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# An Overview of Data Services and the Institutional Data Repository

Chen Chiu

**Website:** [dataservices.library.jhu.edu](https://dataservices.library.jhu.edu)

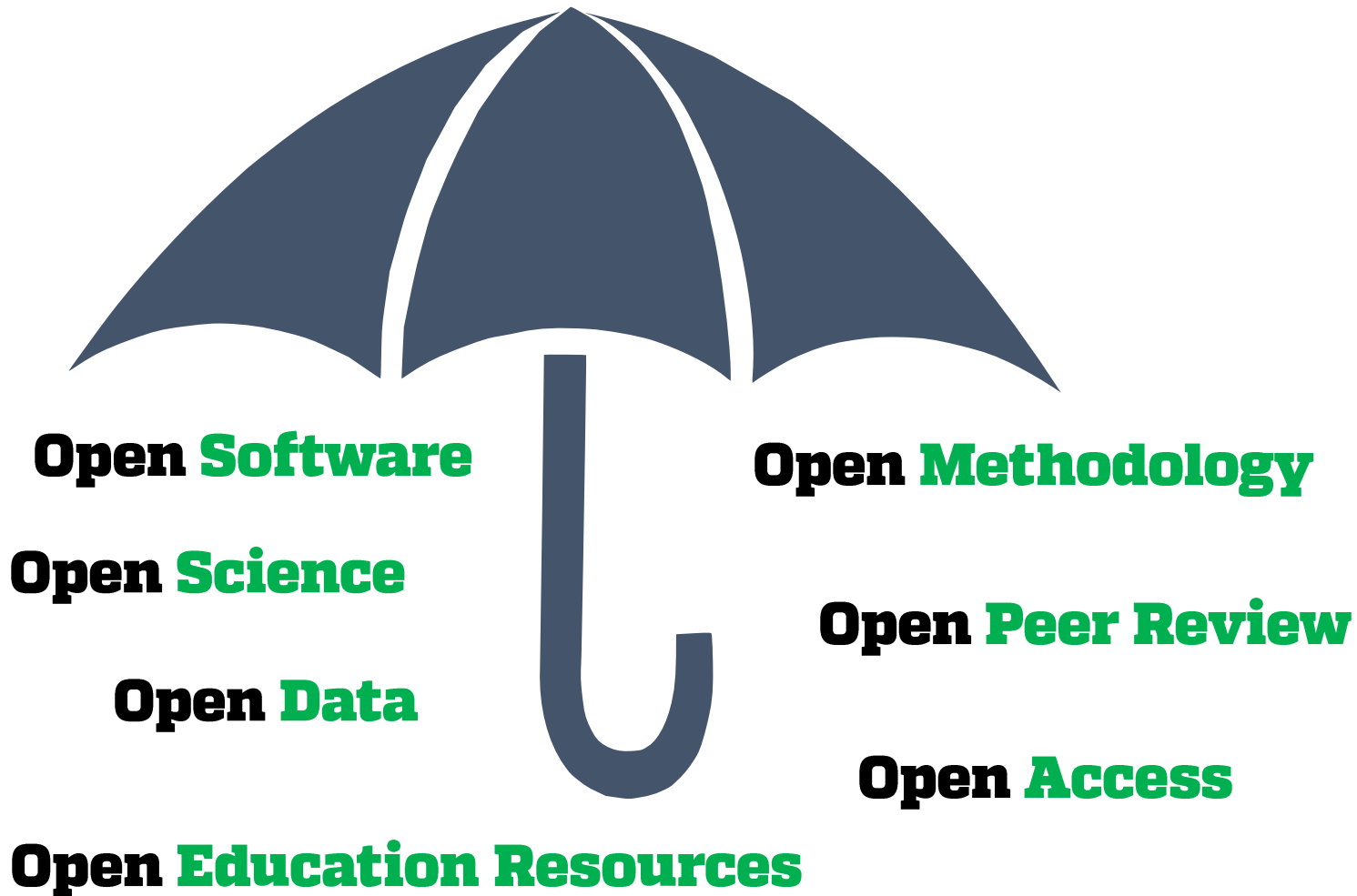
**Email:** [dataservices@jhu.edu](mailto:dataservices@jhu.edu)

**Johns Hopkins Research Data Repository:** [archive.data.jhu.edu](https://archive.data.jhu.edu)



**Data Services**

# What is Open Scholarship?



- An umbrella term for all forms of openness of scholarly products
- A change of culture from traditional scholarly outputs
- Is necessary for research reproducibility

JHU DATA SERVICES

# HELPING YOU NAVIGATE DATA

WE HELP FACULTY, RESEARCHERS AND STUDENTS



FIND



USE



MANAGE



VISUALIZE



SHARE

FIND OUT  
MORE

**GO TO** [dataservices.library.jhu.edu](https://dataservices.library.jhu.edu)

**EMAIL** [dataservices@jhu.edu](mailto:dataservices@jhu.edu)

**SHARE AT** [archive.data.jhu.edu](https://archive.data.jhu.edu)



JOHNS HOPKINS  
LIBRARIES

Data Services

## Find Data



### **FIND**

## Promote secondary data use by

- Locating open and licensed data
- Administering grant to purchase requested data

See Data & Statistics Guide for more info:

<https://guides.library.jhu.edu/data-stats/home>

## Use Data



**USE**

Gain skills to effectively use data and code through

- Workshops on data cleaning and manipulation in open-source programming languages, such as R and Python
- Consultations and workshops by one of our GIS librarians on using geospatial data

## Manage Data and Code



**MANAGE**

### Encourage research reuse by

- Teaching principles of documenting your code and data
- Reviewing funder-required data management and sharing plans

Tip: organize and document research early in your project

## Visualize Data



**VISUALIZE**

Facilitate research transparency by

- Providing consultations and workshops on designing clear and effective visualizations
- Advise on the documentation of code and methods used to create a visualization

"Designing Effective Data Visualizations" workshop  
2:00 - 3:30 PM TODAY!

## Share Data



**SHARE**

Encourage sharing scholarly products by

- Teaching and consulting on principles of deidentifying human participant data for sharing
- Operating the open access Johns Hopkins Research Data Repository (<https://archive.data.jhu.edu/>)
- Consulting on best practices to organize and document data for sharing

See PROTECTING HUMAN SUBJECT IDENTIFIERS Guide for more info:  
[https://guides.library.jhu.edu/protecting\\_identifiers](https://guides.library.jhu.edu/protecting_identifiers)





## • What is the Johns Hopkins Research Data Repository?

- An open-access repository for Johns Hopkins University researchers to **openly sharing** data and code, and for digital preservation
  - Not for active storage
  - Data/code must be free from ethical and legal constraints
- Deposits are administered by professional curators at JHU Data Services
  - Researchers cannot self-deposit
- **Generalist repository:** Accepts data and code in all formats and across disciplines



## • Features that Promote Open Scholarship

- Provides free and open access to data and code
- Makes data citable
  - Mints a permanent ID (i.e., DOI)
  - Provides a formatted data citation
- Contains metadata (i.e. descriptive info)
- Encourages reuse by assigning a licenses to your dataset

## Research data produced at Johns Hopkins University

An open access repository for Johns Hopkins University researchers to share their research data.

The Johns Hopkins Research Data Repository (formerly the JHU Data Archive) is administered by professional curators at JHU Data Services, who will work with depositors to enable future discovery and reuse of your data, and ensure your data is Findable, Accessible, Interoperable and Reusable (FAIR).

### Ready to deposit and share your data?

Click "Deposit Data" below to begin the registration and deposit process.

Deposit Data 

Request a deposit


### Want to learn more?

Information about archiving your data.

Visit Data Services 

### Datasets licensed for JHU Affiliates

Access datasets licensed by the Sheridan Libraries for JHU affiliates to use in research and teaching.

Browse licensed data sets 

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## JHU Arroyo Laboratory Data Archive

(Johns Hopkins University)

Johns Hopkins Research Data Repository > JHU Arroyo Laboratory Data Archive >

### Data associated with the publication: Stability of N-Heterocyclic carbene monolayers under continuous voltammetric interrogation

Version 1.0



Pellitero, Miguel A.; Jensen, Isabel M.; Dominique, Nathaniel L.; Ekowo, Lilian C.; Camden, Jon P.; Jenkins, David M.; Arroyo-Currás, Netzahualcóyotl, 2023, "Data associated with the publication: Stability of N-Heterocyclic carbene monolayers under continuous voltammetric interrogation", <https://doi.org/10.7281/T1/U5GUV3>, Johns Hopkins Research Data Repository, V1

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24 Downloads [?](#)

#### Description [?](#)

N-Heterocyclic carbenes (NHCs) are promising monolayer-forming ligands that can overcome limitations of thiol-based monolayers in terms of stability, surface functionality and reactivity across a variety of transition metal surfaces. Recent publications have reported the ability of NHCs to support biomolecular receptors on gold substrates for sensing applications, and improved tolerance to prolonged biofluid exposure relative to thiols. However, important questions remain regarding the stability of these monolayers when subjected to voltage perturbations, which is needed for applications with electrochemical platforms. Here, we investigate the ability of two NHCs, 1,3-

[Read full Description \[+\]](#)

#### Subject [?](#)

Medicine, Health and Life Sciences

#### Keyword [?](#)

N-Heterocyclic carbenes, monolayer self-assembly, monolayer stability, thiols, voltammetry, electrochemical sensors, monolayer reorganization, carbene salts

## Citation Metadata ^

<b>Persistent Identifier</b> ?	doi:10.7281/T1/U5GUV3
<b>Publication Date</b> ?	2023-08-16
<b>Title</b> ?	Data associated with the publication: Stability of N-Heterocyclic carbene monolayers under continuous voltammetric interrogation
<b>Author</b> ?	<p>Pellitero, Miguel A. (Department of Physical and Analytical Chemistry, University of Oviedo, Oviedo, Spain) - ORCID: 0000-0001-8739-2542</p> <p>Jensen, Isabel M. (Department of Chemistry, University of Tennessee, Knoxville, TN, USA)</p> <p>Dominique, Nathaniel L. (Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, IN, USA) - ORCID: 0000-0002-0439-9982</p> <p>Ekowo, Lilian C. (Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, IN, USA) - ORCID: 0000-0002-1731-0879</p> <p>Camden, Jon P. (Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, IN, USA) - ORCID: 0000-0002-6179-2692</p> <p>Jenkins, David M. (Department of Chemistry, University of Tennessee, Knoxville, TN, USA) - ORCID: 0000-0003-2683-9157</p> <p>Arroyo-Currás, Netzahualcóyotl (Department of Pharmacology and Molecular Sciences, Johns Hopkins University, Baltimore, MD, USA) - ORCID: 0000-0002-2740-6276</p> <p>Use email button above to contact.</p> <p>For questions about the data contact Netzahualcóyotl Arroyo-Currás via <a href="mailto:netzarroyo@jhmi.edu">netzarroyo@jhmi.edu</a>. (Department of Pharmacology and Molecular Sciences, Johns Hopkins University)</p> <p>For questions about access to the data contact Johns Hopkins University Data Services via <a href="mailto:dataservices@jhu.edu">dataservices@jhu.edu</a>. (Johns Hopkins University Data Services)</p>

## More metadata

- Subject
- Funder
- Software description
- Dataset Description
- File description

# Figure\_1.zip

This file is part of "Data associated with the publication: Stability of N-Heterocyclic carbene monolayers under continuous voltammetric interrogation".

Version 1.0

## File Citation

Pellitero, Miguel A.; Jensen, Isabel M.; Dominique, Nathaniel L.; Ekowo, Lilian C.; Camden, Jon P.; Jenkins, David M.; Arroyo-Currás, Netzahualcóyotl, 2023, "Data associated with the publication: Stability of N-Heterocyclic carbene monolayers under continuous voltammetric interrogation", <https://doi.org/10.7281/T1/U5GUV3>, Johns Hopkins Research Data Repository, V1; Figure\_1.zip [fileName]

Cite Data File ▾

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## Dataset Citation

Pellitero, Miguel A.; Jensen, Isabel M.; Dominique, Nathaniel L.; Ekowo, Lilian C.; Camden, Jon P.; Jenkins, David M.; Arroyo-Currás, Netzahualcóyotl, 2023, "Data associated with the publication: Stability of N-Heterocyclic carbene monolayers under continuous voltammetric interrogation", <https://doi.org/10.7281/T1/U5GUV3>, Johns Hopkins Research Data Repository, V1

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File Metrics ?

2 Downloads ?

This dataset is made available under the following terms. Please confirm and/or complete the information needed below in order to continue.

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Our [Community Norms](#) as well as good scientific practices expect that proper credit is given via citation. Please use the data citation shown on the dataset page.



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Accept



## • Deposit Process

Fill out our intake form found on [Repository homepage](#)

If our Repository is a good fit for your data, we will ask you to:

- a) Fill out our Deposit Form (i.e., descriptive information)
- b) Sign an Agreement (what we agree to do, and what scientist agrees to)
- c) Prepare your data (**select, clean, organize, document**) and transfer data to us (either via Sharepoint or Globus).

Data Services manages the metadata entry and data uploads

## Contact JHU Data Services

### GO TO

[dataservices.library.jhu.edu](https://dataservices.library.jhu.edu)

### EMAIL

[dataservices@jhu.edu](mailto:dataservices@jhu.edu)

### SHARE DATA AT

[archive.data.jhu.edu](https://archive.data.jhu.edu)

## Helping you



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## DATA



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