

Research field: CHEMISTRY

Purpose: Obtaining new compounds with applications in biomedicine

Methodology:

- The design and development of new organic compounds derivatives and/or analogues of curcumin;
- Purification of compounds by classical methods (recrystallization, distillation) or chromatography;
- Structural characterization of the designed compounds: IR, NMR, UV-VIS, LC-MS, X-ray diffraction
- Study of properties and evaluation of biological activity.

Proposed topic for PhD: Derivatives and/or analogues of curcumin with biological activity

References:

- [1] C. D. Nenitescu, *Chimie organică Vol I și II*, Ed. Didactică și Pedagogică, București, **1980**.
[2] I. Pogany, M. Banciu, *Metode fizice în chimia organică*, Ed. Științifică, București, **1972**.