

## Special Issue

# Drug Safety and Real-World Evidence: From Databases to Artificial Intelligence

### Message from the Guest Editor

The increasing availability of real-world data from electronic health records, administrative claims, registries, and spontaneous reporting system databases has transformed pharmacovigilance and pharmacoepidemiology. At the same time, the adoption of automated and digital tools is accelerating the generation of evidence. In this evolving landscape, artificial intelligence (AI), machine learning, and natural language processing are emerging as key enablers for signal detection, enhanced risk prediction, and timely decision support. Real-world pharmacovigilance and pharmacoepidemiology studies are therefore crucial to optimize prescribing, evaluate effectiveness, monitor drug–drug interactions, and characterize short- and long-term safety, especially in underrepresented and vulnerable populations and across innovative and complex therapies. Furthermore, integrating AI-driven approaches may strengthen proactive safety monitoring and improve patient-centered outcomes. Authors are invited to submit original articles as well as systematic reviews, meta-analyses, and review articles to this Special Issue to contribute to the implementation of real-world data for public health.

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### Guest Editor

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### Deadline for manuscript submissions

25 August 2026



## Pharmaceuticals

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### Message from the Editor-in-Chief

Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*.

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We hope to handle your contribution to *Pharmaceuticals* soon.

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### Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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