

Thomas Klausberger - CV

Personal Data

Date of Birth: July 10, 1974
Place of Birth: Eisenstadt, Austria
Nationality: Austria

Education

1984 -1992 secondary school: Bundesgymnasium Mattersburg, Austria
1992 - 1998 study of Biochemistry at the University of Vienna, Austria
1998 - 2000 PhD studies in the lab of Prof. Werner Sieghart at the Institute for Brain Research, Univ. Vienna, Austria

Career History

2001- 2002 Erwin-Schroedinger Fellow in the lab of Prof. Peter Somogyi at the MRC Anatomical Neuropharmacology Unit, Oxford Univ., UK
2001 Visiting Fellow in the lab of Prof. Gyorgy Buzsaki, Rutgers University, Newark, USA
2002 – 2003 MRC Research Scientist in the lab of Prof. Peter Somogyi at the MRC Anatomical Neuropharmacology Unit, Oxford University
2003 - 2007 Honorary research grant holder (FWF) at the Center for Brain Research, Medical Univ. Vienna, Austria
2003 - 2006 MRC Investigator Scientist at the MRC Anatomical Neuropharmacology Unit, Oxford University, UK
2006 - 2009 MRC Senior Scientist at the MRC Anatomical Neuropharmacology Unit, Oxford University, UK
from 1.10.2009 Professor in Cognitive Neurobiology, Center for Brain Research, Medical Univ. Vienna, Austria

Awards

2001 Erwin-Schroedinger Fellowship of the Austrian Science Fund
2005 "Otto Loewi Prize" sponsored by GlaxoSmithKline and awarded by the Austrian Neuroscience Association
2005 Krieg Cortical Explorer Award awarded by the Cajal Club at the SFN2005 meeting in Washington DC
2007 Otto-Kraupp Prize for the best habilitation at an Austrian medical university in 2006, sponsored by Sanofi-Aventis
2008 C.J. Herrick Award received at the American Association of Anatomists meeting 2008 in San Diego
2008 EJNI Young Investigator Award received at the FENS 2008 meeting in

Geneva

Publications

17 original publications, 2 reviews, 35 invited international lectures

Teaching activities (PhD students of the last 5 years outside of CCHD)

Name of the student	Sex	Research topic	Title of the thesis	No of publications
John Tukker	M	Neuronal	Temporal organisation of theta, gamma and ripple oscillations across the CA1 and CA3 hippocampus	1
Katja Hartwich	F	Neuronal	Firing patterns of basket and dendrite-targeting interneurons of the medial prefrontal cortex during theta and spindle oscillations	1
Lema Massi	F	Neuronal	Spike timing of identified interneurons of the medial prefrontal cortex in vivo	0

Externally funded national and international projects (last 5 years)

Funding organisation	project No.	Research topic of the project	Amount in k€
FWF	P16637	Hippocampal interneurons and network oscillations	241
MRC	MRC ANU prog. grant 2	Spike timing in identified neuronal circuits of the medial prefrontal cortex	1245
WWTF	SCIC03	Endowment Professorship in Cognitive Neurobiology	1500

10 most relevant papers of the last 5 years

Klausberger T, Magill PJ, Márton LF, Roberts JDB, Cobden PM, Buzsáki G, Somogyi P (2003) Brain state- and cell type-specific firing of hippocampal interneurons in vivo. *Nature* **421**:844-848.

Klausberger T, Márton LF, Baude A, Roberts JDB, Magill PJ, Somogyi P (2004) Spike timing of dendrite-targeting bistratified cells during hippocampal network oscillations in vivo. *Nat. Neurosci* **7**:41-47.

Somogyi P, **Klausberger T** (2005) Defined types of cortical interneuron structure space and spike timing in the hippocampus. *J Physiol* **562**:9-26.

Klausberger T, Marton LF, O'Neill J, Huck JHJ, Dalezios Y, Fuentealba P, Suen WY, Papp E, Kaneko T, Watanabe M, Csicsvari J, Somogyi P (2005) Complementary roles of cholecystinin and parvalbumin expressing GABAergic neurons in hippocampal network oscillations. *J Neurosci* **25**:9782-9793.

Baude A, Bleasdale C, Dalezios Y, Somogyi P, **Klausberger T** (2007) Immunoreactivity for the GABA_A receptor α 1 subunit, somatostatin and connexin36 distinguishes axo-axonic, basket and bistratified interneurons of the rat hippocampus. *Cereb Cortex* **17**:2094-2107.

Jinno S, **Klausberger T**, Marton LF, Dalezios Y, Roberts JDB, Fuentealba P, Bushong EA, Henze D, Buzsáki G, Somogyi P (2007) Neuronal diversity in GABAergic Long-range Projections from the Hippocampus. *J Neurosci* **27**:8790-8804.

Tukker J, Fuentealba P, Hartwich K, Somogyi P, **Klausberger T** (2007) Cell type-specific tuning of hippocampal interneuron firing during gamma oscillations in vivo. *J Neurosci* **27**:8184-8189.

Fuentealba P, Begum R, Capogna M, Jinno S, Márton LF, Csicsvari J, Thomson A, Somogyi P, **Klausberger T** (2008) Ivy cells: a population of nitric-oxide-producing, slow-spiking GABAergic neurons and their involvement in hippocampal network activity. *Neuron* **57**:917-929.

Klausberger T, Somogyi P (2008) Review: Neuronal diversity and temporal dynamics: the unity of hippocampal circuit operations. *Science* **321**:53-57.

Fuentealba P, Tomioka R, Dalezios Y, Marton L, Studer M, Rockland K, **Klausberger T**, Somogyi P (2008) Rhythmically active enkephalin-expressing GABAergic cells in the CA1 area of the hippocampus project to the subiculum and preferentially innervate interneurons. *J Neurosci* **28**:10017-10022.

Additional References

Klausberger T, Roberts JDB, Somogyi P (2002) Cell type and input specific differences in the number and subtypes of synaptic GABA_A receptors in the hippocampus. *J Neurosci* **22**:2513-2521.

Klausberger T, Sarto I, Ehya N, Fuchs K, Furtmüller R, Mayer B, Huck S, Sieghart W (2001) Alternate use of distinct intersubunit contacts controls GABA_A receptor assembly and stoichiometry. *J Neurosci* **21**:9124-9133.