PD Dr. med. habil. Stefan Schob

A. Work address

Deputy Head of the
Department of Neuroradiology
Clinic and Polyclinic for Radiology
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Date of birth: June 7th, 1981
Place of birth: Zwickau, Germany

Current position: deputy head and senior consultant interventional neuroradiology: April 2021 - today

B. Scientific Career

University Hospital Leipzig

- March 2013 - April 2020

Department

- Institute for Neuroradiology

Location

- Germany

Position

- Clinician Scientist, Attending

Friedrich-Alexander-University of Erlangen-Nürnberg

- January 2010 - March 2013

Department

- Department of Anatomy

Location

- Germany

Position

- Researcher

Harvard University

- September 2012 - October 2013

Department

- Center for Systems Biology, Mouse Imaging Project

Location

- Cambridge, United States

Position

- Research Associate

Description

- Research fellow

Martin Luther University Halle-Wittenberg

- September 2008 - October 2013

Department

- Institute of Anatomy and Cell Biology

Location

- Halle (Saale), Germany

Position

- Research fellow

Scientific Focus

My clinical work focuses on endovascular therapy of cerebrovascular conditions, mainly stroke and aneurysm treatment. My research includes three different areas of interest. I) I focus on clinical research regarding novel devices for endovascular aneurysm treatment. II) I investigate the potential of multiparametric MRI, mostly DWI, for prediction of tumor biological features of different neoplasms. III) I am interested in the role of surfactant proteins in context of neurodegeneration.

Selected Scientific Activities

C. Selection of Funding Projects

- The Cerebral Surfactant System
- Predictability of tumor-biological features by diffusion weighted MRI
- Endovascular Treatment of Cerebral Aneurysms
- STRAIT Study: Safety and Feasibility of a new generation balloon guiding catheter for acute stroke treatment
- Reheal (Study on Flow Diversion with Biomimicry Coating)
- Recruit (Acute Stenting of intracranial vascular lesions in the setting of stroke)
- TECNO (Use of tenecteplase as bale out therapy for distal, refractory occlusions)
- Corneal wound healing
- Tear film Homeostasis

Scientific Achievements & Recognitions

- **Former Fellow & Current Member of the German Academic Scholarship Foundation**
- **Research Award of the German Ophthalmologic Association “Gelsolin as ocular Actin Scavenger”.**

- **Research Award of the Heinrich-Braun-Society "The Cerebral Surfactant System"**
- **Research Award of the Saxon Radiological Society "Diffusion Weighted Imaging an Aquaporin 4 Expression in Meningioma"**

E. Publication List (ten most important publications)

1: Krause M, Härtig W, Mahr CV, Richter C, Schob J, Puchta J, Hoffmann KT, Nestler U, Thome U, Knüpfer M, Gebauer C, Schob S. CSF Surfactant Protein Changes in Preterm Infants After Intraventricular Hemorrhage. Front Pediatr. 2020 Sep 25;8:572851. doi: 10.3389/fped.2020.572851. PMID: 33102410; PMCID: PMC7546901.

2: Meinicke A, Härtig W, Winter K, Puchta J, Mages B, Michalski D, Emmer A, Otto M, Hoffmann KT, Reimann W, Krause M, Schob S. Surfactant Protein-G in Wildtype and 3xTg-AD Mice: Localization in the Forebrain, Age-Dependent Hippocampal Dot-like Deposits and Brain Content. Biomolecules. 2022 Jan 7;12(1):96. doi: 10.3390/biom12010096. PMID: 35053244; PMCID: PMC8773979.

3: Schob S, Weiß A, Surov A, Dieckow J, Richter C, Pirlich M, Horvath-Rizea D, Härtig W, Hoffmann KT, Krause M, Quäschling U. Elevated Surfactant Protein Levels and Increased Flow of Cerebrospinal Fluid in Cranial Magnetic Resonance Imaging. Mol Neurobiol. 2018 Aug;55(8):6227-6236. doi: 10.1007/s12035-017-0835-5. Epub 2017 Dec 27. PMID: 29282698.

4: Schob S, Brill R, Siebert E, Sponza M, Schüngel MS, Wohlgemuth WA, Götz N, Mucha D, Gopinathan A, Scheer M, Prell J, Bohner G, Gavrilovic V, Skalej M. Indirect Flow Diversion for Off-Centered Bifurcation Aneurysms and Distant Small-Vessel Aneurysms, a Retrospective Proof of Concept Study From Five Neurovascular Centers. Front Neurol. 2022 Jan 6;12:801470. doi: 10.3389/fneur.2021.801470. PMID: 35069430; PMCID: PMC8770821.

5: Weiß A, Krause M, Stockert A, Richter C, Puchta J, Bhogal P, Hoffmann KT, Emmer A, Quäschling U, Scherlach C, Härtig W, Schob S. Rheologically Essential Surfactant Proteins of the CSF Interacting with Periventricular White Matter Changes in Hydrocephalus Patients - Implications for CSF Dynamics and the Glymphatic System. Mol Neurobiol. 2019 Nov;56(11):7863-7871. doi: 10.1007/s12035-019-01648-z. Epub 2019 May 24. PMID: 31127529.

6: Schob S, Hoffmann KT, Richter C, Bhogal P, Köhlert K, Planitzer U, Ziganshyna S, Lindner D, Scherlach C, Nestler U, Meixensberger J, Quäschling U. Flow diversion beyond the circle of Willis: endovascular aneurysm treatment in peripheral cerebral arteries employing a novel low-profile flow diverting stent. J Neurointerv Surg. 2019 Dec;11(12):1227-1234. doi: 10.1136/neurintsurg-2019-014840. Epub 2019 May 14. PMID: 31088939; PMCID: PMC6902074.

7: Schüngel MS, Hoffmann KT, Weber E, Maybaum J, Bailis N, Scheer M, Nestler U, Schob S. Distal Flow Diversion with Anti-Thrombotically Coated and Bare Metal Low-Profile Flow Diverters-A Comparison. J Clin Med. 2023 Apr 4;12(7):2700. doi:

10.3390/jcm12072700. PMID: 37048781; PMCID: PMC10095446.

8: Gihr G, Horvath-Rizea D, Kohlhof-Meinecke P, Ganslandt O, Henkes H, Härtig W, Donitza A, Skalej M, Schob S. Diffusion Weighted Imaging in Gliomas: A Histogram-Based Approach for Tumor Characterization. Cancers (Basel). 2022 Jul 13;14(14):3393. doi: 10.3390/cancers14143393. PMID: 35884457; PMCID: PMC9321540.

9: Gihr G, Horvath-Rizea D, Hekeler E, Ganslandt O, Henkes H, Hoffmann KT, Scherlach C, Schob S. Diffusion weighted imaging in high-grade gliomas: A histogram-based analysis of apparent diffusion coefficient profile. PLoS One. 2021 Apr 15;16(4):e0249878. doi: 10.1371/journal.pone.0249878. PMID: 33857203; PMCID: PMC8049265.

10: Gihr GA, Horvath-Rizea D, Hekeler E, Ganslandt O, Henkes H, Hoffmann KT, Scherlach C, Schob S. Histogram Analysis of Diffusion Weighted Imaging in Low-Grade Gliomas: in vivo Characterization of Tumor Architecture and Corresponding Neuropathology. Front Oncol. 2020 Feb 25;10:206. doi: 10.3389/fonc.2020.00206. PMID: 32158691; PMCID: PMC7051987.

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