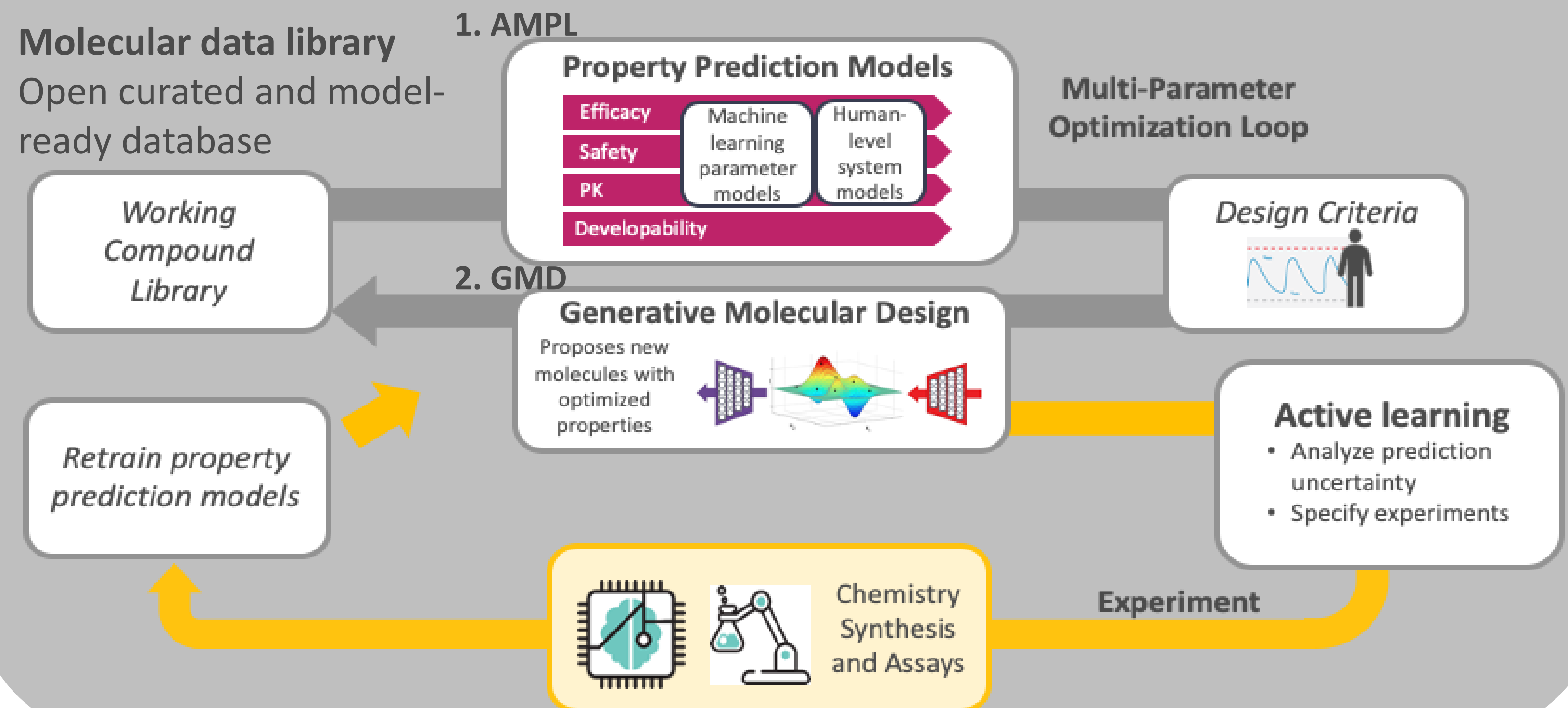
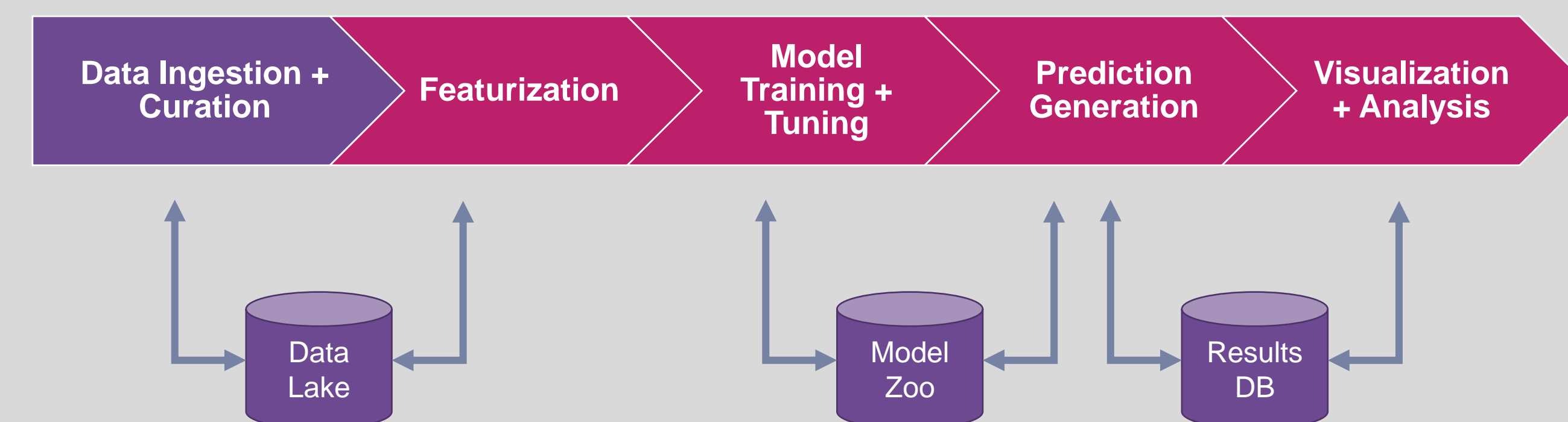


ATOM Workflow

AI and computing-driven molecular discovery and optimization



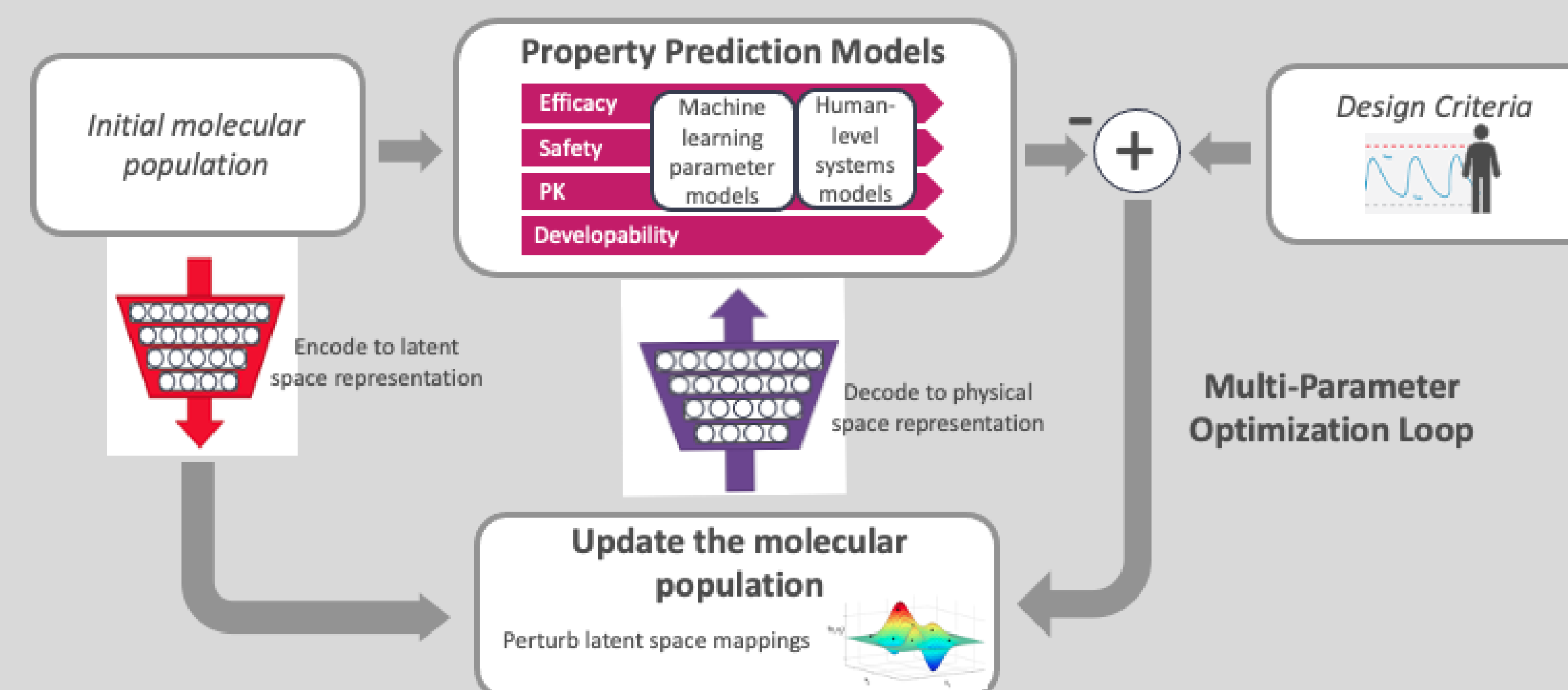
1. AMPL Pipeline



1. AMPL (ATOM Modeling PipeLine):
 Predictive modeling: training, optimization, and property prediction

2. GMD Design Workflow

Cancer Drug Discovery (new molecules Optimized Properties)



2. GMD: A high-performance platform for parallel optimization of efficacy, safety, and pharmacokinetics

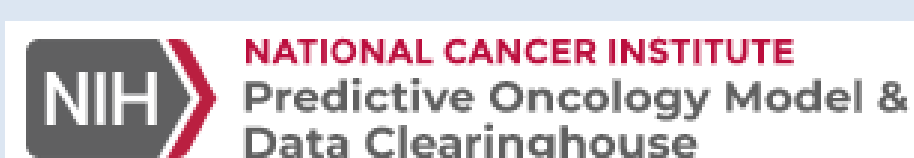
Publicly Available Data and Models through:

[ATOM Science-org/AMPL](https://atom-science-org.github.io/AMPL)



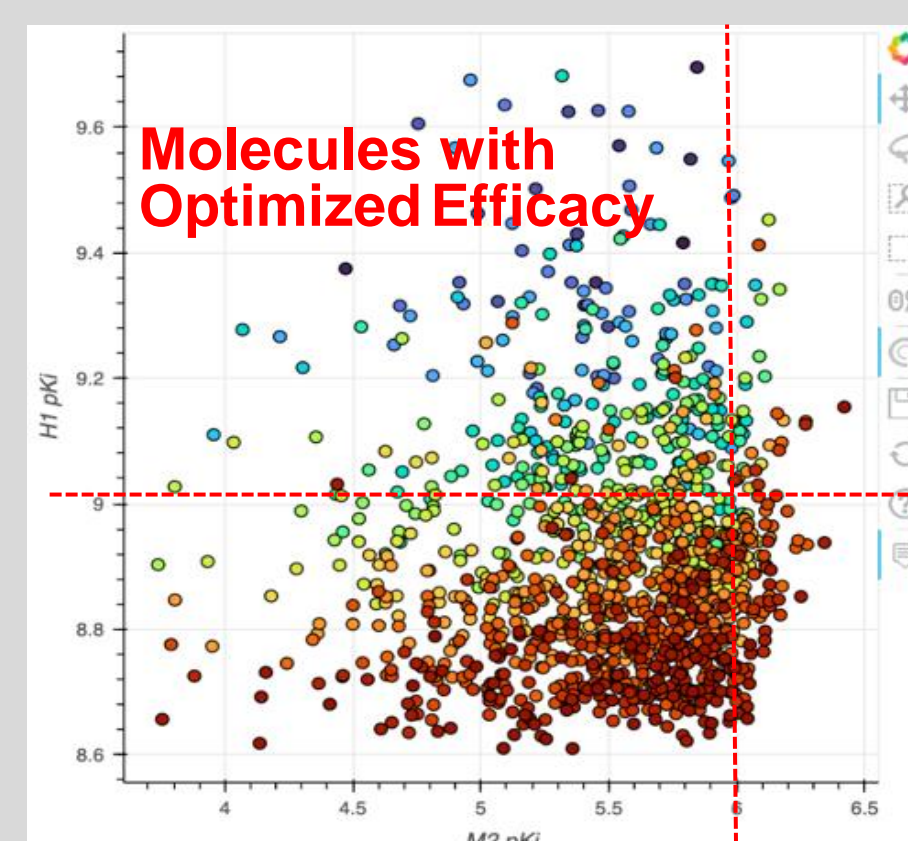
- [AMPL Tutorial](#)
- [Curated dataset](#)
- [AMPL Predictive Models](#)

[Model and Data Clearinghouse \(MoDaC\)](#)



- A data-sharing repository
- Resources include datasets and software models
- Searchable against metadata and downloadable

GMD Pilot Project: Neurocrine H1 Design



X-axis: **M2 muscarinic receptor pKi < 6**
 Y-axis: **H1 histamine receptor pKi > 9**
 (Publication will be available soon)