Table S1: List of IDs and other information retrieved from each database.

Database	Compound Information	Gene Information	Pathway Information
KEGG	• ID (prefix "C") • Synonyms • Other IDs (ChEBI, CAS)	• ID (prefix "hsa") • Other IDs (UniProt, KEGG, Ensembl, HUGO name)	• ID (prefix "map" and "hsa") • Name
HMDB	• ID (prefix "HMDB") • Synonyms • Other IDs (ChEBI, DrugBank, ChemSpider, KEGG, BioCyc, PubChem compound, CAS)	• ID (UniProt) • Other IDs (HUGO name)	• ID (SMPDB id) • Name • Ontologies (biofluid type, cellular location, origins, tissue location)
Reactome	• ID (ChEBI ID)	• ID (UniProt)	• ID (prefix "R-HSA-") • Name
WikiPathways	• ID • Other IDs (HMDB, KEGG, PubChem compound, ChEBI, CAS, ChemSpider)	• ID • Other IDs (UniProt, Entrez, Ensembl)	• ID (prefix "WP") • Name • Category (e.g. Metabolism)