DrugBank is a widely used data source for companies working in the pharmaceutical, healthcare, and technology space. The data integrates seamlessly into in-house products, to enhance outcomes for data-driven decision-making.

Molecular Health is one such company making use of DrugBank’s extensive structured data. We sat down with Molecular Health’s Project Management Office to learn more about how they use DrugBank data to improve human health.

**TELL US MORE ABOUT YOUR ROLE AT MOLECULAR HEALTH**

The Project Management Office (PMO) resides in the core of Molecular Health GmbH and is responsible for the coordination and steering of the Molecular Health project portfolio in a multi-project landscape. The PMO communicates and coordinates between the different Molecular Health teams like Pharma, Research, Data Integration, Content Curation, Product Management, Application Development, Quality Management, and Scientific Field Support.
How Does Molecular Health Integrate AI / ML Into Its Products?

Molecular Health uses Artificial Intelligence (AI) and Machine Learning (ML) whenever appropriate for the purpose of the product we are creating. Currently, our product Molecular Health Predict (MH Predict) makes use of AI/ML techniques. MH Predict predicts the likelihood of technical success of clinical trials, a quite challenging task given the many parameters that can play a role in drug development and trial conduction. The predictive engine itself is built using ML algorithms. On top of that we offer customers insight into the “reasoning” of the predictive engine by using explanatory AI techniques. This is a rather new field in ML and we use many of the latest approaches for showing feature importance and feature effects.

How is DrugBank Used in Molecular Health’s Products?

DrugBank is one of our primary sources for drug-related information. Most importantly, Molecular Health relies on DrugBank’s drug structure, classification, synonyms, and drug targets, as well as drug-drug interactions. We combine DrugBank with other sources and in-house curation to obtain an integrated drug resource (MH Drug) which is essential for many Molecular Health products (e.g., MH Guide, MH Predict, MH Effect) and Molecular Health projects.

Why is Structured Clinical Drug Data So Important?

The field of drug discovery and development is one of the most complicated fields for data science in terms of obtaining, understanding, and transforming data. This has to do with the fact that many data are generated and kept within pharma companies, and that many data are not easy to harmonize (e.g., pharmacological assay data).

Email info@drugbank.ca to learn more

What made you choose DrugBank in your data-driven products?

We value DrugBank as a well-established, comprehensive, and constantly improving drug database. It is easy to use, has excellent support, and a very high quality of drug information.