, C. Stolwijk, M. Dougados, F. van den Bosch, D. van der Heijde (The Netherlands, France & Belgium)

10.15 Coffee Break and Poster Session 3

Saturday, October 25

Selected Oral Presentations
Chairs: Marjatta Leirisalo-Repo & Rik Lories

11.15 O7 **Factors associated with radiographic sacroiliitis in spondyloarthritis (SPA): Results from cross-sectional and longitudinal analyses in a cohort of multiplex families**
F. Costantino, N. Zeboulon-Ktorza, R. Said-Nahal, M.A. D'Agostino, M. Breban (France)

11.25 O8 **Mortality and associated conditions in hospitalized ankylosing spondylitis patients**
K.W. Wysham, S.G. Murray, E.H. Yelin, L.S. Gensler (USA)

11.35 O9 **The effect of smoking cessation in ankylosing spondylitis – Results from the Scotland registry for ankylosing spondylitis (SIRAS)**
G.T. Jones, T. Ratz, L.E. Dean, G.J. Macfarlane, F. Atzeni on behalf of SIRAS (UK & Italy)

11.45 O10 **Targeting synovial mast cells in spondyloarthritis: A proof-of-concept study with the tyrosine kinase inhibitor nilotinib**
J.E. Paramarta, M.C. Turina, T.F. Heijda, I.C. Blijdorp, T. Noordenbos, N. Yeremenko, D. Baeten (The Netherlands)

11.55 O11 **Objective evaluation of physical functioning after TNFi therapy in ankylosing spondylitis patients - A selection of three feasible performance-based tests**
S.F.E. van Weely, J. Dekker, M.P.M. Steultjens, J.C. van Denderen, M.T. Nurmohamed, B.A.C. Dijkmans, I.E. van der Horst-Bruinsma (The Netherlands & UK)

12.05 O12 **Clinical and imaging efficacy of etanercept in early non-radiographic axial spondyloarthritis: 48-week treatment data**
W.P. Maksymowych, D. van der Heijde, M. Dougados, J. Sieper, J. Braun, G. Citera, C. Miceli-Richard, J.C.C. Wei, R. Pedersen, R. Bonin, I. Logeart, J. Wajdula, B. Vlahos, J.F. Bukowski (Canada, The Netherlands, France, Germany, Argentina, Taiwan & USA)

12.15 Lunch

Saturday, October 25

13.30 **Session IX: The future of SpA (industry-sponsored)** **- See page 13**

State-of-the-Art Lecture
Chairs: Jürgen Braun & Robert Inman

14.30 INV25 **Personalized medicine using biomarkers: Reality or fiction?**
Walter Maksymowych, Edmonton, Canada

15.00 **Closing Address**
John Reveille & Martin Rudwaleit, Presidents

15.15 Farewell Reception

Thursday, October 23

Session I: Comorbidities and treatment decision strategies in SpA (industry-sponsored)
Chairs: Atul Deodhar & Percival Sampaio-Barros

15.15 INV3 **CV risk and other risk factors: A view of axial SpA, RA and SLE**
Mike T. Nurmohamed, Amsterdam, The Netherlands

15.45 INV4 **Predicting treatment response in axial SpA**
Filip Van den Bosch, Ghent, Belgium

16.15 Coffee Break

Session II: Novel pathways and opportunities in psoriatic arthritis and beyond (industry-sponsored)
Chairs: Herman Mielants & Désirée van der Heijde

16.45 INV5 **Mapping the IL-23/IL-17 axis**
Dirk Elewaut, Ghent, Belgium

17.15 INV6 **Targets or strategies – The next steps in psoriatic arthritis management**
Iain McInnes, Glasgow, UK

Session III: Current management of SpA (industry-sponsored)
Chairs: Ruben Burgos-Vargas & Helena Marzo-Ortega

17.45 INV7 **Axial SpA - met and unmet needs**
Maxime Dougados, Paris, France

18.15 INV8 **Interpretation of MR imaging in axial SpA - bridging scientific studies and clinical practice**
Robert Lambert, Edmonton, Canada

Friday, October 24

Session V: Novel inflammatory pathways and targets (industry-sponsored)
Chairs: Hill Gaston & Georg Schett

11.15 INV12 **Pathogenetic pathways in psoriasis and their relevance for PsA/SpA**
Christopher Ritchlin, Rochester, USA

11.45 INV13 **Targeting IL17 in axial SpA: From bench to bedside**
Dominique Baeten, Amsterdam, The Netherlands

Session VII: Controversies in axSpA (industry-sponsored)
Chairs: Robert Landewé & Walter Maksymowych

17.00 INV18 **Distinguishing nr-axSpA and AS by imaging: Feasible and how relevant?**
Désirée van der Heijde, Leiden, The Netherlands

17.30 INV19 **Are TNF-blockers true DMARDs in AS - How strong is the evidence?**
Lianne Gensler, San Francisco, USA

Saturday, October 25

Session IX: The future of SpA (industry-sponsored)
Chairs: Jürgen Braun & Robert Inman

13.30 INV23 **How to identify new therapeutic targets in SpA?**
Joachim Sieper, Berlin, Germany

14.00 INV24 **Novel imaging modalities in SpA**
Iris Eshed, Tel Hashomer, Israel

Poster Session 1

Poster Session 1 is scheduled during the coffee break of 10.15 – 11.15 hrs on Friday, October 24. The presenters of posters SO1–SO5 and P1 through P57 are requested to be present at their posters.

P1 **Incidence and predictors of morphometric vertebral fractures in patients with ankylosing spondylitis**
Kang K.Y., Kim I.J. (South Korea)

P2 **The predictors of development of new syndesmophytes in female patients with ankylosing spondylitis**
Kang K.Y., Lim M.J. (South Korea)

P3 **Positive correlation of uric acid and bone mineral density in ankylosing spondylitis**
Kang K.Y., Kim H.A., Ju J.H. (South Korea)

P4 **Evaluation of extreme enthesitis and/or patient-related outcome score as potential surrogates for fibromyalgia and AS potential confounding factors of anti-TNF response**
Dougados M., Jones H., Szumski A., Logeart I., Coindreau J. (France & USA)

P5 **Quality of life with etanercept in early non-radiographic axial spondyloarthritis**
Sieper J., Drescher E., Rosa J., Pedersen R., Bonin R., Vlahos B., Bukowski J.F., Kotak S. (Germany, Hungary, Czech Republic & USA)

P6 **Sirt-1 activity in PBMC from patients with spondyloarthritis - Preliminary result**
Wendling D., Delattre E., Abbas W., Guillot X., Godfrin-Valnet M., Khan K.A., Toussirot E., Baud L., Prati C., Herbein G. (France)

P7 **Comparison of the different pain assessment scales used in adult patients seen at the Philippine general hospital rheumatology out-patient department**
Limgenco-Hipe J.R., Magbitang A.T., Salido E.O. (Philippines)

P8 **Quality of life of patients with psoriatic arthritis mutilans - The Nordic PAM study**
Lindqvist U., Gudbjornsson B., Iversen L., Paimela L., Laasonen L., Ejstrup L., Ternowitz T., Ståhle M. (Sweden, Iceland, Denmark, Finland & Norway)

P9 **Sleep quality in patients with psoriatic arthritis**
Gezer O., Batmaz İ., Sariyildiz M.A., Sula B., Ucmak D., Bozkurt M., Nas K. (Turkey)

P10 **Survey on recognition and management of inflammatory back pain and spondyloarthritis, and their problems among Thai physicians**
Tangrungruengkit M., Chiowchanwisawakit P. (Thailand)

P11 **A psychometric analysis of outcome measures in trials of peripheral spondyloarthritis**
Turina M., Ramiro S., Baeten D., Mease P., Paramarta J., Song I.H., Pangan A., Landewé R. (The Netherlands, USA & Germany)

P12 **Chronic Back Pain (CBP) characteristics associated with the presence of sacroiliitis on Magnetic Resonance Imaging (MRI) in patients with suspected axial spondyloarthritis (axSpA): Results from the EsPeranza cohort**
Navarro-Compán V., Almodóvar R., Hernández A., Beltrán E., de Miguel E., Zarco P., on behalf of EsPeranza Group (Spain)

P13 **Dikkopf-1 (DKK-1) serum levels in axial spndyloarthritis (AXSPA) are related to disease duration**
Navarro-Compán V., Melguizo-Madrid E., González-Rodríguez C., Navarro-Sarabia F., Ariza-Ariza R. (Spain)

P14 **Axial Disease In Psoriatic Arthritis (ADIPSA) study: Prevalence and characteristics of inflammatory axial disease in psoriatic arthritis**
Jadon D.R., Sengupta R., Nightingale A., Korendowych E., Lindsay M., McHugh N.J. (UK)

P15 **Evaluation of the nonsteroidal anti-inflammatory drug-sparing effect of etanercept in axial spondyloarthritis: Results of the multicenter, randomized, double-blind, placebo-controlled SPARSE trial**
Dougados M., Wood E., Combe B., Miceli-Richard C., Berenbaum F., Koppiker N., Dubanchet A., Logeart I. (France & UK)

P16 **Change over time in the profile of ankylosing spondylitis patients treated with infliximab in Canadian routine care**
Choquette D., Starr M., Khraishi M., Bensen W.G., Shaikh S., Rodrigues J., Sholter D., Sheriff M., Vaillancourt J., Sampalis J.S., Lehman A.J., Otawa S., Nantel F., Shawi M. (Canada)

P17 **Assessing treatment durability of infliximab in the management of psoriatic arthritis patients in a Canadian setting**
Kelsall J., Jovaisas A., Rahman P., Sholter D., Starr M., Bensen W., Sheriff M., Olszynski W., Zummer M., Faraawi R., Chow A., Kapur S., Rampakakis E., Sampalis J.S., Nantel F., Otawa S., Shawi M., Lehman A.J. (Canada)

P18 **How should we calculate the ASDAS if the conventional C-reactive protein is below the limit of detection? An analysis in the DESIR cohort**
Machado P., Navarro-Compán V., Landewé R., van Gaalen F.A., van der Heijde D. (The Netherlands, Portugal & Spain)

P19 **Do not underestimate problems in work participation in recently diagnosed spondyloarthritis patients**
Van der Weijden M.A.C., Boonen A., Van der Horst-Bruinsma I.E. (The Netherlands)

P20 **Comparison of the two subtypes of axial spondyloarthritis patients fulfilling the imaging arm based on radiographic and MRI findings**
Solmaz D., Cetin P., Sari I., Birlik M., Onen F., Akkoç N. (Turkey)

P21 **Which Chronic Back Pain (CBP) characteristics are associated with a positive HLA-B27 in patients with suspected axial spondyloarthritis (AXSPA)? Results from the EsPeranza cohort**
Navarro-Compán V., Aznar J.J., Linares L.F., Collantes-Estevez E., Zarco P., on behalf of EsPeranza Group (Spain)

P22 **Prevalence of self-reported depression in patients with axial spondyloarthritis**
Meirinhos T., Aguiar R., Ambrósio C., Barcelos A. (Portugal)

P23 **Utility of enthesitis assessments in peripheral spondyloarthritis – Data from the ABILITY-2 trial**
Mease P., Van den Bosch F., Baeten D., Sieper J., Song I.H., Karunaratne P., Pangan A. (USA, Belgium, The Netherlands & Germany)

P24 **High disease activity in axial spondyloarthritis patients reduces work productivity**
van Hoeven L., Boonen A., Hazes J.M.W., Weel A.E.A.M. (The Netherlands)

P25 **What is the optimal strategy to refer possible axial spondyloarthritis patients from primary care to the rheumatologist?**
van Hoeven L., Vergouwe Y., Hazes J.M.W., Weel A.E.A.M. (The Netherlands)

P26 **Three-year course and prediction of physical functioning and spinal mobility in ankylosing spondylitis patients treated with TNF-inhibitors**
van Weely S.F.E., Kneepkens E.L., Nurmohamed M.T., Dekker J., van der Horst-Bruinsma I.E. (The Netherlands)

P27 **RAPID3 in 90 Korean patients with ankylosing spondylitis yields similar information to BASDAI and ASDAS, with greater feasibility for busy clinical settings**
Choe J.Y., Kim S.K., Lee H. (Korea)

P28 **Work productivity in employed patients with ankylosing spondylitis treated with etanercept**
Boonen A., Boone C., Boon T., Albert A., Mielants H. (The Netherlands & Belgium)

P29 **Long-term safety and efficacy of certolizumab pegol in patients with axial spondyloarthritis: 96-week outcomes of the RAPID-AXSPA trial**
Sieper J., Rudwaleit M., van der Heijde D., Maksymowych W.P., Dougados M., Mease P.J., Reveille J., Braun J., Deodhar A., Arledge T., Nurminen T., Landewé R. (Germany, The Netherlands, Canada, France & USA)

P30 **Disease activity and clinical response early in the course of treatment predicts long-term outcomes in axial spondyloarthritis and psoriatic arthritis patients treated with certolizumab pegol**
van der Heijde D., Deodhar A., Fleischmann R., Rudwaleit M., Davies O., Nurminen T., Mease P.J. (The Netherlands, USA, Germany & UK)

P31 **Long-term safety and efficacy of certolizumab pegol in patients with psoriatic arthritis with and without prior anti-tumor necrosis factor exposure: 96-week outcomes of the RAPID-PsA trial**
Mease P.J., Fleischmann R., Wollenhaupt J., Deodhar A., Gladman D., Arledge T., Peterson L., van der Heijde D. (USA, Germany, Canada & The Netherlands)

P32 **Observed incidence rates of uveitis following certolizumab pegol treatment in patients with axial spondyloarthritis**
Rudwaleit M., Landewé R., Marzo-Ortega H., Sieper J., van der Heijde D., Rosenbaum J., Davies O., Stach C., Nurminen T., Deodhar A. (Germany, The Netherlands, UK & USA)

P33 **Impact of repeating imaging of the sacro-iliac joints over one year on the classification according the ASAS axial SpA criteria of patients**
Bakker P.A.C., de Hooge M.S.M., van den Berg R., van Gaalen F.A., Reijnierse M., Huizinga T., van der Heijde D.M.F.M. (The Netherlands)

P34 **C-reactive protein as a predictor of treatment response in patients with ankylosing spondylitis**
Baraliakos X., Szumski A., Koenig A., Jones H. (Germany & USA)

P35 **Aortic regurgitation is common in ankylosing spondylitis and justifies routine echocardiographic screening**
Klingberg E., Grüner-Sveälv B., Scharin-Täng M., Bech-Hanssen O., Bergfeldt L., Forsblad-d'Elia H. (Sweden)

P36 **Comparison of the risk of developing adverse events between PsA and AS: Results from the LORHEN registry**
Atzeni F., Ricci C., Caporali R., Marchesoni A., Bongiovanni S., Favalli E., Gorla R., Pellerito R., Filippini M., Todoerti M., Paolazzi G., Bortolotti R., Fusaro E., Sarzi-Puttini P., on behalf of LORHEN Registry (Italy & Germany)

P37 **Validity of ASDAS and BASDAI as a measure of disease activity in axial psoriatic arthritis**
Kilic G., Kilic E., Nas K., Karkucak M., Capkin E., Dagli A.Z., Cevik R., Ozgocmen S. (Turkey)

P38 **Validity of the ankylosing spondylitis disease activity score (ASDAS) in patients with axial spondyloarthritis**
Kilic G., Kilic E., Akgul O., Ozgocmen S. (Turkey)

P39 **Attitude of doctor and patient to ankylosing spondylitis: Questions of understanding**
Myasoutova L., Lapshina S. (Russia)

P40 **Axial ankylosing spondylitis and radiological not: The same syndrome or different diseases? Analysis of 'EsPeranza' cohort**
Hernández-Sanz A., Navarro-Compán V., Fernández-Carballido C., Montilla-Morales C., Mulero-Mendoza J., de Miguel E., on behalf of EsPeranza Group (Spain)

P41 **Is 25mg etanercept effective in maintaining a clinical response in patients with ankylosing spondylitis who have responded to 50mg once weekly: A multicentre randomised controlled trial**
Elender F., Hamilton L., Yates M., Dean L., Doll H., Thomas H., Gaffney K. (UK)

P42 **Efficacy and safety of Kunxian capsule for treatment of spondyloarthropathy (SpA) and ankylosing spondylitis (AS): Results of a multi-center randomized placebo-controlled trial**
Li Q., Li L., He D., Bi L., Lin Z., Cao S., Liu H., Liao Z., Xiao C., Wang G., Zhou H., Wu H., Gu J. (China)

P43 **A retrospective study on clinical features of IgA nephropathy in ankylosing spondylitis**
Qi J., Lv Q., Gu J. (China)

P44 **TGP may intervene as immune function, maintaining clinical remission on ankylosing spondylitis patients**
Li Q., Li W., Cao S., Gu J. (China)

P45 **Measurement of lateral spinal flexion and Schober is sufficient to be informed about spinal mobility in patients with ankylosing spondylitis: 12-year OASIS results**
Ramiro S., Landewé R., van der Heijde D., Stolwijk C., Dougados M., van den Bosch F., van Tubergen A. (The Netherlands, France & Belgium)

P46 **Spinal mobility gets impaired in a fixed order in patients with ankylosing spondylitis: 12-year OASIS results**
Ramiro S., Landewé R., van der Heijde D., Stolwijk C., Dougados M., van den Bosch F., van Tubergen A. (The Netherlands, France & Belgium)

P47 **A physically demanding job may amplify the effect of disease activity on radiographic progression in patients with AS**
Ramiro S., van Tubergen A., Landewé R., Boonen A., Stolwijk C., Dougados M., van den Bosch F., van der Heijde D. (The Netherlands, France & Belgium)

P48 **Initial presentation and clinical course between late-onset ankylosing spondylitis and adult-onset AS**
Lee S.H., Song R., Lee Y.A., Choi J.Y., Yang H.I., Hong S.J. (South Korea)

P49 **Preliminary study of peripheral blood disorders of active ankylosing spondylitis - A retrospective study**
Lv Q., Gu J. (China)

P50 **How to improve early diagnosis of axial spondyloarthritis (according to rheumatologic city center, Kazan, Russia)**
Myasoutova L., Lapshina S. (Russia)

P51 **Evaluation of the two-step referral strategy for axial spondyloarthritis in the spondyloarthritis caught early cohort**
Abawi O., van den Berg R., van der Heijde D., de Hooge M., Bakker P., Huizinga T. van Gaalen F. (The Netherlands)

P52 **Impact of uveitis on characteristics of patients with ankylosing spondylitis**
Zepa J., Bulina I., Lavrentjevs V., Zepa L., Priedite I., Nikitina-Zake L., Lejnieks A., Andersone D. (Latvia)

P53 **Evaluation of referral models for axial spondyloarthritis in primary care in the spondyloarthritis caught early cohort**
Abawi O., van den Berg R., van der Heijde D., van Gaalen F. (The Netherlands)

P54 **Validation of touch-screen questionnaires in spondyloarthropathies**
Cunha-Miranda L., Santos H., Miguel C., Barcelos F., Silva C., Fernandes S., Borges J., Trinca R., Vicente V., Aguiar P. (Portugal)

P55 **Spondyloarthritis with and without concomittant psoriasis**
Hansen I.M., Bakland G., Førre Ø. (Norway)

P56 **52-week response to brodalumab, an anti-IL-17R antibody, in subjects with psoriatic arthritis**
Mease P.J., Genovese M.C., Greenwald M.W., Ritchlin C.T., Beaulieu A., Deodhar A., Newmark R., Feng J.Y., Erondu N., Nirula A. (USA & Canada)

P57 **Sleep and quality of life in psoriatic arthritis**
Arancibia L.A., Gonçalves C.R., Sampaio P.B., Goldenstein-Schainberg C. (Brazil)

Poster Session 2

Poster Session 2 is scheduled during the coffee break of 15.15 – 16.15 hrs on Friday, October 24. The presenters of posters P58 through P120 are requested to be present at their posters.

P58 **High prevalence of undiagnosed axial SpA in patients below 45 years of age with chronic back pain visiting physiotherapists, orthopedics and ophthalmologists**
Gangji V., Tant L., Delmotte N., Van den Enden M., Mielants H. (Belgium)

P59 **Defining flare in spondyloarthritis: Thresholds of disease activity variations**
Godfrin-Valnet M., Puyraveau M., Wendling D. (France)

P60 **Juvenile spondyloarthritis (JSpA) in a cohort of Brazilian patients**
Perez M.O., Aikawa N.E., Carrasco S., Sampaio-Barros P.D., Gonçalves C.R., Saad C.G.S., Moraes J.C.B., Goldenstein-Schainberg C. (Brazil)

P61 **Mortality and cardiovascular comorbidity in psoriatic arthritis**
Juneblad K., Alenius G.M. (Sweden)

P62 **Patients with nr-axSPA show a statistically higher disease burden in clinical practice compared with patients with radiographic axial SpA**
Jacobsson L.T., Husmark T., Theander E., Henriksson K., Büsch K., Johansson M. (Sweden)

P63 **Work participation in patients with axial spondyloarthritis and chronic low back pain - CaFaSpA 2 study**
van Hoeven L., Boonen A., Hazes J.M.W., Weel A.E.A.M. (The Netherlands)

P64 **Do extra-articular manifestations influence outcome in ankylosing spondylitis? 12 year results from OASIS**
Essers I., Ramiro S., Stolwijk C., Landewé R., van der Heijde D., Van den Bosch F., Dougados M., van Tubergen A. (The Netherlands, Portugal, Belgium & France)

P65 **Ankylosing spondylitis and risk of ischemic heart disease: A population-based cohort study**
Essers I., Stolwijk C., Boonen A., De Bruin M.L., Bazelier M.T., de Vries F., van Tubergen A. (The Netherlands & UK)

P66 **Patients with AS do not adapt to their disease: Evidence from the 'then-test' in patients treated with TNF-inhibitors**
Essers I., van Tubergen A., Heldmann F., Baraliakos X., Braun J., Boonen A. (The Netherlands & Germany)

P67 **Disease activity strongly influences work productivity and physical health related quality of life in early axial spondyloarthritis: Data from the SPACE-cohort**
Roeterink A., De Hooge M., Van de Vijver J., Van den Berg R., Dagfinrud H., Landewé R.,Van Oosterhout M., Ramonda R., Huizinga T., Van der Heijde D., Van Gaalen F.A. (The Netherlands, Norway & Italy)

P68 **Substantial decrease in work productivity and physical health-related quality of life in chronic back pain of recent onset: Data from the SPACE-cohort**
Roeterink A., De Hooge M., Van de Vijver J., Van den Berg R., Dagfinrud H., Turina M., Van Oosterhout M., Ramonda R., Huizinga T., Van der Heijde D., Van Gaalen F.A. (The Netherlands, Norway & Italy)

P69 **Renal disease in a cohort of axial spondyloarthritis**
Meirinhos T., Aguiar R., Ambrósio C., Barcelos A. (Portugal)

P70 **Clinical performance of spondyloarthritis criteria in patients aged over 45 years: Which of them should be applied for diagnosis in late-onset ankylosing spondylitis?**
Bendahan L.T., Mendes J.G., Klemz B.N.C., Gomes C.M.F., Oliveira T.L., Pinheiro M.M. (Brazil)

P71 **Male and female patients with axial spondyloarthritis experience disease activity differently: Results from the GLAS cohort**
Arends S., Maas F., van der Veer E., Bos R., Efde M., Leijsma M.K., Bootsma H., Brouwer E., Spoorenberg A. (The Netherlands)

P72 **Disease activity is the major determinant of quality of life and physical function in patients with early axial spondylarthritis: Results from the ESPERANZA cohort**
Fernández-Carballido C., Navarro-Compán V., Moreno M., Juanola X., Mulero J., de Miguel E., on behalf of the ESPERANZA Study Group (Spain)

P73 **The impact of ankylosing spondylitis on work impairment – Results from the Scotland Registry for Ankylosing Spondylitis (SIRAS)**
Jones G.T., Dean L.E., Macfarlane G.J., on behalf of SIRAS (UK)

P74 **Enthesitis - Prevalence and association with clinical variable in axial spondyloarthritis**
Hax V., Moro A.L.D., Kohem C.L., Jost D., Wroblewski J., Guerra B., Xavier R.M., Mancuso A.C.B., Evaldt C.A., Copetti A.P., Prates D., Palominos P.E. (Brazil)

P75 **Delay to diagnosis in axial SpA: No improvement in the UK**
Sykes, M.P., Doll H., Sengupta R., Gaffney K. (UK)

P76 **Unraveling the familial tendency for ankylosing spondylitis in Korea**
Kim H.W., Choe H.R., Chang W.I., Kim Y.G., Yoo B., Hur J.W., Kim T.H., Lee S., Lee E.Y. (Korea)

P77 **Evaluation of a triage system for patients with low back pain**
Smet J., Parijs R., Vanheste R., D'Haese K., Van Boxstael A., Vander Cruyssen B., Ravelingien I., Stubbe M. (Belgium)

P78 **Remission in SpA: Only ASDAS or also a BASDAI scoring?**
Nowik M., Simone D., Ferraccioli G.F., Gremese E. (Italy)

P79 **Genetic and clinical predictors of response to TNF-blocker in an Italian axial-SpA cohort**
Simone D., Canestri S., Nowik M., Messuti L., Miceli MC., Gremese E., Di Mario C., Tolusso B., Ferraccioli G. (Italy)

P80 **Validity of ankylosing spondylitis and spondyloarthritis diagnoses in the Swedish national patient register**
Exarchou S., Lindström U., Sigurdardottir V., Sundström B., Askling J., Eriksson J.K., Forsblad d'Elia H., Turesson C., Kristensen L.E., Jacobsson L. (Sweden)

P81 **Comparison of HLA B27 typing by flow cytometry and polymerase chain reaction assay in patients with ankylosing spondylitis**
Angeli R.S., Duarte M.P., Palominos P.E., Zeni M., Mancuso A.C.B., Motta H.B., Rojas B., Gomes S.B., Casagrande L., Sgnaolin V., Xavier R.M., Schneider P.G., Kohem C.L. (Brazil)

P82 **The ratio of patients who were diagnosed with ankylosing spondylitis by sacroiliac joint MRI**
Seo Y.H., Choi S.J. (Korea)

P83 **Disease severity as measured by proms or need for second line treatment in inflammatory bowel disease associated arthropathy: Comparison to other spondyloarthritis subgroups**
Drivelegka P., Papachrysos N., Petersson I.F., Bremander A., Jacobsson L.T.H. (Sweden)

P84 **The importance of targeting education strategies for complementary therapists dealing with potential axial spondyloarthritis patients**
Sengupta R., Cook D., Gaffney K. (UK)

P85 **Patients with spondyloarthritis have high cardiovascular and cerebrovascular mortality: Ontario spondyloarthritis (OnSpA) study**
Haroon N., Haroon N.N., Li P., Paterson M., Inman R.D. (Canada)

P86 **Baseline characteristics in early spondyloarthritis: The BeGIANT cohort**
Varkas G., Cypers H., Van Praet L., Carron P., Gyselbrecht L., Corluy L., De Bock W., Raeman F., Vanneuville B., Devinck M., Peene I, Elewaut D, Van den Bosch F. (Belgium)

P87 **Persistently high disease activity according to the ASDAS is associated with accelerated radiographic spinal progression in patients with early axial spondyloarthritis**
Poddubnyy D., Haibel H., Braun J., Rudwaleit M., Sieper J. (Germany)

P88 **Reaching a status of low disease activity spontaneously over two year follow-up in active patients with non-radiographic axial spondyloarthritis in comparison to ankylosing spondylitis not treated with TNF blockers**
Poddubnyy D., Haibel H., Braun J., Rudwaleit M., Sieper J. (Germany)

P89 **Functional relevance of the IL-23 receptor gene polymorphism rs10889677 in ankylosing spondylitis**
Hermann J., Fessler J., Stradner M., Angerer H., I. Holzer, Graninger W. (Austria)

P90 **ERAP deficiency leads to reduced B27/NP383-391 immunodominant flu epitope response in influenza infected triple HLA transgenic mice**
Akram A., Inman R.D. (Canada)

P91 **The association of PPM1A with inflammasome activation in ankylosing spondylitis**
Kim Y.G., Hong S., Chang E.J., Lee C.K, Yoo B. (South Korea)

P92 **Decreased TH9 and imbalance of TH9 and TH17 in spondyloarthropathy**
Ryu H.J., Lee M.K., Seo M.R., Choi H.J., Baek H.J. (South Korea)

P93 **Psoriatic arthritis: Clinical and serological comparison between early and late onset**
Delle Sedie A., Lodato C., Cioffi E., Sardano E., Bombardieri S., Riente L. (Italy)

P94 **Prevalence of peri-articular manifestations (enthesitis and dactylitis) and disease activity in psoriatic arthritis patients: Impact of treatment with TNF inhibitors in a real-world Canadian population**
Rahman P., Choquette D., Bensen W.G., Khraishi M., Fortin I., Chow A., Sheriff M.K., Vaillancourt J., Sampalis J.S., Nantel F., Otawa S., Lehman A.J., Shawi M. (Canada)

P95 **Is skin disease more important to patients or physicians in the assessment of disease activity in psoriatic arthritis?**
Sholter D., Rahman P., Avina-Zubieta J.A., Kelsall J., Arendse R., Khraishi M., Shaikh S., Bensen W.G., Rampakakis E., Sampalis J.S., Nantel F., Shawi M., Otawa S., Lehman A.J. (Canada)

P96 **Absence of ERAP partially rescues the flu-specific Vß8.1^{+} CTL which are normally deleted in B7/B27 coexpressing HLA transgenic mice**
Akram A., Inman R.D. (Canada)

P97 **Translation and cross-cultural adaptation of the ASAS health index and the environmental item set into 15 languages**
Kiltz U., van der Heijde D., Boonen A., Bautista W., Burgos-Vargas R., Chiowchanwisawakit P., Duruoz T., El-Zorkany B., Essers I., Gaydukova I., Géher P., Gossec L., Grazio S., Gu J., Khan A., Kim T.J., Maksymowych W., Marzo-Ortega H., Navarro V., Olivieri I., Patrikos D., Pimentel dos Santos F.M., Van den Bosch F., Zochling J., Braun J. (Germany, The Netherlands, Colombia, Mexico, Thailand, Turkey, Egypt, Russia, Hungary, France, Croatia, People's Republic of China, USA, South Korea, Canada, UK, Spain, Italy, Greece, Portugal, Belgium & Australia)

P98 **Short term efficacy of tumor necrosis factor inhibitors in patients with non-radiographic axial spondylarthritis and ankylosing spondylitis**
Cetin P., Kalyoncu U., Sari I., Karadağ O., Kiliç L., Kiraz S., Onen F., Ertenli I., Akkoç N. (Turkey)

P99 **Ankylosing spondylitis patients have an increased proportion of CD16^{+} mononuclear cells able to induce CCR6 on CD4^{+} T cells**
Wright P.B., Utriainen L., McEntegart A., McCarey D., McInnes I.B., Siebert S., Milling S.W.F. (UK)

P100 **The immunological basis of the sex-bias in ankylosing spondylitis: TH17 expansion is restricted to male patients and correlates with sex-related alteration in vitamin d metabolism**
Gracey E., Green B., Yip P., Ayearst R., Anton A., Lin A., Inman R.D. (Canada)

P101 **Elevated serum level of CD14 in ankylosing spondylitis patients**
Li Q., Lv Q., Chen X., Gu J. (China)

P102 **Influence of HLA-B27 and spondyloarthritis (SPA) on the distribution of circulating TH1, TH-17 and Treg cells**
Bouiller I., Leboime A., Said-Nahal R., Chiocchia G., Araujo L.M., Breban M. (France)

P103 **Bromodomain inhibitors reduce TH17-type responses in spondyloarthritis in vitro**
Hammitzsch A., de Wit J., Ridley A., Al-Mossawi M.H., Knapp S., Bowness P. (UK)

P104 **Pattern recognition receptor induced cytokine production in macrophages from patients with spondyloarthritis**
Liu Y.P., Eickhoff J., Bomkamp A.J., Khan M., Smith J.A. (USA)

P105 **Suppression of in-vitro TYPE-17 responses in SpA patients using small molecule ROR-γT inhibitors**
De Wit J., Al-Mossawi M.H., Huhn M., Arancibia C.V., Powrie, F., Bowness P. (UK)

P106 **Identification and phenotyping of innate lymphoid cells present in the diseased joints of patients with spondyloarthritis, rheumatoid arthritis and psoriatic arthritis**
Al-Mossawi M.H., Manou-Stathopoulou S., De Wit J., Kendrick B., Gundle R., Bowness P. (UK)

P107 **After surgery with prosthesis the infection rates in patients with ankylosing spondylitis treated by TNF alpha blockade compared to conventional NSAIDs**
Lee S.H., Hong S.J., Chung S.W. (Korea)

P108 **Fat metaplasia is a key intermediary in the development of sacroiliac joint ankylosis following repair of erosions in patients with spondyloarthritis**
Maksymowych W.P., Wichuk S., Chiowchanwisawakit P., Lambert R.G., Pedersen S.J. (Canada, Thailand & Denmark)

P109 **Comorbidities in psoriatic arthritis: Comparison with rheumatoid arthritis and psoriasis**
Nas K., Karkucak M., Durmus B., Karatay S., Capkin E., Kaya A., Ucmak D., Akar Z.A., Cevik R., Ozgocmen S. (Turkey)

P110 **IL-6 maybe a crucial role in peripheral arthritis of ankylosing spondylitis by toll-like receptor 2 and 4**
Lee S.Y. (South Korea)

P111 **Ankylosing spondylitis associated ERAP1 variants trigger the unfolded protein response**
Zhang Z., Haroon N. (Canada)

P112 **CD74 as an autoantigen in spondyloarthritis**
Witte T., Wintering O., Kniesch K., Klose K., Baerlecken N. (Germany)

P113 **The killer cell immunoglobulin-like receptor KIR3DL2 binding to HLA-B27 licences pathogenic T cell differentiation in ankylosing spondylitis**
Ridley A., Hatano H., Wong-Baeza I., Shaw J., Wynn K., Al-Mossawi H., Ladell K., Price D., Bowness P., Kollnberger S. (UK)

P114 **Clinical management in ankylosing spondylitis remission**
Myasoutova L., Lapshina S. (Russia)

P115 **A molecular basis for the killer cell immunoglobulin-like receptor KIR3DL2 binding to HLA-B27 free heavy chain dimers**
Hatano H., Shaw J., Marquardt K., Zhang Z., Gauthier L., Chanteux S., Rossi B., Li D., Mitchell J., Kollnberger S. (UK)

P116 **Functional implications of the endoplasmic reticulum aminopeptidase 2 (ERAP2) association with ankylosing spondylitis and Crohn's disease: Impact on the unfolded protein response**
Zhang Z., Ciccia F., Yee K., Guggino G., Abdullah H., Inman R.D., Alessandro R., Raimondo S., Triolo G., Haroon N. (Canada)

P117 **Histologic and immunologic characterization of inflamed gut and sacro-iliac joints of patients with non-radiographic axial spondyloarthritis**
Ciccia F., Rizzo A., Guggino G., Alessandro R., Triolo G. (Italy)

P118 **What have we learned about non-classical forms of HLA-B27 and its role in the pathogenesis of spondyloarthropathies?**
Rysnik O.J., McHugh K., Bowness P., van Tok M., van Duivenvoorde L.M., Baeten D. (UK & The Netherlands)

P119 **Human mast cells engulf and store exogenous IL-17A**
Noordenbos T., Paramarta J.E., Blijdorp I.C., van Mens L.J., Stap J., Hoebe R., Mul E., Yeremenko N.G., Baeten D.L. (The Netherlands)

P120 **Calprotectin (S100A8/9) as serum biomarker for clinical response in proof-of-concept trials in axial and peripheral spondyloarthritis**
Turina M.C., Yeremenko N., Paramarta J.E., De Rycke L., Baeten D.B. (The Netherlands)

Poster Session 3

Poster Session 3 is scheduled during the coffee break of 10.15 – 11.15 hrs on Saturday, October 25. The presenters of posters P121 through P182 are requested to be present at their posters.

P121 **Increased production of interleukin-17 over interleukin-10 by regulatory T cells implicates ICOS molecule in experimental spondyloarthritis**
Araujo L.M., Fert I., Jouhault Q., Labroquère K., Andrieu M., Chiocchia G., Breban M. (France)

P122 **Low-dose of IL-2 fails to prevent spondyloarthritis development in experimental model**
Araujo L.M., Jouhault Q., Fert I., Bouiller I., Chiocchia G., Lebouteiller C., Breban M. (France)

P123 **Innate immune stimulation triggers altered IL-1A/B gene expression and experimental spondyloarthritis in HLA-B27/huß2m transgenic rats**
Van Tok M.N., van Duivenvoorde L.M., Satumtira N., Dorris M., Taurog J.D., Baeten D.L. (The Netherlands & USA)

P124 **Inflammatory bowel disease associated arthropathy: Characteristics of the disease and validity of diagnoses based on ICD-coding in Sweden**
Drivelegka P., Papachrysos N., Petersson I.F., Bremander A., Jacobsson L.T.H. (Sweden)

P125 **Etanercept increases bone mineral density in ankylosing spondylitis, but does not prevent vertebral fractures**
Van der Weijden M.A.C, Van Denderen J.C., Lems W.F., Nurmohamed M.T., Dijkmans B.A.C, Van der Horst-Bruinsma I.E. (The Netherlands)

P126 **Induced pluripotent stem cells as a tool for evaluating disease-mediating cell types in spondyloarthritis**
Layh-Schmitt G., Lu S., Navid F., Gadina M., Colbert R. (USA)

P127 **HLA-B27 prevalence in a cohort of Brazilian patients with psoriatic arthritis and ankylosing spondylitis**
Goldenstein-Schainberg C., Carrasco S., Saad C.G., Moraes J.C.B, Gonçalves C.R., Sampaio-BarrosP., Parra E.R. (Brazil)

P128 **The amount of free heavy chain and ß2m in the cytoplasm of B*2705 ankylosing spondylitis patients (AS) compared to B*2705 and B*2709 healthy subjects does not support the UPR theory - Influence of ERAP1 polymorphisms**
Cauli A., Dessole G., Porru G., Cassotta A., Piga M., Vacca A., Ibba V., Fiorillo M.T., Sorrentino R., Mathieu A. (Italy)

P129 **ANTXR2 might be a susceptibility gene of ankylosing spondylitis in Chinese Han**
Li Q., Lv Q., Wu X., Zhang P., Li X., Zheng X., Gu J. (China)

P130 **SpA-associated polymorphisms of ERAP1 are correlated with gene expression and enzymatic activity of the amino-peptidase**
Costantino F., Talpin A., Evnouchidou I., Kadi A., Said-Nahal R., Leboime A., Bonilla N., Letourneur F., Leturcq T., Ka Z., van Endert P., Garchon H.J., Chiocchia G., Breban M. (France)

P131 **Ankylosing spondylitis-associated SNPS at the IL23R-IL12RB2 intergenic region are functionally important**
Roberts A.R., Cohen C.J., Vecellio M., Bowness P., Wordsworth B.P. (UK)

P132 **From SNPs to function: Transcriptional regulation of RUNX3 in ankylosing spondylitis**
Vecellio M.L., Roberts A.R., Cohen C., Bowness P., Wordsworth B.P. (UK)

P133 **Multiway transcriptomic analysis of monocyte-derived dendritic cells (MD-DCs) discriminates effects of disease and of HLA-B27 in spondyloarthritis (SpA)**
Chaplais E., Talpin A., Costantino F., Desjardin C., Bonilla N., Leboime A., Said-Nahal R., Letourneur F., Jacques S., Chiocchia G., Breban M., Garchon H.J. (France)

P134 **ANTXR2 is associated with ankylosing spondylitis**
Karaderi T., Keidel S., Appleton L.H., Evans D.M., Wordsworth B.P. (UK & Australia)

P135 **Investigation of mode of inheritance in the Chinese Han families with ankylosing spondylitis**
Jiang Y., Lv Q., Li Q., Zhai J., Lin Z., Liao Z., Zhang Y., Yang M., Xu Y., Gu J. (China)

P136 **Association of EDIL3 gene polymorphisms with ankylosing spondylitis in Chinese Han**
Wu X., Lv Q., Zhang P., Zhang Y., Yang M., Lin Z., Liao Z., Zheng X., Gu J. (China)

P137 **BACH2 might be a susceptibility gene of ankylosing spondylitis in Chinese Han**
Lv Q., Li Q., Wu X., Zhang P., Zheng X., Li X., Gu J. (China)

P138 **SNPS analysis of the HAPLN1 genes on ankylosing spondylitis patients and healthy subjects**
Li Q., Wu X., Lv Q., Huang Z., Li H., Zhang Y., Lin Z., Liao Z., Yang M., Zhang P., Zheng X., Gu J. (China)

P139 **SNPs of FCGR2A genes in ankylosing spondylitis patients and healthy subjects**
Zhang P., Li Q., Lv Q., Wu X., Gu J. (China)

P140 **RNA sequencing in ankylosing spondylitis identifies a novel disease-specific transcriptome and splice variants**
Haynes K.H., Cuddihy T., Le Cao K., Bradbury L., Brown M.A., Thomas G.P. (Australia)

P141 **Epigenetic study of advanced ankylosis in patients with ankylosing spondylitis**
O'Rielly D.D., Zhang Y., Al-Ghanim N., Ardern R., Hamilton S., Zhai G., Rahman P. (Canada)

P142 **Ultra sonographic evaluation of the anterior chest wall in spondyloarthritis: A prospective study**
Verhoeven F., Guillot X., Godfrin-Valnet M., Prati C., Wendling D. (France)

P143 **Ultrasonographic evaluation of femoral cartilage thickness in patients with psoriatic arthritis**
Batmaz I., Sariyildiz M.A., Can I., Karkucak M., Serdar Ö.F., Yazmalar L., Çapkin E., Nas K. (Turkey)

P144 **Association between spondyloarthritis features and MRI findings in patients with persistent low back pain**
Arnbak B., Jurik A.G., Hørslev-Petersen K., Hendricks O., Hermansen L.T., Loft A.G., Østergaard M., Pedersen S.J., Zejden A., Egund N., Holst R., Manniche C., Jensen T.S. (Denmark)

P145 **Evaluating hip joints and entheses with power Doppler ultrasound in patients with ankylosing spondylitis before and after 6 months of TNF-α blocking therapy in daily clinical practice**
Wink F.R., Bruijn G.A.W., van der Veer E., Bootsma H., Brouwer E., Arends S., Spoorenberg A. (The Netherlands)

P146 **Clinical and imaging differences between familial and sporadic early axial spondyloarthritis: ESPERANZA cohort**
Almodóvar R., Zarco P., Brito E., Rosas J., Muñoz-Fernández S., Navarro-Compán V. and ESPERANZA GROUP (Spain)

P147 **The Swedish early psoriatic arthritis (SWePsA) registry 5-year follow-up: Slow radiographic progression with highest scores in male feet and patients with baseline X-ray abnormalities**
Theander E., Husmark T., Lindqvist U., Larsson P.T., Teleman A., Alenius G.M., Geijer M. (Sweden)

P148 **The distribution of inflammation in the anterior and posterior spinal structures in active AS and the effect of TNFα-blockade**
Baraliakos X., Hermann K.G., Xu S., Hsu B., Braun J. (Germany & USA)

P149 **Spinal mobility in the cervical and the lumbar spine correlates with MRI findings in AS – Results from GO-RAISE**
Baraliakos X., Hermann K.G., Xu S., Hsu B., Braun J. (Germany & USA)

P150 **Treatment effect of ustekinumab on fatigue in patients with psoriatic arthritis: Results from PSUMMIT 2**
Ritchlin C., Rahman P., Puig L., Gottlieb A.B., Kavanaugh A., McInnes I.B., Li S., Wang Y., Ganguly R., Mendelsohn A.M., Han C., on behalf of the PSUMMIT 2 Study Group (USA, Canada, Spain & Scotland)

P151 **VEGF and CRP serum levels lack predictive value for radiographic and MRI outcomes in patients with active AS treated with the TNF-inhibitor golimumab**
Baraliakos X., Hermann K.G., Xu S., Hsu B., Braun J. (Germany & USA)

P152 **Serum biomarkers associated with changes in ASDAS and MRI following treatment of AS with golimumab**
Inman R.D., Baraliakos X., Hermann K.G., Braun J., Deodhar A., van der Heijde D.F.M., Xu S., Hsu B. (Canada, Germany, USA & The Netherlands)

P153 **Efficacy and safety of ustekinumab in PsA patients with spondylitis and peripheral joint involvement: Results from a phase 3, multicenter, double-blind, placebo-controlled study**
Kavanaugh A., Puig L., Gottlieb A.B., Ritchlin C., You Y., Wang Y., Mendelsohn A.M., Song M., Rahman P., McInnes I.B., on behalf of the PSUMMIT I Study Group (USA, Spain, Canada & Scotland)

P154 **Do bone marrow edema lesions in the sacroiliac joint change into fatty lesions over a 1-year period in patients with axial spondyloarthritis or possible spondyloarthritis**
Bakker P.A.C., van den Berg R., de Hooge M.S.M., van Gaalen F.A., Reijnierse M., Huizinga T., van der Heijde D.M.F.M. (The Netherlands)

P155 **Clinical significance for inflammatory lesions on facet joints of the spine using novel ankylosing spondylitis activity of facet joint (ASAFacet) scoring system**
Lee S., Lee J.Y., Kim S.K., Kim T.H. (Korea)

P156 **Validation of the new concept of backfill on MRI: A distinct reparative tissue that follows resolution of inflammation at sites of sacroiliac joint erosion**
Maksymowych W.P., Pedersen S.J., Wichuk S., Chiowchanwisawakit P., Østergaard M., Weber U., Lambert R.G. (Canada, Denmark & Thailand)

P157 **The spondyloarthritis research consortium of Canada MRI sacroiliac joint structural score: Reliable detection of structural progression even over one year**
Maksymowych W.P., Wichuk S., Chiowchanwisawakit P., Lambert R.G., Pedersen S.J. (Canada, Thailand & Denmark)

P158 **Diffusing weight magnetic resonance imaging may suggest the treatment strategy in ankylosing spondylitis**
Sang Yeob L., Jae Ho B., Sung Won L., Won Tae C. (South Korea)

P159 **Correlation between clinical and MRI disease activity in axial spondyloarthritis**
MacKay J.W., Aboelmagd S., Gaffney J.K. (UK)

P160 **Performance of hybrid 18F-fluoride PET/MRI of the sacroiliac joints and the spine in patients with ankylosing spondylitis**
Baraliakos X., Buchbender C., Ostendorf B., Ruhlmann V., Heusch P., Miese F., Beiderwellen K., Schneider M., Antoch G., Braun J. (Germany)

P161 **Lymphatic endothelial progenitor cells and vascular endothelial growth factor-C in spondyloarthritis and Crohn's disease: Two overlapping diseases?**
Bandinelli F., Milia A.F., Lastraioli E., Manetti M., Fazi M., Arcangeli A., Matucci-Cerinic M., Ibba-Manneschi L. (Italy)

P162 **Autophagy and unfolded protein response: A fine balance that can influence the pathogenesis of ankylosing spondylitis and inflammatory bowel disease**
Haroon N., Guggino G., Zhang Z., Yee K., Abdullah H., Alessandro R., Raimondo S., Triolo G., Ciccia F. (Canada)

P163 **Microscopic gut inflammation in SpA is a prognostic factor for initiation of anti-TNF therapy in daily practice**
Cypers H., Varkas G., Van Praet L., Van den Bosch F., Elewaut D. (Belgium)

P164 **Validation of the ankylosing spondylitis disease activity score (ASDAS) and effectiveness of infliximab in the treatment of ankylosing spondylitis over 4 years**
Rahman P., Choquette D., Khraishi M., Bensen W.G., Shaikh S.A., Sholter D., Sheriff M., Rampakakis E., Sampalis J.S., Nantel F., Otawa S., Lehman A.J., Shawi M. (Canada)

P165 **Intraarticular injections of SI joint are effective in AS patients' objective**
Lee S.W., Lee S., Kim T.H. (South Korea)

P166 **Comparisons of radiographic progression of ankylosing spondylitis between treatment with TNF antagonist, continuous treatment with NSAID, and on demand treatment of NSAID**
Min H.K., Kang J.Y., Koh J.H., Jung S.M., Lee J., Kwok S.K., Ju J.J., Kim W.U., Park S.H. (South Korea)

P167 **Clinical response and remission in patients with non-radiographic axial spondyloarthritis after three years of adalimumab therapy**
van der Heijde D., Sieper J., Baeten D., Maksymowych W., Xia Y., Anderson J., Pangan A. (The Netherlands, Germany, Canada & USA)

P168 **NSAID use in patients with ankylosing spondylitis treated with and without TNF-α blocking therapy during 2-year follow-up**
Carbo M.J., Arends S., Brouwer E., Bos R., Efde M., Leijsma M.K., Bootsma H., van der Veer E., Spoorenberg A. (The Netherlands)

P169 **Spinal radiographic progression during long-term TNF-α blocking therapy in patients with ankylosing spondylitis: Results from the GLAS cohort**
Maas F., Spoorenberg A., Brouwer E., Bos R., Efde M., Chaudhry R.N., Veeger N.J.G.M., Bootsma H., van der Veer E., Arends S. (The Netherlands)

P170 **Development of new radiographic vertebral fractures in patients with ankylosing spondylitis during 4 years of TNF-α blocking therapy**
Maas F., Spoorenberg A., Brouwer E., Bos R., Chaudhry R.N., Wink F., Bootsma H., van der Veer E., Arends S. (The Netherlands)

P171 **Non-steroidal anti-inflammatory drugs in axial spondyloarthritis: A Cochrane review**
Kroon F., van der Burg L., Ramiro S., Landewé R., Buchbinder R., van der Heijde D. (The Netherlands & Australia)

P172 **Low dosage and short term programmed released prednisone treatment of spondylitis patients is more effective in established and very active disease and in association with DMARDs**
Bandinelli F., Scazzariello F., Pimenta da Fonseca E., Piemonte G., Benelli L., Guidi F., De Luca R., Guiducci S., Santiago M.B., Matucci Cerinic M. (Italy & Brazil)

P173 **Long-term evaluation of NT-proBNP levels in ankylosing spondylitis patients under TNF blockers**
Russo D.T., Moraes J.C.B., Saad C.G.S., Ribeiro A.C.M., Schainberg C.G., Sampaio-Barros P.D., Gonçalves C.R., Bonfa E. (Brazil)

P174 **Are patients with as willing to pay for treatment with infliximab?**
Webers C., Essers I., Van Tubergen A., Braun J., Heldmann F., Baraliakos X., Boonen A. (The Netherlands & Germany)

P175 **Allogeneic mesenchymal stem cell transplantation in refractory ankylosing spondylitis: 24 weeks experience**
Yang M., Lv Q., Li Q., Wu X., Xiang P., Chen X., Gu J. (China)

P176 **Do patients with non-radiographic axial spondyloarthritis and ankylosing spondylitis respond similarly well to NSAIDs?**
Baraliakos X., Kiltz U., Heldmann F., Braun J. (Germany)

P177 **Different performance of the ASDAS and BASDAI in patients with axSPA treated with NSAIDs – Results from a prospective study**
Baraliakos X., Kiltz U., Heldmann F., Braun J. (Germany)

P178 **Predictors of remission in axial spondyloarthritis patients treated with non-steroidal anti-inflammatory drugs**
Furtado C., Fernandes S., Rodrigues A.M., Martins F.M., Miranda Rosa C., Pereira da Silva J.A., Vieira-Sousa E. (Portugal)

P179 **Observational study of switching anti-TNF agents in ankylosing spondylitis: Effectiveness and predictors**
Saad C.G.S., Shimabuco A.Y., Ribeiro A.C.M., Moraes J.C.B., Sampaio-Barros P.D., Goldenstein-Schainberg C., Gonçalves C., Bonfa, E. (Brazil)

P180 **Ustekinumab effectively reduces active inflammation as detected by magnetic resonance imaging in patients with active ankylosing spondylitis: Results of a 28-week, prospective, open-label, proof-of-concept study (TOPAS)**
Poddubnyy D., Hermann K.G., Callhoff J., Listing J., Sieper J. (Germany)

P181 **Infliximab induced subacute cutaneus lupus-like syndrome in patient with ankylosing spondylitis**
Dai K., Holc I. (Slovenia)

P182 **Influence of TNF blocker on radiographic damage in ankylosing spondylitis: OSKAR data**
Kim T.J., Joo K.B., Lee S., Shin J.H., Kim T.H. (South Korea)

PEARLS

Sponsored session at the 9th International Congress on Spondyloarthropathies

Exploring novel *pathways* and opportunities in psoriatic arthritis and beyond

Thursday 23rd October 2014 | 16.45–17.45

Welcome and introduction
Professor Désirée van der Heijde, *Leiden University, the Netherlands*
Professor Herman Mielants, *Ghent University, Belgium*

Mapping the IL-23/IL-17 axis
Professor Dirk Elewaut, *Ghent University, Belgium*

Targets or strategies – the next steps in psoriatic arthritis management
Professor Iain McInnes, *University of Glasgow, UK*

Questions and closing remarks
All

Organised by Janssen Pharmaceutical Companies of Johnson & Johnson in EMEA.
Janssen Pharmaceutica NV

Janssen
PHARMACEUTICAL COMPANIES OF Johnson&Johnson

Registration

	As of 15/10/'14
Participant MD	€ 700,00
Participant Non-MD	€ 800,00
Student/Researcher Non-MD with Abstract*	€ 400,00
Gala Dinner on Friday	€ 50,00**

**Presenting author only*
***If seats are available*

The registration includes
The registration fee includes access to all lectures, to the Opening Reception and Walking Dinner, the lunches, coffee breaks and the Farewell Reception as indicated in the programme. Participants also have free access to the exhibition.
Participation into the Opening Reception & Walking Dinner and the Farewell Reception is free **but pre-registration is mandatory**.

Separate registration and payment is required to participate in the Gala Dinner.

Payment
Payment is to be made by credit card. All major credit cards are accepted.

Cancellations
Cancellations received no later than August 31, 2014, entitle registered persons to a 50% refund. In order to cancel your registration and/ or hotel booking please contact Charlotte Schaek: charlotte@medicongress.com.

Hotel Accommodation

A number of hotel rooms have been booked at special group rates, including breakfast and VAT. The below rates are only valid for reservations made through Medicongress.
Housing requests are filled in order of receipt. If the hotel of your choice is filled, you will be assigned to another hotel. Hotel availability cannot be guaranteed after August 15.

Any requests for hotel accommodation must be accompanied by a credit card number, in order to secure the room. This credit card will not be charged by the organisers but only serves as a reservation guarantee. Participants will have to pay their hotel room and personal expenses at the reception of the hotel. In case of late cancellation or no show, the room will be charged on the Credit Card.

A hotel confirmation will be sent by email after receipt of the registration form and housing request and payment of the registration fee.

Each hotel has its proper cancellation policy. For details, see hotel accommodation section of www.spa-congress.be.

List of hotels and group rates for the SpA Congress:

Ibis Gent Opera **
Single room: € 106,50
Double room: € 123,00
Breakfast and city taxes are included.

Ibis Gent Centrum St. Baafs Kathedraal **
Single room: € 112,50
Double room: € 129,00
Breakfast and city taxes are included.

Hotel Best Western – Cour St. Georges ***
Single room: € 125,00
Double room: € 135,00
Breakfast is included. City taxes are € 2,5 per person/night.

Hotel Gravensteen ***
Standard Single room: € 119,00
Standard Double room: € 129,00
Executive Single room: € 139,00
Executive Double room: € 149,00
Breakfast is included. City taxes are € 2,50 per person/night.

Hotel Accommodation

Novotel Gent Centrum ***
Standard Single room: € 138,00
Double room: € 151,00
Breakfast is included. City taxes are € 2,50 per person/night.

Ghent River Hotel ****
Standard Single room: € 149,00
Standard Double room: € 159,00
Executive Single room: € 169,00
Executive Double room: € 179,00
Breakfast is included. City taxes are € 2,50 per person/night.

Hotel de Flandre ****
Standard Single room: €149,00
Standard Double room: € 159,00
Executive Single room: € 169,00
Executive Double room: € 179,00
Breakfast is included. City taxes are € 2,50 per person/night.

NH Gent Belfort ****
Single: € 139,00
Double: € 154,00
Breakfast is included. City taxes are €2,50 per person/night.

Sandton Grand Hotel Reylof ****
Charme Single room: 159,00 euro
Charme Double room: 169,00 euro
Deluxe Single room: 179,00 euro
Deluxe Double room: 189,00 euro
Breakfast is included. City taxes are € 2,50 per person/night.

General Information

Venue
Flanders Opera House – Vlaamse Opera
Schouwburgstraat 3
9000 Gent
https://vlaamseopera.be/en

Flanders Opera House – Vlaamse Opera is located in the city centre, within walking distance from the hotels.

It is strictly forbidden to take drinks/food into the meeting room.

General Information

Date
Thursday, October 23 - Saturday, October 25, 2014

Language
The official congress language is English.

Exhibition
A medical exhibition is held on the occasion of the Congress and is located on the 2nd floor. Access is free for registered participants. The exhibition is not accessible for non-MDs.

Catering
Coffee breaks and lunches will be served in the exhibition area located on the 2nd floor.

It is strictly forbidden to take drinks/food into the Meeting Room.

Twitter
The official SpA Twitter account is #spondylo14. It will be possible to use this account to tweet your questions for speakers during the Q&A sessions.

Evaluation
In order to evaluate the 9th SpA Congress, all participants will receive a short questionnaire at the end of each congress day (link sent by email). This daily questionnaire will take max 5 minutes to complete.

Your opinion is valuable for the future of the SpA Congress.

WiFi
Free WiFi is offered to all participants and exhibitors. The WiFi access code will be available onsite.

Liability
Neither the organisers nor Medicongress accept liability for damages and/or losses of any kind which may be incurred by Congress participants during the Congress. Participants are advised to take out insurance against loss, accidents or damage which could be incurred during the Congress.

Organisation and Administration
MEDICONGRESS
Noorwegenstraat 49
B-9940 Evergem, Belgium
Phone: +32 (0)9 218 85 85
Fax: +32 (0)9 344 40 10
E-mail: congresses@medicongress.com
Programme developed in collaboration with Wonder Reizen, Lic. A 5603

Social Programme

Opening Reception and Walking Dinner on Thursday, October 23
This Opening Reception and Walking Dinner will take place at Flanders Opera House and is included in the registration fee. Pre-registration however is required.

Gala Dinner on Friday, October 24
The Gala Dinner will take place at the 'Oude Vismijn' (Old Fish Market),
Separate registration and payment is required to participate in the Gala Dinner.

Here centuries-old history and high-tech facilities go hand in hand. Opposite the Castle of the Counts lies the monumental gateway (1689) to the Old Fish Market. Neptune keeps watch over the Scheldt (male) and the Lys (female).

Farewell Reception on Saturday, October 25
The Farewell Reception will take place at Flanders Opera House and is included in the registration fee. Pre-registration however is required.

Platinum Sponsors

abbvie

Janssen
PHARMACEUTICAL COMPANIES OF Johnson&Johnson

MSD

NOVARTIS
PHARMACEUTICALS

Pfizer

ucb

Gold Sponsor

Celgene

Silver Sponsor

HEALTHCARE CELLTRION™

Janssen Biologics B.V.

Notes

Notes

LOOK INSIDE THE CELL FOR A NEW PERSPECTIVE

DISCOVER THE ROLE OF PDE4 IN PSORIASIS AND PSORIATIC ARTHRITIS

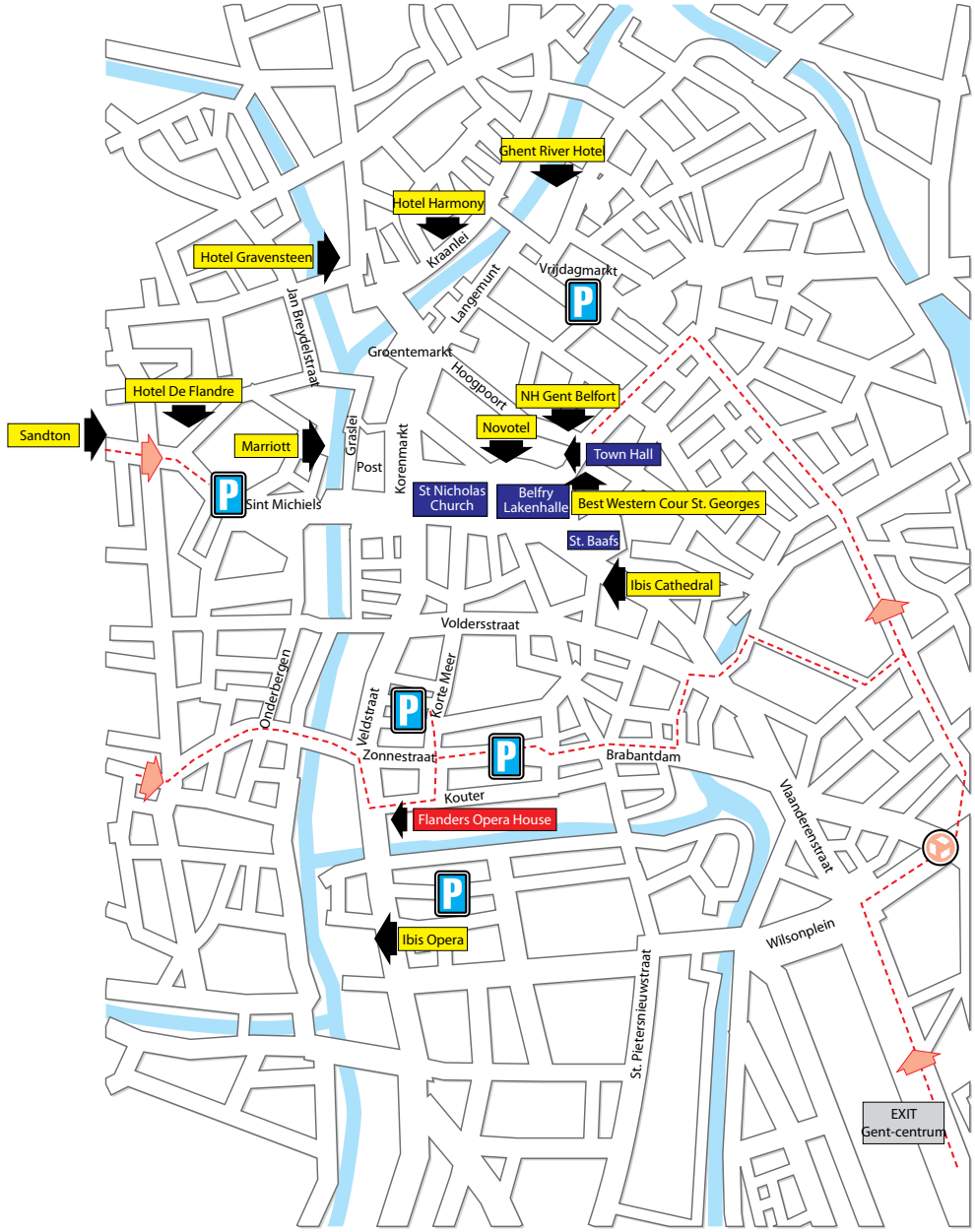
PDE4 promotes the dysregulation of pro- and anti-inflammatory mediators thought to occur in inflammatory disease[1,2] and is present in key inflammatory cells implicated in psoriasis and psoriatic arthritis.[2-4]

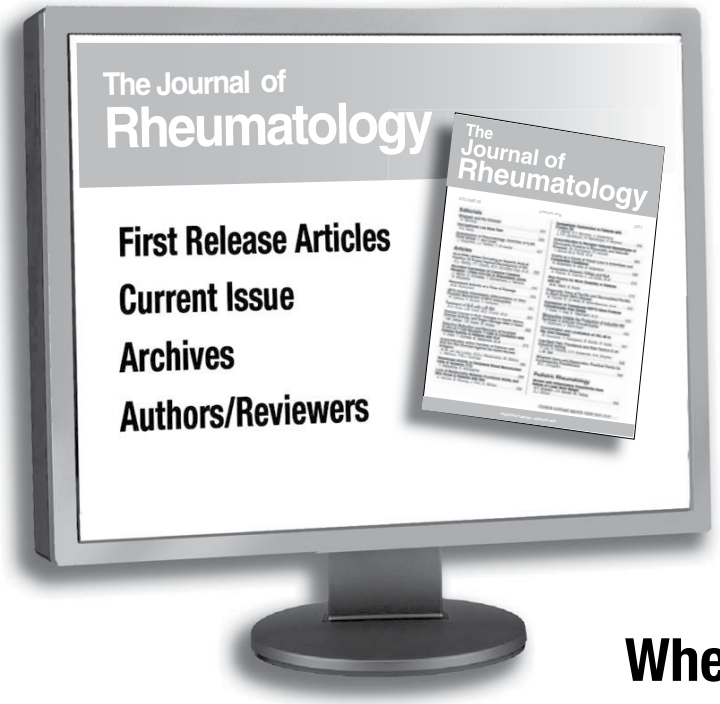
Visit Booth #7

PDE4, phosphodiesterase-4; AMP, adenosine monophosphate; cAMP, cyclic AMP.

References: 1. Houslay MD, *et al.* Keynote review: phosphodiesterase-4 as a therapeutic target. *Drug Discov Today.* 2005;10(22):1503–1519. **2.** Press NJ and Banner KH. PDE4 inhibitors – a review of the current field. In: Lawton G, Witty DR, eds. *Progress in Medicinal Chemistry.* Amsterdam, The Netherlands: Elsevier; 2009:37–74. **3.** Lowes MA, *et al.* Pathogenesis and therapy of psoriasis. *Nature.* 2007;445(7130):866–873. **4.** Veale DJ, *et al.* Immunopathology of psoriasis and psoriatic arthritis. *Ann Rheum Dis.* 2005;64(suppl 2):ii26–ii29.

 Date of Preparation October 2014 MED/PSD/APR/2014-10/01





What you get

- Current
- Clinical
- Definitive

Where you get it

THE JOURNAL

To subscribe: visit jrheum.org online or send in your completed coupon below

Rates for 2014 calendar year
USA/INTERNATIONAL

	Print + Online	Online Only
INDIVIDUALS:	$340 US	$275 US
INSTITUTIONAL:		
- Multisite#	On request	On request
- Multiuser (IP ranges)	$1000 US	$950 US
- Basic (up to 4 users)	$525 US	$475 US
TRAINEES+	$205 US	$140 US+
Airmail (ADD)	$100 US	

For terms of access visit jrheum.org
+Supervisor certification required below.

NAME OF SUPERVISOR: _____

SUPERVISOR SIGNATURE: _____

SUPERVISOR TELEPHONE: _____

Mail completed form to: The Journal of Rheumatology
365 Bloor Street East, Suite 901
Toronto, Ontario Canada M4W 3L4
Phone: (416) 967-5155
Fax: (416) 967-7556
E-mail: subscriptions@jrheum.com

Please enter my 2014 subscription to **The Journal of Rheumatology**

Name (please print) _____

Address _____

City _____ State/Province _____

Country _____ Zip/Postal Code _____

Contact E-mail _____

Amount Enclosed $ _____ Bill Me _____

Telephone Number _____ Fax Number _____

VISA/MasterCard Number _____ Expiration Date _____

Signature _____ CVV _____

All subscriptions are for the calendar year. Renewals for print subscriptions received after May 31, 2014 will be charged an additional $5 per back issue. Back issues: 3 years including current year are available if in stock. Single copies are available at $30 each. Claims: US 2 months, elsewhere 4 months from issue date, e.g., March 1 and May 1, respectively, for the January Issue. PRIVACY POLICY: For details of our privacy policy, visit our website at www.jrheum.org.

Innovating for better medicines

At Novartis, we want to discover, develop and provide high-quality healthcare solutions to address the evolving needs of patients and societies worldwide. We believe that our diverse healthcare portfolio, our dedication to innovation, and our responsible approach will enable us to fulfill our mission to care and to cure.

NOVARTIS
PHARMACEUTICALS

www.novartis.com