

Europe PMC Roadmap - April to June 2023

Mission: "To build open, full-text scientific literature resources and support innovation and discovery by engaging users, enabling contributors, and integrating related research outputs."

Europe PMC Objectives (2021-2026)	In progress	Next / On hold	Considering
<p>High performance open access full text database and related services</p>	<ul style="list-style-type: none"> Upgrade of virtual machine infrastructure Search improvements: add a visual timeline to the date filter; testing redesign of advanced search with users; include articles with free full text links via Unpaywall in search filter Upgrade Matomo web analytics tool 	<ul style="list-style-type: none"> Search improvements: investigate biomedical tokenisers to improve searching for terms that include hyphens (e.g. gene/protein names) Migrate Europe PMC blog to a new platform 	
<p>Development of emerging open publication workflows</p>	<ul style="list-style-type: none"> Ingest and display preprint peer review information from Review Commons Ingest protocols from Protocols.io Ingest preprints from ScienceOpen Preprints Ingest full text COVID-19 preprints from Authorea, Preprints.org, PsyRxiv and Scielo 	<ul style="list-style-type: none"> Ingest and display preprint peer review information from other providers e.g. Society 	
<p>Integrate publications with data, software, people, grants, institutions</p>			
<p>Open community platform for machine learning & text mining</p>	<ul style="list-style-type: none"> Text mine RHEA, Cellosaurus and BRENDA accession numbers Add AlphaFold, BioImage Archive and RNAcentral annotations Investigate adding machine learning component in text mining pipeline to remove false positives 	<ul style="list-style-type: none"> Display accession numbers and bioentities from supplementary files on article pages 	
<p>Support open science: reuse of content, links, semantic enrichment</p>	<ul style="list-style-type: none"> Review of data links policies, processes and quality: contacting external links providers to update links 	<ul style="list-style-type: none"> Improvements to increase the Europe PMC citation network (including preprint citations) 	
<p>Meet the needs of users and key stakeholder groups</p>	<ul style="list-style-type: none"> Publication describing Europe PMC developments to improve discoverability of life science preprints Presentation of ROR integration into the grant data at the ROR Community Call 	<ul style="list-style-type: none"> 'How to make your research open with Europe PMC' webinar for researchers Webinar for Europe PMC funders 	

Completed work - Quarter 1 January to March 2023

Europe PMC Objectives (2016-2021)

Released/completed Q1 January to March 2023

■ **High performance service, continuous improvements**

- Annual update of MEDLINE data
- Search improvements: created a combined title/abstract field TITLE_ABS:
- Improved affiliation data using data from PubMed Central

■ **Development of emerging open publication workflows**

- Started ingesting preprints from AgriRxiv, AIJR Preprints, ARPHA Preprints, EcoEvoRxiv, PaleorXiv and Qeios

■ **Integrate publications with data, software, people, grants, institutions**

- Initial introduction of ROR IDs into grant data using a machine learning algorithm

■ **Open community platform for machine learning & text mining**

- Developed a text mining API to mine supplementary files for bioentities

■ **Support open science: reuse of content, links, semantic enrichment**

- '[Europe PMC Annotated Full-text Corpus for Gene/Proteins, Diseases and Organisms](#)' preprint published

■ **Meet the needs of users and key stakeholder groups**

- Completed user survey analysis
- Published [user research insights on peer review materials display](#)
- '[Preprint Peer Review And Indexer's Perspective](#)' feature published in 'Against the Grain'
- '[Searching and Evaluating Publications and Preprints using Europe PMC](#)' published in Current Protocols
- Launched forum for Europe PMC funders
- Delivered webinar on '[Discover drug targets with Europe PMC Machine Learning Dataset and Open Targets](#)'