

Identifiers.org protected data feature

EMBL's European Bioinformatics Institute (EMBL-EBI)

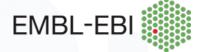
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Identifiers.org & EMBL-EBI



identifiers.org provides two services to its users



- Curated registry of online data collections
- Resolver of online locations for entries in data collections
- Maintained and hosted by the European Bioinformatics Institute
 - World leading source of public biomolecular data
 - Part of the European Molecular Biology Laboratory (EMBL)
 Europe's flagship laboratory for the life sciences
- Registry curation
 - Registry is maintained up to date to the best of our abilities
 - New entries are created on demand



Persistent identifiers (PIDs) and our resolver

- Global PIDs rely on collection identifiers and local entry identifiers
 - Each collection as a unique prefix (e.g. uniprot, biostudies, drugcentral, etc)
 - Assuming each entry in a collection has a persistent local ID (e.g. accession numbers)
 - PIDs are compact identifiers composed of prefix and local ID [1]
- Our resolver
 - Our registry include URL patterns for each data collection
 - From that, our resolver finds updated online locations for any PIDs
 - URLs identifiers.org/<PID> always redirect to a valid online location

for example: identifiers.org/uniprot:P12345

[1] https://doi.org/10.1093/bioinformatics/btaa864

21 September 2023 EOSC Symposium 2023 Harmonised PID practices for protected data



Protected data feature

- Some collections are **not** openly accessible directly
- Authentication is sometimes required to
 - Determinate access level
 - · Constraint and identify access
- Current use cases
 - Sensitive information
 - Costly data access
- New identifiers.org feature: Protected resources
 - Continued lightweight and inclusive design



Protected resources in identifiers.org

- Extra information added to these protected entries
 - High level description on how to access entries
 - *URL* for more information on the process
- Collections available in different versions
 - Some versions may be protected and others not
 - Supported via multiple online resources per collection
- Optional: Landing page for these resources
 - Data providers may not have a good landing page
 - We provide an landing page in these cases
 - This page includes the help information from the previous point

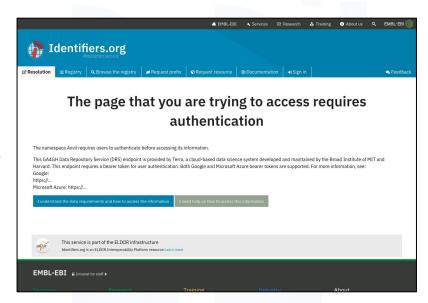


Unauthorized

This server could not verify that you are authorized to access the document requested. Either you supplied the wrong credentials (e.g., bad password), or your browser doesn't understand how to supply the credentials required.

Apache Server at data.terra.bio Port 80







Future prospects

- This is a first step in supporting sensitive information
- There are issues
 - Not very machine actionable
 - Not much metadata is available
- We hope to evolve this as new guidelines and metadata schemas are available