



# 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*

Josef Smolen

Michael Bonelli

Admission is free. Please register online:  
[www.meduniwien.ac.at/rheumatology-symposium](http://www.meduniwien.ac.at/rheumatology-symposium)



Medical University of Vienna/Vienna General Hospital, Hörsaalzentrum, Hörsaal 4  
Waehringer Guertel 18-20, 1090 Vienna

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## Symposium Translational research in the new decade: Rheumatology at the forefront

28<sup>th</sup> February 2020, 14.00 – 18.15

Medical University of Vienna/Vienna General Hospital, Hörsaalzentrum, Hörsaal 4  
Waehringer Guertel 18-20, 1090 Vienna

DEPARTMENT OF MEDICINE III  
Division of Rheumatology

MEDICAL UNIVERSITY OF VIENNA

Vienna General Hospital

# Programme

## Welcome

Markus Müller  
Rector of the Medical University of Vienna

Michael Bonelli and Josef Smolen  
Medical University of Vienna

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## 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

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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

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](http://www.meduniwien.ac.at/antrittsvorlesungen)

## 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