

Victor Tarabykin

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Institute of Cell Biology and Neurobiology
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Curriculum vitae

since 2014	Tenured Professor (W3) for Cellular Biology and Neurobiology, Charité
since 2009	Acting Director, Institute of Cell Biology and Neurobiology, Center for Anatomy, Charité
2009 - 2013	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 of Molecular 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

2009 - 2013	DFG Heisenberg professorship
2008	DFG Heisenberg fellowship
1997	EMBO postdoctoral fellowship
1996	Max Planck postdoctoral fellowship
1995	FEBS postdoctoral fellowship

Selected publications

Srivatsa S, Parthasarathy S, Molnar Z, Tarabykin V. Sip1 downstream Effector ninein controls neocortical axonal growth, ipsilateral branching, and microtubule growth and stability. *Neuron*. 2015;85(5):998-1012.

Srivatsa S, Parthasarathy S, Britanova O, Bormuth I, Donahoo AL, Ackerman SL, Richards LJ, Tarabykin V. Unc5C and DCC act downstream of Ctip2 and Satb2 and contribute to corpus callosum formation. *Nat Commun.* 2014;5:3708.

Parthasarathy S, Srivatsa S, Nityanandam A, Tarabykin V. Ntf3 acts downstream of Sip1 in cortical postmitotic neurons to control progenitor cell fate through feedback signaling. *Development.* 2014;141(17):3324-30.

Bormuth I, Yan K, Yonemasu T, Gummert M, Zhang M, Wichert S, Grishina O, Pieper A, Zhang W, Goebbels S, Tarabykin V, Nave KA, Schwab MH. Neuronal basic helix-loop-helix proteins Neurod2/6 regulate cortical commissure formation before midline interactions. *J Neurosci.* 2013;33(2):641-51.

Rosario M, Schuster S, Juttner R, Parthasarathy S, Tarabykin V, Birchmeier W. Neocortical dendritic complexity is controlled during development by NIMA-GAP-dependent inhibition of Cdc42 and activation of cofilin. *Genes Dev.* 2012;26(15):1743-57.

Nityanandam A, Parthasarathy S, Tarabykin V. Postnatal subventricular zone of the neocortex contributes GFAP+ cells to the rostral migratory stream under the control of Sip1. *Dev Biol.* 2012;366(2):341-56.

Seuntjens E, Nityanandam A, Miquelajauregui A, Debruyne J, Stryjewska A, Goebbels S, Nave KA, Huylebroeck D, Tarabykin V. Sip1 regulates sequential fate decisions by feedback signaling from postmitotic neurons to progenitors. *Nat Neurosci.* 2009;12(11):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, Gotz M. AP2gamma regulates basal progenitor fate in a region- and layer-specific manner in the developing cortex. *Nat Neurosci.* 2009;12(10):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, Tarabykin V. Satb2 is a postmitotic determinant for upper-layer neuron specification in the neocortex. *Neuron.* 2008;57(3):378-92.

Miquelajauregui A, Van de Putte T, Polyakov A, Nityanandam A, Boppana S, Seuntjens E, Karabinos A, Higashi Y, Huylebroeck D, Tarabykin V. Smad-interacting protein-1 (Zfhx1b) acts upstream of Wnt signaling in the mouse hippocampus and controls its formation. *Proceedings of the National Academy of Sciences of the United States of America.* 2007;104(31):12919-24.

Britanova O, Depew MJ, Schwark M, Thomas BL, Miletich I, Sharpe P, 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(4):668-78.