

EDITORIAL

Mongolian Journal of Chemistry welcomes you to the first issue of 2024. The issue contains 5 excellent research articles reporting their original findings as highlighted briefly.

[Khan et al.](#) successfully synthesized ten novel nitrogen-containing heterocyclic derivatives based on commercially available drugs. Among them, compound 3e, a diclofenac derivative, showed increased anti-inflammatory and analgesic activities. The study thus presents a promising important compound for further research in drug development.

[Oidovsamuu et al.](#) report the cytotoxicity screening results for 114 Mongolian plants against four common cancer cell lines including liver, colon, breast, and cervical cancer cells. As the first complete cytotoxicity dataset for sufficient numbers of plants, the work provides valuable resources and information for future phytochemical and biological research on these plants.

[Bhalani et al.](#), using an s-triazine frame, synthesized a new type of polyamide with enhanced thermal stability and fluorescence. The synthesized new polyamides could be used to develop heat-tolerant and light-emitting materials such as fluorescent probes, biosensors, and clean energy materials.

[Lkhagvadorj et al.](#) prepared "honey-based" zinc oxide nanoparticles possessing antibacterial and photocatalytic activities from raw honey. The study opens the possibility of developing honey-based nanoparticles with different biological activities.

[Kumar et al.](#) provided a comprehensive computational analysis of nine oxadiazole derivatives for their inhibition effects on Coronavirus 2. Oxa8, one of these derivatives, showed a potential inhibition property to the viral entry process by predicted binding to its fusion protein. The work will contribute to further research and development of antiviral agents. In the issue, a cover image is selected from [Khan et al.](#) illustrating the chemical structures of benzoxazinone and quinazolinone-containing drugs.

This year begins, we are pleased to welcome three new members to our Editorial Board and excited to have them to work with us.

- Professor Ashutosh Sharan Singh from Maharishi Markandeshwar University, Haryana, India; Editorial research area: supramolecular chemistry and metal-organic chemistry;
- Dr. Gantumur Battogtokh from Howard University, Washington DC, USA; Editorial research area: natural products and pharmaceutical chemistry, drug delivery, and nano-biomedical chemistry;
- Professor Marilyn Rimando from the University of Santo Tomas, Manila, Philippines; Editorial research area: biochemistry and pharmaceutical chemistry.

As always, we, the editorial team, express our deep appreciation to the editorial board members, reviewers, and all the authors who contributed to the journal.

Munkhtsetseg Tsednee, Ph.D.

Editor-in-Chief