Workshop: *Open Science: a landscape under construction with an horizon of possibilities*, Castro Urdiales, Nov 11-13th 2022

**Librarians and Open Science**

Javier Martínez  
Coordinador de formación y promoción
SciPy 1.0: fundamental algorithms for scientific computing in Python

Authors: Virtanen, P., Gommers, R., Oliphant, T.E., ..., Halchenko, Y.O., Vázquez-Baeza, Y.

Year: 2020
Cited by: 7753
SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor

Hoffmann, M., Kleine-Weber, H., Schroeder, S., (?), Drosten, C., Pöhlmann, S.

2020

Cell

181(2), pp. 271-280.e8

10193
DISRUPTIVE DRIVING FORCES IN LIBRARIES

DIGITIZATION
1st TRANSFORMATION:
SHIFT IN CONTENTS IN LIBRARIES

BEFORE

NOW
2nd TRANSFORMATION: LIBRARIES SUPPORT OVER THE WHOLE WORKFLOW

ASSESSMENT
- Comment
- Peer review (post-pub.)
- Measure impact (output)
- Assess researcher/team

OUTREACH
- Outreach/promotion
- Research profiles/social

PUBLICATION
- Archive or share code, video, publications, posters, presentations, etc.
- Present research findings
- Peer review (pre-pub.)
- Select journal, publish

WRITING
- Visualize
- Write or code
- Cite
- Translate

EXPERIMENT/ANALYZE
- Experiment or manage data
- Share data or workflows
- Analyze

DISCOVERY/ACCESS
- Search, access
- Alerts, recs
- Reference management
- Read/view
- Annotate/organize

PREPARATION
- Project management
- Research questions
- Funding/contracts

Adaptado de: L.Y. Conrad
Mapping Open Science Tools
The Scholarly Kitchen Blog
3rd TRANSFORMATION:
LIBRARIES’ NEW PLATFORMS IN SCIENCE PLATFORM ECONOMY

SEARCH
- Dimensions
- Semantic Scholar
- SciFinder
- DataCite
- BASE
- Discovery tools
- Service platforms
- Research portals

ACCESS
- OpenURL
- OAI-PMH
- SAML 2.0 SSO
- OA browser extensions
- Library browser extensions

CONTENT
- IEEE Xplore
- SpringerLink
- ProQuest Books
- Zenodo
- DOAJ
- Dryad
- PLoS
- PMC
- Science repositories
- Digital libraries

Tailored to institution
Easing access for institution
Promoting institution
HORIZON OF POSSIBILITIES

OS may fail? No

Productivity, efficiency
Transparency, reliability
Solidarity, accessibility
Differential evaluation
Dark route pressure
Scientific societies missing
Libraries contribution
Thank you so much!

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