



**Jan Born**  
*Director*

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### ***Education/Training***

1976-1977      General studies, Leibniz-Kolleg, Tübingen  
  
1976-1980      Study of Psychology, Mathematics, Medicine (preclinical), Universities of  
Tübingen/Ulm  
1980-1981      Research Fellow, Dept. Biological Psychology, SUNY at Stony Brook, USA  
  
1982-1985      PhD (Psychology), Dept. Physiological Psychology, University of Tübingen  
  
1985-1989      Postdoc, Habilitation (Physiology), Dept. Physiology, University of Ulm

### ***Academic Appointments***

1989-1999      Professor of Biological Psychology, University of Bamberg, Germany  
  
1999-2010      Professor of Neuroendocrinology (Chair of Department), University of Lübeck;  
Germany  
Since 2010      Professor of Behavioral Neuroscience (Chair of Department), University of  
Tübingen; Germany

### ***Research focus***

- Mechanisms of learning and memory
- Sleep and sleep-dependent plasticity
- Metabolic and behavioral control of body weight

### ***Major research projects*** (serving as speaker or head)

1992-1998      Clinical Research Group – Neuroendocrinology, DFG-funded  
  
2002-2005      Research Group - Memory Formation in Sleep, DFG-funded  
  
2005-2017      SFB 654 – Collaborative Research Center “Plasticity and Sleep”, DFG-funded  
  
2009-2014      Bernstein Focus – Learning, BMBF-funded

### ***Editor and reviewer function***

- since 2010 Deputy Editor – SLEEP
- since 2012 Section Editor – Neurobiology of Learning and Memory
- since 2015 Member of the European Editorial Committee – Physiological Reviews
- 2009-2015 Associate Editor – Journal of Sleep Research
- Member of various Editorial Boards – Sleep Medicine Reviews, Trends in Neuroscience and Education, Neurobiology of Sleep and Circadian Rhythms, Psychoneuroendocrinology, Psychosomatic Medicine, Frontiers in Neuroscience, etc.
  - Reviewer for all relevant organizations nationally and abroad, including the ERC (Europe), DFG, DAAD, BMBF, Volkswagenstiftung (Germany), NSF, NIH (USA), MRC, BBSCR (UK), GIF (Israel), FWF (Austria), FNRS (Belgium), SNF (Switzerland), SFI (Ireland), FRC (France), Czech Science Foundation, NWO (Netherlands) etc.
  - Reviewer for all relevant high-impact journals including: Science, Nature, Nature Reviews Neuroscience, Nature Reviews Immunology, Physiological Reviews, Nature Neuroscience, Neuron, Proceedings of the National Academy of Science USA, TiNS, TICS, Elife, PLoS Biology etc.

### ***Memberships, honors and awards***

- since 2010 Member of the German Academy of Science – Leopoldina
- since 2006 Member of the Berlin-Brandenburgische Academy of Sciences
- since 2009 Corresponding member of the Academy of Sciences in Hamburg
- since 2012 Chairman of the Stiftung Leibniz Kolleg – Tübingen
- 12/14-3/2015 Visiting Professor at the Universidad de Chile, Santiago de Chile
- 2010 Leibniz Award of the Deutsche Forschungsgemeinschaft
- 1998-2008 Speaker of the Chapter “Biological Psychology and Neuropsychology” of the German Psychological Society (Deutsche Gesellschaft für Psychologie)
- 1988 Marius Tausk-Award of the German Society for Endocrinology

### ***Supervision of graduate students and postdoctoral fellows***

During my career I have tutored the following degrees: Diploma/Masters theses, MD and PhD theses, and postdocs/Habilitation

- current PhD students: Carlos Oyanedel, Jingyi Wang, Anuck Sawangjit, Nils Niethardt, Fredrick Weber, Albrecht Vorster, Elaina Bolinger, Christine Barner, Nikolas Luz, Maria Paz Gonzales, Marjan Alizadeh-Asfestani, Ernesto Duran (>20 completed PhDs)
- current postdocs: Hannes Noack, Katharina Zinke, Marion Inostroza, Susanne Diekelmann, Luciana Besedovsky, Gordon Feld, Hong-Viet Ngo, Til Ole Bergmann, Karsten Raus
- former lab members who obtained a professorship: Prof. Dr. Reinhard Pietrowsky, Prof. Dr. Ernst Späth-Schwalbe, Prof. Dr. Werner Kern, Prof. Dr. Boris Perras, Prof. Dr. Lisa Marshall, Prof. Dr. Manfred Hallschmid, Prof. Dr. Björn Rasch, Prof. Dr. Steffen Gais
- Members of my lab received more than 15 Young Scientist Awards

### ***Teaching activities***

since 1985 regular teaching in different curricula

- Physiology – lectures, seminars, practical courses for students of Medicine
  - Biological Psychology – lectures, seminars and practical courses for students of Psychology
  - Behavioral Neuroscience – lectures, seminars for graduate Neuroscience students
  - additional teaching at numerous international training programs (summer, winter schools etc.).
- since 2015 member of the Control Commission of the German State Medical Examination (IMPP)

### **Key publications (10 selected)**

1. Dudai Y, Karni A, **Born J** (2015) The consolidation and transformation of memory. *Neuron* 88: 20-32.
2. Westermann J, Lange T, Textor J, **Born J** (2015) System consolidation during sleep – a common principle underlying psychological and immunological memory formation *Trends Neurosci* 38:585-97.
3. Ngo HV, Martinetz T, **Born J**, Mölle M (2013) Auditory closed-loop stimulation of the sleep slow oscillation enhances memory. *Neuron* 78:545-53.
4. Rasch B, **Born J** (2013) About sleep's role in memory. *Physiol Rev* 93: 681-766.
5. Inostroza M, **Born J** (2013) Sleep for preserving and transforming episodic memory. *Ann Rev Neurosci* 8: 79-102.
6. Wilhelm I, Rose M, Imhof KI, Rasch B, Büchel C, **Born J** (2013) The sleeping child outplays the adults' capacity to convert implicit into explicit knowledge. *Nat Neurosci* 16: 391-3.
7. Diekelmann S, **Born J** (2010) The memory function of sleep. *Nat Rev Neurosci* 11: 114-26.
8. Rasch B, Pommer J, Diekelmann S, **Born J** (2009) Pharmacological REM sleep suppression paradoxically improves rather than impairs skill memory. *Nat Neurosci* 12:396-7.
9. Rasch B, Büchel C, Gais S, **Born J** (2007) Odor cues during slow wave sleep prompt declarative memory consolidation. *Science* 315: 1426-9.
10. Marshall L, Helgadóttir H, Mölle M, **Born J**. (2006) Boosting slow oscillations during sleep potentiates memory. *Nature* 444: 610-3.