Welcome to „Translational research in the new decade: Rheumatology at the forefront“

Advances in the field of systems biology have increased our understanding of the mechanisms that drive autoimmunity and inflammation and led to the development of novel therapies and therapeutic strategies, such as Janus-kinase inhibitors and precision medicine approaches. In parallel, better characterization of the complexity of clinical manifestations have increased our understanding of the sophistications of common as well as rare disease.

Future challenges will be to integrate big data derived from omics with clinical data to foster the development of stratified therapies in rheumatology and beyond. Novel techniques such as deep learning, will help to predict disease courses and treatment responses in order to tailor treatment towards maximizing therapeutic effects and minimizing adverse events. Future studies will aim to translate molecular knowledge into clinical applications and ultimately to prevent the development of autoimmune diseases. These and other important aspects will be addressed in this symposium.

Josef Smolen  Michael Bonelli
Programme

Welcome

Markus Müller  
Rector of the Medical University of Vienna

Michael Bonelli and Josef Smolen  
Medical University of Vienna

Session I

Chairs: Alexandra Kautzky-Willer and Michael Trauner  
Medical University of Vienna/Vienna General Hospital

14.15 – 14.45
Systems approaches to autoimmune diseases
Giulio Superti-Furga, Vienna

14.45 – 15.15
Spearheading precision medicine in rheumatology:  
The expanding spectrum of autoinflammatory diseases
Raphaela Goldbach-Mansky, Bethesda

15.15 – 15.45
Advances in the treatment of systemic sclerosis – is there hope?
Oliver Distler, Zurich

15.45 – 16.15
Multimorbidity as a challenge in rheumatology?
Dan Solomon, Boston

16.15 – 16.40
Coffee Break

Session II

Chairs: Ursula Wiedermann-Schmidt, Medical University of Vienna and  
Rainer Oberbauer, Medical University of Vienna/Vienna General Hospital

16.40 – 17.10
Bones of contention: Controversies in rheumatic diseases and bone
Ellen Gravallese, Boston

17.10 – 17.40
Infections and other complications of JAK inhibition: how best to prevent them
Kevin Winthrop, Portland

17.40 – 18.10
Genomic views of cytokine signaling and lymphocyte differentiation
John O’Shea, Bethesda

18.10
Final remarks
Daniel Aletaha, Vienna

Speakers

John O’Shea  
Scientific Director, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), NIH, Bethesda, MD, USA

Raphaela Goldbach-Mansky  
Chief, Translational Autoinflammatory Disease Studies Unit, National Institute of Allergy and Infectious Diseases (NIAID), NIH, Bethesda, MD, USA

Daniel Solomon  
Chief, Section of Clinical Sciences, Division of Rheumatology, Brigham and Women’s Hospital, Harvard Medical School, Boston, MA, USA; Editor, Arthritis and Rheumatology

Ellen Gravallese  
Chief, Division of Rheumatology, Inflammation, and Immunity, Brigham and Women’s Hospital, Harvard Medical School, Boston, MA, USA; President, American College of Rheumatology; Associate Editor, New England Journal of Medicine

Giulio Superti-Furga  
Scientific Director, Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria

Kevin Winthrop  
Director, Center for Infectious Disease Studies, Oregon Health & Science University, Portland, OR, USA

Oliver Distler  
Director, Department of Rheumatology, University Hospital Zürich, Switzerland

Daniel Aletaha  
Head, Division of Rheumatology, Medical University of Vienna/Vienna General Hospital; Treasurer, European League Against Rheumatism

Organized by

Michael Bonelli  
Division of Rheumatology, Medical University of Vienna/Vienna General Hospital

Josef Smolen  
em. Professor of Rheumatology, Medical University of Vienna; Editor, Annals of the Rheumatic Diseases

Please also note the Inaugural Lecture of Daniel Aletaha as Professor of Rheumatology at the Medical University of Vienna, starting at 11.30 at the same venue.

For more information see:  
www.meduniwien.ac.at/antrittsvorlesungen