

Списък на научните публикации, свързани с дисертационния труд:

Ivanova P, Kortenska L, Angelova VT, Tchekalarova J. The Novel Melatonin Analog Containing Donepezil Fragment Prevents Cognitive Impairments and Associated Oxidative Stress in a Hybrid Rat Model of Melatonin Deficiency and icvA β ₁₋₄₂. Int J Mol Sci. 2025 Jul 8;26(14):6553. doi: 10.3390/ijms26146553. PMID: 40724803; PMCID: PMC12294633.

Mihaylova R, Angelova VT, Tchekalarova J, Atanasova D, **Ivanova P**, Simeonova R. Tailored Melatonin- and Donepezil-Based Hybrids Targeting Pathognomonic Changes in Alzheimer's Disease: An In Vitro and In Vivo Investigation. Int J Mol Sci. 2024 May 29;25(11):5969. doi: 10.3390/ijms25115969. PMID: 38892154; PMCID: PMC11172853.

Tchekalarova J, **Ivanova P**, Krushovlieva D, Kortenska L, Angelova VT. Protective Effect of the Novel Melatonin Analogue Containing Donepezil Fragment on Memory Impairment via MT/ERK/CREB Signaling in the Hippocampus in a Rat Model of Pinealectomy and Subsequent A β ₁₋₄₂ Infusion. Int J Mol Sci. 2024 Feb 3;25(3):1867. doi: 10.3390/ijms25031867. PMID: 38339146; PMCID: PMC10855364.

Списък със забелязани цитирания (без автоцитати):

1. Ayobami, F. G., Ogundipe, O. J., Emmanuel, A. A., & Kolawole, I. O. (2025). Effects of lauric acid on cognitive impairment in a scopolamine-induced Alzheimer's disease-like rat model. *Nutritional Neuroscience*. <https://doi.org/10.1080/1028415X.2025.2508775>
2. Cimen, Y. A., Elibol, B., Korkmaz, N. D., Yuzgulec, M., Kinsiz, B., Kutlu, S., & Ustunova, S. (2025). The Impact of Ketogenic Diet Consumption on the Sporadic Alzheimer's Model Through MT1/MT2 Regulation. *Journal of Neuroscience Research*, 103(8). <https://doi.org/10.1002/jnr.70070>
3. Galvani, F., Cammarota, M., Vacondio, F., Rivara, S., & Boscia, F. (2024a). Protective Activity of Melatonin Combinations and Melatonin-Based Hybrid Molecules in Neurodegenerative Diseases. *Journal of Pineal Research*, 76(8). <https://doi.org/10.1111/jpi.70008>
4. Galvani, F., Cammarota, M., Vacondio, F., Rivara, S., & Boscia, F. (2024b). Protective Activity of Melatonin Combinations and Melatonin-Based Hybrid Molecules in Neurodegenerative Diseases. *Journal of Pineal Research*, 76(8). <https://doi.org/10.1111/jpi.70008>
5. Liu, J., Li, Y., Kulsoom, & Wang, F. (2025). Shedding light on Alzheimer's disease: Recent advances in highly selective fluorescent probes. *Coordination Chemistry Reviews*, 522. <https://doi.org/10.1016/j.ccr.2024.216221>
6. Ma, L., Wei, Q., Jiang, M., Wu, Y., Liu, X., Yang, Q., Bai, Z., & Yang, L. (2025). Hippocampal Neurogenesis in Alzheimer's Disease: Multimodal Therapeutics and the Neurogenic Impairment Index Framework. *International Journal of Molecular Sciences*, 26(13). <https://doi.org/10.3390/ijms26136105>
7. Wu, L., Sun, Y., Yin, Y., Wu, Z., Liu, R., Liu, Y., Zhu, Y., Shao, M., Zhou, H., Lu, C., & Zhang, H. (2025). Lancao decoction in the treatment of alzheimer's disease via activating PI3K/AKT signaling to promote ERK involving in enhancing neuronal activities in the hippocampus. *Journal of Ethnopharmacology*, 338. <https://doi.org/10.1016/j.jep.2024.119017>
8. Zueva, I., Belyaev, G., & Petrov, K. (2025). Disease-modifying effect of donepezil on APP/PS1 mice at different stages of Alzheimer's disease. *Molecular and Cellular Biochemistry*. <https://doi.org/10.1007/s11010-025-05310-2>

Изнесени доклади по темата:

- НАЦИОНАЛНА НАУЧНА КОНФЕРЕНЦИЯ - 2023г., 14-15 декември, ИНБ, София с доклад:
In vivo studies of new indole hydrazide–hydrazone hybrid as multitarget agent in a rat model of pinealectomy and subsequent icv A β 1-42 infusion.
- 4th Interdisciplinary PhD forum with international participation, 16-19 May 2023, Sandanski, Bulgaria; scientific report: The role of melatonin in the pathogenesis of Alzheimer's disease.
- 8th National Conference with International Participation "Morphological Days" June 10-12, 2022 Sofia; scientific report: Impact of melatonin deficit on physiological function in young adult, mature and old rats: role of oxidative stress