Wieland B. Huttner

Name: Wieland Bernhard HUTTNER
Date of birth: 15 February 1950 in Hanover, Germany

Research topics

1. Cell Biology, Neurobiology, Developmental Neurobiology;
2. Neural stem cells, mammalian neurogenesis, evolution of the neocortex

Link to research group homepage:
http://www.mpi-cbg.de/research/research-groups/wieland-huttner.html

University Studies

1969 - 1975	Study of medicine, University of Hamburg, Germany and Oxford, UK
1972 - 1976	Doctoral thesis in Physiological Chemistry, University of Hamburg, Germany Doctoral Thesis: *"The permissive action of glucocorticoids on the cyclic AMP-mediated induction of phosphoenolpyruvate carboxykinase in rat liver";* Institute of Physiological Chemistry, University of Hamburg;
1975 - 1976	Internship, University of Hamburg, Germany
1976	"Approbation", Licence to practice medicine
1985	Habilitation in Physiological Chemistry, University of Würzburg, Germany *"Molecular cell regulation by post-translational modifications: studies on the phosphorylation and tyrosine sulfation of proteins"*

Positions

1976 – 1977	Postdoc, MPI for Experimental Medicine, Göttingen, Germany
1977 – 1980	Postdoc with Paul Greengard (Nobel Laureate 2000), Department of Pharmacology, Yale University, New Haven, USA
1981 – 1985	Junior Group Leader, MPI for Psychiatry, Munich, Germany
1985 – 1990	Group Leader, EMBL Cell Biology Programme, Heidelberg, Germany
1987 - 1991:	Dean of Graduate Studies, EMBL PhD Programme, Heidelberg, Germany
1991 - 2000:	Professor of Neurobiology and Chair, Institute of Neurobiology, University of Heidelberg, Germany
1991 - 1999:	Speaker, SFB 317 *Molecular Biology of Neural Mechanisms and Interactions* University of Heidelberg, Germany
1992 - 2000:	Speaker, "Graduiertenkolleg" *Molecular and Cellular Neurobiology* University of Heidelberg, Germany
1998 - present:	Director, MPI of Molecular Cell Biology and Genetics, Dresden, Germany
2001 - present:	Speaker, International Max Planck Research School *IMPRS-CellDevoSys*, Dresden, Germany
2002 - present:	Honorary Professor of Neurobiology, Technische Universität Dresden, Germany
2004 - 2010:	Member of the German Council of Science and Humanities ("Wissenschaftsrat")
2009 - 2012:	Chair of the Scientific Council of the Max Planck Society

Funding:	DFG; ERC Advanced Grant
Awards:	Karl-Winnacker-Award (1985) Member of EMBO (since 1988) Member of the German National Academy of Sciences Leopoldina ("Deutsche Akademie der Naturforscher Leopoldina") (since 2002) Berthold Medal, German Society for Endocrinology (2003)

List of 10 most important publications in the last 3 years:

2015

Florio, Marta; Albert, Mareike; Taverna, Elena; Namba, Takashi; Brandl, Holger; Lewitus, Eric; Haffner, Christiane; Sykes, Alex; Wong, Fong Kuan; Peters, Jula; Guhr, E.; Klemroth, Sylvia; Prüfer, Kay; Kelso, Janet; Naumann, Ronald; Nüsslein, Ina; Dahl, Andreas; Lachmann, Robert; Pääbo, Svante; Huttner, Wieland B.
Human-specific gene ARHGAP11B promotes basal progenitor amplification and neocortex expansion.
Science (2015) March 27, Vol. 347, p. 1465-70

2014

Lewitus, Eric; Kelava, Iva; Kalinka, Alex T.; Tomancak, Pavel; Huttner, Wieland B.
An Adaptive Threshold in Mammalian Neocortical Evolution.
PLoS Biol. (2014) November 18, 12(11): e1002000. doi:10.1371/journal.pbio.1002000

Taverna, Elena; Götz, Magdalena; Huttner, Wieland B.
The cell biology of neurogenesis: toward an understanding of the development and evolution of the neocortex.
Annu. Rev. Cell Dev. Biol. (2014), June 27, Vol. 30**,** p. 465-502

Mora-Bermúdez, Felipe; Matsuzaki, Fumio; Huttner, Wieland B.
Specific polar subpopulations of astral microtubules control spindle orientation and symmetric neural stem cell division.
Elife**,** (2014) July 4, 3:eLife.02875.

Florio, Marta; Huttner, Wieland B.
Neural progenitors, neurogenesis and the evolution of the neocortex.
Development (2014), Vol. 141**,** no. 11, p. 2182-2194

Fei, Jifeng; Haffner, Christiane; Huttner, Wieland B.
3' UTR-Dependent, miR-92-Mediated Restriction of Tis21 Expression Maintains Asymmetric Neural Stem Cell Division to Ensure Proper Neocortex Size.
Cell Rep. (2014), April 24, Vol. 7**,** no. 2, p. 398-411

Stenzel, Denise; Wilsch-Bräuninger, Michaela; Wong, Fong Kuan; Heuer, Heike; Huttner, Wieland B.
Integrin αvβ3 and thyroid hormones promote expansion of progenitors in embryonic neocortex.
Development (2014), Vol. 141**,** no. 4, p. 795-806

2013

Paridaen, Judith; Wilsch-Bräuninger, Michaela; Huttner, Wieland B.
Asymmetric inheritance of centrosome-associated primary cilium membrane directs ciliogenesis after cell division.
Cell (2013), Vol. 155**,** no. 2, p. 333-344,

Lewitus, Eric; Kelava, Iva; Huttner, Wieland B.
Conical expansion of the outer subventricular zone and the role of neocortical folding in evolution and development
Front. Hum. Neurosci. (2013), August 1, Vol. 7:424

Sykes AM, Huttner WB.
Prominin-1 (CD133) and the Cell Biology of Neural Progenitors and Their Progeny
Adv Exp Med Biol. (2013), Vol. 777, p. 89-98