

Curriculum Vitae

NAME	POSITION TITLE
Stefan Remy, M.D., *Feb 09, 1975	Professor, Principal investigator, German Center for Neurodegenerative Diseases (DZNE), Bonn Department of Epileptology, University of Bonn

A. Education/Training

- 2003 Doctoral degree (Medical doctor, summa cum laude), Advisor: B.W. Urban, PhD, University of Bonn
 "Function and pharmacology of voltage-gated Na⁺ channels in epilepsy"
- 2004 Medical Internship, Dep. of Epileptology, University of Bonn (Head: C.E. Elger, MD, FRCP)

B. Professional Positions

- 2005-2007 Alexander von Humboldt fellow, Department of Neurobiology and Physiology, Northwestern University, Evanston, IL (Advisor: N. Spruston)
- 2008-2009 BONFOR fellow (BONFOR Nachwuchsgruppe), Department of Epileptology, University of Bonn
- 2009-2014 Research group leader (NRW-Nachwuchsgruppe) "Dendritic integration in the CNS", funded by Ministry of Innovation, Science and Research of the State of North Rhine-Westphalia
- 2011 Assistant professor, German Center for Neurodegenerative Diseases Bonn, tenure-track (W1-Juniorprofessor)
- since 2013 Associate professor (W2-tenured) and group leader Neuronal Networks Group, German Center for Neurodegenerative Diseases and University of Bonn Medical School

C. Current extramural funding

German Research Foundation (DFG)

SFB 1089 Synaptic microcircuits in health in disease, Subprojects B01 and C01



European Research Council (ERC)

Consolidator Grant of the European Research Council 2016 (2017-2022)



D. Awards and honors

Young investigator award of the American Epilepsy Society; FENS/IBRO travel award; Alexander von Humboldt Fellowship (2005-2006)

E. Panel and peer review

European Research Council (ERC Advanced Grant Call), Deutsche Forschungsgemeinschaft (DFG), Agence Nationale de la Recherche (ANR), German-Israeli Foundation for Scientific Research and Development (GIF), Max-Planck-Society, Wissenschaftsfonds Austria (FWF), Israel Science Foundation, Synapsis Foundation (CH)

Cell, Nature Neuroscience, Neuron, Trends in Neuroscience, Journal of Neuroscience, Brain, Journal of Physiology, Frontiers in Neural Circuits, Journal of Neurophysiology, Brain Structure and Function, Epilepsia and others, Editor European Journal of Neuroscience Special issue "Computational Neuroscience" with Y. Poirazi

F. Publications (2007-2016)

(for a complete list of publications please use Pubmed search term: "Remy S (Bonn or Evanston)")

Justus D, Dalügge D, Bothe S, Fuhrmann F, Hannes C, Kaneko H, Friedrichs D, Sosulina L, Schwarz I, Elliott D, Schoch S, Bradke F, Schwarz MK, **Remy S** (2016) Glutamatergic synaptic integration of locomotion speed via septo-entorhinal projections. **Nature Neuroscience** Nov 28, doi:10.1038/nn.4447 (with News and Views)

Schmid LC, Mittag M, Poll S, Steffen J, Geis HR, Schwarz I, Schmidt B, Schwarz MK, **Remy S**, Fuhrmann M (2016). Dysfunction of somatostatin positive interneurons associated with memory deficits in an Alzheimer's disease model. **Neuron**, 92(1):114-125; Highlighted in Nature Reviews Neuroscience (Oct 2016 issue)

Müller C., **Remy S.** (2016) Slowly building excitement. **Cell**. 2016 Jun 16;165(7):1568-9.

Wagner J, Krauss S, Shi S, Ryazanov S, Steffen J, Miklitz C, Leonov A, Kleinknecht A, Göricke B, Weishaupt JH, Weckbecker D, Reiner AM, Zinth W, Levin J, Ehninger D, **Remy S**, Kretzschmar HA, Griesinger C, Giese A, Fuhrmann M. (2015) Reducing tau aggregates with anle138b delays disease progression in a mouse model of tauopathies. **Acta Neuropathol**. 2015 Nov;130(5):619-31

Fuhrmann F*, Justus D*, Sosulina L, Kaneko H, Beutel T, Friedrichs D, Schoch S, Schwarz MK, Fuhrmann M and **Remy S** . Locomotion, Theta oscillations, and the speed-correlated firing of hippocampal neurons are controlled by a medial septal glutamatergic circuit. **Neuron**, 2015 Jun 3; (IF: 15.8) Highlighted on F1000prime: 3*

Šišková, Z., Justus, D., Kaneko, H., Friedrichs, D., Henneberg, N., Beutel, T., Pitsch, J., Schoch, S., Becker, A., von der Kammer, H. and **Remy, S.** Dendritic structural degeneration is functionally linked to cellular hyperexcitability in a mouse model of Alzheimer's Disease. **Neuron**, 2014 Nov 13;

Müller C. and **Remy S.** Dendritic inhibition mediated by O-LM and bistratified interneurons in the hippocampus. **Front Synaptic Neurosci**. 2014 Sep 30;6:23.

Pothmann L, Müller C, Averkin RG, Bellistri E, Miklitz C, Uebachs M, **Remy S**, Menendez de la Prida L, Beck H. (2014) Function of inhibitory micronetworks is spared by Na⁺ channel-acting anticonvulsant drugs. **J Neurosci**. 2014 Jul 16;34(29):9720-35.

Müller, C., Beck, H., Coulter, D., **Remy, S.** Inhibitory control of linear and supralinear dendritic excitation in CA1 pyramidal neurons. **Neuron**, 2012: Highlighted on F1000prime: 2*

Krüppel, R., **Remy, S.**, Beck, H. Dendritic integration in hippocampal granule cells. **Neuron**, 2011

Park, J., **Remy, S.**, Varela, J., Cooper D., Chung, S., Spruston N. A post-burst afterdepolarization is mediated by group I metabotropic glutamate receptor-dependent upregulation of Cav2.3 R-Type calcium channels in CA1 pyramidal neurons. **PLoS Biology** 2010

Remy S, Beck H, Yaari Y. Plasticity of voltage-gated ion channels in pyramidal cell dendrites. **Curr Opin Neurobiol**. 2010 Aug;20(4):503-9. Review Article

Remy, S., Csicsvari, J., Beck, H. Activity-dependent control of neuronal output by local and global dendritic spike attenuation. **Neuron**, 2009

Remy, S. and Spruston, N. Dendritic spikes induce single-burst long-term potentiation. **Proceedings of the National Academy of Sciences PNAS** 2007 Highlighted on F1000prime: 2*

G. Lecture invitations (2012-2017)

Meeting of the Japanese Neuroscience Society, Tokyo 2017 (Session chairs: Johannes Letzkus and Hiroshi Ito)
37th Blankenese Conference 2017 (Chair: Dietmar Richter, ZMNH Hamburg) 2017
University of Innsbruck, SFB-f44 lecture (Host: J. Striessnig) 2017
Magdeburg IScaN Meeting (Org.: Thomas Wolber) 2016
Bernstein Center Freiburg 2016 Brain Disc PhD Conference Main Speaker 2016
Utrecht Summer School 2016 (C. Wierenga, C. Hoogenradt, L. Kapitein) 2016
Friedrich Miescher Institut / Biozentrum Basel (Host: Tom Mrsic-Flogel) 2016
University of Zürich (Host: Fritjof Helmchen) 2016
Massachusetts Institute of Technology McGovern Institute Spring Symposium 2016 (Org.: Mark Harnett)
Uppsala University (Host: K. Kullander, Richardson Leao) 2016
HHMI Janelia Conference Series: Hippocampal-Entorhinal Complexities (Org.: L. Giacomo, A. Lee, J. Magee)
Netherlands Institute for Neuroscience, Amsterdam, Seminar speaker, (Host: C. Lohmann) 2015
EMBL Symposium Mechanisms of Neurodegeneration (Org.: C. Haass, T. Golde, K. Dumstrei), Heidelberg, 2015
Open Source Brain, Alghero, Sardegna 2015 (Organizer: A. Silver)
Eibsee Meeting 2014 (Organizer: C. Haas, Munich)
Sainsbury Wellcome Centre for Neural Circuits, University College London (Host: John O'Keefe) 2014
FENS Forum, Symposium "Cortical inhibition", Milano, Italy, 2014
NAMASEN Training Workshop "Dendrites 2014", FORTH Heraklion, Crete (Organizer: Y. Poirazi)
IST, Institute for Science and Technology, Vienna, Austria Seminar (Host: J. Csicsvari) 2014
International Symposium "SFB 1089 - Microcircuits in health and disease", Bonn, 2014
Society for Neuroscience Annual Meeting, Workshop "From Synapses to network oscillations: High resolution recording techniques", San Diego, California 2013
Spring Hippocampal Conference 2013, Speaker and Symposium chair, Taormina, Sicily
Gordon Research Conference "Dendrites", Les Diablerets Geneva, Switzerland, 2013
HHMI Janelia Farm Research Center Seminar series, 2013
HHMI Janelia Conference Series: Dendrites Substrates of Information Processing, 2012