

**Prof. Dr. ROHINI KUNER****1) General information**

Date of birth: 28 July, 1970  
 Gender: Female  
 Address: Heidelberg University  
 Institute of Pharmacology  
 Im Neuenheimer Feld 366  
 69120 Heidelberg, Germany  
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 Position: Professor for Pharmacology & Toxicology  
 (W3),  
 Chair of the Department of Molecular Pharmacology,  
 Director of the Institute of Pharmacology  
 Children: Two (\* 2001, \* 2007)  
 Parental leave, if applicable: None

**2) University training and degree**

1987 - 1991 Studies in Pharmaceutical Sciences, University of Bombay, India

**3) Advanced academic qualifications**

2005 Habilitation and Venia legendi in Pharmacology and Toxicology, Mentor: Prof. Dr. Stefan Offermanns, Heidelberg University, Germany  
 1994 Doctoral dissertation in Pharmacology, Mentor: Prof. Gerald Gebhart, Dept. of Pharmacology, College of Medicine, University of Iowa, Iowa City, USA

**4) Postgraduate professional career**

Since 2009 Institute Director, Institute of Pharmacology, Medical Faculty of Heidelberg, Heidelberg University, Germany  
 Since 2009 Chair of the Department of Molecular Pharmacology  
 Since 2006 W3 (Full) Professor for Pharmacology & Toxicology, Medical Faculty of Heidelberg, Heidelberg University, Germany  
 2002 - 2006 Group leader of an independent research unit established via an Emmy Noether Award from the German Research Foundation, Heidelberg  
 2000 - 2001 Postdoctoral fellow with Prof. Dr. Stefan Offermanns, Institute of Pharmacology, Heidelberg University, Germany  
 1998 - 2000 Scientist, Axaron AG, Heidelberg, Germany  
 1995 - 1998 Postdoctoral fellow with Prof. Dr. Peter H. Seeburg, Centre for Molecular Biology, Heidelberg University and Department for Molecular Neurobiology, Max-Planck Institute for Medical Research, Heidelberg, Germany

**5) Other**Awards and honours:

2019 Elected into Leopoldina, the German National Academy of Sciences

2018	Phoenix Pharma prize for Pharmacology
2018	Feldberg Prize, awarded for fostering Anglo-German research exchange
2017	Novartis Prize for therapy-relevant research
2017	Heidelberg Molecular Life Sciences Award
2016, 2014	Research Prize of Heidelberg University
2015	Elected into 'Academia Europea', Academy of Europe
2011	ERC Advanced Investigator Grant Award of the European Research Council (2012-2017)
2010	Pat Wall International Young Investigator Award of the International Association for the Study of Pain
2007	Ingrid zu Solms Award for Medicine of the Ingrid zu Solms Foundation
2007	1st Prize for Basic Pain Research, German Society for the Study of Pain (DGSS)
2006	Bergius-Kuhn-Meyerhof Young Scientist Prize of the Rotary Club Heidelberg
2006	Chica and Heinz Schaller Research Award

Panels and coordinating functions:

Since 2021	Member of the Board of Directors of the Feldberg Foundation
Since 2021	Member of the Scientific Advisory Board, Institute of Psychiatry and Neuroscience of Paris
Since 2020	Advisor to ALBA Network for Diversity and Equity in Brain Science
Since 2018	Member of the University Council of Heidelberg University
Since 2015	Spokesperson of the Heidelberg Pain Consortium, funded as the DFG Collaborative Research Center 1158 'Structure-function properties of neural pathways underlying acute and chronic pain and their reorganization'
Since 2016	Chairperson of the Board of Directors of the Chica and Heinz Schaller Foundation for Biomedical Research
2015-2016	Chairperson of the international task force 'Research Consortia' of the International Association for the Study of Pain
Since 2014	Steering Committee member for the DFG Collaborative Research Center 1118 (Diabetic late complications)
Since 2013	Scientific Director of the Interdisciplinary Neurobehavioural Core Facility, Heidelberg
2010 - 2018	Coordinator of Research Area C and Steering Committee member of the DFG Excellence Cluster 'CellNetworks'

Reviewing Boards:

2018 - 2020	Chairperson of the Neuroscience Panel of Starting Investigator grants of the European Research Council (ERC)
2013 - 2020	Jury panel member for ERC Starting Investigator grants
2013 - 2019	Member of the Study Section panel 'Neurosciences' and the 'Emmy Noether Panel' of the German Research Foundation Several Ad-hoc reviewing boards for the MRC (UK), ANR (France), DFG (Germany), BrainCanada (Canada), Ireland Science Foundation and Cancer Research UK

Editorial boards:

Since 2021	Member of Board of Directors at Handbook of Experimental Pharmacology
Since 2020	Reviewing Editor at Elife
2018 - 2021	Section Editor at 'Physiological Reviews'
Since 2016	Associate Editor at 'Neurobiology of Pain'
2015 - 2018	Section Editor at 'Neuroscience', the flagship journal of the International Brain Research Organisation (IBRO)
Since 2015	Associate Editor at 'Journal of Neuroscience', the flagship journal of the Society for Neuroscience (SFN)
2013 - 2018	Section Editor at 'Pain', the flagship journal of the International Association for the Study of Pain (IASP)
Since 2012	Editorial Board member, 'Molecular Pain'
2012 - 2015	Scientific Advisory Board member, Pain Research Forum
2011 - 2014	Associate Editor, 'European Journal of Neuroscience', the flagship journal of the Federation of European Neurosciences (FENS)
Since 2011	Editorial Board member, 'The Open Pain Journal'
2010 - 2012	Associate Editor, 'The Journal of Pharmacology and Experimental Therapeutics'

## 6) Publications

### A)

Gan Z, Gangadharan V, Liu S, Körber C, Tan LL, Li H, Oswald MJ, Kang J, Martin-Cortecero J, Männich D, Groh A, Kuner T, Wieland S, Kuner R. Layer-specific pain relief pathways originating from primary motor cortex. **Science**; 378(6626):1336-1343, 2022.

Gangadharan G, Zheng H, Taberner FJ, Landry J, Nee TA, Pistollic J, Agarwal A, Männich D, Benes V, Helmstaedter M, Ommer B, Lechner SG, Kuner T and Kuner R. Neuropathic pain caused by mis-wiring and abnormal end organ targeting. **Nature**; 606, 137–145, 2022.

Agarwal N, Taberner FJ, Rangel Rojas D, Moroni M, Omberbasic D, Njoo C, Andrieux A, Gupta P, Bali KK, Herpel E, Faghihi F, Fleming T, Dejean A, Lechner SG, Nawroth PP, Lewin GR, Kuner R. SUMOylation of Enzymes and Ion Channels in Sensory Neurons Protects against Metabolic Dysfunction, Neuropathy, and Sensory Loss in Diabetes. **Neuron**; 107(6):1141-1159.e7, 2020.

Tan LL, Pelzer P, Heintz C, Tang W, Gangadharan V, Flor H, Sprengel R, Kuner T, Kuner R. A pathway from midcingulate cortex to posterior insula gates nociceptive hypersensitivity. **Nature Neuroscience**; 20(11):1591-1601, 2017.

Vicuna L, Strohlic DE, Latremoliere A, Bali KK, Simonetti M, Husainie D, Prokosch S, Riva P, Griffin RS, Njoo C, Gehrig S, Mall MA, Arnold B, Devor M, Woolf CJ, Liberles SD, Costigan M, Kuner R. The serine protease inhibitor SerpinA3N attenuates neuropathic pain by inhibiting T cell-derived leukocyte elastase. **Nature Medicine**; 21(5):518-523, 2015.

Selvaraj D, Gangadharan V, Michalski CW, Kurejova M, Stösser S, Srivastava K, Schweizerhof M, Waltenberger J, Ferrara N, Heppenstall P, Shibuya M, Augustin HG, Kuner R. 1. A functional role for VEGFR1 expressed in peripheral sensory neurons in cancer pain. **Cancer Cell**; 27:780-96, 2015.

Schweizerhof M, Stosser S, Kurejova M, Njoo C, Gangadharan V, Agarwal N, Schmelz M, Bali KK, Michalski CW, Brugger S, Dickenson A, Simone DA, Kuner R. Hematopoietic colony-stimulating factors mediate tumor-nerve interactions and bone cancer pain. **Nature Medicine**; 15(7):802-807, 2009.

Agarwal N, Pacher P, Tegeder I, Amaya F, Constantin CE, Brenner GJ, Rubino T, Michalski CW, Marsicano G, Monory K, Mackie K, Marian C, Batkai S, Parolaro D, Fischer MJ, Reeh P, Kunos G, Kress M, Lutz B, Woolf CJ, Kuner R. Cannabinoids mediate analgesia largely via peripheral type 1 cannabinoid receptors in nociceptors. **Nature Neuroscience**; 10(7):870-879, 2007.

Tappe A, Klugmann M, Luo C, Hirlinger D, Agarwal N, Benrath J, Ehrenguber MU, During MJ, Kuner R. Synaptic scaffolding protein Homer1a protects against chronic inflammatory pain. **Nature Medicine**; 12(6):677-681, 2006.

Kuner R, Kohr G, Grunewald S, Eisenhardt G, Bach A, Kornau HC. Role of heteromer formation in GABAB receptor function. **Science**; 283(5398):74-77, 1999.

**B) other publications:** -

**C) Patents:**

Granted:

- WO/2001/081623 (PCT/EP2001/004311) - Neuronally expressed protein having apoptotic activity and use thereof
- 20080182314 (US Patent 7361502) - Neuronal serine threonine protein kinase