

ECMC-P
2025
Conference

The 1st International Electronic Conference on Medicinal Chemistry and Pharmaceutics

1-30 November 2025 | Online

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The 1st International Electronic Conference on Medicinal Chemistry and Pharmaceutics

1–30 November 2025 | Online



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Welcome from the Chair

Dear Colleagues,

We cordially invite you to join us at the **1st International Electronic Conference on Medicinal Chemistry and Pharmaceutics (ECMC-P 2025)**, sponsored by MDPI's open access journals *Pharmaceuticals* and *Pharmaceutics*.

This platform seeks to provide a forum for discussion for scientists from around the world to share recent developments and innovative ideas in medicinal chemistry and pharmaceutics. This will allow students, researchers, and experts to share their latest theories, results, models, and applications within this multidisciplinary area of knowledge. This is an entirely online conference that will be held in November at <https://sciforum.net/event/ECMC-P2025>. No registration fee will be charged to participants, and an added advantage is the lack of cost for flights, hotels, etc.

The conference will be organized around the aims and scope of the journals *Pharmaceuticals* and *Pharmaceutics*, which includes the following general topics:

- Small molecules as drug candidates
- Biomolecules, natural products, phages, and cells as therapeutic tools
- Biological targets and biomarkers
- Radiopharmaceutical sciences, radiochemistry, (hybrid) imaging, and nuclear medicine
- Nanotechnology
- Pharmacokinetics and pharmacodynamics
- Pharmaceutical preparations and drug delivery

Researchers are invited to provide a short abstract (250 words maximum without figures and references) online, through this [link](#) from now until **21 September 2025**.

Each participant can submit only one abstract as a presenting author and a maximum of three submissions per research group (each author can only sign a maximum of three contributions). An institutional email address is required to submit contributions. The authors will be notified in October 2025 about the acceptance status of their abstract(s). At that point, they will be asked to present their work (in English) as a poster, a slideshow, or a video using the templates provided by the conference (see Instructions for Authors). All accepted submissions will be displayed online and be open for discussion, comments, and questions during the entire conference at conference website on **1–30 November 2025**.

All participants will be invited to submit a full paper describing their work. The papers will be peer-reviewed and, upon acceptance, published in a Special Issue. A 20% discount on the article processing charge will be applied.

The scientific committee will select the most outstanding works, which will be rewarded with grants offered by the sponsoring journals, *Pharmaceuticals* and *Pharmaceutics*.

We look forward to engaging in exciting discussions and hearing new ideas and perspectives from experts in the field. All participants are welcome to join the online conference.

Kind regards,

sciforum-142458: Liposomes for potential delivery of *Aloe vera* waste antioxidants

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Aloe vera L. leaves possess bioactive principles, such as polyphenols, anthraglycosides, free anthraquinones, mono- and polysaccharides, polypeptides, terpenoids, sterols, chromones, lectins, fatty, amino and organic acids, enzymes, and saponins. *A. vera* waste (leaves without aloe gel) is also rich in amino acids, organic acids, flavonoids, anthraquinones, lipids, minerals, vitamins, carbohydrates, pigments, as well as volatile organic components. Hence, the aloe by-product is recognized as being of significant worth after the extraction of its bioactives and their potential implementation in food and cosmetic products. The encapsulation of the mentioned bioactive compounds can improve their stability, bioavailability, activity, and prolonged release in various formulations. Therefore, liposomes with aloe leaf waste extract were prepared using phospholipids and the pro-liposome technique, and their size, polydispersity index (PDI), and antioxidant potential before and after UV irradiation were examined using photon correlation spectroscopy and ABTS and DPPH assays, respectively. The vesicle size of aloe waste extract-loaded liposomal particles was 335.00 ± 20.55 nm (non-treated liposomes) and 326.63 ± 3.43 nm (after UV irradiation), whereas the PDI values were very high, 0.505 ± 0.056 and 0.712 ± 0.045 , respectively. The data mentioned above confirm the existence of nanoliposome vesicles in the non-uniform system. The anti-ABTS activity was 100.27 ± 2.08 μmol Trolox equivalent (TE)/L (non-treated liposomes) and 103.11 ± 4.01 μmol TE/L (after UV irradiation). The IC_{50} value (the concentration of the sample required to scavenge 50% of free radicals) of non-treated liposomes with aloe waste extract was 59.77 ± 1.08 $\mu\text{g}/\text{mL}$, while the IC_{50} for the UV-irradiated sample was 57.81 ± 1.59 $\mu\text{g}/\text{mL}$. Thus, UV irradiation did not cause changes in the size and antioxidant capacity of aloe waste extract-loaded liposomes, while the mentioned treatment caused a significant increase in the PDI value. Since UV irradiation did not cause a decrease in the antioxidant activity of the sample, it can be concluded that the liposomal membrane effectively protects sensitive aloe waste antioxidants from UV degradation.



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