

**Dr. KATRIN SCHRENK-SIEMENS**



**1) General information**

Date of birth: 20 September, 1973  
Gender: Female  
Address: Heidelberg University  
Institute of Pharmacology  
Im Neuenheimer Feld 366  
69120 Heidelberg, Germany  
Phone: +49-(0)6221-548288  
Email: [katrin.schrenk-siemens@pharma.uni-heidelberg.de](mailto:katrin.schrenk-siemens@pharma.uni-heidelberg.de)  
Position: Scientist in the AG of Prof Jan Siemens  
Children: One (\* 2009)  
Parental leave, if applicable: Yes

**2) University training and degree**

1994 - 2000 Studies in Biology, Albert-Ludwig University Freiburg, Germany

**3) Advanced academic qualifications**

2005 Doctoral dissertation in Neuroscience, Mentor: Prof Yves Barde, Friedrich Miescher Institute and Novartis Institute for BioMedical Research, Basel, Switzerland

**4) Postgraduate professional career**

Since 2013 Postdoctoral Fellow, AG Prof Jan Siemens, Institute of Pharmacology, Medical Faculty of Heidelberg, Heidelberg University, Germany  
2010 - 2013 Postdoctoral Fellow, AG Prof Jan Siemens, Max-Delbrück Center for Molecular Medicine, Berlin, Germany  
2006 - 2009 Postdoctoral Fellow, AG Prof Theo Palmer, Department of Neurosurgery, Stanford University, California, USA

**5) Other: -**

**6) Publications**

**A)**

Schrenk-Siemens K, Pohle J, Rostock C, Abd El Hay M, Lam RM, Szczot M, Lu S, Chesler AT, Siemens J. Human Stem Cell-Derived TRPV1-Positive Sensory Neurons: A New Tool to Study Mechanisms of Sensitization. **Cells**;11(18):2905, 2022.

Schrenk-Siemens K. Human Pluripotent Stem Cell–Derived Sensory Neurons Sensory neurons: A New Translational Approach to Study Mechanisms of Sensitization. **Neuromethods**; Vol. 178, Rebecca Seal (Eds): Contemporary Approaches to the Study of Pain, 978-1-0716-2038-0, 475410\_1\_En, (Chapter 8), 2022.

Kamm GB, Boffi JC, Zuza K, Nencini S, Campos J, Schrenk-Siemens K, Sonntag I, Kabaoğlu B, El Hay MYA, Schwarz Y, Tappe-Theodor A, Bruns D, Acuna C, Kuner T, Siemens J. A synaptic temperature sensor for body cooling. **Neuron**; 109(20):3283-3297.e11. doi: 10.1016/j.neuron.2021.10.001. PMID: 34672983, 2021

Mittal K, Schrenk-Siemens K. Lessons from iPSC research: Insights on peripheral nerve disease. **Neurosci Lett**; 738:135358. doi: 10.1016/j.neulet.2020.135358. Epub 2020 Sep 6. PMID: 32898616, 2020.

Schrenk-Siemens K, Rosseler C, Lampert A. Translational Model Systems for Complex Sodium Channel Pathophysiology in Pain. **Handbook of Experimental Pharmacology**; 246:355-369, 2018.

Rostock C\*, Schrenk-Siemens K\*, Pohle J, Siemens J. Human vs. Mouse Nociceptors - Similarities and Differences. **Neuroscience**, 2017.

Schrenk-Siemens K, Wende H, Prato V, Song K, Rostock C, Loewer A, Utikal J, Lewin GR, Lechner SG, Siemens J. PIEZO2 is required for mechanotransduction in human stem cell-derived touch receptors. **Nature Neuroscience**;18(1):10-16, 2015.

Hanack C, Moroni M, Lima WC, Wende H, Kirchner M, Adelfinger L, Schrenk-Siemens K, Tappe-Theodor A, Wetzel C, Kuich PH, Gassmann M, Roggenkamp D, Bettler B, Lewin GR, Selbach M, Siemens J. GABA blocks pathological but not acute TRPV1 pain signals. **Cell**; 160(4):759-770, 2015.

Schrenk-Siemens K, Perez-Alcala S, Richter J, Lacroix E, Rahuel J, Korte M, Muller U, Barde YA, Bibel M. Embryonic stem cell-derived neurons as a cellular system to study gene function: lack of amyloid precursor proteins APP and APLP2 leads to defective synaptic transmission. **Stem cells**; 26(8):2153-2163, 2008.

Bibel M, Richter J, Schrenk K, Tucker KL, Staiger V, Korte M, Goetz M, Barde YA. Differentiation of mouse embryonic stem cells into a defined neuronal lineage. **Nature Neuroscience**; 7(9):1003-1009, 2004.

\* Equally contributing authors

**B) other publications:** -

**C) Patents:** -