



CENTER FOR PATHOPHYSIOLOGY,
INFECTIOLOGY AND IMMUNOLOGY
MEDICAL UNIVERSITY OF VIENNA

COLLOQUIUM IN PATHOPHYSIOLOGY, INFECTIOLOGY AND IMMUNOLOGY

***Prof. Martin Herrmann, MD, PhD
Friedrich-Alexander University of Erlangen-
Nuremberg, Erlangen, Germany***

- ***“Neutrophils in initiation and resolution of inflammation”***

**Venue: Hygiene Institute, Lecture Hall 2,
Kinderspitalgasse 15, Vienna IX**

Time: Monday, February 12, 2018, 12.30 pm

Host: Hannes Stockinger



Biosketch

Martin Herrmann

Martin Herrmann is married and father of 4 children. He graduated from the Friedrich Alexander University Erlangen-Nuremberg, Germany in Immunology in 1989 and subsequently habilitated in 1997. He serves as an extraordinary professor in immunology and autoimmunology at the FAU Erlangen-Nuremberg since 2004. Furthermore, Prof. Herrmann is a visiting Professor at the West China Hospital of Medicine in Sichuan, China since 2015. His interest in autoimmunity was recognized early on as Prof. Herrmann published a number of striking articles in autoimmune research involving systemic lupus erythematosus (SLE), apoptosis and clearance of apoptotic cells, the formation of neutrophil extracellular traps (NETs) and other neutrophil functions as well as research on musculoskeletal diseases like gout and rheumatoid arthritis (RA). Noteworthy contributions of Prof. Herrmann to the scientific community not only include translational medical research, but also interdisciplinary aspects combining chemistry, physics or material science with life sciences. His research led to nearly 400 original publications and review articles. His devotion to train medical students, life science graduates and bachelor/master students remains admirable and he is the speaker of 2 graduate schools at the FAU Erlangen-Nuremberg.

■ Selected Publications:

- Pfeifle R, Rothe T, Ipseiz N, Scherer HU, Culemann S, Harre U, Ackermann JA, Seefried M, Kleyer A, Uderhardt S, Hugg B, Hueber AJ, Daum P, Heidkamp GF, Ge C, Bohm S, Lux A, Schuh W, Magorivska I, Nandakumar KS, Lonnblom E, Becker C, Dudziak D, Wuhrer M, Rombouts Y, Koeleman CA, Toes R, Winkler TH, Holmdahl R, **Herrmann M**, Bluml S, Nimmerjahn F, Schett G, Kronke G. Regulation of autoantibody activity by the IL-23-TH17 axis determines the onset of autoimmune disease. *Nature Immunology*. 2017;18(1):104-13.
- Leppkes M, Maueroder C, Hirth S, Nowecki S, Gunther C, Billmeier U, Paulus S, Biermann M, Munoz LE, Hoffmann M, Wildner D, Croxford AL, Waisman A, Mowen K, Jenne DE, Krenn V, Mayerle J, Lerch MM, Schett G, Wirtz S, Neurath MF, **Herrmann M***, Becker C*. Externalized decondensed neutrophil chromatin occludes pancreatic ducts and drives pancreatitis. *Nature Communications*. 2016;7:10973.
- Munoz LE, Bilyy R, Biermann MH, Kienhofer D, Maueroder C, Hahn J, Brauner JM, Weidner D, Chen J, Scharin-Mehlmann M, Janko C, Friedrich RP, Mielenz D, Dumych T, Lootsik MD, Schauer C, Schett G, Hoffmann M, Zhao Y, **Herrmann M**. Nanoparticles size-dependently initiate self-limiting NETosis-driven inflammation. *Proceedings of the National Academy of Sciences of the United States of America*. 2016;113(40):E5856-E65.
- Schauer C, Janko C, Munoz LE, Zhao Y, Kienhofer D, Frey B, Lell M, Manger B, Rech J, Naschberger E, Holmdahl R, Krenn V, Harrer T, Jeremic I, Bilyy R, Schett G, Hoffmann M, **Herrmann M**. Aggregated neutrophil extracellular traps limit inflammation by degrading cytokines and chemokines. *Nature Medicine*. 2014;20(5):511-7.
- Voll RE, **Herrmann M**, Roth EA, Stach C, Kalden JR, Girkontaite I. Immunosuppressive effects of apoptotic cells. *Nature*. 1997;390(6658):350-1.