



Open access in biomedical research

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Current situation for biomedical research results in Horizon 2020

Obligation to provide OA to publications, either through the **Self-archiving** (six-month embargo max.) or **Open Access Publishing**

Open access publishing costs eligible for reimbursement as part of the project budget while the project runs & **post-grant support being piloted** (project **OpenAIRE2020**)

Aim to **deposit** at the same time the research data needed to validate the results of the publication ('**underlying data**')

Invitation to provide a **Data Management Plan**

- What data, standard, exploitation/share/access, curation/preservation...

Possibility to voluntary **opt in** the **Open Research Data Pilot**

Opting in the Horizon 2020 Open Research Data Pilot (ORDP)

Types of data concerned:

- Data needed to validate the results presented in scientific publications ('**underlying data**')
- Other **data** as specified in **Data Management Plan** (=up to projects)

Beneficiaries participating in the Pilot will:

- **Deposit** this data in a research data repository of their choice
- Take measures to make it possible to **access, mine, exploit, reproduce and disseminate** free of charge
- Provide **information about tools and instruments** at the disposal of the beneficiaries and necessary for validating the results (where possible, provide the tools and instruments themselves)

Opt out:

- Based on no data generated, IPR protection, confidentiality, privacy, 'jeopardize main objective' and 'other reasons'

Wider context: Open Science

- No access limitations
- e.g. Virtual Research Environments

E-infrastructures
for open science

Open access
to research
results &
processes

- Alternative publishing models
- Research data standards, open metadata
- Open source
- Text and Data-Mining / Copyright
- Data protection issues

- Alternative metrics for science and research
- (Open) peer review

- Science for innovation, e.g. ICT and Art

- From isolated examples to research methods
- New ways of funding research

Citizen
engagement,
citizen science,
crowdsourcing

Evidence-based
policy making /
Global Systems
Science

- Link science and society in policy decisions
- Societal data deluge and data-intensive modelling

Catalyse a change in culture !

for researchers, research organisations and industry

Challenges, bottlenecks, gaps, needs

Horizon 2020

- Update of ORDP incl. structure and coverage, data management and DMP implementation (*As open as possible, as closed as needed*), funding and support for open access etc.

EU and world-wide

- OA policies: some progress in infrastructure, need for **co-ordination** (KE, SE, ESF, RDA, GRC etc.), **enforcement**...
- Review of **EU Copyright Directive** (Potential impact on Data analytics/TDM)
- Proposal for **EU General Data Protection Regulation** (Potential impact on research using personal data)
- **Evolution/mutation** of the scholarly publishing environment
- Digital Single Market, Industry 4.0 etc.



Contact and pointers



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EC main OA website (policy and funding)

<http://ec.europa.eu/research/swafs/>

Open Access Resources (EC Central Library)

<http://www.netvibes.com/open-access>

H2020 guidance (Participant portal)

http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/grant-management/dissemination-of-results_en.htm