

The 2nd International Symposium on Drug Discovery

July 2nd – 3rd, 2024 | Taipei, Taiwan

Speaker information

General Information

Name	Patricia MELNYK	
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Affiliation	University of Lille, France	
Education Background	Engineer in Chemistry (ENSCP, Paris, Fr) PhD in organic chemistry (Univ P&M Curie, Paris, Fr)	
Professional Appointment	Professor in Chemistry	
Research Interest	Medicinal chemistry, chemical disorders, drug development	biology, neurodegenerative
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Recent Publications

- 1. Sergeant N, Vingtdeux V, Eddarkaoui S, Gay M, Evrard C, Lefur N, Laurent C, Caillierez R, Obriot H, Larchanché PE, Farce A, Coevoet M, Carato P, Kouach M, Descat A, Dallemagne P, Buée-Scherrer V, Blum D, Hamdane M, Buée L, Melnyk P. New piperazine multi-action drugs prevent neurofibrillary degeneration and amyloid deposition, and preserve memory in animal models of Alzheimer's disease. Neurobiol Dis, 2019, S0969-9961, 30327-9. Doi:10.1016/j.nbd.2019.03.028
- 2. Bolteau R, Descamps F, Ettaoussi M, Caignard D-H, Delagrange P, Melnyk P, Yous S. Quinalozine and Phtalazine Derivatives as Novel Melantonin Receptor Ligands Analogues of Agomelatine. Eur J Med Chem, 2020, 189, 112078. doi: 10.1016/j.ejmech.2020.112078
- 3. Liberelle M, Jonckheere N, Melnyk P, Van Seuningen I, Lebegue N. EGF-containing membrane-bound Mucins: a hidden ErbB2 signaling pathway? J Med Chem, 2020, 63 (10), 5074-5088. doi: 10.1021/acs.jmedchem.9b02001
- 4. Tautou M, Eddarkaoui S, Descamps F, Larchanché PE, El Bakali J, Goveas LM, Dumoulin M, Lamarre C, Blum D, Buée L, Melnyk P, Sergeant N. A β-secretase modulator decreases Tau



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- pathology and preserves short-term memory in a mouse model of neurofibrillary degeneration. Front Pharmacol, 2021,12, 679335. doi: 10.3389/fphar.2021.679335
- 5. Sturbaut M, Bailly F, Coevoet M, Pugniere M, Liberelle M, Magnez R, Thuru X, Melnyk P, Gelin M, Allemand F, Guichou JF, Cotelle P. Discovery of a cryptic site at the interface 2 of TEAD Toward new anti-cancer compounds. Eur J Med Chem, 2021, 226, 113835-849. doi: 10.1016/j.ejmech.2021.113835
- 6. Liberelle M, Toulotte F, Renault N, Gelin M, Allemand F, Melnyk P, Guichou JF, Cotelle P. Towards the design of selective ligands of TEADs C-terminal domain. J Med Chem, 2022, 65(8), 5926-40.
- 7. Bolteau R, Duroux R, Laversin A, Vreulz B, Shiriaeva A, Stauch B, Han GW, Cherezov V, Renault N, Barczyk A, Ravez S, Coevoet M, Melnyk P, Liberelle M, Yous S. High ligand efficiency quinazoline compounds as novel A2A adenosine receptor antagonists. Eur J Med Chem, 2022, 241, 114620.
- 8. Oxombre B, Madouri F, Journé A-S, Ravez S, Woitrain E, Odou P, Duhal N, Ninni S, Montaigne D, Delhem N, Vermersch P, Melnyk P. Safe and efficient sigma1 ligand: a potential drug candidate for Multiple Sclerosis. Int J Mol Sci, 2022, 23(19), 11893. doi: 10.3390/ijms231911893.
 - Special Issue "The Intriguing Sigma-1 and Sigma-2 Receptors and Their Potential Therapeutic Roles 2.0"
- 9. Mésangeau C, Carato P, Renault N, Coevoet M, Barczyk A, Buée L, Sergeant N, Melnyk P. Discovery of Compounds that Selectively Repress the Amyloidogenic Processing of the Amyloid Precursor Protein: Design, Synthesis and Pharmacological Evaluation of Diphenylpyrazoles. Int J Mol Sci, 2022, 23(21), 13111. doi: 10.3390/ijms232113111. Special Issue "Advances in Alzheimer's Disease Drug Research and Development"
- 10. Tautou M, Descamps F, Larchanché PE, Buée L, El Bakali J, Melnyk P, Sergeant N. A polyaminobiaryl-based β-secretase modulator alleviates cognitive impairments, amyloid load, astrogliosis, and neuroinflammation in APP^{Swe}/PSEN1^{ΔE9} mice model of amyloid pathology. Int J Mol Sci, 2023, 24(6):5285. doi: 10.3390/ijms24065285
 - Special Issue "New Trends in Alzheimer's Disease Research: From Molecular Mechanisms to Therapeutics".



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Speech Topic and Abstract

