

**Invitation for manuscript submission:**

**special issue on AI/ML Use CAses in MEDICAL PRODUCT Development**

Although artificial intelligence (AI) and machine learning (ML) are now widely used across many disciplines, the impact of AI/ML in biopharmaceutical statistics has been relatively limited. One drawback for applying AI/ML for medical product development has been the lack of proven real-world use cases that demonstrate the safety and effectiveness of these new technologies; the lack of relevant and actionable biomedical data sources; and the availability of regulatory frameworks that motivate the development of innovative diagnostics and therapies. To broaden application and use of AI/ML in medical product development, the Journal of Biopharmaceutical Statistics (JBS) cordially invites authors to submit papers for a special issue on real-world applications of AI/ML across all stages of the medical product lifecycle, such as:

* Building predictive tools for drug discovery (see Artificial Intelligence for Early Drug Discovery);
* Recommending which treatment pathways to target based on patient characteristics and medical history;
* Integrating multimodal data sources, e.g., genomic and clinical data, for diagnosis and/or disease stratification;
* Diagnosing disease and predicting disease progression;
* Predicting the treatment effect of an intervention and developing individualized treatment rules;
* Recruiting patients for Phase II and III of clinical trials to increase trial size, improve patient–trial matching, and/or enrich for populations who are likely to benefit most from the investigational drug/treatment;
* Monitoring patients automatically and continuously during the trial for risk mitigation;
* Leveraging new technologies such as wearable devices and wireless patient monitoring devices for disease screening and/or personalizing treatment;
* Post-market surveillance of medical products to detect elevated rates of adverse events.

**Deadline for submission**: June 30, 2023, abstracts due on January 31, 2023

**Contribution types**: original research, reviews, and/or short communications

**Submission Instructions**:

Go to https://rp.tandfonline.com/submission/create?journalCode=LBPS. Follow the submission steps under “Author” tab.

In Step 1, for Type, please select “Special Issue”; for Title, please include the wording “[Special Issue: AI/ML]” before the main title. The rest of the steps will be similar to other submissions.

All manuscripts will be peer-reviewed. For further questions regarding submission, please contact [Margaret Gamalo [Pfizer] margaret.gamalo@pfizer.com](mailto:Margaret%20Gamalo%20[Pfizer]%20margaret.gamalo@pfizer.com), Yushi Liu [Lilly] liu\_yushi@lilly.com; Mengxing Li [Insightin Health] mengxingli0324@gmail.com; Jean Feng [UCSF] Jean.Feng@ucsf.edu; Helen Zhou [GSK] [helen.8.zhou@gsk.com](mailto:helen.8.zhou@gsk.com)

Looking forward to your submissions!

Guest Editors:

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