

## Publications

### SELECTED ORIGINAL PUBLICATIONS:

Liu Y, Zhang H, Zhang Q, Najam SS, Liang X, Sirakawin C, Lin D, Huang S, Bondarenko A, Konopka W, Zhang Y, Zhang Z, Wu S?, Jing M?, and Vinnikov IA? (preprint) [Enhanced purinergic signaling in the paraventricular hypothalamus induces hyperphagic obesity and insulin resistance](https://www.biorxiv.org/content/10.1101/2024.07.02.601503). bioRxiv, <https://www.biorxiv.org/content/10.1101/2024.07.02.601503>



Liu Y, Lin D, Najam SS, Huang S, Song M, Sirakawin C, Zhao C, Jiang H, Konopka W, Herzig S, and Vinnikov IA? (2024) [Functional redundancy between glucocorticoid and mineralocorticoid receptors in mature CRH neurons protects from obesity](https://doi.org/10.1002/oby.24116). Obesity (Silver Spring), 32(10), 1885-1896, <https://dx.doi.org/10.1002/oby.24116>. Editor's Choice selection





Sirakawin C, Lin D, Zhou Z, Wang X, Kelleher R, Huang S, Long W, Pires-daSilva A, Liu Y, Wang J?, and Vinnikov IA? (2024) [SKN-1/NRF2 upregulation by vitamin A is conserved from nematodes to mammals and is critical for lifespan extension in \*Caenorhabditis elegans\*](#). Aging Cell, 00:e14064, <https://onlinelibrary.wiley.com/doi/abs/10.1111/ace1.14064>. Cover art selection



Murgia N, Ma Y, Najam SS, Liu Y, Przybys J, Guo C, Konopka W and Vinnikov IA? (2022) [In Vivo Reductionist Approach Identifies miR-15a Protecting Mice From Obesity](#). Frontiers in Endocrinology 13 <https://doi.org/10.3389/fendo.2022.867929>.



Ma Y, Murgia N, Liu Y, Li Z, Sirakawin C, Konovalov R, Kovzel N, Xu Y, Kang X, Tiwari A, Mwangi PM, Sun D, Erfle H, Konopka W, Lai Q, Najam SS and Vinnikov IA? (2022) [Neuronal miR-29a protects from obesity in adult mice](https://doi.org/10.1016/j.molmet.2022.101507). *Molecular Metabolism* 61 <https://doi.org/10.1016/j.molmet.2022.101507>



Najam SS, Zglinicki B, [Vinnikov IA?](#)\*, Konopka W?\* (2018) [MicroRNAs in the hypothalamic control of energy homeostasis](#), Cell Tissue Research 375(1), 173-177.. \*, equally contributed senior authors.

Chmielarz P, Konovalova J, Najam SS, Alter H, Piepponen TP, Erfle H, Sonntag KC, Schütz G, [Vinnikov IA\\*?](#), [Domanskyi A\\*?](#) (2017) [Dicer and microRNAs protect adult dopamine neurons](#). Cell Death and Disease 8(5): e2813. \*, equally contributed senior authors



[Domanskyi A](#), Alter H, Vogt MA, Gass P, and [Vinnikov IA?](#) (2014) [Transcription factors Foxa1 and Foxa2 are required for adult dopamine neurons maintenance](#), Front Cell Neurosci 8.



[Vinnikov IA?](#), Hajdukiewicz K, Reymann J, Beneke J, Czajkowski R, Roth LC, Novak M, Roller A, Dörner N, Starkuviene V, Theis FJ, 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



Isermann B?\*, [Vinnikov IA\\*](#), Madhusudhan T\*, Herzog S, Kashif M, Blautzik J, Corat MAF, Zeier M, Blessing E, Oh J, Gerlitz B, Berg DT, Grinnell BW, Chavakis T, Esmon CT, Weiler H, Bierhaus A, and Nawroth PP (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 RE, and Marsden PA (2008) [Activated Protein C and Diabetic Nephropathy](#), New England Journal of Medicine 358, 1628-1630.

### BOOK CHAPTERS, REVIEWS AND METHODOLOGICAL PAPERS:

Lin D, Najam S S, Liu Y, Murgia N, and [Vinnikov IA?](#) (2024) [Noodles, the all-in-one system for on-target efficiency analysis of CRISPR guide RNAs](#). MethodsX, 12, 102481.

Lai Q, Kovzel N, Konovalov R and [Vinnikov IA?](#) (2019) [MicroRNAs Regulating Autophagy in Neurodegeneration](#). In [Z. Xie \(Ed.\), Autophagy: Biology and Diseases. Technology and Methodology.](#), (pp. 209-232): Adv Exp Med Biol 208: 191-264.

Lai Q, Murgia N, Parkkinen I, Domanskyi A and [Vinnikov IA?](#) (2019) [Chapter 8 - Roles of microRNAs in Parkinson's and other neurodegenerative diseases](#). In [B. Mallick \(Ed.\), AGO-Driven Non-Coding RNAs](#), (pp. 209-232): Academic Press.

Domanskyi A, [Vinnikov I.A.?](#) (2017) [Can we treat neurodegenerative diseases by preventing an age-related decline in microRNA expression?](#), Neural Regeneration Research 12(10), 1602-1604.



[Vinnikov IA?](#), Domanskyi A, and Konopka W: [Continuous Delivery of Oligonucleotides into the Brain](#). In: physiology, **Humana Press**, 2016: 9.

[Vinnikov IA](#), Nawroth PP, Isermann B: Thrombomodulin-Protein-C-System, Protein Z. In: Pötzsch B., Madlener K., eds. Hämostaseologie (Haemostaseology). Berlin, Germany: **Springer-Verlag**, 2010: 245-258.

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