European Bioinformatics Institute - EMBL-EBI (UK)



# BioStudies database: aggregating all outputs of a life sciences study

BioStudies is a database at EMBL-EBI that facilitates transparency and reproducibility of research, by aggregating all the outputs of a study (a 'data package') in a single place.

Time

#### Data generation

- Linking data in community archives
- Support for data without a community archive
- Support for project data sharing and transition to publication

### Article publication

- Direct deposition
- Integration with journals (aspiration)

## Post-publication

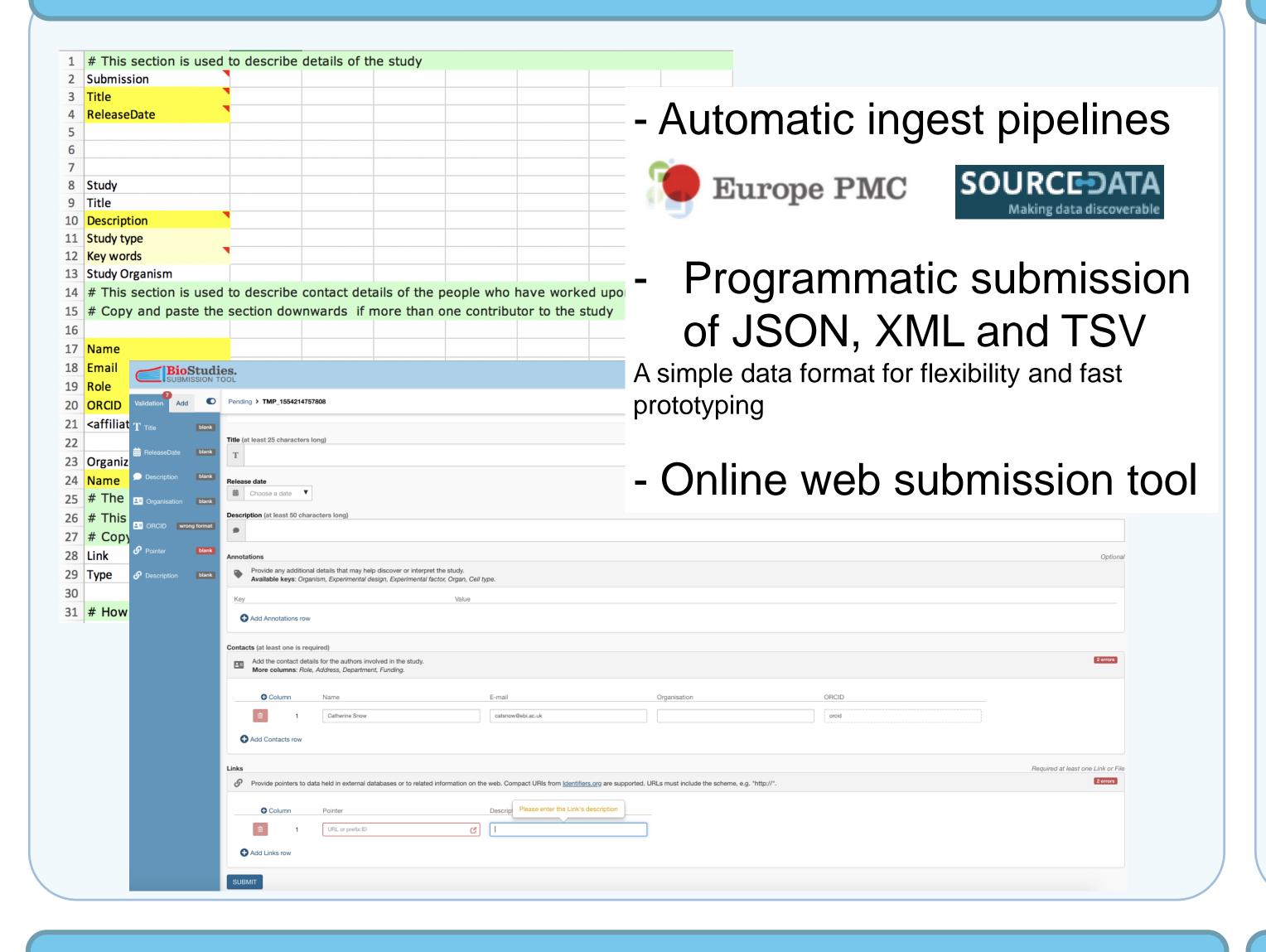
- Import from Europe PMC
- Makes data citable and findable independent of the article

## Data rescue

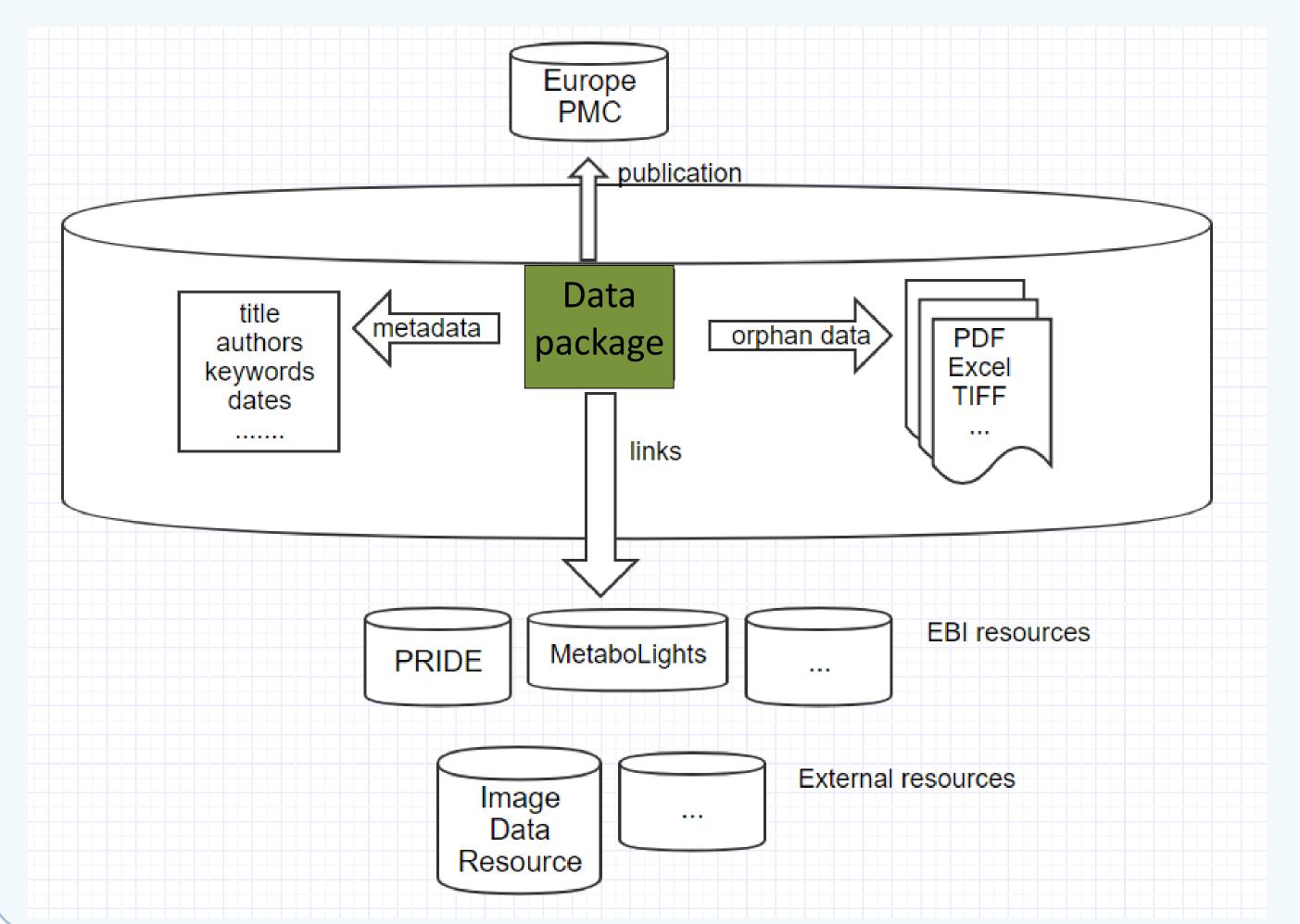
- Home for large datasets from retired projects
- Cost-efficient data sustainability

Better for: reproducibility, open science, FAIR data

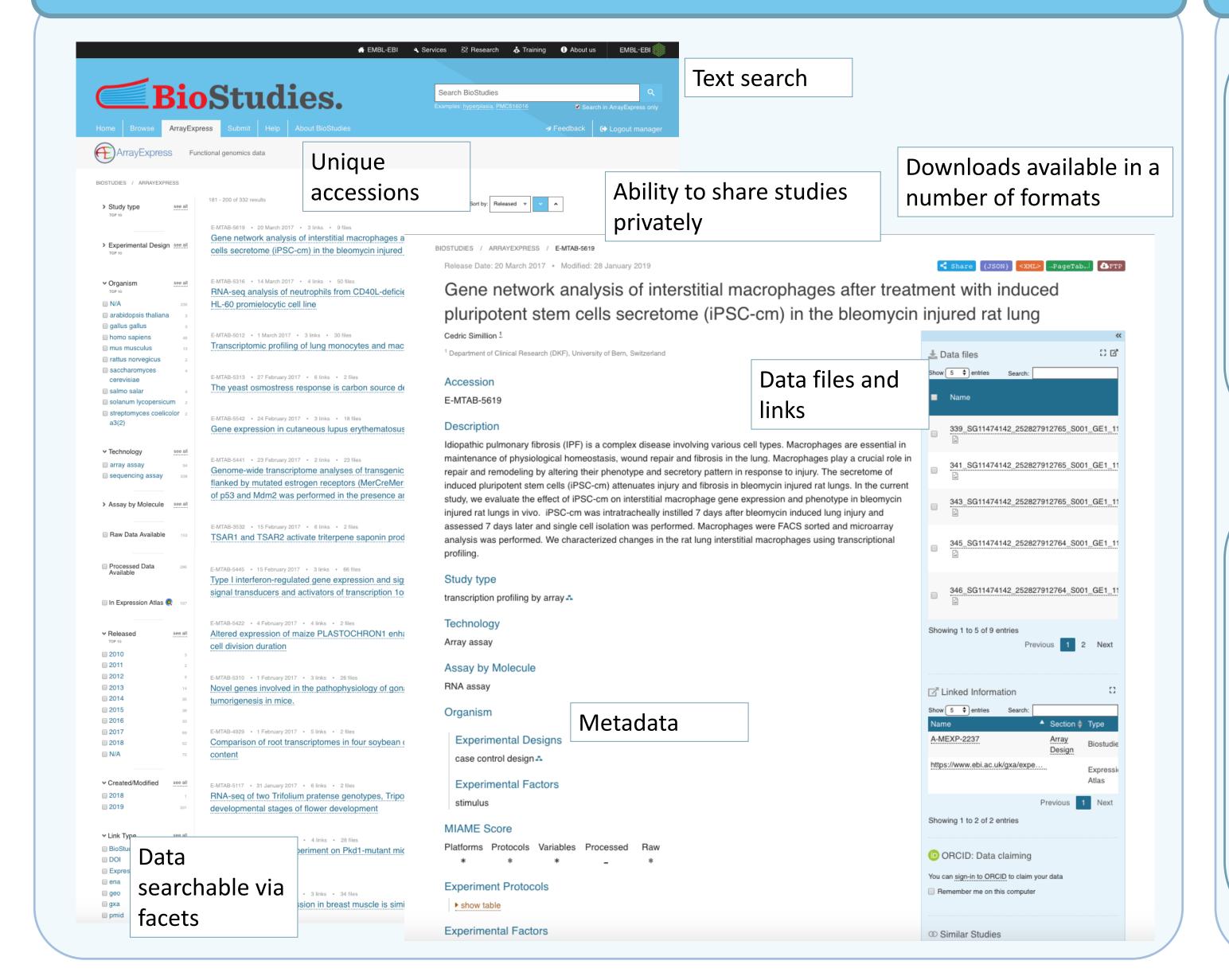
#### Data submissions



## Generic data model



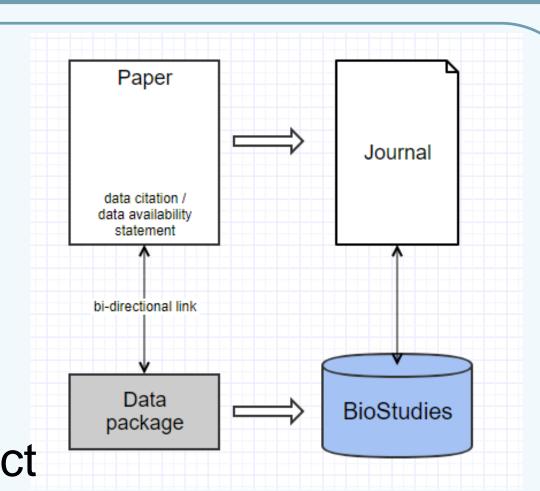
#### Data access

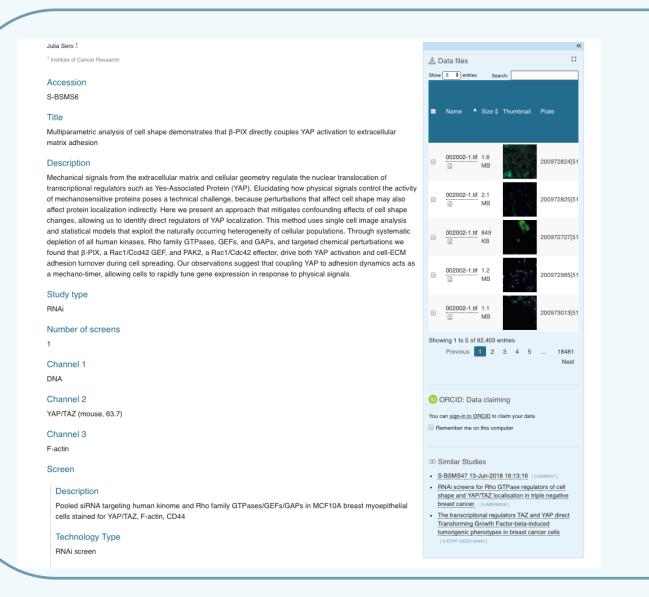


## Some future developments

More data packages created prepublication:

- Links from paper to data can be created
- Mechanisms to ensure better annotation for supplementary data, specific for journal/community/project





BioStudies as a pilot infrastructure for light microscopy data management, providing capabilities of visual representations for images and easy means to explore and download large datasets

