

Press release | 2025/05/05

Infrastructure made in Europe

Ulrike Ostrzinski
Press Officer

Fon: +49 (0) 221 478 5687
pressestelle@zbmed.de
www.zbmed.de

Securing information provision in biomedicine and the life sciences

Strengthening the resilience and independence of the life sciences research infrastructure in Europe is necessary regarding the risks posed by dependencies on US-based information services. ZB MED - Information Centre for Life Sciences will therefore develop an open, reliable and sustainable alternative to the PubMed database. This alternative database will provide the currently available PubMed content as well as a technical and administrative framework for continuous expansion with new publications. A key milestone for the sustainable availability of specialised medical information has already been reached: the current contents of PubMed have been secured and are accessible via the ZB MED search portal LIVIVO.

Preparing for an emergency: PubMed restrictions

The new ZB MED database is intended to offer a replacement as seamless as possible in the event that the availability of PubMed is restricted. The familiar PubMed search interface should also be modelled as closely as possible.

The multiple backup of the data must be clarified, as must the legal framework, the workflows for data processing and compatibility with existing PubMed data formats. Automatic processes, e.g. from the controlled MeSH (Medical Subject Headings) vocabulary, are used to enrich metadata. The software components are developed as an open source solution.

Recognising that PubMed is more than just a 'simple' database, further development steps are to be prepared in the course of the project for the worst-case scenario of PubMed being shut down. This includes the development and provision of an application programming interface (API), the integration of additional sources and the maintenance and expansion of the MeSH. The German Research Foundation (DFG) offers funding opportunities for this. ZB MED is currently writing the application for an initial project.

'We must act!'

Prof. Dr Dietrich Rebholz-Schuhmann, Scientific Director of ZB MED, emphasises: "The open supply of information for health research is a very valuable asset. Until the beginning of this year, we would never have dreamed that this asset could be jeopardised. This danger now exists and we must act.

We are facing a major new challenge here, but we also see a strong community that we know well and can build on. With this project, we are taking the initiative to maintain the ability to act in national and European medical and life science research infrastructures. We will ensure the exchange of information at a high level and thus strengthen biomedical research in Germany, Europe and worldwide."

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Involvement of the scientific community

The exchange with the specialised scientific communities is to become a component of the project. Workshops are planned on site, but also digitally, both at national and European level. This bundles both expertise and resources and avoids duplication of work. An initial online meeting will take place during the application phase on 14 May 2025 at 3.30 pm in order to involve the community at an early stage, provide information and discuss needs. All interested parties from research, infrastructure and politics are cordially invited to attend.

- ▶ [Information and registration for the meeting](#)

Anyone wishing to support the project proposal entitled "OLSPub - Open Life Science Publications Database: Building a Resilient European Biomedical and Life Science Infrastructure" can do so with a letter of support.

- ▶ [All information](#)

Further Link

- ▶ [to LIVIVO](#)

About ZB MED

ZB MED – Information Centre for Life Sciences is an infrastructure and research centre for life science information and data. Its aim is to support and strengthen research for people and the environment: from medicine to biodiversity and environmental protection.

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The work of ZB MED is orientated towards the strategic guidelines:

- ▶ **Research + Networking:** We conduct research together with the regionally, nationally, European and globally networked research community.
- ▶ **Data science:** We enable data analyses and generate new knowledge through research.
- ▶ **Access to information:** We provide sustainable access to information, literature and data as a central information infrastructure.
- ▶ **Open + FAIR:** We promote open and reproducible science in line with open science and FAIR principles.
- ▶ **Knowledge & skills transfer:** We actively impart knowledge, competences and skills.

Further information can be found at www.zbmed.de
