

Victor Tarabykin

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Curriculum vitae

- since 2009 Acting Director, Institute of Cell Biology and Neurobiology, Center of Anatomy, Charité
- since 2009 Vice-Speaker, Collaborative Research Center (SFB) 665, "Developmental Disturbances in the Nervous System"
- since 2009 Heisenberg Professor (W3) for Cellular and Neurobiology, Charité
- 2008 – 2009 Heisenberg independent group leader, Max Planck Institute of Experimental Medicine, Göttingen
- 2002 – 2007 Group leader, Department of Molecular Biology of Neuronal Signals, Max Planck Institute of Experimental Medicine, Göttingen
- 1996 – 2001 Postdoctoral fellow (Advisor: Prof. P. Gruss), Department Molecular and Cell Biology, Max Planck Institute of Biophysical Chemistry, Göttingen
- 1993 – 1995 PhD thesis (Advisor: Prof. Dr. S. Lukyanov), Institute of Bioorganic Chemistry, Moscow
- 1984 – 1993 Studies in Medicine and Biology, Russian State Medical University, Moscow

Research fields

Our group is active in the field of cerebral cortex development with the following major areas:

- Molecular control of cell fate specification
- Cell type specific axon navigation
- Neuronal migration
- Chromatin remodeling and epigenetic control of cell differentiation

Activities in the scientific community, honors, awards

- 2008 Heisenberg fellowship
- 1997 EMBO postdoctoral fellowship
- 1996 Max Planck postdoctoral fellowship
- 1995 FEBS postdoctoral fellowship

Selected publications

Yamagishi, S, Hampel, F, Hata, K, Del Toro, D, Schwark, M, Kvachnina, E, Bastmeyer, M, Yamashita, T, Tarabykin, V, Klein, R and Egea, J. FLRT2 and FLRT3 act as repulsive guidance cues for Unc5-positive neurons. *EMBO J.* 2011

Karalay, O, Doberauer, K, Vadodaria, KC, Knobloch, M, Berti, L, Miquelajauregui, A, Schwark, M, Jagasia, R, Taketo, MM, Tarabykin, V, Lie, DC and Jessberger, S. Prospero-related homeobox 1 gene (Prox1) is regulated by canonical Wnt signaling and has a stage-specific role in adult hippocampal neurogenesis. *Proc Natl Acad Sci U S A.* 2011; 108, 5807-12.

Seuntjens, E, Nityanandam, A, Miquelajauregui, A, Debruyne, J, Stryjewska, A, Goebbels, S, Nave, KA, Huylebroeck, D and Tarabykin, V. Sip1 regulates sequential fate decisions by feedback signaling from postmitotic neurons to progenitors. *Nat Neurosci.* 2009; 12, 1373-80.

Pinto, L, Drechsel, D, Schmid, MT, Ninkovic, J, Irmeler, M, Brill, MS, Restani, L, Gianfranceschi, L, Cerri, C, Weber, SN, Tarabykin, V, Baer, K, Guillemot, F, Beckers, J, Zecevic, N, Dehay, C, Caleo, M, Schorle, H and Gotz, M. AP2gamma regulates basal progenitor fate in a region- and layer-specific manner in the developing cortex. *Nat Neurosci.* 2009; 12, 1229-37.

Britanova, O, de Juan Romero, C, Cheung, A, Kwan, KY, Schwark, M, Gyorgy, A, Vogel, T, Akopov, S, Mitkovski, M, Agoston, D, Sestan, N, Molnar, Z and Tarabykin, V. *Satb2* is a postmitotic determinant for upper-layer neuron specification in the neocortex. *Neuron.* 2008; 57, 378-92.

Miquelajauregui, A, Van de Putte, T, Polyakov, A, Nityanandam, A, Boppana, S, Seuntjens, E, Karabinos, A, Higashi, Y, Huylebroeck, D and Tarabykin, V. Smad-interacting protein-1 (Zfhx1b) acts upstream of Wnt signaling in the mouse hippocampus and controls its formation. *Proc Natl Acad Sci U S A.* 2007; 104, 12919-24.

Britanova, O, Depew, MJ, Schwark, M, Thomas, BL, Miletich, I, Sharpe, P and Tarabykin, V. *Satb2* haploinsufficiency phenocopies 2q32-q33 deletions, whereas loss suggests a fundamental role in the coordination of jaw development. *Am J Hum Genet.* 2006; 79, 668-78.

Britanova, O, Alifragis, P, Junek, S, Jones, K, Gruss, P and Tarabykin, V. A novel mode of tangential migration of cortical projection neurons. *Dev Biol.* 2006; 298, 299-311.

Britanova, O, Akopov, S, Lukyanov, S, Gruss, P and Tarabykin, V. Novel transcription factor *Satb2* interacts with matrix attachment region DNA elements in a tissue-specific manner and demonstrates cell-type-dependent expression in the developing mouse CNS. *Eur J Neurosci.* 2005; 21, 658-68.

Tarabykin, V, Stoykova, A, Usman, N and Gruss, P. Cortical upper layer neurons derive from the subventricular zone as indicated by *Svet1* gene expression. *Development.* 2001; 128, 1983-93.