

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

Date of birth: 07 October, 1965
 Gender: Male
 Address: Heidelberg University
 Institute of Anatomy and Cell Biology
 Department of Functional Neuroanatomy
 Im Neuenheimer Feld 307
 69120 Heidelberg, Germany
 Phone: +49-(0)6221-548678
 Email: thomas.kuner@uni-heidelberg.de
 Position: Professor (W3), Chair of the Department of Functional Neuroanatomy,
 Director of the Institute of Anatomy and Cell Biology
 Children: Two (* 2001, * 2007)
 Parental leave, if applicable: None

2) University training and degree

1988 - 1998 Studies of Medicine at Heidelberg University

3) Advanced academic qualifications

2003 Habilitation and Venia legendi in Physiology, Heidelberg University (Mentor:
 Prof. Dr. B. Sakmann)
 1998 Doctoral dissertation, M.D., Heidelberg University (Mentor: Prof. Dr. P. H.
 Seeburg)

4) Postgraduate professional career

Since 2022 Institute Director, Institute of Anatomy and Cell Biology
 Since 2012 Chair, Department of Functional Neuroanatomy, Medical Faculty Heidelberg,
 Heidelberg University
 2006 - 2012 W3 (Full) Professor at the Department of Medical Cell Biology, Medical
 Faculty Heidelberg, Heidelberg University
 2000 - 2006 Group leader, Max Planck Institute for Medical Research, Heidelberg
 1998 - 2000 Postdoctoral fellow, Duke University Medical Center, Durham, and
 Marine Biological Laboratory, Woods Hole, (Prof. George J. Augustine)

5) OtherAwards and honours:

2014 Heidelberg University Annual Price for Exceptional Achievements
 2012 - 2013 Fellow of the Marsilius Kolleg for Interdisciplinary Studies
 2003 - 2006 WIN-Kollegiat of the Heidelberg Academy of Sciences
 2000 - 2003 Habilitation Fellowship of the Claussen-Simon Foundation
 2000 Grass Fellowship in Neurosciences
 1999 - 2000 Human Frontiers in Science Program Long-Term Fellowship

1998 - 1999 Feodor-Lynen Fellow of the Alexander von Humboldt Foundation
1989 - 1994 Fellowship by the German National Fellowship Foundation

Panels and coordinating functions:

Since 2016 Chair of the steering committee of the electron microscopy core facility.
Since 2015 Steering Committee member for the DFG CRC 1158 (Chronic Pain).
Since 2012 Member of the Habilitation Commission, Medical Faculty.
Since 2010 Member of the Research Commission, Medical Faculty.
2003 - 2006 Speaker of the WIN-Kolleg of the Heidelberg Academy of Sciences

6) Publications

A)

- Gangadharan, V., H. Zheng, F.J. Taberner, J. Landry, T.A. Nees, J. Pistolic, N. Agarwal, D. Männich, V. Benes, M. Helmstaedter, B. Ommer, S.G. Lechner, T. Kuner, and R. Kuner. Neuropathic pain caused by miswiring and abnormal end organ targeting. **Nature**; 606, 137–145, 2022.
- Venkataramani, V., Y. Yang, M.C. Schubert, E. Reyhan, S.K. Tetzlaff, N. Wißmann, M. Botz, S.J. Soyka, C.A. Beretta, R.L. Pramatarov, L. Fankhauser, L. Garofano, A. Freudenberg, J. Wagner, D.I. Tanev, M. Ratliff, R. Xie, T. Kessler, D.C. Hoffmann, L. Hai, Y. Dörfinger, S. Hoppe, Y.A. Yabo, A. Golebiewska, S.P. Niclou, F. Sahm, A. Lasorella, M. Slowik, L. Döring, A. Iavarone, W. Wick, T. Kuner*, and F. Winkler*. 2022. Glioblastoma hijacks neuronal mechanisms for brain invasion. **Cell**. 185:2899-2917.e31. doi:10.
- Klevanski, M., Herrmannsdörfer, F., Sass, S., Venkataramani, V., Heilemann, M. Kuner, T. Automated highly multiplexed super-resolution imaging of protein nano-architecture in cells and tissues. **Nature Communications**; 11:1552, 2020.
- Venkataramani, V., Tanev, D., Strahle, C., Studier-Fischer, A., Fankhauser, L., Kessler, T., Körber, C., Kardorff, M., Ratliff, M., Xie, R., Horstmann, H., Messer, M., Paik, S., Knabbe, J., Sahm, F., Kurz, F., Acikgöz, A., Herrmannsdörfer, F., Agarwal, A., Bergles, D., Chalmers, A., Miletic, H., Turcan, S., Mawrin, C., Hänggi, D., Liu, H., Wick, W., Winkler, F.* , Kuner, T.* Glutamatergic synaptic input to glioma cells drives brain tumour progression. **Nature**; 573(7775), 532-538, 2019.
- Nunes, D. and Kuner, T. (2018). Axonal sodium channel NaV1.2 drives granule cell dendritic GABA release and rapid odor discrimination. **PLoS Biology**, 16(8):e2003816.
- Venkataramani V, Herrmannsdorfer F, Heilemann M, Kuner T. SuReSim: simulating localization microscopy experiments from ground truth models. **Nature Methods**; 13(4):319-321, 2016.
- Nunes D, Kuner T. Disinhibition of olfactory bulb granule cells accelerates odour discrimination in mice. **Nature Communications**; 6:8950, 2015.
- Korber C, Horstmann H, Venkataramani V, Herrmannsdorfer F, Kremer T, Kaiser M, Schwenger DB, Ahmed S, Dean C, Dresbach T, Kuner T. Modulation of Presynaptic Release Probability by the Vertebrate-Specific Protein Mover. **Neuron**; 87(3):521-533, 2015.
- Abraham NM, Egger V, Shimshek DR, Renden R, Fukunaga I, Sprengel R, Seeburg PH,

Klugmann M, Margrie TW, Schaefer AT, Kuner T. Synaptic inhibition in the olfactory bulb accelerates odor discrimination in mice. **Neuron**; 65(3):399-411, 2010.

Kuner T, Augustine GJ. A genetically encoded ratiometric indicator for chloride: capturing chloride transients in cultured hippocampal neurons. **Neuron**; 27(3):447-459, 2000.

* Equally contributing authors

B) other publications: -

C) Patents: -

