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### **Dr. rer. nat. Anne Mahringer**

Dr. Anne Mahringer studied pharmacy at the Ruprecht-Karls University of Heidelberg and obtained her PhD at the Institute of Pharmacy and Molecular Biotechnology at the Department of Pharmaceutical Technology and Biopharmaceutics under the professorship of Professor Dr. Gert Fricker. After several stays abroad at the NIEHS (National Institute of Environmental Health Sciences, North Carolina), the MDIBL (Mount Desert Island Biological Laboratory, Maine) and the Biomedical Center Uppsala (University Uppsala, Translational PKPD, Sweden) she is currently holding a postdoc position at the Institute of Pharmacy and Molecular Biotechnology at the Department of Pharmaceutical Technology and Biopharmaceutics in Heidelberg. Her research interests focus on drug transporter signaling at the blood-brain barrier and in the kidney as well as on endocytotic transport mechanisms of large peptides across the cerebrovascular endothelium.



### **Alumni**

#### Doctoral Thesis

Alexandra Bernd

Dr. rer. nat. Sabrina Nickel

#### Master Thesis

Katharina Kappler

Christian Röhrig

#### Bachelor Thesis

David Grommisch

Julian Kirschstein

Katharina Kappler

Bianca Staffen

Veronica Chevyreva

Caroline Sellmann

#### Student internships

Cornelia Zapp

Ameen Mardanpour

Christian Röhrig

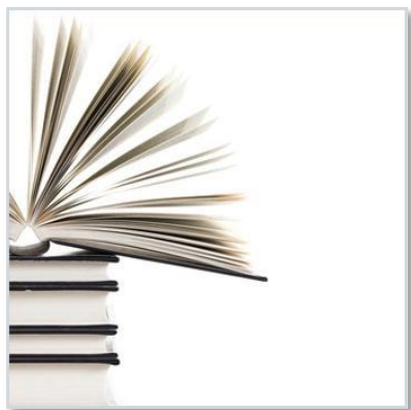
Julia Franzen

Christoph Kluck

Sara Rodriguez

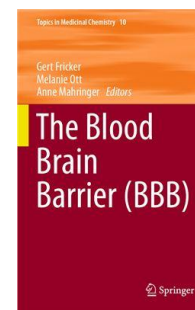
Daniel Klotz

Babett Müller

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## Books

The Blood Brain Barrier (BBB) in *Topics in Medicinal Chemistry*, Springer-Verlag;  
Editors: Fricker G, Ott M, Mahringer A. 2014



## Publications

Neuhaus W, Gaiser F, Mahringer A, Franz J, Riethmüller C, Förster C. 2014. **The pivotal role of astrocytes in an in vitro stroke model of the blood-brain barrier.** *Front. Cell. Neurosci.* 8:352

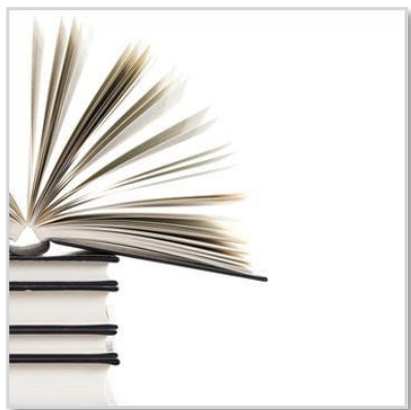
Nickel S, Mahringer A. 2014. **The xenoestrogens ethinylestradiol and bisphenol A regulate BCRP at the blood-brain barrier of rats.** *Xenobiotica* 44(11):1046-54

Noysang C, Mahringer A, Zeino M, Saeed M, Luanratana O, Fricker G, Bauer R, Efferth T. 2014. **Cytotoxicity and inhibition of P-glycoprotein by selected medicinal plants from Thailand.** *J. Ethnopharmacol.* 155(1):633-41

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Hartz AM, Mahringer A, Miller DS, Bauer B. 2010. **17- $\beta$ -Estradiol: a powerful modulator of the blood-brain barrier BCRP activity.** *J. Cereb. Blood Flow* 30 (10):1742-55

Sauer SW, Opp S, Mahringer A, Kaminski MM, Thiel C, Okun JG, Fricker G, Morath MA, Kölker S. 2010. **Glutaric aciduria type I and methylmalonic aciduria: simulation of cerebral import and export of accumulating neurotoxic dicarboxylic acids in in vitro models of the blood-brain barrier and the choroid plexus.** *Biochim. Biophys. Acta* 1802(6):552-60

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Kühnle M, Egger M, Müller C, Mahringer A, Fricker G, König B, Buschauer A. 2009. **Potent and selective inhibitors of breast cancer resistance protein (ABCG2) derived from the modulator p-glycoprotein (ABCB1) tariquidar.** *J. Med. Chem.* 52(4):1190-7

Adams M, Mahringer A, Kunert O, Fricker G, Efferth T, Bauer R. 2007. **Cytotoxicity and p-glycoprotein modulating effects of quinolones and indoloquinazolines from the Chinese herb *Evodia rutaecarpa*.** *Planta Med.* 73(15):1554-7

Adams M, Mahringer A, Bauer R, Fricker G, Efferth T. 2007. **In vitro cytotoxicity and P-glycoprotein modulating effects of geranylated furocoumarins from *Tetradium daniellii*.** *Planta Med.* 73(14):1475-8



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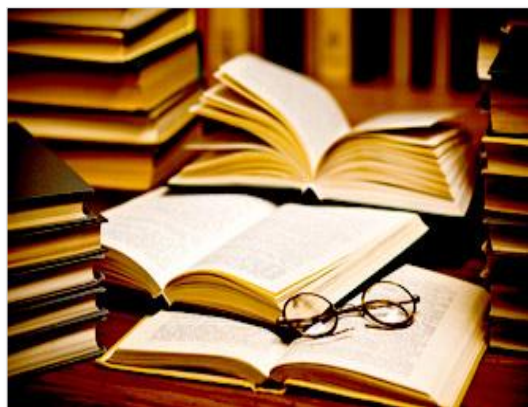
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### Seminars, Lectures and Practical Courses

<u>Courses</u>		<u>Term</u>	<u>Studies</u>
„Pharmaceutical and Medical Terminology“	Seminar	1 <sup>st</sup> Sem.	Pharmacy
„Fundamentals of Inorganic Chemistry“	Seminar	1 <sup>st</sup> Sem.	Pharmacy
„Fundamentals of Physical Chemistry“	Lecture	2 <sup>nd</sup> Sem.	Pharmacy
„Fundamentals of Pharmaceutical Formulations“	Lecture	3 <sup>rd</sup> Sem.	Pharmacy
„Molecules, neurons, networks and behaviour“ (IZN Summer Lecture)	Lecture Series	2 <sup>nd</sup> Sem.	Msc in Neuroscience
„Galenical Practical Course I“	Practical Course	4 <sup>th</sup> Sem.	Pharmacy
„Biopharmaceutical and Galenical Practical Course II“	Practical Course	7 <sup>th</sup> Sem.	Pharmacy