

Collaborative research for rare diseases in the EU: the role of Orphanet in its implementation

Ana Rath ana.rath@inserm.fr

CONFERENCE - Rare diseases and the European reference networks: how to guarantee European solidarity for patients?

Bilbao, 11 October 2023





Orphanet data are used to provide services



Access to datasets





Data analysis tools





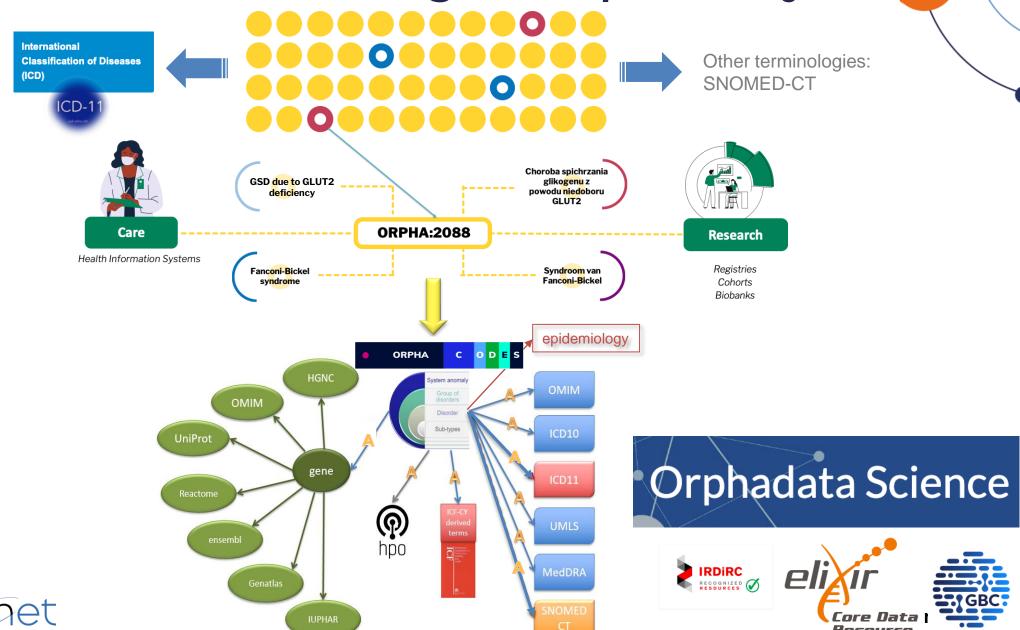






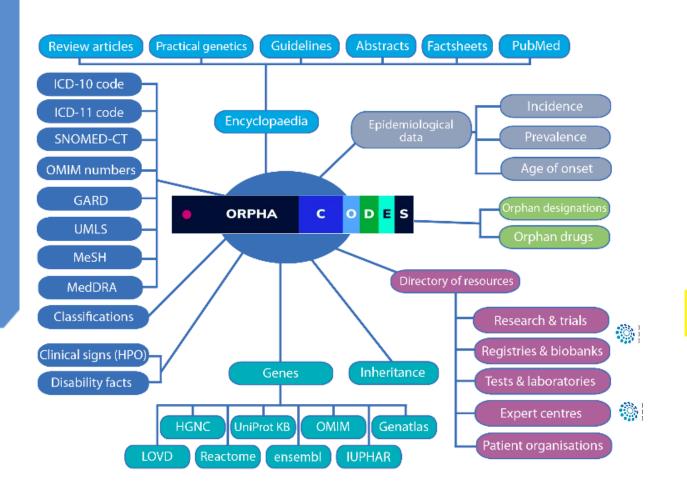


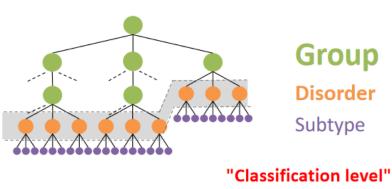
Orphadata Science: building interoperability for RD



Systematic, standardized data collection allows for data exploitation









Comprehensive, standardized, evidence-based, interoperable, versioned, computable and free (CC-BY 4.0)





Orphanet in the RD research ecosystem

- To give visibility to RD (and ERN) research
- Provide computable reference data
- Tools for researchers, data sources and funders, within EU funded projects

- Structured catalogue of projects, trials, registries, biobanks, infrastrcutures, orphan designations and drugs ...
- **Orphanet Report Series**
- ERN clinical research platform



- Orphadata: data and tools
- Phenotypic-based variant prioritisation



PCOMs repository



Funded research analysis platform



- Semantic mapping services







RD research ecosystem:

From a heterogeneous, non-interoperable, scattered resources landscape ...



Registries/ biobanks catalogues Cell lines Animal models





Knowledge bases





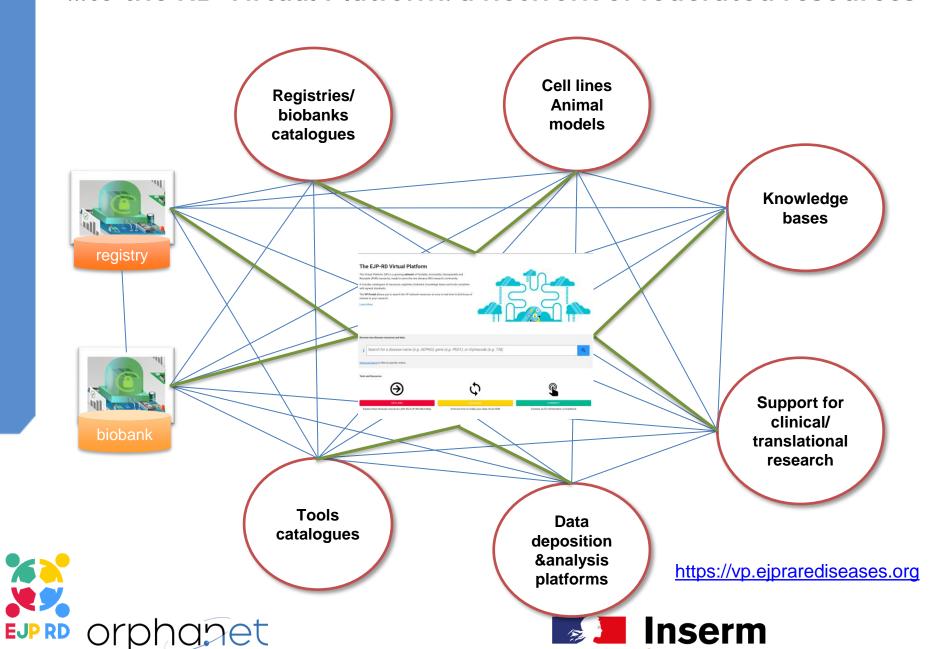


Support for clinical/ translational research





...to the RD Virtual Platform: a network of federated resources





Decreasing fragmentation

Increasing interoperability

Increasing RD-readiness

through

Harmonisation

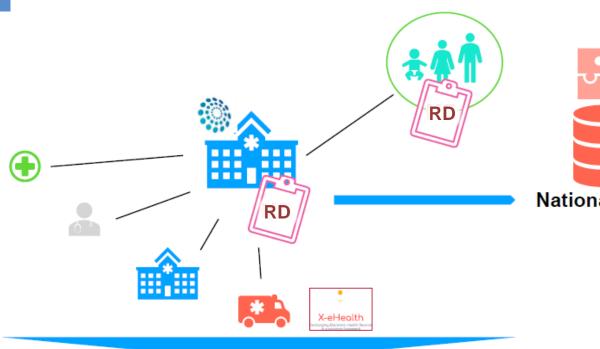
Standardisation

in a flexible way:

Common methodologies
Multipe technical
solutions

www.orpha.net

The future: RD in the data ecosystem







Primary use

- Better knowledge, best practices
- Continuity of care
- Better disability evaluation and compensation
- Adequate cross-border and primary care

Secondary use

- Research
- Evidence-base decision-making



THANK YOU FOR YOUR ATTENTION

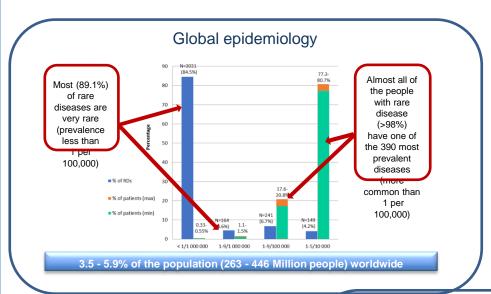


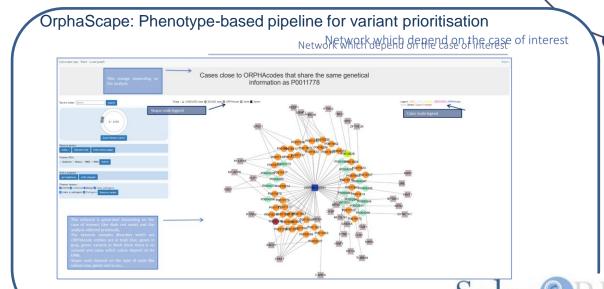


Orphadata science facilitates new

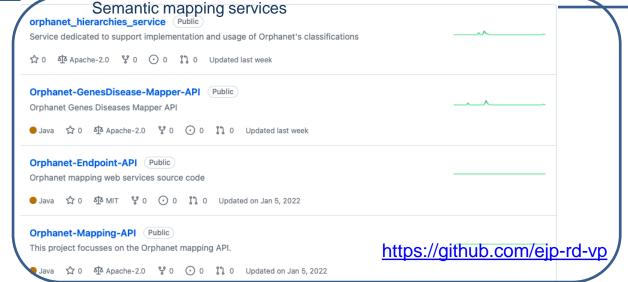
V

knowledge





https://www.nature.com/articles/s41431-019-0508-0





www.orpha.net

Solving the Unsolved Rare Diseases

Orphanet Report Series

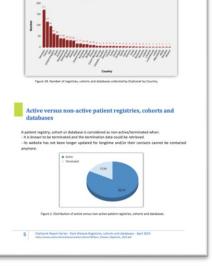


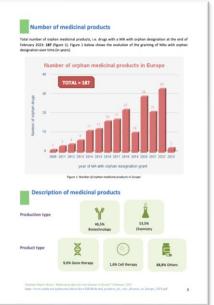
Medicinal products for rare diseases in Europe February 2023

https://www.orpha.net/consor/www/cgi-bin/Education_Home.php?Ing=EN

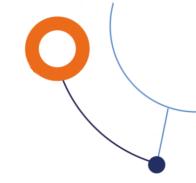


Orphan Drugs



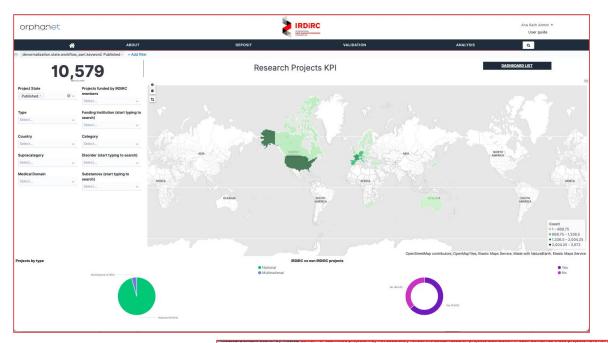


Inserm

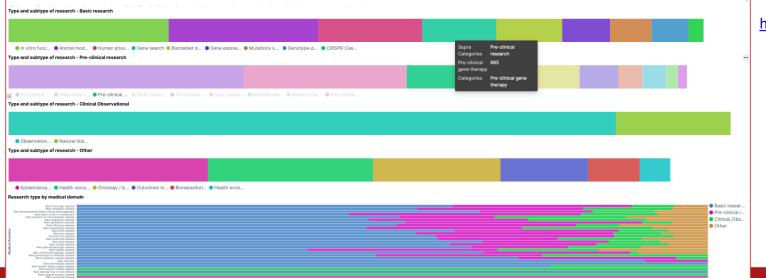




Visualisation & analysis of funded research



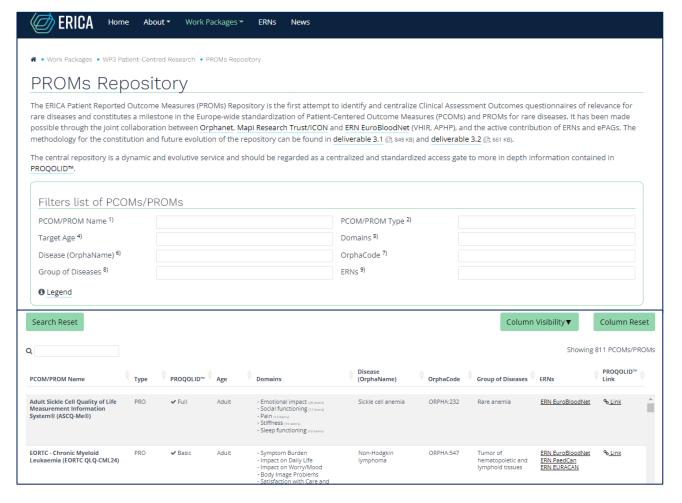




https://rare-research.orphanet.org







ERICA PROMs repository

https://erica-rd.eu/work-packages/patient-centred-research/proms-repository/











Phenylketonuria

Suggest an update

Disease definition

A rare inborn error of amino acid metabolism characterized by elevated blood phenylalanine and low levels or absence of phenylalanine hydroxylase enzyme. If not detected early or left untreated, the disorder manifests with mild to severe mental disability.

