

PUBLICATIONS

1. S. Yakovlev, E. Makogonenko, **N. Kurochkina**, W. Nieuwenhuizen, K. Ingham, L. Medved. Conversion of fibrinogen to fibrin: mechanism of exposure for tPA-plasminogen binding site. *Biochemistry* (2000) 39, pp. 15730.
2. **N. Kurochkina**. Amino acid composition of parallel helix-helix interfaces. *Journal of Theoretical Biology* (2007) 247, pp. 110.
3. **N. Kurochkina**. Specific sequence combinations at parallel and antiparallel helix-helix interfaces. *Journal of Theoretical Biology* (2008) 255, pp. 188.
4. **N. Kurochkina**, T. Yardeni, and M. Huizing. Molecular modeling of the bifunctional enzyme UDP-GlcNAc 2-epimerase/ManNAc kinase and predictions of structural effects of mutations associated with HIBM and sialuria. *Glycobiology* (2010) 20, pp. 322.
5. **N. Kurochkina**. Helix-helix interfaces and their impact on protein motifs and assemblies. *Journal of Theoretical Biology* (2010) 264, pp. 585.
6. **N. Kurochkina**. Proteins motifs and protein assemblies: role of helix-helix interfaces. SciTopics. Retrieved August 18, 2010, from http://www.scitopics.com/Proteins_motifs_and_protein_assemblies_role_of_helix_helix_interfaces.html
7. **N. Kurochkina**, T. Choekyi. Helix-helix interactions of proteins involved in the process of apoptosis. SciTopics. Retrieved February 15, 2011, from http://www.scitopics.com/Helix_helix_interactions_of_proteins_involved_in_the_process_of_apoptosis.html
8. **N. Kurochkina** Common structural characteristics of fibrous and globular proteins. In: Protein Structure. (2011) Ed: L. M. Haggerty. Nova Science Publishers, Inc.
9. **N. Kurochkina**, T. Choekyi. Helix-helix interfaces and ligand binding. *Journal of Theoretical Biology* (2011) 283, 92.
10. Yardeni, T., Choekyi, T., Jacobs, K., Ciccone, C., Patzel, K., Anikster, Y., Gahl, W. A., **Kurochkina**, N., Huizing, M. (2011) Identification, Tissue Distribution and Molecular Modeling of Novel Human Isoforms of the Key Enzyme in Sialic Acid Synthesis, UDP-GlcNAc 2-epimerase/ManNAc Kinase. *Biochemistry*, 50, 8914.
11. **Kurochkina**, N., Guha, U. (2014) SH3 domains: modules of protein-protein interactions. *Biophysical Reviews* DOI: 10.1007/s12551-012-0081-z.
12. **Kurochkina**, N., Iadarola, M. (2015) Helical assemblies: Structure determinants. *Journal of Theoretical Biology*. 369C 80-84 <http://dx.doi.org/10.1016/j.jtbi.2015.01.012>
13. **Kurochkina**, N., Guha, U., Lu, Z. (2015) SH Domains and Epidermal Growth Factor Receptors. In: SH Domains. Structure, mechanisms, and applications. Ed: Kurochkina. Springer, 2015.
14. **Kurochkina**, N., Iadarola M. (2015) SH Domains and Helical Assemblies. In: SH Domains. Structure, mechanisms, and applications. Ed: Kurochkina. Springer, 2015.
15. **Kurochkina** N, Bhaskar M, Yadav SP, Pant HC. Phosphorylation, Dephosphorylation, and Multiprotein Assemblies Regulate Dynamic Behavior of Neuronal Cytoskeleton: A Mini-Review. *Front Mol Neurosci*. 2018;11:373. Published 2018 Oct 8. doi:10.3389/fnmol.2018.00373
16. SH Domains. Structure, mechanisms, and applications. Ed: **Kurochkina**. Springer, 2015.
17. <https://link.springer.com/book/10.1007/978-3-319-20098-9>
18. Hall BE, Prochazkova M, Sapio MR, Minetos P, **Kurochkina** N, Binukumar BK, Amin ND, Terse A, Joseph J, Raithel SJ, Mannes AJ, Pant HC, Chung MK, Iadarola MJ, Kulkarni AB. Phosphorylation of the Transient Receptor Potential Ankyrin 1 by Cyclin-dependent Kinase 5 affects Chemo-nociception. *Sci Rep*. 2018 Jan 19;8(1):1177. doi: 10.1038/s41598-018-19532-6. PubMed PMID: 29352128; PubMed Central PMCID: PMC5775258

19. Natalya **Kurochkina**. Protein Structure and Modeling. Springer 2019.
<https://link.springer.com/book/10.1007/978-981-13-6601-7>
20. Kurochkina N, Sapio MR, Iadarola MJ, Hall BE, Kulkarni AB. Multiprotein Assemblies, Phosphorylation and Dephosphorylation in Neuronal Cytoskeleton. bioRxiv [Preprint]. 2023 Jun 22:2023.06.21.545989. doi: 10.1101/2023.06.21.545989. PMID: 37502949; PMCID: PMC10370197. Preprint: Multiprotein Assemblies, Phosphorylation and Dephosphorylation in Neuronal Cytoskeleton. <https://doi.org/10.1101/2023.06.21.545989> (doi: 10.1101/2023.06.21.545989).
21. M.R. Sapio, D.M. King, E.S. Staedtler, et al., Expression pattern analysis and characterization of the hereditary sensory and autonomic neuropathy 2A (HSAN2A) gene with no lysine kinase (WNK1) in human dorsal root ganglion, Experimental Neurology (2023), <https://doi.org/10.1016/j.expneurol.2023.114552>