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Editorial Board

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Dear Editors,

We are pleased to submit our manuscript entitled “Enhancing Clinical Data Warehouses with Provenance and Large File Management: The gitOmmix Approach for Clinical Omics Data” to be considered for publication as an Original Research Paper. This article describes gitOmmix, an open-source tool that aims at complementing Clinical Data Warehouse systems with the management of large data files, such as those produced in medical genomics or imaging, and enabling longitudianl relationships between clinical events. To this aim, gitOmmix leverages file versioning tools (git and git-annex), a provenance knowledge graph based on the standard ontology PROV-O, and a data model that aligns the versioning system and the provenance graph. Our core contribution is a method and its implementation to record, manage, query, and retrieve omics data related to clinical events and vice-versa.

We believe that the Journal of Biomedical Informatics is an adapted venue to our contribution, as it proposes an original methodological contribution, motivated by a key clinical use case: enabling using large omics data files in association with clinically relevant information, what is central to translational bioinformatics. Indeed, large data files are generated during routine care, involved in longitudinal follow-up and complex clinical decision-making. In addition, gitOmmix is designed as an open source tool and implements FAIR principles.

This is original work that is not submitted elsewhere. No other manuscript or material about this work is under review by any journal. The people who revised the manuscript are the co-authors.

Thank you for the consideration of our manuscript for publication in the Journal of Biomedical Informatics.

Sincerely,

Bastien Rance\* and co-authors

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The authors did not have any prior discussion with JBI Editorial Board members.

Bastien Rance

