



## Special Issue on Chemical Biology Tools & Probes

### Call for Papers

Chemical Biology Tools & Probes is an interdisciplinary special issue theme dedicated to the development and application of innovative chemical strategies for investigating and manipulating biological systems with high spatial and temporal resolution. Drawing from organic synthesis, bioconjugation chemistry, structural biology, and molecular pharmacology, this topic encompasses activity-based probes, fluorescent and luminescent sensors, bioorthogonal labeling techniques, covalent inhibitors, chemoproteomic platforms, and targeted protein degradation technologies. Particular attention is given to molecular tools that elucidate enzyme mechanisms, cellular signaling networks, epigenetic regulation, and disease-associated pathways. Contributions highlighting methodological innovation, quantitative analytical approaches, and translational potential in diagnostics or therapeutics are especially encouraged.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring **Chemical Biology Tools & Probes**. Potential topics include, but are not limited to:

- Activity-based probes
- Bioorthogonal chemistry
- Chemical genetics
- Chemoproteomics technologies
- Chemoselective labeling strategies
- Click chemistry applications
- Covalent inhibitor design
- Enzyme activity profiling
- Epigenetic chemical modulators
- Fluorescent molecular probes
- Live-cell imaging tools
- Photoaffinity labeling
- Protein–ligand interaction mapping
- Redox-sensitive probes
- Small-molecule biosensors
- Targeted protein degradation

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).



Please kindly specify the “**Special Issue**” under your manuscript title. The research field “**Special Issue - Chemical Biology Tools & Probes**” should be selected during your submission.

Special Issue Timetable:

Submission Deadline	May 28th, 2026
Publication Date	July 2026

**Guest Editor:**

Dr. Tarique Ahmed Memon  
The University of Larkano, Pakistan

For further questions or inquiries, please contact Editorial Assistant at [abc@scirp.org](mailto:abc@scirp.org).