

Univ.-Prof. Dr. med. Luisa Klotz

Date of Birth: 14.04.1975, female
Nationality: German
Status: Married, 3 children, *2009, *2012, *2015
Current Position: W3 Professor
Contact: Department of Neurology, University Hospital Münster
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EDUCATION:

1994 – 2001 Medical studies at the University of Bonn
2002 M.D. thesis at the Dept. of Pathology, University hospital Bonn
(Dr. med., *summa cum laude*)

PROFESSIONAL EXPERIENCE:

2001 – 2008 Residency at the Dept. of Neurology, University hospital Bonn; (*Prof. Dr. T. Klockgether*)
2010 Specialty qualification Neurology
2010 Habilitation in Neurology
Since 2011 independent group leader; Depart. of Neurology, University hospital Münster (*Prof. Dr. H. Wiendl*)
Since 2013 head of the clinical trial unit “neuroimmunology and IITs”
Since 2016 W3 Professor (endowed Professorship “neurological Immune Therapy”) and senior physician

AWARDS/GRANTS/HONORS:

1999 Award of the Bonner Forum Biomedicine
2005 BONFOR Symposium Award
2006 Lise-Meitner-Stipend
2012 1st Junior Research Award of the German MS Society (“Sobek Prize”)
2012 1st Oppenheim Prize “Multiple Sclerosis” (Novartis)

RESEARCH AREAS:

Immunomodulatory properties of nuclear receptors, multiple sclerosis, innate and adaptive immune responses in CNS autoimmunity, environmental influences on CNS autoimmunity, spontaneous EAE models, mechanism of action of modern immune-modulatory treatments.

SELECTED PUBLICATIONS:

1. **Klotz L.**, Eschborn M, Lindner M, Liebmann M, Herold M, Janoschka C, Torres Garrido B, Schulte-Mecklenbeck A, Gross CC, Breuer J, Hundehege P, Posevitz V, Pignolet B, Nebel G, Glander S, Freise N, Austermann J, Wirth T, Campbell GR, Schneider-Hohendorf T, Eveslage M, Brassat D, Schwab N, Loser K, Roth J, Busch KB, Stoll M, Mahad DJ, Meuth SG, Turner T, Bar-Or A, Wiendl H. Teriflunomide treatment for multiple sclerosis modulates T cell mitochondrial respiration with affinity-dependent effects. *Sci Transl Med* 2019, Vol. 11, Issue 490. doi: 10.1126/scitranslmed.aao5563.
2. Liebmann M, Hucke S, Koch K, Eschborn M, Ghelman J, Chasan AI, Glander S, Schädlich M, Kuhlencord M, Daber NM, Eveslage M, Beyer M, Dietrich M, Albrecht P, Stoll M, Busch KB, Wiendl H, Roth J, Kuhlmann T, **Klotz L.** Nur77 serves as a molecular brake of the metabolic switch during T cell activation to restrict autoimmunity. *Proc Natl Acad Sci* 2018; 115(34): E8017-E8026.
3. ***Klotz L.**, *Kuzmanov I, Hucke S, Gross CC, Posevitz V, Dreykluff A, Schulte-Mecklenbeck A, Janoschka C, Lindner M, Herold M, Schwab N, Ludwig-Portugall I, Kurts C, Meuth SG, Kuhlmann T, Wiendl H. B7-H1 shapes T-cell-mediated brain endothelial cell dysfunction and regional encephalitogenicity in spontaneous CNS autoimmunity. *Proc Natl Acad Sci* 2016; 113(41):E6182-E6191 (*equal contribution)
4. Hucke S, Herold M, Liebmann M, Freise N, Lindner M, Fleck AK, Zenker S, Thiebes S, Fernandez-Orth J, Buck D, Luessi F, Meuth SG, Zipp F, Hemmer B, Engel DR, Roth J, Kuhlmann T, Wiendl H, **Klotz L.** The farnesoid-X-receptor in myeloid cells controls CNS autoimmunity in an IL-10-dependent fashion. *Acta Neuropathol* 2016; 132(2):413-31.
5. Hucke S, Eschborn M, Liebmann M, Herold M, Freise N, Engbers A, Ehling P, Meuth SG, Roth J, Kuhlmann T, Wiendl H, **Klotz L.** Sodium Chloride promotes pro-inflammatory macrophage polarization thereby aggravating CNS autoimmunity. *J Autoimmun* 2016; pii: S0896-8411(15)30052-4.