

Personal information

Name **Martin Thunemann, Dipl.-Biochemiker**

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Date of birth 28.10.1982 in Bonn

Education and training

2001-2007 Student of biochemistry, Eberhard-Karls University of Tübingen

2006-2007 Diploma thesis in the Laboratory for Preclinical Imaging and Imaging Technology, Dept. of Radiology, University of Tübingen about "*In vivo quantification of receptor-ligand-interactions with microPET in examinations of the dopaminergic system in mice, comparison with autoradiography and immunofluorescence*". Supervisor: Prof. Dr. Bernd J. Pichler

03/2007 Diploma in biochemistry (Dipl.-Biochemiker, grade: 1.0)
Major exams in biochemistry, neuropharmacology, physical chemistry

since 2007 PhD thesis in the Department for Signal Transduction and Transgenic Models, Interfaculty Institute of Biochemistry, University of Tübingen about "*Generation and evaluation of mice carrying reporter genes for in vivo imaging approaches*". Supervisor: Prof. Dr. Robert Feil

Work experience

2003-2006 Assistant in lab courses of physical chemistry for students of chemistry, biochemistry, pharmacy, bioinformatics

2004-2006 Seminars about error computation and statistics, introduction into the use of Microsoft Excel and Microcal Origin for students of chemistry and biochemistry

2006-2007 Assistant in the Laboratory for Preclinical Imaging and Imaging Technology, Dept. of Radiology, University of Tübingen (PET/MRI image acquisition and evaluation)

since 2007 PhD student in the Department for Signal Transduction and Transgenic Models, Interfaculty Institute of Biochemistry, University of Tübingen
Supervision of students in practical courses, internships and master theses works

Scientific achievements

Awards and scholarships

2001-2006 Scholarship of the Professor-Rhein-Stiftung, Königswinter, Germany

Publications

M. Föller, S. Feil, K. Ghoreschi, S. Koka, A. Gerling, M. Thunemann, F. Hofmann, B. Schuler, J. Vogel, B.J. Pichler, R.S. Kasinathan, J.P. Nicolay, S.M. Huber, F. Lang, and R. Feil: *"Anemia and splenomegaly in cGKI-deficient mice."* Proceedings of the National Academy of Sciences of the United States of America, vol. 105, 2008, pp. 6771-6.

Contributions in conferences

- 09/2007 Joint Molecular Imaging Conference in Providence, RI, USA
- [Poster] M. Thunemann, F. Cay, D. Bukala, M.S. Judenhofer, G. Reischl, M. Reimold, C.D. Claussen, H. Machulla, and B.J. Pichler: *"Influence of Tracer Mass and Spatial Resolution on the Quantification of microPET Experiments Performed in Mice."*
 - [Poster] F. Cay, D. Bukala, M. Thunemann, M.S. Judenhofer, G. Reischl, H. Machulla, C.D. Claussen, and B.J. Pichler: *"Bolus / Infusion microPET Imaging Protocols for Neuroimaging in Mice and Rats."*
- 08/2008 4. SüPBiV meeting in Chiemsee-Frauenwörth, Germany
- [Short lecture] M. Thunemann, S. Feil, R. Feil: *"The use of molecular imaging methods to characterize transgenic mouse models."*
- 03/2010 51. Jahrestagung der Deutschen Gesellschaft für Pharmakologie und Toxikologie in Mainz, Germany
- [Poster] M. Thunemann, S. Feil, B.J. Pichler, R. Feil: *"In vivo Cell Tracking in krankheitsrelevanten Mausmodellen mittels Positronen-Emissions-Tomographie."*
- 04/2010 Nuklearmedizin 2010: 48. Jahrestagung der Deutschen Gesellschaft für Nuklearmedizin (DGN) in Leipzig, Germany
- [Coauthor] K. Fischer, M. Thunemann, W. Ehrlichmann, M. Koenig, M. Lehnhoff, V. Sossi, B.J. Pichler: *"In vivo evaluation of D2 receptor density and affinity for brain imaging in mice using a multiple ligand concentration receptor assay."*
- 08/2010 6. SüPBiV meeting in Chiemsee-Frauenwörth, Germany
- [Short lecture] M. Thunemann, S. Feil, R. Feil: *"Non-invasive imaging of cells and signalling molecules in mice."*

Other contributions

04/2010 Invited lecture (Seminar in Preclinical Imaging & Radiopharmacy, Laboratory for Preclinical Imaging and Imaging Technology of the Werner Siemens-Foundation):
"Techniques for the generation of transgenic mice."

Personal skills and competences

Mother tongue	German	
Other languages	English	<ul style="list-style-type: none">▪ reading/understanding (excellent)▪ writing/speaking (excellent)
Laboratory skills	General	<ul style="list-style-type: none">▪ General techniques of molecular and cell biology▪ General techniques of protein biochemistry▪ Working experience with radioisotopes (^{32}P, ^3H, ^{14}C, ^{18}F, ^{11}C)
	Cell culture	<ul style="list-style-type: none">▪ Culture of murine embryonic stem (ES) cells▪ Gene targeting in ES cells by homologous recombination▪ Primary culture of smooth muscle cells from mice▪ Primary culture of mouse embryonic fibroblasts
	Experimental animals	<ul style="list-style-type: none">▪ Course about animal care/experimental animals (40 hrs., according to §9 German animal protection law)▪ Studies with conditional/inducible mouse mutants▪ Mouse colony establishment and maintenance
	Imaging techniques	<ul style="list-style-type: none">▪ microPET imaging▪ MRI imaging▪ Optical imaging▪ Live cell/FRET imaging
Computer skills	Microsoft Windows and Office: expert Network administration/ Active Directory: expert Adobe Creative Suite / Origin / Sigmaplot: expert Basic / C / Java / HTML: basic programming skills	
Driving licence	Class B	