

**PROF. DR. THOMAS KUNER**

Date of birth: 07 October, 1965  
 Gender: Male

Address: Institute of Anatomy and Cell Biology  
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 Current position: Professor (W3), Director, Department of Functional Neuroanatomy  
 Children: Two (\*2001, \* 2007)

**CURRICULUM VITAE****University education**

1988 - 1998 Studies of Medicine at Heidelberg University

**Scientific degrees**

2003 Habilitation and Venia legendi in Physiology, Heidelberg University (Prof. Dr. B. Sakmann)  
 1998 Doctoral dissertation, M.D., Subject: "Isoform-specific actions of ethanol, argiotoxin636 and Mg<sup>2+</sup> on NMDA receptors", Heidelberg University (Prof. Dr. P. H. Seeburg)

**Professional experience**

since 2012 Director, Department of Functional Neuroanatomy, Medical Faculty Heidelberg, Heidelberg University  
 2006 - 2012 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)

**Awards and honors**

2014 Heidelberg University Annual Prize 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

## Editorial boards

since 2008                      Frontiers in Molecular Neuroscience (Reviewing Editor)  
2004 - 2007                      Pflügers Archiv European Journal of Physiology (Dep. Exec. Editor)

## Memberships, panels and coordinating functions

Speaker of the WIN-Kolleg of the Heidelberg Academy of Sciences (2003-2006).  
Anatomische Gesellschaft (AG), Deutsche Physiologische Gesellschaft (DPG),  
Neurowissenschaftliche Gesellschaft (NWG), Society for Neuroscience (SfN).

## 5 most important publications

Venkataramani, V., Herrmannsdörfer, F., Heilemann, M., **Kuner, T.** (2016). *SuReSim – Simulating localization microscopy experiments from ground truth models.* Nature Methods, 13:319-21.

Körber, C., Horstmann, H., Venkatamarani, V., Herrmannsdörfer, Kremer, T., Kaiser, M., Schwenger, D.B., Ahmed, S., Dean, C., Dresbach, T. & **Kuner, T.** (2015). *Modulation of Presynaptic Release Probability by the Vertebrate-Specific Protein Mover.* Neuron 87, 521-533.

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 2010;65:399-411.

**Kuner T,** Augustine GJ. A genetically encoded ratiometric indicator for chloride: capturing chloride transients in hippocampal neurons. Neuron 2000;27:447-59.

**Kuner T,** Wollmuth LP, Karlin A, Seeburg PH, Sakmann B. Structure of the NMDA receptor channel M2 segment inferred from the accessibility of substituted cysteines. Neuron 1996;17:343-52.