

# Ilya A. Vinnikov

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## EDUCATION

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2004-2008: **M.D.**, Medical Faculty, University of Heidelberg, Heidelberg, Germany.

1997-2003: **M.D./M.Sc.**, Medical Faculty, Lomonosov Moscow State University, Moscow, Russia.

## RESEARCH EXPERIENCE

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2016-present: *Tenure Track Associate Professor*, Laboratory of Molecular Neurobiology, Sheng Yushou Center of Cell Biology and Immunology, Department of Genetics and Developmental Biology, School of Life Sciences and Biotechnology, Shanghai Jiao Tong University, Shanghai, China.

2014-2016: *Joint collaboration research fellow*, Molecular Biology of the Cell I, Molecular Metabolic Control, German Cancer Research Center (DKFZ) Heidelberg, ViroQuant-CellNetworks, Bioquant, University of Heidelberg, Heidelberg, Germany.

2009-2014: *Senior research fellow*, Molecular Biology of the Cell I, German Cancer Research Center (DKFZ) Heidelberg, Heidelberg, Germany.

2008-2009: *Postdoctoral fellow*, Internal Medicine I Department, Medical Hospital, University of Heidelberg, Heidelberg, Germany.

## SELECTED HONORS AND AWARDS

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2011 *Neuroscience 2011's pool of "Hot Topic" newsworthy research.* Society for Neuroscience, Washington, USA.

2008 *Summa cum laude* M.D. degree. Faculty of Medicine, University of Heidelberg, Heidelberg, Germany.

2008 *Best abstract award.* Society of Thrombosis and Haemostasis, Wiesbaden, Germany.

2007 *Sigi-Ziering prize.* German and Austrian Societies of Clinical Chemistry and Laboratory Medicine, Vienna, Austria.

### Original publications

1. Chmielarz P., Konovalova J., Najam S.S., Alter H., Piepponen T.P., Erfle H., Sonntag K.C., Schütz G., **Vinnikov I.A.** <sup>\*,§</sup>, and Domanskyi A. (2017) Dicer and microRNAs protect adult dopamine neurons, *Cell Death and Disease* 8, e2813. **<sup>\*,§</sup>, equally contributed corresponding author.**
2. Domanskyi A., Alter H., Vogt M.A., Gass P., and **Vinnikov I.A.** <sup>§</sup> (2014) Transcription factors Foxa1 and Foxa2 are required for adult dopamine neurons maintenance, *Front Cell Neurosci* 8. **<sup>§</sup>, corresponding author.**
3. **Vinnikov I.A.** <sup>§</sup>, Hajdukiewicz K., Reymann J., Beneke J., Czajkowski R., Roth L.C., Novak M., Roller A., Dörner N., Starkuviene V., Theis F.J., Erfle H., Schütz G., Grinevich V., and Konopka W. (2014) Hypothalamic miR-103 Protects from Hyperphagic Obesity in Mice, *The Journal of Neuroscience* 34, 10659-10674. **<sup>§</sup>, co-corresponding author.**
4. Wang H., **Vinnikov I.**, Shahzad K., Bock F., Ranjan S., Wolter J., Kashif M., Oh J., Bierhaus A., Nawroth P., Kirschfink M., Conway E.M., Madhusudhan T., and Isermann B. (2012) The lectin-like domain of thrombomodulin ameliorates diabetic glomerulopathy via complement inhibition, *Thromb Haemost* 108, 1141-1153.
5. Wang H., Madhusudhan T., He T., Hummel B., Schmidt S., **Vinnikov I.A.**, Shahzad K., Kashif M., Muller-Krebs S., Schwenger V., Bierhaus A., Rudofsky G., Nawroth P.P., and Isermann B. (2011) Low but sustained coagulation activation ameliorates glucose-induced podocyte apoptosis: protective effect of factor V Leiden in diabetic nephropathy, *Blood* 117, 5231-5242.
6. Kashif M., Hellwig A., Kolleker A., Shahzad K., Wang H., Lang S., Wolter J., Thati M., **Vinnikov I.**, Bierhaus A., Nawroth P.P., and Isermann B. (2011) p45NF-E2 represses Gcm1 in trophoblast cells to regulate syncytium formation, placental vascularization and embryonic growth, *Development* 138, 2235-2247.

7. Domanskyi A., Geissler C., **Vinnikov I.A.**, Alter H., Schober A., Vogt M.A., Gass P., Parlato R., and Schuetz G. (2011) Pten ablation in adult dopaminergic neurons is neuroprotective in Parkinson's disease models, *Faseb Journal* 25, 2898-2910.
8. Seehaus S., Shahzad K., Kashif M., **Vinnikov I.A.**, Schiller M., Wang H., Madhusudhan T., Eckstein V., Bierhaus A., Bea F., Blessing E., Weiler H., Frommhold D., Nawroth P.P., and Isermann B. (2009) Hypercoagulability Inhibits Monocyte Transendothelial Migration Through Protease-Activated Receptor-1-, Phospholipase-C beta-, Phosphoinositide 3-Kinase-, and Nitric Oxide-Dependent Signaling in Monocytes and Promotes Plaque Stability, *Circulation* 120, 774-U141.
9. Isermann B., **Vinnikov I.A.\***, Madhusudhan T., Herzog S., Kashif M., Blautzik J., Corat M.A.F., Zeier M., Blessing E., Oh J., Gerlitz B., Berg D.T., Grinnell B.W., Chavakis T., Esmon C.T., Weiler H., Bierhaus A., and Nawroth P.P. (2007) Activated protein C protects against diabetic nephropathy by inhibiting endothelial and podocyte apoptosis, *Nature Medicine* 13, 1349-1358. **\*, equally contributed first author.**
  - previewed in: Brownlee M. (2007) Preventing kidney cell suicide, *Nature Medicine* 13, 1284-1285.
  - highlighted in: Gilbert R.E., and Marsden P.A. (2008) Activated Protein C and Diabetic Nephropathy, *New England Journal of Medicine* 358, 1628-1630.
10. Zakharova M.Y., Kozyr A.V., Ignatova A.N., **Vinnikov I.A.**, Shemiyaikin I.G., and Kolesnikov A.V. (2005) Purification of filamentous bacteriophage for phage display using size-exclusion chromatography, *Biotechniques* 38, 194-198.

### Selected book chapters and reviews

1. Najam S.S., Zglinicki B., **Vinnikov I.A. §\***, Konopka W. (2018) MicroRNAs in the hypothalamic control of energy homeostasis, *Cell Tissue Res.* doi: 10.1007/s00441-018-2876-0. **§, corresponding, \*, equally contributed senior author.**

2. Domanskyi A. and **Vinnikov I.A.**<sup>§</sup> (2017) Can we treat neurodegenerative diseases by preventing an age-related decline in microRNA expression?, *Neural Regeneration Research* 12(10), 1602-1604. <sup>§</sup>, **co-corresponding author.**
  
3. **Vinnikov I.A.**<sup>§</sup>, Domanskyi A., and Konopka W.: Continuous Delivery of Oligonucleotides into the Brain. In: physiology, **Humana Press**, 2016: 9. <sup>§</sup>, **corresponding author.**
  
4. Grinevich V., Knobloch S., Roth L.C., Althammer F., Domansky A., **Vinnikov I.**, Eliava M., Stanifer M., Boulant S.: Somatic transgenesis (Viral vectors). In: Murphy D. and Gainer H., eds. Master Classes in Molecular Neuroendocrinology: From genome to physiology. West Sussex, England: **John Wiley & Sons**, 2016: 243-274.
  
5. **Vinnikov I.A.**, Nawroth P.P., Isermann B.: Thrombomodulin-Protein-C-System, Protein Z. In: Pötzsch B., Madlener K., eds. Hämostaseologie (Haemostaseology). Berlin, Germany: **Springer-Verlag**, 2010: 245-258.