



Școala Doctorală de Chimie

TEMATICA PENTRU CONCURSUL DE ADMITERE LA DOCTORAT sesiunea septembrie 2023

Prof. univ. dr. Elena BÎCU

1. Noi compuși azaheterociclici penta- și hexa-atomici. Sinteze și aplicații (ro)
New penta- and hexa-atomic azaheterocyclic compounds. Syntheses and applications (en)

Bibliografie/References

1. Moise, I.M., Bicu, E., Farce, A., Dubois, J., Ghinet, A., Indolizine-phenothiazine hybrids as the first dual inhibitors of tubulin polymerization and farnesyl transferase with synergistic antitumor activity, *Bioorganic Chemistry*, 103, 104184, **2020**.
2. Metwally, N.H., Mohamed, M.S., Ragb, A.E., Design, synthesis, anticancer evaluation, molecular docking and cell cycle analysis of 3-methyl-4,7-dihydropyrazolo [1,5-a]pyrimidine derivatives as potent histonelysine demethylases (KDM) inhibitors and apoptosis inducers, *Bioorganic Chemistry*, 88, 102929, **2019**.
3. Makhaeva, G.F., Lushchekina, N.P., Boltneva, S.V., Novel potent bifunctional carboxylesterase inhibitors based on a polyfluoroalkyl-2-imino-1,3-dione scaffold, *European Journal of Medicinal Chemistry*, 218, 113385, **2021**.
4. Ragab, E.A., Metwally, N.H., Mohamed, M.S., Synthesis of some novel pyrazolo[1,5-a]quinazolines and their fused derivatives, *Synthetic Communications*, 47, 148 – 158, **2017**.
5. Zhuang, C., Zhang, W., Sheng, C., Zhang, W., Xing, C., Miao, Z., Chalcone: A Privileged Structure in Medicinal Chemistry, *Chem. Rev.*, 117, 7762–7810, **2017**.

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