

Prof. Dr. JAN SIEMENS**1) General information**

Date of birth: 27 January, 1973
 Gender: Male
 Address: Heidelberg University
 Institute of Pharmacology
 Section of Pharmaceutical Pharmacology
 Im Neuenheimer Feld 366
 69120 Heidelberg
 Germany
 Phone: +49-(0)6221-548287
 Email: jan.siemens@pharma.uni-heidelberg.de
 Position: Professor for Pharmacology & Toxicology (W3),
 Research group leader
 Children: One (* 2009)
 Parental leave, if applicable: None

2) University training and degree

1999 - 2000 Diploma Thesis
 Institute for Diabetes Research
 Eberhard-Karls-Universität, Tübingen, Germany
 1994 - 1999 B.S. in Biochemistry (Diplom Biochemist)
 J. W. Goethe-Universität, Frankfurt am Main, Germany

3) Advanced academic qualifications

2000 - 2004 Graduate student
 Friedrich-Miescher Institute (FMI) in Basel, Switzerland
 (Lab relocated to Scripps Research Institute in San Diego, CA in 2003)
 Advisor: Dr. U. Müller
 Advisor: Dr. Reiner Lammers (Director: Dr. Ulrich Haering)
 2004 Ph.D. in Neuroscience Graduate Program of the Friedrich Miescher Institute in
 Basel, Switzerland. Honors: Summa Cum Laude

4) Postgraduate professional career

2013 Professor, Department of Pharmacology, Heidelberg University
 2009 - 2013 Research Group Leader and Neuroscience Lectures at the Max Delbrueck
 Center in Berlin, Germany
 2005 - 2009 Postdoctoral Fellow and Research Mentor of several rotation students and
 graduate students, Postdoctoral Teaching Fellow (2007), departments of
 Physiology and Cellular & Molecular Pharmacology, University of California,
 San Francisco, Advisor: Dr. David Julius

5) Other

Awards and honours:

2018	ERC Consolidator Grant (European Research Council)
2017	Phoenix Pharmazie Wissenschaftspreis
2015	Galenus-von-Pergamon Preis
2011	ERC Starting Grant (European Research Council)
2009	Career Development Award (Human Frontier Science Program - HFSP)
2008	Sofja Kovalevskaja Award (Alexander von Humboldt Foundation - BMBF)
2008	K99/R00 Pathway to Independence Award (NIH) (I declined the award due to my relocation to the MDC in Berlin, Germany in 2009)
2007	Sandler Postdoctoral Research Award
2006	Postdoctoral Fellowship, Human Frontier Science Program Organization (HFSP)
2005	Postdoctoral Fellowship, Swiss National Research Foundation and the Novartis Research Foundation
2004	Most outstanding Ph.D. Thesis-Award selected by the Faculty for Natural Sciences (Philosophisch-Naturwissenschaftliche Fakultät II), University of Basel, Switzerland
2001	Ph.D. fellowship from the Boehringer Ingelheim Fonds, Germany

Panels and coordinating functions:

2019	Associate Dean of Research of the Medical Faculty, Heidelberg University
2013	Faculty member of the Molecular Medical Partnership Unit (MMPU), a joint research venture between EMBL and the Heidelberg University Clinic (www.embl.de/mmpu/)

6) Publications

A)

- Schrenk-Siemens K, Pohle J, Rostock C, Abd El Hay M, Lam R M, Szczot M, Lu S, Chesler A T & Siemens J. Human Stem Cell-Derived TRPV1-Positive Sensory Neurons: A New Tool to Study Mechanisms of Sensitization. **Cells** 2022; 11(2905):1-27.
- Kamm G B, Boffi J C, Zuza K, Nencini S, Campos J, Schrenk-Siemens K, Sonntag I, Kabaglou B, Abd El Hay M Y, Schwarz Y, Tappe-Theodor A, Bruns D, Acuna C, Kuner T & Siemens J. A synaptic temperature sensor for body cooling. **Neuron**; 109:3283-3297, 2021.
- Rostock C, Schrenk-Siemens K, Pohle J and Siemens J. Human vs. Mouse Nociceptors - Similarities and Differences. **Neuroscience**; 387, 13-27, 2018.
- Song K, Wang H, Kamm GB, Pohle J, Reis FC, Heppenstall P, Wende H, Siemens J. The TRPM2 channel is a hypothalamic heat sensor that limits fever and can drive hypothermia. **Science**; 353(6306):1393-1398, 2016.
- 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.

Bohlen CJ, Priel A, Zhou S, King D, Siemens J**, Julius D**. A bivalent tarantula toxin activates the capsaicin receptor, TRPV1, by targeting the outer pore domain. **Cell**; 141(5):834-845, 2010.

Bautista DM*, Siemens J*, Glazer JM*, Tsuruda PR, Basbaum AI, Stucky CL, Jordt SE, Julius D. The menthol receptor TRPM8 is the principal detector of environmental cold. **Nature**; 448(7150):204-208, 2007.

Siemens J, Zhou S, Piskorowski R, Nikai T, Lumpkin EA, Basbaum AI, King D, Julius D. Spider toxins activate the capsaicin receptor to produce inflammatory pain. **Nature**; 444(7116):208-212, 2006.

* Equally contributing authors

** Corresponding authors

B) other publications: -

Marty-Lombardi S, Lu S, Ambroziak W, Wende H, Schrenk-Siemens K, DePaoli-Roach A A, Hagenstom A M, Tappe-Theodor A, Simonetti M, Kuner R, Fleming T & Siemens J. Neuron-astrocyte metabolic coupling facilitates spinal plasticity and maintenance of persistent pain. **bioRxiv** 2022; DOI: <https://doi.org/10.1101/2022.12.03.518519>, also in revision at **Nature Metabolism**

C) Patents: -