

デジタルトランスフォーメーション(DX)時代のデータ キュレーションと情報管理

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<https://hdl.handle.net/2324/4738597>

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Linking Scholarly Journal Articles with Associated Data and Dataset Repositories

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Updated October 2020

I ILLINOIS
University Library

Library Discovery Systems

- There is a general consensus that library discovery systems “require a fundamental re-orientation to the needs of the user” –OhioLink study, 2020.
- Studies show users have issues with the web-scale discovery systems typically used in academic libraries.
- The University of Illinois Library has developed the *Easy Search* information discovery and delivery system, emphasizing expanded access to information resources through value-added links.

Easy Search Discovery and Delivery System

- Committed to providing a discovery environment that serves as a one-stop-shopping platform for users.
- Easy Search employs a bento-style display with search results displayed in partitioned screen areas by format type – journal articles, books, local materials, web results.
- Employs variety of information resource APIs that are asynchronously searched and displayed on the screen – using article DOIs (Digital Object Identifiers) as the connecting glue.

Importance of Data in Scholarly Research

- Data management and curation are important elements in the scholarly workflow.
- Researchers take a holistic view of the research lifecycle and treat data as one of many elements in the scholarly communication workflow.
- Data generation, usage, storage, and sharing are an integrated aspect of a larger scholarly workflow.
- Data sharing mandates and growth of data sharing and reuse for research verification and reproducibility

Dataset Repositories

- Large number of local and regional dataset repositories (institutional repositories: Illinois Data Bank, Kyushu University QIR), disciplinary repositories (Protein Data Bank, PANGAEA), interdisciplinary dataset repositories (Dryad, DataCite, FigShare).
- Easy Search uses the *Scholix Framework for Scholarly Link Exchange* <http://www.scholix.org/> API to connect retrieved journal article DOIs with the associated data used by the article authors and deposited in dataset repositories.

Example Search results with Dataset Repository Links

- The Scholix links are displayed with the article search results along with other complementary links such as the Altmetric badge links, open access links from Unpaywall, full-text links from Browzine, DOI links, Bing API results, and Libguide match links.
- The Scholix links provide access to the data that was generated and/or used in a particular published research project; show what dataset repositories were used by researchers; and can help identify relevant dataset repositories for Easy Search users.

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Suggestions:







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Search Classic Easy Search

Articles – 43 Results

1: Crystal Structure of the Minimal Cas9 from Campylobacter jejuni Reveals the Molecular Diversity in the CRISPR–Cas9 Systems

Yamada, M.; Watanabe, Y.; Hirano, H.; Nakane, T.; Ishitani, R.; Nishimasu, H.; Nureki, O.; Gootenberg, J.S.; *Molecular Cell* vol: 65, issue 6, 2017, pp. 1109–1119. Scopus®, Academic Journal





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2: Crystal Structure of the Minimal Cas9 from Campylobacter jejuni Reveals the Molecular Diversity in the CRISPR–Cas9 Systems.

Yamada M; Watanabe Y; Gootenberg JS; Hirano H; Ran FA; Nakane T; Ishitani R; Zhang F; *Molecular Cell* vol: 65, issue 6, 2017, pp. 1109–1121.e3–MEDLINE, Academic Journal

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Library Catalog – 8 Results

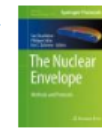
1: Plastids : methods and protocols (E–book)

● Status: (E–book) SpringerLink – Full text online
2018



2: The nuclear envelope : methods and protocols (E–book)

● Status: (E–book) SpringerLink – Full text online
©2016



3: Gastrointestinal physiology and diseases : methods and protocols (E–book)

● Status: (E–book) SpringerLink – Full text online
2016



4: Butterfly wing patterns and mimicry (E–book)

● Status: (E–book) ScienceDirect – Full text online
2018



5: Innate antiviral immunity : methods and protocols (E–book)

● Status: (E–book) SpringerLink – Full text online



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Biological Sciences

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Consumer Health Complete	0 Article Matches

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Other Resources

Title Word Matches (CrossRef)	1727958 Article Matches
WorldCat Discovery	26 Article Matches
I–Share Statewide Catalog	10 Article Matches



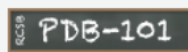
184700 Biological
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Research and Education

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Structure Summary

3D View

Annotations

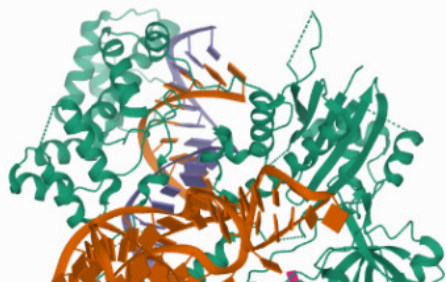
Experiment

Sequence

Genome

Versions

Biological Assembly 1 ?



5X2G

Crystal structure of Campylobacter jejuni Cas9 in complex with sgRNA and target DNA (AGAAACC PAM)

DOI: [10.2210/pdb5X2G/pdb](https://doi.org/10.2210/pdb5X2G/pdb) NDB: 5X2G

Classification: **HYDROLASE/RNA/DNA**

Organism(s): *Campylobacter jejuni* subsp. *jejuni* NCTC 11168 = ATCC 700819, *Campylobacter jejuni*, synthetic construct

Expression System: *Escherichia coli*

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Schaik, w.; van Pijkeren, J.-P.;
FEMS Microbiology Letters vol: 366, issue 22, 2020
Scopus®, Academic Journal

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5: A ribonucleoprotein transfection strategy for
CRISPR/Cas9-mediated gene editing and single cell cloning
in rainbow trout cells.

Zoppo, Marina; Okoniewski, Nicole; Pantelyushin, Stanislav; vom Berg,
Johannes; Schirmer, Kristin;
Cell & Bioscience vol: 11, issue 1, 2021, pp. 1-15
Complementary Index, Academic Journal

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6: CRISPR-Cas9, the new kid on the block of
fungal molecular biology

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Biological Sciences

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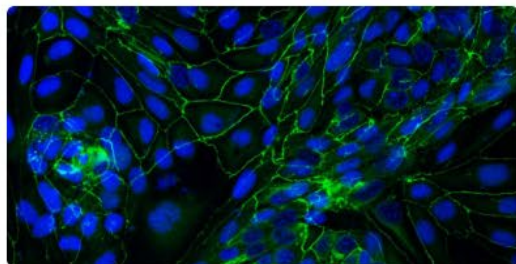
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Data for: A ribonucleoprotein transfection strategy for CRISPR/Cas9-mediated gene editing and single cell cloning in rainbow trout cells

Organization



Package Projects Activity Stream

doi <https://doi.org/10.25678/0002YM>

Data for: A ribonucleoprotein transfection strategy for CRISPR/Cas9-mediated gene editing and single cell cloning in rainbow trout cells

Background. The advent of the CRISPR/Cas9 technology marked the beginning of a new era in the field of molecular biology, allowing the efficient and precise creation of targeted mutations in the genome of every living cell. Since its discovery, different gene editing approaches based on the CRISPR/Cas9 technology have been widely established in mammalian cell lines, while

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4: Genome-Wide DNA Methylation in Peripheral Blood and Long-Term Exposure to Source-Specific Transportation Noise and Air Pollution: The SAPALDIA Study.
Eze, Ikenna C.; Jeong, Ayoung; Schaffner, Emmanuel; Rezwan, Faisal I.; Ghantous, Akram; Foraster, Maria; Vienneau, Danielle; Kronenberg, Florian;
Environmental Health Perspectives vol: 128, issue 6, 2020, pp. 067003-1- +14
Health Source - Consumer Edition, Academic Journal

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Altmetric 10

5: Enriched Conformational Sampling of DNA and Proteins with a Hybrid Hamiltonian Derived from the Protein Data Bank.
Peter EK; Cerny J;
International journal of molecular sciences vol: 19, issue 11, 2018
MEDLINE Academic Journal

wiley-LISS 2005

6: Advances in food diagnostics
Available Online
Nollet, Leo M. L., 1948-
Blackwell Pub. 2007

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May 18, 2020

Dataset

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Genome-Wide DNA Methylation in Peripheral Blood and Long-Term Exposure to Source-Specific Transportation Noise and Air Pollution: The SAPALDIA Study (Supplementary Data)

ID Eze, Ikenna C.; Jeong, Ayoung; Schaffner, Emmanuel; Rezwan, Faisal I.; Ghantous, Akram; Foraster, Maria; Vienneau, Danielle; Kronenberg, Florian; Herceg, Zdenko; Vineis, Paolo; Brink, Mark; Wunderli, Jean-Marc; Schindler, Christian; Cajochen, Christian; Rösli, Martin; Holloway, John W.; Imboden, Medea; Probst-Hensch, Nicole

The zip file contains supplementary data for the publication - Genome-Wide DNA Methylation in Peripheral Blood and Long-Term Exposure to Source-Specific Transportation Noise and Air Pollution: The SAPALDIA Study, accepted for publication in Environmental Health Perspectives (DOI: 10.1289/EHP6174).

The description of the files are noted below:

1. Readme File for SAPALDIA Noise and Air Pollution EWAS Single Exposure.zip

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(IPDPS), 2017 IEEE International, IPDPS 2017, pp. 1
IEEE Xplore Digital Library, Conference

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3: Statistical binning enables an accurate coalescent-based estimation of the avian tree.

Mirarab, Siavash; Bayzid, Shamsuzzoha; Boussau, Bastien; Warnow, Tandy;

Science vol: 346, issue 6215, 2014, pp. 463-1- +9
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Altmetric 94

4: Response to Comment on "Statistical binning enables an accurate coalescent-based estimation of the avian tree".

Mirarab, Siavash; Bayzid, Shamsuzzoha; Boussau, Bastien; Warnow, Tandy;

Science vol: 350, issue 6257, 2015, pp. 171-b- +3
Academic Search Ultimate, Academic Journal

3: Sequence Alignments and Trees for Avian 1X for Mirarab et. al.

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Mirarab, Siavash

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4: Sequence Alignments and Trees for Avian 0.5X for Mirarab et. al.

[Available Online](#)

Mirarab, Siavash

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5: Bin Definition for Super Gene Trees for Mirarab et. al.

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Mirarab, Siavash

[Resource Link](#)

6: Sequence Alignments and Trees for Mammalian 1X for Mirarab et. al.

[Available Online](#)

Mirarab, Siavash

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Avian Model Species Trees for 1X Model Condition for Mirarab et. al.

Mirarab, Siavash; Bayzid, Md Shamsuzzoha; Boussau, Bastien; Warnow, Tandy

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