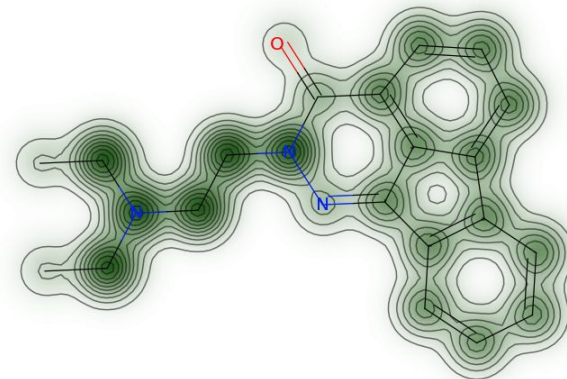
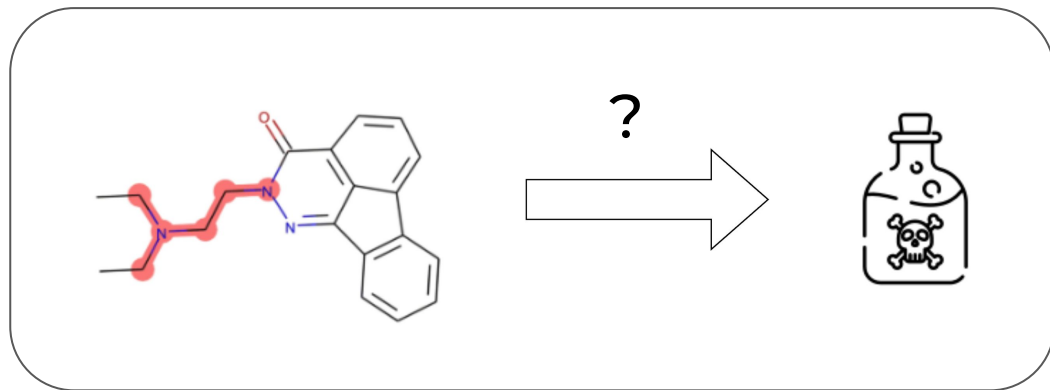


# Cytotoxicity Maps



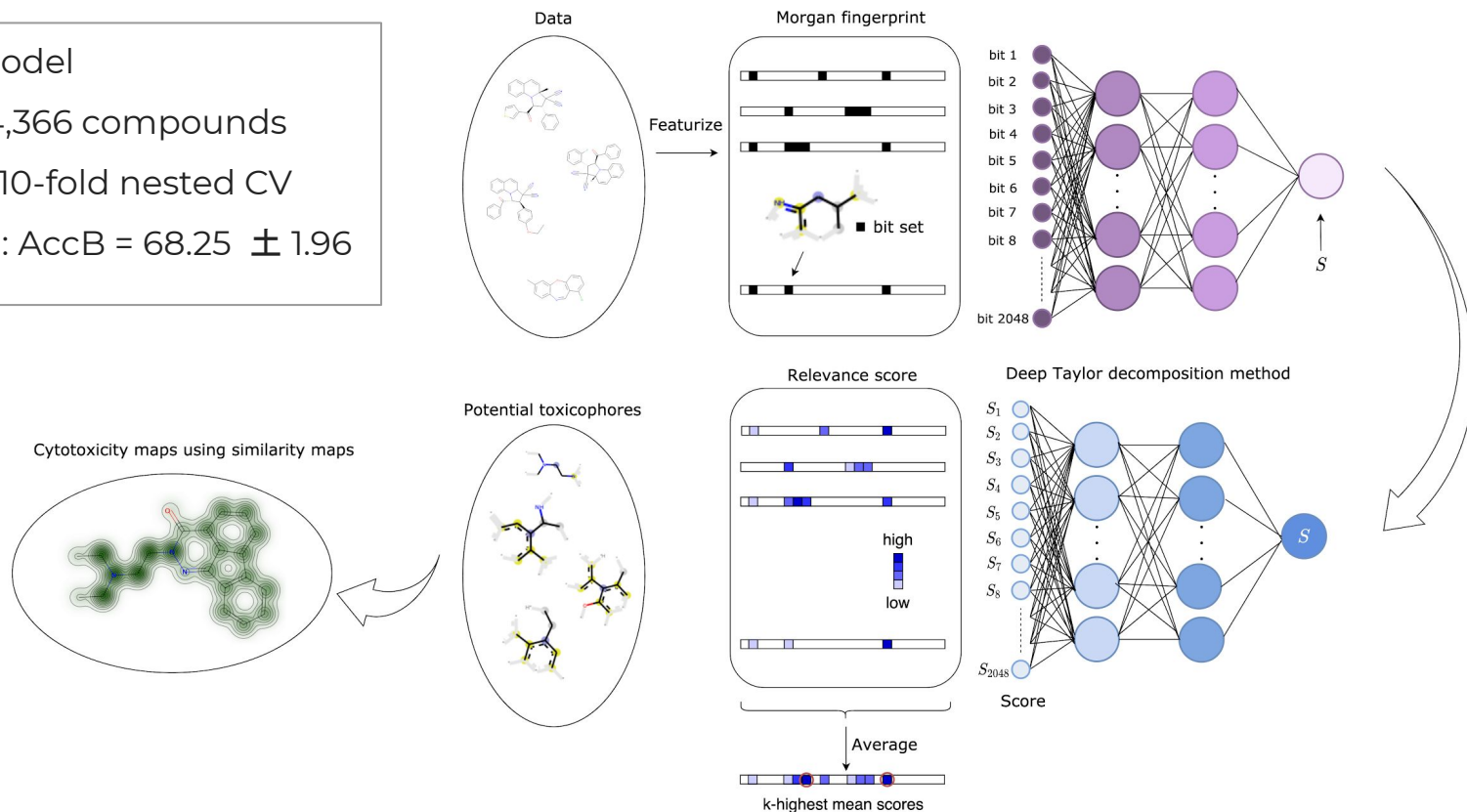
## Drug Discovery Pipeline



# Workflow

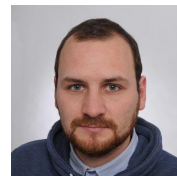
## Our cytotoxicity model

- FMP data: 34,366 compounds
- Model: FNN, 10-fold nested CV
- Results (test):  $\text{AccB} = 68.25 \pm 1.96$



# Acknowledgements

- Henry Webel, Novo Nordisk Foundation Center for Protein Research, University of Copenhagen
- Andrea Volkamer <https://volkamerlab.org/>  
Charité-Universitätsmedizin Berlin
- FMP: Leibniz Research Institute for Molecular Pharmacology
  - Silke Radetzki, Martin Neuenschwander, Marc Nazaré



## Reference

Webel, H.E., Kimber, T.B. et al. Revealing cytotoxic substructures in molecules using deep learning. *J Comput Aided Mol Des* 34, 731–746 (2020). <https://doi.org/10.1007/s10822-020-00310-4>