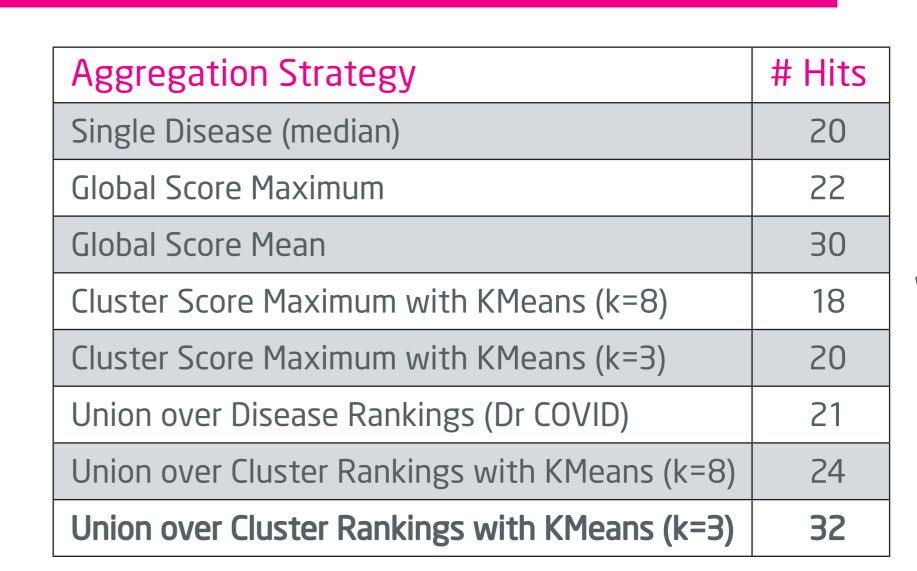
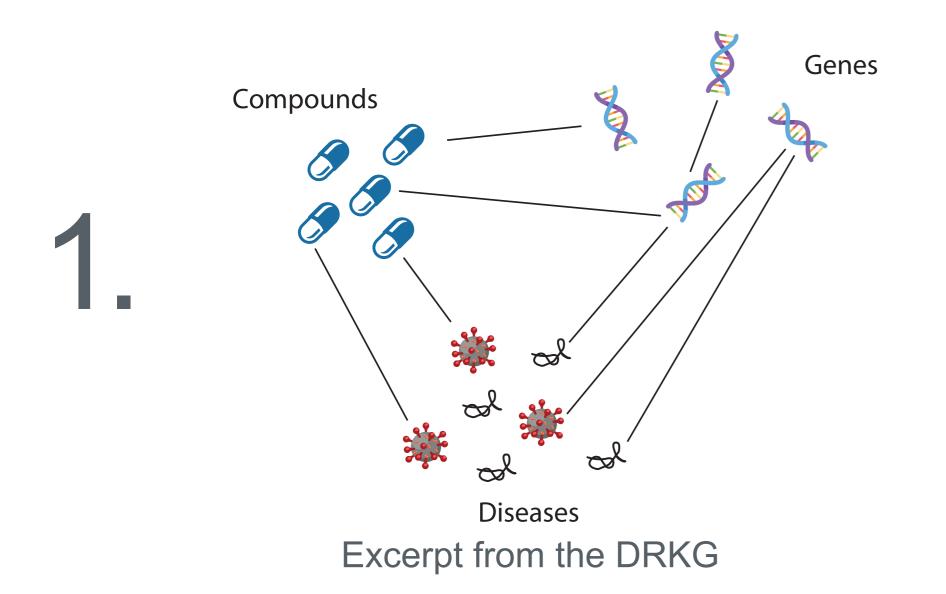
Drug Repurposing for Multiple COVID Strains using Collaborative Filtering

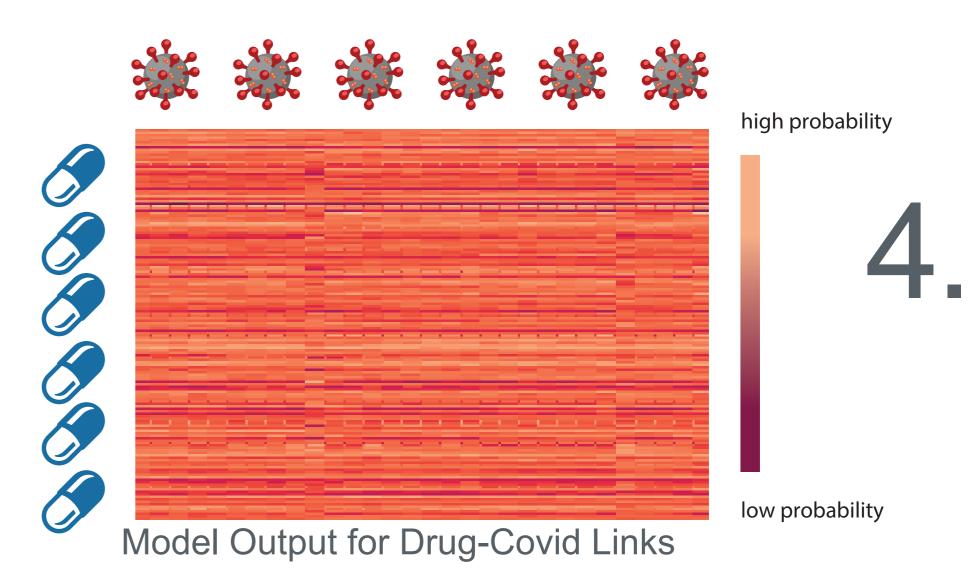
Otto Kißig, Martin Taraz, Sarel Cohen, Vanja Doskoč, Tobias Friedrich

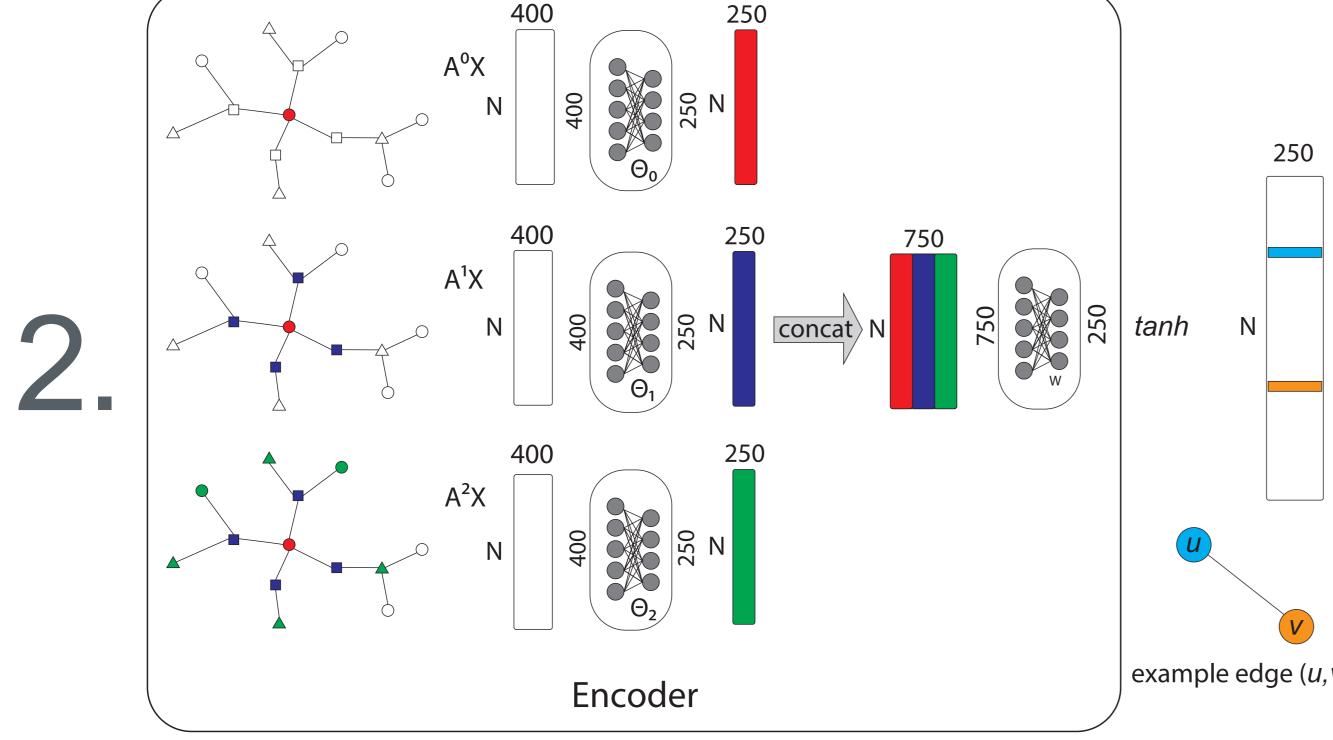
From Knowledge Graph to Drug Candidates

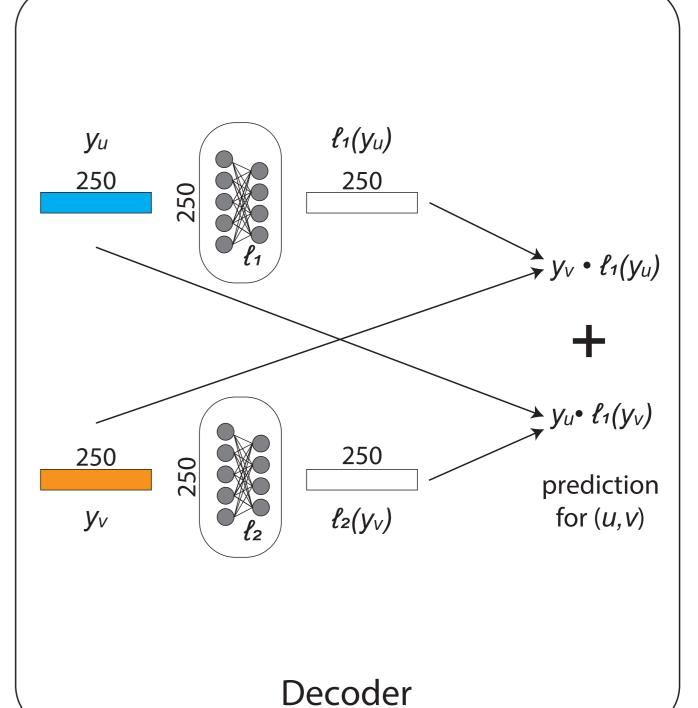
- 1. Prepare the Drug Repurposing Knowledge Graph (DRKG)
- 2. Derive neighborhood-aware embeddings
- 3. Predict probability for all Drug-Covid links
- 4. Map probability matrix to scores per drug
- 5. Derive a ranking and select top-100 drug candidates











example edge (*u*,*v*)

Encoder Decoder Architecture

