

Call for Papers: Advances in Pharmaceutical Sciences in Africa



Cite This: <https://doi.org/10.1021/acs.molpharmaceut.6c00387>



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Molecular Pharmaceutics invites submissions for a forthcoming Special Issue dedicated to “Advances in Pharmaceutical Sciences in Africa.” This issue will highlight cutting-edge research, emerging innovations, and translational breakthroughs shaping the pharmaceutical and biopharmaceutical landscape across the African continent and within the global African scientific diaspora.

Africa is home to one of the fastest-growing populations in the world, accompanied by a dynamic and evolving healthcare landscape. The continent bears a disproportionate burden of both communicable and noncommunicable diseases. Simultaneously, Africa is witnessing rapid expansion in scientific capacity, pharmaceutical manufacturing, regulatory harmonization, digital health integration, and academic–industry partnerships. Africa stands at a pivotal moment in pharmaceutical science, where indigenous innovation, advanced molecular technologies, and translational research converge to address pressing health challenges. This Special Issue aims to capture that momentum and project it onto the global scientific stage. Scientists across Africa are developing contextually relevant drug molecules, drug delivery systems, affordable biologics, field-adapted formulations, nanomedicines, ethnopharmaceuticals, long-acting formulations, vaccines, adjuvants and precision therapeutics tailored to regional health priorities. Innovations in formulation science, molecular pharmaceutics, pharmacokinetics, and translational nanomedicine are addressing challenges related to stability, access, adherence, and therapeutic efficacy in resource-limited settings.

This Special Issue aims to capture the breadth and depth of these advances while fostering global visibility to catalyze collaborations and knowledge exchange. We welcome contributions that not only advance molecular pharmaceutics scientifically but also showcase Africa’s participation in pharmaceutical innovation while demonstrating impact on health systems, policy, manufacturing, and equitable access to medicines. By consolidating pioneering work across drug delivery, nanomedicine, biologics, and translational pharmaceutics, this issue will serve as a landmark scholarly resource documenting Africa’s scientific momentum. Authors will benefit from

- Publishing in a high-impact ACS journal
- Global visibility among pharmaceutical scientists
- Thematic positioning within a rapidly advancing field
- Promotion through ACS marketing and scientific networks
- Contribution to shaping the narrative of African pharmaceutical innovation

Submissions are invited across the full spectrum of molecular pharmaceutics, including but not limited to the following thematic areas:

Computational Pharmaceutical Chemistry

- Artificial intelligence and machine learning (AI/ML) approaches to predict drug candidate efficacy, toxicity, and PK/PD
- In silico modeling of drug behavior and molecular dynamics simulations
- Quantum mechanics/molecular modeling (QM/MM) applied to complex biochemical reactions and drug design
- Virtual screening for lead compound identification and drug repurposing
- Crystal engineering, including crystal growth, sustainability, impurity minimization, defect reduction, and efficiency improvements

Advanced Drug Delivery Systems

- Novel drug formulation strategies
- Modeling, prediction, and enhancement of drug physicochemical properties
- Solid-state pharmaceutics
- Innovative biomaterials and additive manufacturing of dosage forms
- Nanoparticle-assisted delivery of drugs, genes, and other bioactive agents
- Targeted drug delivery approaches to enhance bioavailability and reduce toxicity
- Personalized medicines

Translational and Global Impact Considerations


- Addressing region-specific disease burdens
- Demonstrating affordability and scalability
- Advancing local manufacturing capacity
- Strengthening regulatory and quality ecosystems
- Promoting equitable access to advanced therapeutics

Submissions led by African institutions are strongly encouraged. Collaborative works involving partnerships between African researchers and global institutions, industry, NGOs, or regulatory bodies are also welcome.

We welcome original research articles (full experimental or computational studies), perspectives, communications, and reviews (comprehensive, critical state-of-the-art analyses). All submissions must demonstrate strong relevance to molecular pharmaceutics and present rigorous mechanistic, physicochemical, or translational insights aligned to the thematic areas outlined. Key requirements include a clear articulation of the molecular or mechanistic innovation in pharmaceutics, supported by robust physicochemical characterization. Submissions should demonstrate appropriate *in vitro* and/or *in vivo* evaluation, along with strong statistical rigor to ensure reproducibility of the findings. All studies must also comply fully with ethical standards, including required approvals for animal or human research where applicable.


Manuscripts should be submitted through the ACS Publishing Center by **October 31st, 2026**, and they will undergo the journal's standard peer-review process to ensure scientific excellence and integrity. For inclusion in this Special Issue, select "Advances in Pharmaceutical Sciences in Africa" from the Special Issue dropdown box. Submissions will be peer-reviewed and, if accepted, will be published on a rolling basis in the next available regular issue of the journal. Once the Special Issue is complete, all accepted articles will be publicised as a virtual collection, which will provide additional exposure for the work. Please consult the [Author Guidelines](#) for more information about the journal, manuscript types, and instructions for manuscript preparation.

For presubmission inquiries regarding topic suitability, manuscript scope, or formatting, authors may contact managing.editor@mp.acs.org.

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