(1) Collecting DR successful cases

"Drug repositioning" AND examples

"Drug repositioning" AND review

3 papers

- Xue *et al.*, 2018
- Jarada *et al.*, 2020
- Li and Jones, 2012

Original Disease | **Drug** | **New Disease**

(2) Pre-processing DR cases

Search and selection of cases in the literature

Extraction of UMLS CUIs via UMLS API

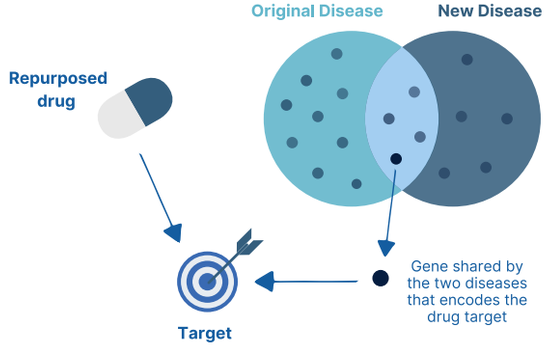
Selection of non repeated cases across the publications

Mapping to DISNET knowledge base terminologies

Filter cases that have information of genes, symptoms and drugs

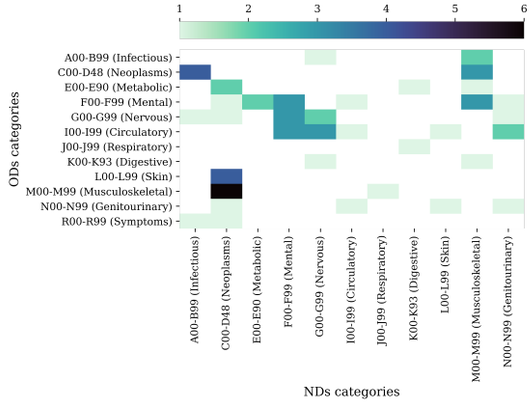
(3) Analyses

Genes



Symptoms

Phenotypic distance

$$Jaccard(A,B) = \frac{|A \cap B|}{|A \cup B|}$$

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