David Mendez, Ricardo Arcila, Anna Gaulton, A. Patrícia Bento, Fiona Hunter, Francis Atkinson, Aldo Segura-Cabrera, Chris Radoux, Nicolas Bosc
Jon Chambers, Marleen De Veij, Anne Hersey, Paula Magariños, Eloy Félix, Juan Mosquera, Laura Junco, Prudence Mutowo, and Andrew R. Leach
European Molecular Biology Laboratory-European Bioinformatics Institute (EMBL-EBI), Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SD, UK

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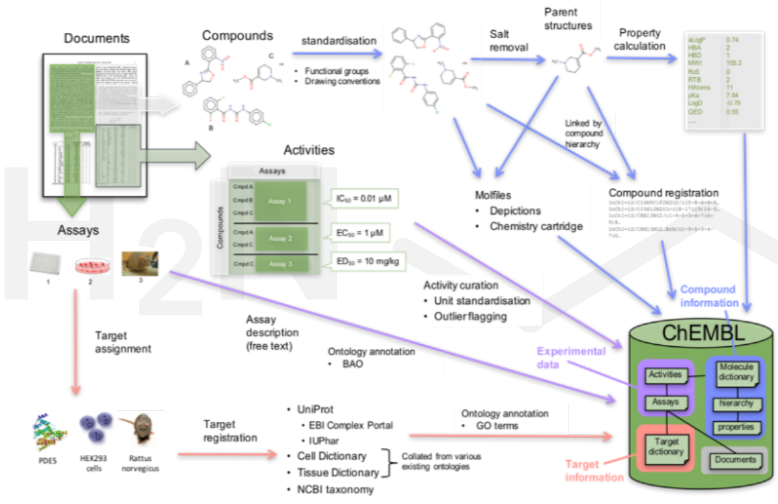
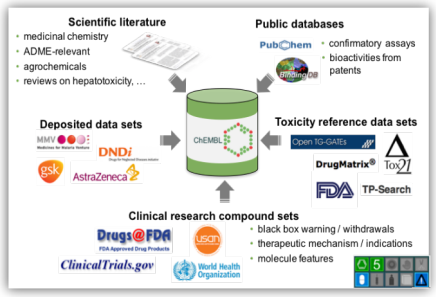
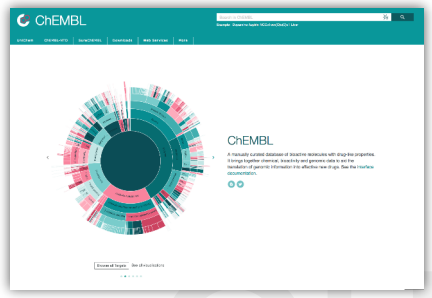
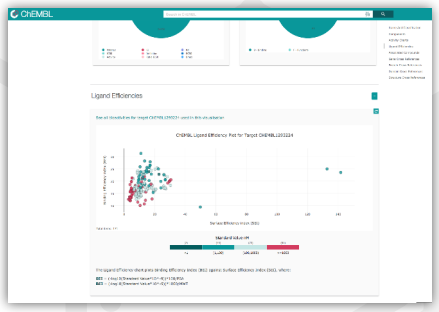
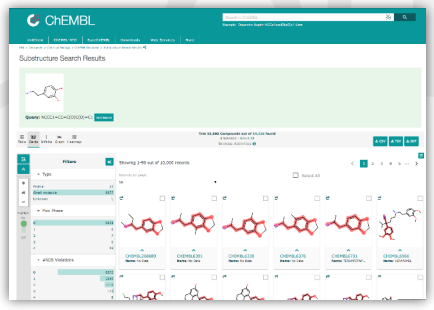
CURATION & STANDARDISATION











Why & How?

Free, publically accessible database

High quality, extensive, curated data:

- 12,091 biological targets (including proteins and organisms).
- 1.8 million distinct compounds (small molecules or peptides).
- 15 million bioactivities (binding, functional assays and ADMET).
- From 69,000 scientific papers.

https://www.ebi.ac.uk/chembl/beta

Scan me!

BIOACTIVITY DATA ANALYSIS ON THE GO

Going FAIR

Findable

- Unique and persistent identifiers.
- Machine readable metadata available.
- Data is discoverable through search indexes.

Accessible

- Our entire database is downloadable.
- The interface code is open source and universally implementable.

Interoperable

- The data is exposed in RDF format.
- ChEMBL uses well-known ontologies such as BAO, Uberon, EFO among others.

Reusable

- Data is available under CC BY-SA 3.0.
- Source datasets are linked and retrievable.
- Broadly used within the community.

Open Targets · HECATOS · EUTOXRISK · wellcome trust

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