PI AN

Plan your research project.

WORKFLOWY workflowy.com

Workflowy is a project management software Save and tag your online resources for easy for all work, ideas, and notes related to a project. WorkFlowy can be used for product planning, bug tracking, software, implementation, meeting notes, and more.

EVERNOTE

Capture, organize, and share notes from anywhere

DIGGO diigo.com

access anytime. Annotate webpages and

FREEDCAMP freedcamp.com

Project management software to plan and organize your project.

OPEN SCIENCE FRAMEWORK

Manage your project, share your files, and

GOOGLE KEEP keep.google.com

Google Keep is a syncing notepad that connects to Google Drive. It also supports photo notes, voice notes, and checklists.

Zotero collects all your research in a single,

images, audio and video files, snapshots of

searchable interface. You can add PDFs

web pages, and really anything else.

FXPERIMENT experiment.com

Experiment is an online platform for funding and sharing scientific discoveries

GRANTS.GOV

grants.gov

Search and apply for US governmental grant funding.

COLLECT, **ORGANIZE**

Collect, organize, and store your research information.

OVERLEAF

Overleaf is an online LaTeX and Rich Text collaborative writing and publishing tool that makes the whole process of writing, editing and publishing scientific documents much

MICROSOFT FXCFI

microsoft.com/excel

View, edit, or create spreadsheets.

GOOGLE SHEETS

del.icio.us

DELICIOUS

your own personal search engine.

Delicious is a free service designed to save what you love on the web. It's easy to build up a collection of links, essentially creating

Create, edit, and share spreadsheets online.

GOOGLE FORMS google.com/forms

ZOTERO

Create a new survey on your own or with others at the same time. Choose from a variety of survey types and analyze results in Google Forms

MENDELEY

Tool to organize, read and annotate documents in one place; allows easy creation of citations and bibliographies from thousands of style types.

DESCRIBE

Annotate your research findings.

MORPHO* knb.ecoinformatics.org/#tools/

Morpho allows you to describe ecological experiments and to create a catalog of data and descriptions that you can guery includes an interface to the Knowledge Network for Biocomplexity (KNB) for sharing querying, viewing, and retrieving data.

HYPOTHES.IS web.hypothes.is

Annotate the web, with anyone, anywhere.

ISA CREATOR* isa-tools.org

ISA Creator is an open source, stand-alone application that assists with planning and describing experiments and facilitates export annotating biomedical investigations and and import of data directly to and from some resulting data. It supports biomedical

TAGTEAM

tagteam.harvard.edu

FUROPE PMC

europepmc.org

Tag online resources: Generate feeds of tagged items; Organize social-tagging projects; Curate tags through a flexible filtering

Worldwide repository with access to life

GOOGLE SCHOLAR

scholar.google.com

sciences articles, books, patents and clinical

Google Scholar is a freely accessible web

search engine that indexes the full text or

metadata of scholarly literature across an

array of publishing formats and disciplines

BibExcel is designed to assist a user in

analysing bibliographic data, or any data of a

textual nature formatted in a similar manner.

DHbox provides a digital humanities labora-

tory in the cloud through simple sign-in via a

ANNOTARE*

code.google.com/archive/p/

ontologies, contains standard templates for common experimental types, and includes a design wizard for creating your own forms.

IANNOTATE iannotate.com

NIH REPORTER

GOOGLE BOOKS

books.google.com

tabula.technology

OPENREFINE

openrefine.org

with messy data.

TABULA

projectreporter.nih.gov

iAnnotate is for reading marking up and sharing PDF, DOC, PPT and image files on the go.

RePORTER is an electronic tool that allows

users to search a repository of NIH-funded

research projects and access publications

and patents resulting from NIH funding

Search a large index of full-text books.

Tabula is a free tool for extracting data from

A free, open source, power tool for working

PDF files into CSV and Excel files

ONTOMATON*

github.com/ISA-tools/OntoMaton OntoMaton provides ontology searching and

automated tagging via NCBO's Bioportal of biomedical ontologies within Google spreadsheets. OntoMaton is part of the

RIGHTFIELD* rightfield.org.uk

PAPERITY

paperity.org

in one place

SPARRHO

www.sparrho.com

that matters to you.

r-project.org

ROPENSCI

ropensci.org

cal computing and graphics.

RightField is an open source tool that allows searching and selecting of ontology terms from within Microsoft Excel. RightField allows you to assign a pre-determined list of options to a particular cell within the spreadsheet.

Paperity is amultidisciplinary aggregator of Open Access journals & papers. Free fulltext

PDF articles from hundreds of disciplines, all

Sparrho combines human and artificial intelli-

gence to help you stay on top of the science

R is a free software environment for statisti-

DISCOVER

ANALYSE

Clean and analyze the

information you've collected.

Visualize the results of your

Discover information based on your research topic. NATIONAL LIBRARY OF MEDICINE DATABASES

wwcf.nlm.nih.gov/nlm_eresources The US National Library of Medicine has over 290 databases and resources available online for biomedical understanding and

WORLDCAT worldcat.org

A global catalog of library collections.

PUBREMINER hgserver2.amc.nl/cgi-bin/miner/ homepage.univie.ac.at/juan gorraiz/bibexcel/ miner2.cgi

PubReminer exports the metadata associated with articles from the PubMed database

JAVASCRIPT INFOVIS **TOOLKIT**

philogb.github.io/jit Provides tools for creating Interactive Data

Visualizations for the Web.

Gephi is an open visualization and explo-

ration software for all kinds of graphs and

web browser.

VOSviewer is a software tool for constructing Sankeymatic creates Sankey diagrams which Inkscape is professional quality vector and visualizing bibliometric networks. These networks may include journals, researchers, or individual publications, and they can be constructed based on co-citation, bibliographic coupling, or co-authorship relations.

THE NOUN PROJECT

thenounproject.com Millions of icons for visualizations

SCI2 TOOL

sci2.cns.iu.edu

The Sci2 Tool supports the temporal, geospatial, topical, and network analysis and visualization of scholarly datasets at the micro (individual), meso (local), and macro

an environment where it can readily be manipulated, but also one in which those analyses and methods can be easily shared, replicated. and extended by other researchers.

R packages that facilitate drawing data into

SANKEYMATIC VOSVIEWER VISUALISE gephi.org vosviewer.com sankeymatic.com

TABLEAU PUBLIC

public.tableau.com

Tableau Public is free software that can allow anyone to connect to a spreadsheet or file and create interactive data visualizations for the web.

depict flows of any kind, where the width of each flow pictured is based on its quantity.

FIGSHARE

figshare.com

images, and videos.

DATAVERSE

dataverse.org

twitter.com

the live commentary.

Scientists visit the local pubs to discuss their From breaking news and entertainment to

Figshare is an online digital repository where

Dataverse is an open source web application

researchers can preserve and share their research outputs, including figures, datasets, RESEARCH FINDINGS

INKSCAPE inkscape.org

graphics software that works on multiple platforms.

BEYOND SCIENTIFIC

FOR DISSEMINATING

duarte.com/diagrammer Diagrammer has downloadable diagrams that show proximity, scale, and links to clarify hierarchy and relationships between information, making your message more easily understood.

PUBLICATION: STRATEGIES

Guidelines, strategies, and sample docu-

ments from the Yale Center for Clinical Inves-

tigation's Community Alliance for Research

SHARE. **PRESERVE**

research.

Disseminate your research to various audiences and Preserve your research for the long-term.

PROTOCOLS ONLINE protocol-online.org

slideshare.net

PINT OF SCIENCE

pintofscience.com

The Dryad Digital Repository is a curated Protocol Online is a database of research resource that makes the data underlying scientific publications discoverable, freely protocols in a variety of life science fields.

MYEXPERIMENT myexperiment.org

growkudos.com

mmunicate around it.

ZOONIVERSE

zooniverse.org

reusable, and citable,

DRYAD

datadryad.org

myExperiment is a collaborative environment where scientists can safely publish their workflows and in silico experiments, share them with groups and find those of others.

A free platform for explaining your research

in plain language, and managing how you

The Zooniverse a platform for people-pow-

possible by volunteers who come together to

ered research. This research is made

assist professional researchers.

SCIENTIFIC PROTOCOLS

protocols.scienceexchange.com A free and easy way to share scientific protocols.

MENDELEY DATA data.mendeley.com

Secure, cloud-based data storage repository that facilitates sharing and citing.

Discover, Share, and Present presentations

latest research and findings with the public.

and infographics with the world's largest

professional content sharing community.

to share, preserve, cite, explore, and analyze research data.

researchblogging.org ResearchBlogging is a system for collecting

the best blog posts about peer-reviewed

sports and politics, get the full story with all

research in every academic discipline.

sciencecafes.org

and Engagement (CARE).

goo.gl/ZdrmcP

Casual discussions about science held in casual settings. Science Cafés welcome people who may or may not typically get involved with scientific discussions to join the conversation.

SCIENCE REDDIT

reddit.com/r/science

Discussion website for science

IMPACT

research.

ENGAGE

research findings

Engage with various

communities about your

ICITE TOOL

liometrics for papers with PubMed identifiers. performance metrics, helping you to see how

ALTMETRIC FREE TOOLS

altmetric.com/products/free-tools Tools such as the Altmetric Bookmarklet for

your browser or the Explorer tool to browse and filter all of the outputs in the Altmetric database.

harzing.com/resources/publish-or perish

PUBLISH OR PERISH

BOOK METRIX springer.com/bookmetrix

iCite is a tool to access a dashboard of bib- Bookmetrix brings together a collection of your books of interest are being discussed, cited, and used around the world.

> CITESPACE cluster.cis.drexel.edu/~cchen/

A free tool for users of Scopus and Web-of-Science data capable of very sophisticated (and attractive) analysis and visualizations

100 METRICS TO ASSESS AND COMMUNICATE THE VALUE OF BIOMEDICAL RE-SEARCH: AN IDEAS BOOK. rand.org/pubs/research_reports/ RR1606

Project by the Association of American Medical Colleges (AAMC), in collaboration with RAND Europe, to help communicate the wider value of biomedical research.

IMPACT TOOLKIT FROM THE ECONOMIC AND SOCIAL RESEARCH COUNCIL esrc.ac.uk/research/impact-

Define impact and identify the principles you should be aware of when applying for funding, and provide advice and guidance to help communicating work.

IMPACT STORY impactstory.org

Discover the online impact of your research. Track buzz on Twitter, blogs, news outlets

Discover the impact of your

icite.od.nih.gov

citespace

Tool to analyse Google Scholar data

FOR MORE TOOLS, SEE '101 SCHOLARLY INNOVATIONS': http://bit.ly/2rQciBS