

Five-year research plan for the Department of
Pharmaceutical Organic
Chemistry – Faculty of Pharmacy – Beni-Suef
University
(2026-2030)

Key words	Research topic	Specific specialization
<p>Design, Synthesis. anticancer, Anti-inflammatory. SAR Molecular docking, molecular dynamics simulation, Virtual screening. High performance liquid chromatography, TLC spectrophotometry, Computational modeling, Analytical validation.</p>	<p>- ١ Design and synthesis of novel bioactive organic compounds with potential pharmaceutical applications.</p> <p>- ٢ Structural modification of organic compounds to enhance biological activity and improve safety profiles.</p> <p>- ٣ Application of computational and in silico techniques, including molecular modeling and molecular dynamics, to guide the design and optimization of organic compounds.</p> <p>- ٤ Implementation of modern synthetic methodologies, including microwave-assisted synthesis, for efficient production of organic compounds</p>	<p>Pharmaceutical organic chemistry</p>