

Curriculum Vitae

Name Katja Kobow, PD med. habil. Dr. rer. nat.
Present Position: Assistant Professor
Postal Address: Universitätsklinikum Erlangen
Institute of Neuropathology
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Date of Birth: 20. February 1980



Research fields

Epigenetics in experimental and human focal epilepsies
Temporal lobe epilepsy with hippocampal sclerosis (TLE-HS), Malformations of cortical development (MCD), Low-grade epilepsy-associated Tumors (LEAT)
Genomic-epigenomic-environmental interplay in epilepsy
Diagnostic biomarker development

Education and working experience

2019-today Assistant Professor, Universitätsklinikum Erlangen, Inst. of Neuropathology, FAU, Germany
12/2019 *Venia legendi* for Molecular Neuropathology, FAU, Germany
2009-2019 Group leader molecular epilepsy research, Universitätsklinikum Erlangen, Dept. of Neuropathology, FAU, Germany
2005-2009 *PhD* (neuroscience and genetics)
Thesis: "Epigenetic gene regulation in focal epilepsies" (Kobow et al. 2009)
Universitätsklinikum Erlangen, Dept. of Neuropathology, Friedrich-Alexander-Universität (FAU) Erlangen-Nürnberg, Germany
1999-2005 Study of Biochemistry (Diploma)
Medical Faculty, Department of Biochemistry, University of Leipzig, Germany

Commissions of Trust

2018-today Editorial Board *Epilepsia*
2021-2025 ILAE Career Development Commission, ILAE Lancet Neurology Commission

Reviewer for *Journal of Clinical Investigation*, *Acta Neuropathologica*, *Annals of Neurology*, *Brain*, *Journal of Neuroscience*, *Scientific Reports*, *Epilepsia*, *Neurobiology of Disease*, *Frontiers in Molecular Neuroscience*, *Brain Research*, *Epigenomics*, *eNeuro*, *eLife*

The Netherlands Organisation for Scientific Research (NWO),
Research Foundation - Flanders (FWO), Israel Science Foundation (ISF), Polish Science Foundation (FNP), Deutsche Forschungsgemeinschaft (DFG), ERANET Neuron

Awards/Prizes

2021 Michael Prize

Short Biosketch

Dr. Kobow is Assistant Professor at the Institute of Neuropathology at the Universitätsklinikum Erlangen, Friedrich-Alexander-University (FAU) Erlangen in Germany. She studied biochemistry at the University of Leipzig. She received her PhD in neuroscience and genetics in 2009 under the supervision of Prof. Ingmar Blümcke and since then has built her own research group studying molecular pathomechanisms underlying experimental and human focal epilepsies. The focus in recent years has been on epigenomic changes in epileptic brain tissue as well as the identification of molecular diagnostic biomarkers for epilepsy and associated pathologies. Ongoing mechanistic studies address the translation of hypersynchronous neuronal activity (i.e., seizures) into aberrant epigenetic signatures and possibilities to target these mechanisms, e.g., through metabolic interference, both in-vitro and in-vivo. Dr. Kobow actively participates in several ILAE (International League Against Epilepsy) commissions and task forces and is one of the founders and current board member of the ILAE's Young Epilepsy Section (YES). In 2021 she has been awarded the prestigious Michael Prize for her pioneering work on epigenetics in epilepsy.

Publications: 50 (29 research articles)
h-index: 25

Erlangen, January 2024