

The Cloud Resource & Information Management System (CRIMSy)

Supporting collaboration and data management in the life sciences


Frank Broda¹, Frank Lange², Fabian Mauz, Ludger A. Wessjohann³

Cloud Resource & Information Management System:

distributed infrastructure with support for discipline specific data types:

- chemical structures
- taxonomic classification
- biological sequence data (under development)

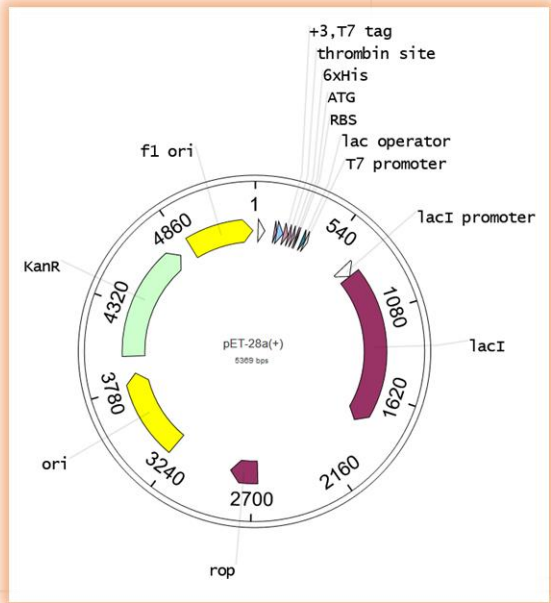
Caffeine



Alternative names: Caffeine, Coffein, Koffein

Indices:

- ▼ Plants
 - ▼ Brassicales
 - ▼ Brassicaceae
 - ▶ Arabidopsis
 - ▶ Brassica
 - ▶ Fabales
 - ▼ Gentianales
 - ▼ Rubiaceae
 - ▼ Coffea
 - Coffea arabica**
 - Coffea canephora
 - Coffea liberica
 - Coffea stenophylla
 - ▼ Solanales
 - ▼ Solanaceae
 - ▶ Nicotiana
 - ▶ Solanum



BioCloud LIMS Logout Settings

Experiments

Templates Experiments

DEMO Search

Experiments

0.08100002-001

Previous 1 Next

New experiment

Experiment records

Record last changed 9 minutes ago, created 26 minutes ago

Analysis of a *coffea* decoct

Material

- coffee (ground roasted coffee seeds) #coffee
- distilled water #water
- 2 Erlenmeyer flasks (100 ml)
- filter paper, funnel, pipette
- heat gun / hair dryer
- TLC plate + chamber
- mobile phase H2O + Acetone + EtOAc (1:3:3)

Preparation

Mix approx. 5 grams of coffee powder with 50 ml of boiling water. Stir or shake for 3 minutes and filter to obtain a clear extract. Put 1 to 2 µl of the extract on a TLC plate and dry for 3 minutes at moderate temperatures with a hair dryer. Afterwards develop the TLC plate in the TLC chamber. Measure the travelling distance for the mobile phase and the various substance spots and compute R_f values for analysis. Make photographs at different wavelengths for documentation and append them below.

References


Add links to items and/or materials

#coffee #water

Record last changed 2 minutes ago, created 20 minutes ago

Title

Thin layer chromatography at white (daylight) illumination



Record last changed 2 minutes ago, created 26 minutes ago

Analysis

- distance for the mobile phase: 80 mm
- 1st substance spot: 75 mm → R_f = 0.93
- 2nd substance spot: 68 mm → R_f = 0.85
- 3rd substance spot: 67 mm → R_f = 0.84
- 4th substance spot: 74 mm → R_f = 0.93

Spots 2 and 3 have been identified as #caffeine

#coffee

geo engine

Geo Engine: A flexible Dashboard for Exploring and Analyzing Biodiversity Data

Christian Beilschmidt



Geo Engine GmbH

- www.geoengine.de
- Contact: info@geoengine.de



Twitter

- twitter.com/teamgeoengine



Repository

- github.com/geo-engine

Philipps



Universität
Marburg

EXIST
Existenzgründungen
aus der Wissenschaft

ESF
Europäischer Sozialfonds
für Deutschland

Gefördert durch:



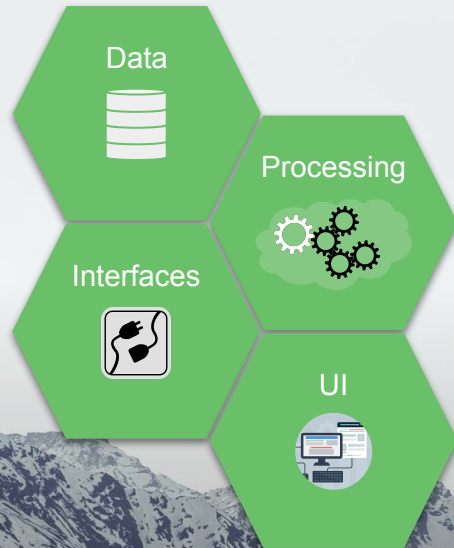
Bundesministerium
für Wirtschaft
und Energie

Aufgrund eines Beschlusses
des Deutschen Bundestages



Europäische
Union

geo engine



The screenshot shows the Geo Engine software interface. On the left, a layer list includes 'Marburg Open Forest Trees', 'Sentinel 2 Band 08', and 'Sentinel 2 Band 04'. The main map area displays a satellite image with a cluster of yellow circles. On the right, the 'Symbology Editor' panel is open, showing 'Global Layer Properties' with 'Opacity' set to 100%. Below this, there are color selection options for 'No Data Color' and 'Overflow Color', both set to 'rgb(0, 0, 0)'. The 'Colorizer' section has 'Linear Gradient' selected. At the bottom, the 'Update Color Map' section shows a histogram of the data distribution with a frequency axis ranging from 0 to 500,000 and a value axis from 0.00 to 7.00. The histogram has a peak frequency of approximately 450,000 at a value of about 1.50. Below the histogram, there are options for 'Sync map and histogram' (checked) and 'Reverse colormap' (unchecked).



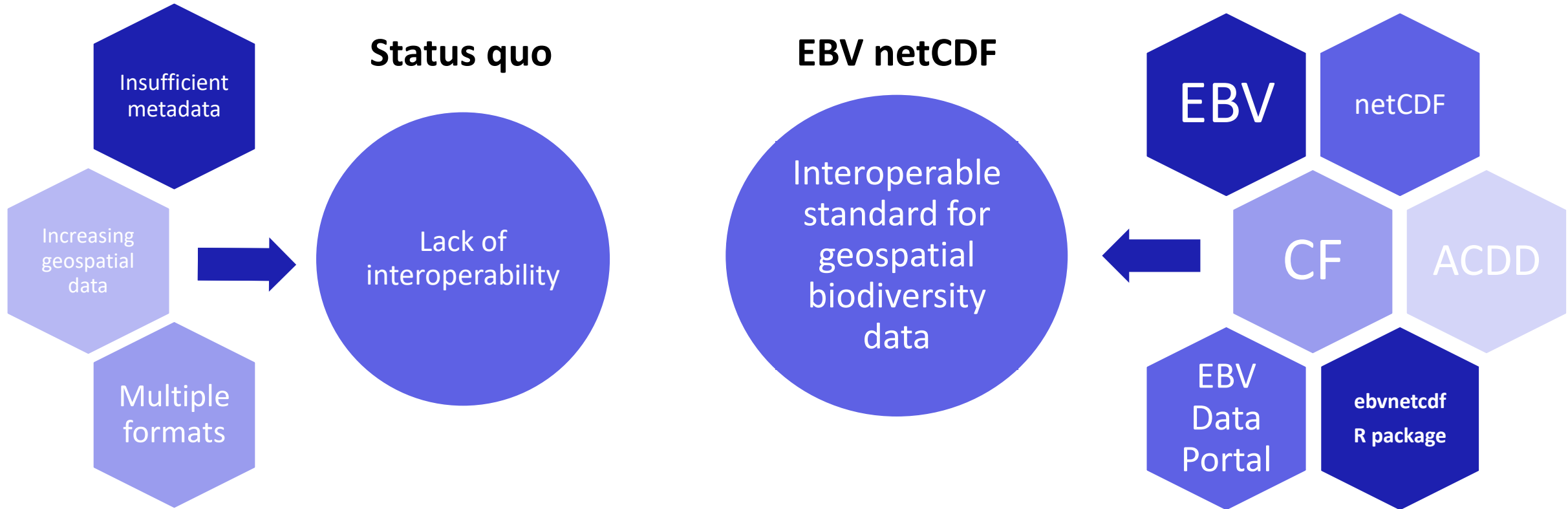
ebvnetcdf R package

Luise Quoss (luise.quoss@idiv.de)

GitHub Repository: <https://github.com/LuiseQuoss/ebvnetcdf>

EBV Data Portal Link: <https://portal.geobon.org/>

EBV netCDF data standard



ebvnetcdf R package:

Tool for scientists to easily access, visualise and create EBV netCDFs.

Cataloging Essential Biodiversity Variables with the EBV Data Portal

Christian Langer, Web-GIS Programmer
christian.langer@idiv.de

The screenshot shows the EBV Data Portal interface. At the top, there are logos for GEO BON and iDiv, along with navigation links for Home, Map, and Upload EBV dataset. A user profile for Christian Langer is visible in the top right. The main heading is "EBV Data Portal" with a subtext explaining that the portal includes various EBV raster datasets and allows for easy import and upload. Below this, there are three donut charts under the heading "Portal statistics":

- Entity Type:** A blue donut chart showing "Communities" with a count of 0.
- Spatial Domain:** A green donut chart showing "Global" with a count of 1.
- Environmental Domain:** A light green donut chart showing "Marine" with a count of 1.

Below the charts, it states "10 Datasets in total". There is a search bar labeled "Search datasets:" and a dropdown menu set to "Show 10 datasets". At the bottom, a table header is visible with columns for Title, Creator Name, Creator Institution, EBV class, and EBV name.

Input fields for metadata/data

EBV DATASET UPLOAD
portal.geobon.org


General informationEBV attributesData upload

*** required fields**

Title *
The title of the dataset.

Date of creation *
The date on which this version of the data was created in YYYY-MM-DD format.

Summary*
A paragraph describing the dataset. [Hover to see a suggestion for a good description.](#) Allowed: 1500 characters

References
Provide the DOI number of the dataset and/or associated publications. Click Plus to add DOIs. 

Provenance *
The method of production of the original data. At the minimum if it was model-generated, should name the model and its version. If it is observational, it should characterize it. A complete description would detail the multiple steps needed to generate the data. For each step it should give type of step (dataset, code, software or description of protocol), access (open or restricted) and link to code and/or publications (DOI or URL or GitHub). [Hover to see a suggestion for a good description.](#)

Coverage Content Type *
The coverage content type describes the general content type of the resource.

Processing Level
A textual description of the processing (or quality control) level of the data.

Output for metadata

```
{
  "code": 200,
  "status": "Preliminary metadata",
  "data": {
    "preliminary_id": "6123759fclfd",
    "naming_authority": "German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Mart",
    "title": "forest cover test",
    "date_created": "2021-08-02",
    "summary": "sffsfsfs",
    "references": [
      {
        "sfsf"
      }
    ],
    "source": "sfsfsf",
    "coverage_content_type": [
      {
        "referenceInformation"
      }
    ],
    "processing_level": "N/A",
    "project": "N/A",
    "project_url": "N/A",
    "creator": {
      "creator_name": "Abel Ramoelo",
      "creator_email": "N/A",
      "creator_institution": "Aarhus University",
      "creator_country": "Denmark"
    },
    "contributor_name": "N/A",
    "license": "https://creativecommons.org/licenses/by-nc-sa/4.0",
    "publisher": {
      "publisher_name": "Christian Langer",
      "publisher_email": "christian.langer@idiv.de",
      "publisher_institution": "German Centre for Integrative Biodiversity Research (iDiv)",
      "publisher_country": "Germany"
    },
    "ebv": {
      "ebv_class": "Species populations",
      "ebv_name": "Species distributions"
    },
    "ebv_entity": {
      "ebv_entity_type": "Communities",
      "ebv_entity_scope": "sfsfsfsf",
      "ebv_entity_classification_name": "N/A",
      "ebv_entity_classification_url": "N/A"
    },
    "ebv_metric": {
      "ebv_metric_1": {
        "standard_name": "fsfsf",
        "long_name": "sfsfsf",
        "units": "sfsfsf"
      }
    },
    "ebv_scenario": "N/A",
    "ebv_spatial": {
      "ebv_spatial_scope": "Global",
      "ebv_spatial_description": "N/A"
    }
  }
}
```




JeDaSS: A Tool for Dataset Summarization and Synthesis

Alsayed Algergawy, Hmadi Hamed Birgitta König-Ries

Heinz-Nixdorf Chair for Distributed Information Systems,
University of Jena

https://fusion-jena.github.io/JeDaSS_2021_poster/



JeDaSS:

A Tool for Dataset Summarization and Synthesis

Motivation

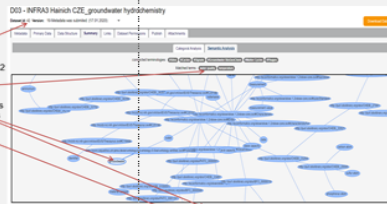
Datasets collected within AquaDiva complex and *difficult to reuse* since they are *highly diverse* and *heterogeneous*.



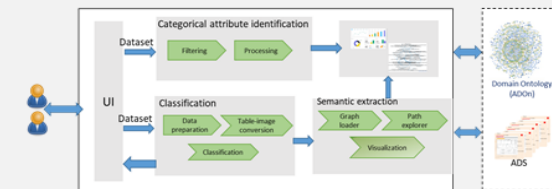
Need for *dataset analysis and summarization*

Key Findings

- Semantic analysis for dataset 42
- Domain signatures (topic), site/water quality.
- A data attribute (groundwater) is selected, the semantic analysis shows that it is related to a number of other datasets: 92, 128, 214.



Methodology: JeDaSS



Step 1: Data preparation

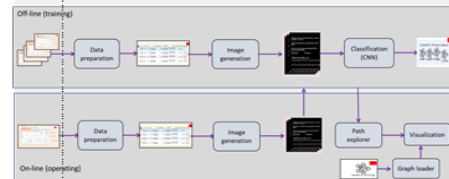
| unit | type | entity_id | entity_characteristic_id | characteristic | standard | variable_id | new_title | variable_value |
|------|--------|-----------|--------------------------|--|--|-----------------------|-----------|----------------|
| 1 | MPgram | Decimal | 4713 | http://purl.obolibrary.org/obo/ENVO_00001486 | http://purl.obolibrary.org/obo/ENVO_00001486 | Intermittent 1.2.000e | C. | Inter 1_photon |
| 2 | MPgram | Decimal | 4713 | http://purl.obolibrary.org/obo/ENVO_00001486 | http://purl.obolibrary.org/obo/ENVO_00001486 | Intermittent 1.2.000e | C. | 0.25-0.02 |
| 3 | MPgram | Decimal | 4713 | http://purl.obolibrary.org/obo/ENVO_00001486 | http://purl.obolibrary.org/obo/ENVO_00001486 | Intermittent 1.2.000e | C. | 0.08-0.14 |
| 4 | MPgram | Decimal | 4713 | http://purl.obolibrary.org/obo/ENVO_00001486 | http://purl.obolibrary.org/obo/ENVO_00001486 | Intermittent 1.2.000e | C. | 1-0.02 |
| 5 | MPgram | Decimal | 4713 | http://purl.obolibrary.org/obo/ENVO_00001486 | http://purl.obolibrary.org/obo/ENVO_00001486 | Intermittent 1.2.000e | C. | 0.02-0.04 |
| 6 | MPgram | Decimal | 4713 | http://purl.obolibrary.org/obo/ENVO_00001486 | http://purl.obolibrary.org/obo/ENVO_00001486 | Intermittent 1.2.000e | C. | 0.02-0.04 |
| 7 | MPgram | Decimal | 4713 | http://purl.obolibrary.org/obo/ENVO_00001486 | http://purl.obolibrary.org/obo/ENVO_00001486 | Intermittent 1.2.000e | C. | 0.02-0.04 |
| 8 | MPgram | Decimal | 4713 | http://purl.obolibrary.org/obo/ENVO_00001486 | http://purl.obolibrary.org/obo/ENVO_00001486 | Intermittent 1.2.000e | C. | 0.02-0.04 |

Step 2: Image generation

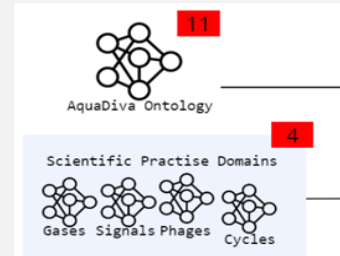
```

Weather and soil data monitoring - Heube
rg station (10 min)
http://purl.obolibrary.org/obo/ENVO_0000
1486
http://purl.obolibrary.org/obo/PATO_0000
1486
Decimal Celsius
Air temperature_mean
13.12 12.62 12.37 12.6 12.27 12.08 12.
05 12.13 12.11 12.19 12.25 11.96 12.1
11.97 11.82 11.79 11.68 11.46 11.5 11.1
    
```

Step 3: Classification



Step 4: Semantic linking



<https://dev.gfbio.uni-jena.de/daisi/>

[Dai:Si] – Modular dataset retrieval for biological data

*Felicitas Löffler¹, Fateme Shafiei¹, Sven Thiel¹, Kobkaew Opasjumruskit²
and Birgitta König-Ries^{1,3,4}*

¹*Heinz Nixdorf Chair for Distributed Information Systems, Department of Mathematics and Computer Science,
Friedrich Schiller University Jena, Jena, Germany*

²*Software Systems for Digitalization, Institute of Data Science, German Aerospace Center (DLR), Jena, Germany*

³*German Center for Integrative Biodiversity Research (iDiv), Halle-Jena-Leipzig, Germany*

⁴*Michael-Stifel-Center for Data-Driven and Simulation Science, Jena, Germany*



<https://github.com/fusion-jena/DaiSi>



@fusionUniJena

10 steps to setup [Dai:Si] for your own dataset search index



The image displays two screenshots of the Dai:Si search interface. The top screenshot shows a search for 'Viburnum lantana L.' with 1,555,110 entries found. The bottom screenshot shows a search for 'Hart D#Miller D Jay\$Volcanic ash analyses in sediments of ODP Leg 201 sites' with 405,985 entries found. Both screenshots include a map, search filters, and a list of search results with 'Open Access' and 'Citation' options.

Top Screenshot:

- Navigation: gfbio | biodiv | pangaea
- Search: [Search Bar] SEARCH SEMANTIC SEARCH
- Dataset Basket: 0
- Results: 15551109 entries found
- Page Navigation: Previous 1 2 3 4 5 6 7 8 9 10 Next
- Filters: Open Access SNSB
- Summary: http://wiki.bayern.de/wiki/Floristik/Bayerisches_Landesamt_f%C3%BCr_Umwelt
- Parameters: Date; Locality;
- Relation:
 - https://wiki.bayern.de/wiki/Floristik/Bayerisches_Landesamt_f%C3%BCr_Umwelt
 - SMNK-STUI
- Map: Europe
- Filters: Clear All Filters
- Licenses: CC BY, VCAT, Citatic

Bottom Screenshot:

- Navigation: gfbio | biodiv | pangaea
- Search: [Search Bar] SEARCH SEMANTIC SEARCH
- Dataset Basket: 1
- Results: 405985 entries found
- Page Navigation: Previous 1 2 3 4 5 6 7 8 9 10 Next
- Filters: Open Access
- Results List:
 - 2006: Hart D#Miller D Jay\$Volcanic ash analyses in sediments of ODP Leg 201 sites [Open Access] [Citation] [Checkmark]
 - 2007: Schenke Hans Werner#Gauger Steffen\$AWI Bathymetric Chart of the Gakkal Ridge (AWI BCGR) (Scale 1:150,000) [Open Access] [Citation]
 - 2004: Diester-Haass Lieselotte#Meyers Philip A#Bickert Torsten\$Sedimentology of ODP sites in the Cape Basin, southeast Atlantic Ocean [Open Access] [Citation]
- Map: Peru
- Filters: Clear All Filters, Parameter

Bridging the GAP in Metabarcoding Research: A shared repository for ASV Tables

Björn Quast, Christian Bräunig, Peter Grobe

BC ZSM Lep 28109 - *Athetis pallustris*

Taxonomie: Animalia, Arthropoda, Hexapoda, Insecta, Lepidoptera, Noctuidae, Noctuinae

Specimen Informationen:

Katalognummer: BC ZSM Lep 28109
 Katalognummer des Einsenders: FBLMV129-09
 Name des Einsenders: SNSB, Zoologische Staatssammlung
 Muenchen
 Alter: A
 Institut: SNSB, Zoologische Staatssammlung Muenchen



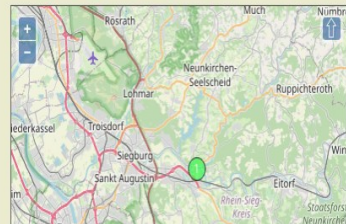
Image by ZSM Photography Team
 License: Axel Hausmann, 2010, Creative Commons - Attribution Non-Commercial
 Share-Alike

df7c732093e2b50626c7792401f800bc
 Sequenzierungs Primer Name : LC01490-JJ

Sequenzierungsdatum : 2014-05-19 00:00:00
 Sequenzierlabor : BGI
 Richtung : reverse
 Trace Date: MD5 Summe der Originaldatei :
 6688415cce69dfa3cc89a4b267852a6a
 Sequenzierungs Primer Name : HCO2198-JJ

```
GACCTTACCCCATCTTCTACTACTATTAGCCTCTTCTGGTGTGAGGC
TGGGGCCGAACGGGTGAACAGTATACCCACCGCTTGGGGCAATCTTCT
CAGCAGGGGCATCAGTAGATTAAACAATCTTCTCATCTAGCAGGTG
TATCATCAATTTAGGGGGCGTCAACTTATTACACAAATTAATATAAA
ACCCCGAGCCATCCCAATACCAACACCTCTTTGTATGAGCGTGTG
GTAACAGCGCTCTTCTCTCTATCATTACAGTTTATGCTCCGGAATTA
```

[Suche Sequenz in GBOL- oder BOLD-Datenbank](#)



Sammlungsereignis:

Sammeldatum: 26.9.2013
 Land: Germany
 Fundortbeschreibung: Siegburg
 Anzahl Individuen: 1
 Bundesland: Nordrhein-Westfalen

Tabelle hochladen Tabellen durchsuchen Taxa in Tabelle identifizieren

ASV Tabellen-BLAST

Hier haben Sie die Möglichkeit die Sequenzen in einer Ihrer ASV-Tabellen mit den Referenzdatenbanken GBOL / BOLD oder Ergebnis wird Ihnen per mail zugesandt

Bitte wählen Sie eine Tabelle aus

- GBOL-Datenbank (national, enthält auch noch nicht publizierte und ggfs. nicht final validierte Einträge).
- BOLD-Datenbank (international, bietet weitere Optionen zur Datenbankauswahl, vgl. www.boldsystems.org/index.php/IT)
- Bitte auswählen wenn BOLD Datenbank angeklückt ist.
- NCBI-Datenbank (Genom-, Gen- und Transcriptsequenzen aus GenBank, RefSeq, TPA and PDB).

<https://bolgermany.de/home/>

<https://bolgermany.de/home/gbol3/projects/>

ASV Tables become FAIR* data

*<https://www.go-fair.org/fair-principles/>

Bridging the GAP in Metabarcoding Research: A shared repository for ASV Tables

Björn Quast, Christian Bräunig, Peter Grobe

| GBOL_ASV_Set_IDs | Taxonomy | BOLD taxon assignment | BOLD taxon reference | BOLD hit perc. identity | K03_88_BF20_BR22 | K03_58_BR10_BF14 | K03_88_BF20_BR22 | Seq |
|------------------|---|--------------------------|---|-------------------------|------------------|------------------|------------------|--------------------|
| GBOL_ASV_ID_14 | Metazoa; Arthropoda; Insecta; Trichoptera; Apataniidae; Apatania | Apatania wallengreni | http://www.boldsystems.org/index.php/Public_RecordView?processid=GBMH17985-19 | 100 | 261851 | 222042 | 809117 | CCCGCTA AACAGTA |
| GBOL_ASV_ID_4 | Metazoa; Arthropoda; Insecta; Hemiptera; Aphelocheiridae; Aphelocheirus | Aphelocheirus aestivalis | http://www.boldsystems.org/index.php/Public_RecordView?processid=HEMFIO25-12 | 100 | 37420 | 28843 | 207031 | ACCACT AACTAT |
| GBOL_ASV_ID_15 | Metazoa; Arthropoda; Insecta; Trichoptera; Hydropsychidae; Arctopsyche | Arctopsyche ladogensis | http://www.boldsystems.org/index.php/Public_RecordView?processid=GBMH17989-19 | 100 | 3465 | 3149 | 11707 | TCCT AAC |
| GBOL_ASV_ID_9 | Metazoa; Arthropoda; Malacostraca; Isopoda; Asellidae; Asellus | Asellus aquaticus | http://www.boldsystems.org/index.php/Public_RecordView?processid=GBMNC72306-20 | 100 | 385330 | 41 | 114 | TCC AAC |

Our Repository:

- ASV Tables
- Sequences
- Sampling data
- Methods
- Ecological and taxonomic data

Analysis conducted by: GBOL-ZFMKLab

Sequencing timestamp : 2016-04-27 00:00:00

Sequencing lab : BGI

Direction : forward

Trace file org md5 : 5b1462bdd55751ac84ec3f9da6bd02b

Sequencing primer name : LCO1490-JJ

Sequencing timestamp : 2016-04-27 00:00:00

Sequencing lab : BGI

Direction : reverse

Trace file org md5 : a1c8ea68ac2886c7e716d4190e7a44cd

Sequencing primer name : HCO2198-JJ

```
AACATTATATTTCTATTTGGAGCTTGAGCTGGAATAGTAGGAAC
TTCTTTAAGTATTTTAAATTCGTATAGAAGCTGGCTCAGGAGC
ATTAATTGGAGATGACCAATTTATAAGTAAATGTTACTGCACA
TGCTTTTGTATAATTTTTTTATAGTAACCTATTATAATTGG
AGGATTTGGTAATTGATTAGTCTTTTAAATAGGAGCTCCTGA
TATAGCTTCCCGAATAAATAATAAGTTTCTGATTATTACC
TCCTTCTAACATTACTTTTAGTAAGTAGTATAGTTGAAAATGG
AGCAGGAAGCTGGATGAACAGTTTATCCACCTCTTCTGCAAGAT
TGCTCATGGTGGAGCTTCTGTAGATTAGCAATTTTTTCATTACA
TTTAGCAGGAATATCATCAATTTAGGGGCTGAAATTTATTAC
AACAGTAATTAATATACGATCAAAATGGAATTTTATATGATCGAAT
```

Search for sequence in GBOL or BOLD records

Upload table Search tables Identify taxa in table

BLAST sequences in ASV Tables

Here you can compare the sequences of an ASV table with the reference databases GBOL, BOLD or NCBI. The result will be send to you via email

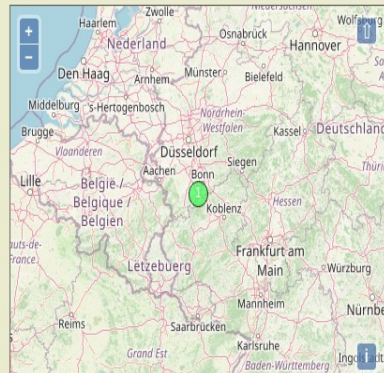
Please choose one of your ASV tables

GBOL-reference database (german taxa, also contains non-published and not finally validated [taxonomy wise] entries).

BOLD (international, offers additional options for database queries, see www.boldsystems.org/index.php/IDS_OpenIdEngine).

Select one if you have selected the BOLD reference database above

NCBI nucleotide database (Currently, only COI sequences from Arthropoda).



Collection event:

Collecting method: hand collecting

Collecting date: 10.06.2015

Country: Germany

Habitat description: Agricultural surrounding, Orchard

Locality description: Apple orchard with flower stripe, Klein

Altendorf, 53359 Rheinbach

Number of specimen: 1

State: Nordrhein-Westfalen

ASV Tables become FAIR* data

*<https://www.go-fair.org/fair-principles/>

Features:

- Persistent identifiers for ASV Tables, barcode sequences, and samples
- Continuously updated species identifications
- Version tracking
- Linkage with data from GBIF / BOLD

BEXIS2: A data management platform for mid-to-large scale research projects to facilitate making biodiversity research data Findable, Accessible, Interoperable and Reusable

Jitendra Gaikwad, Roman Gerlach, David Schöne, Sven Thiel,
Franziska Zander and Birgitta König-Ries

bexis-support@uni-jena.de

Development Partner

FRIEDRICH-SCHILLER-
UNIVERSITÄT
JENA

Max Planck Institute
for Biogeochemistry



GWDG
Geisteswissenschaftliche
Datenverarbeitung Jena-Göttingen

GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN



PENSOFT

TUM
TECHNISCHE
UNIVERSITÄT
MÜNCHEN

Project Instances

iDiv

biodiversity
exploratories



ATTO
AMAZON TALL
TOWER OBSERVATORY



gfbio

THE JENA EXPERIMENT



End-User Features

Search Data

Find datasets by keyword (incl. autocomplete) or use facets, filtering, sorting to quickly retrieve the dataset you need.

Upload Data

Upload your tabular data or any other type of data to BEXIS 2 and describe it with metadata.

Dataset Permissions

Specify fine grained data permissions on who can view, access, or update your dataset

Dataset Versioning

Keep track of the evolution of your dataset (i.e. who did what and when) and return to any previous version if needed.

Re-use Data Structures

Design your dataset by specifying its data structures, variables, or units only once in BEXIS 2 and re-use them for any dataset.

Single Sign-on

Use your existing credentials of your organisation to log on to BEXIS. No need to remember another username and password.

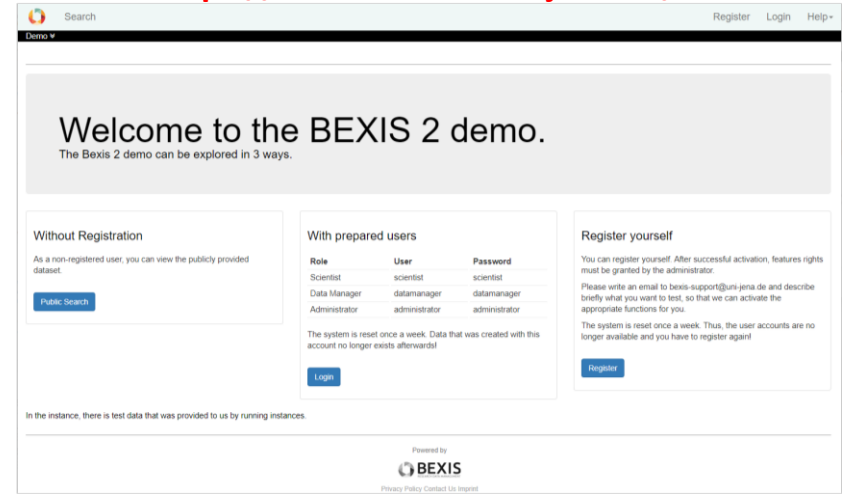
Web API Access

Beside downloading a dataset from the portal, you may also retrieve data stored in BEXIS directly with a script or from your application (e.g. R) using API calls.

Data Publication

Publish your dataset with a renowned data repository or data journal (e.g. GFBio, Biodiversity Data Journal) and make it a citeable data publication identified by a DOI.

<https://demo.bexis2.uni-jena.de/>



Search Register Login Help

Welcome to the BEXIS 2 demo.

The Bexis 2 demo can be explored in 3 ways.

Without Registration

As a non-registered user, you can view the publicly provided dataset.

[Public Search](#)

With prepared users

| Role | User | Password |
|---------------|---------------|---------------|
| Scientist | scientist | scientist |
| Data Manager | datamanager | datamanager |
| Administrator | administrator | administrator |

The system is reset once a week. Data that was created with this account no longer exists afterward!

[Login](#)

Register yourself

You can register yourself. After successful activation, features rights must be granted by the administrator.

Please write an email to bexis-support@uni-jena.de and describe briefly what you want to test, so that we can activate the appropriate functions for you.

The system is reset once a week. Thus, the user accounts are no longer available and you have to register again!

[Register](#)

In the instance, there is test data that was provided to us by running instances.

Powered by **BEXIS**
Privacy Policy Contact Us Imprint

<http://bexis2.uni-jena.de>

Admin Features

Customizable Search Interface

Customize the Search Interface, e.g. select the metadata elements to be indexed and shown, specify the facets, and determine the representation of search results.

Use Multiple Metadata Schemas

Import multiple metadata schemas (XSD) relevant to your user community. For each schema a custom form will be generated by BEXIS.

Support for Multiple DBMS

Run BEXIS 2 on top of your preferred Data Base Management System. BEXIS 2 runs on PostgreSQL, IBM DB2, Microsoft SQL Server. Others can be implemented easily.

Multi Tenant

Easily customize the look and feel of the BEXIS 2 user interface and have your individual branding.

Extensible Architecture

BEXIS 2 follows a modular design and can be integrated with external applications and services or extended with custom modules

System Feature Permission

Specify fine grained permissions on system features and tools for individual users or groups.



BEXIS
RESEARCH DATA MANAGEMENT

Home BEXIS2 Software Resources Community About

You are here: BEXIS 2

Manage your research data efficiently & collaboratively

Features

BEXIS 2 supports a broad range of data structures, data types and more. Take a look at all [BEXIS 2 features](#).

Demo

Get familiar with BEXIS 2 environment and try out its useful features. [See the latest version in action!](#)

Latest Release

Manage your research data now. BEXIS is easy to run and simple to maintain. [Download the latest version of BEXIS 2.](#)

News

BEXIS 2 14.4 released
May 17, 2021

Welcome to our new community manager
February 15, 2021

BEXIS 2 14.3 released
January 12, 2021

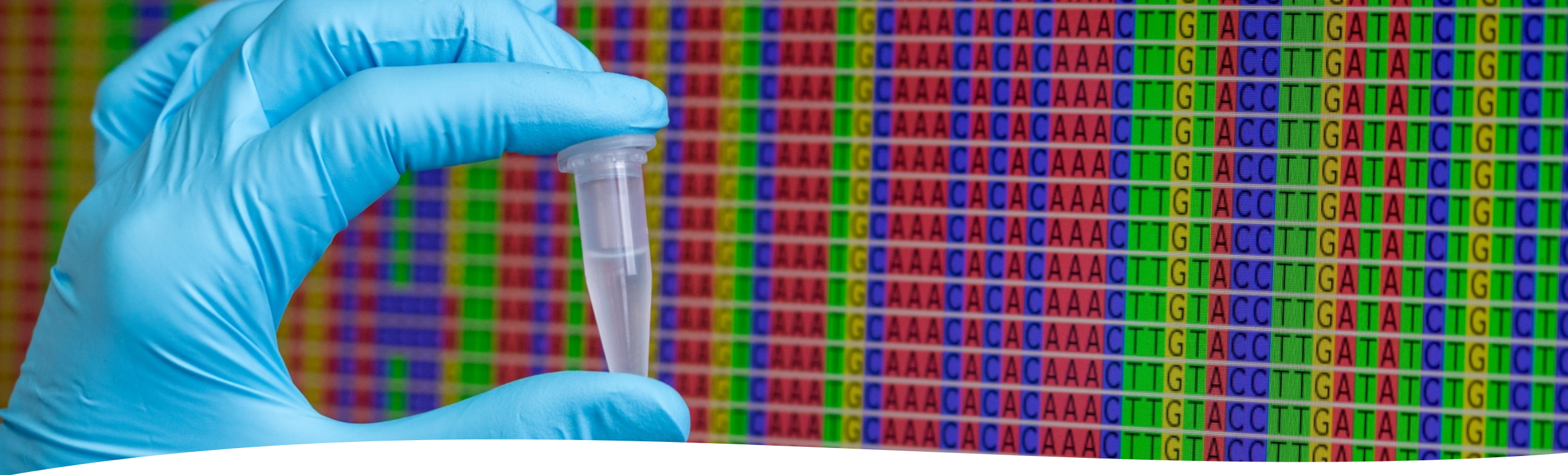
Open Position: Research Data Manager at ATTO Project
January 7, 2021

[More News](#)

FUSION: Heinz-Nixdorf Endowed Chair for Distributed Information Systems
Friedrich Schiller University of Jena

Funded by **DFG** Deutsche Forschungsgemeinschaft

Home Haftungsausschluss Impressum



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ÖKOSYSTEM
FORSCHUNG

Umwelt
Bundesamt



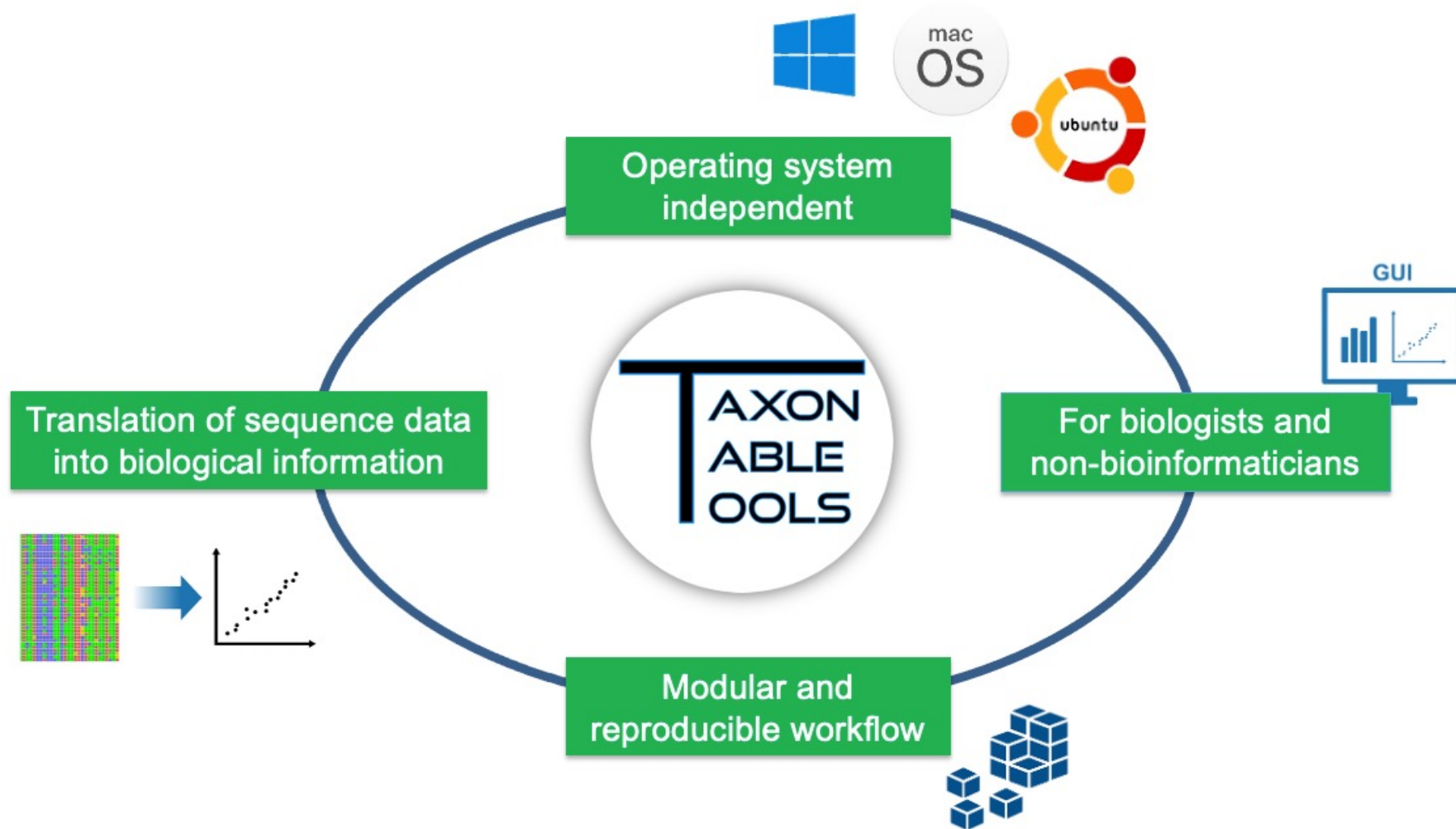
GeDNA

TaxonTableTools

A comprehensive, platform-independent graphical user interface software to explore and visualise DNA metabarcoding data

Till-Hendrik Macher, Arne J. Beermann, Florian Leese

TaxonTableTools



 <https://youtu.be/ppwog6LkSow>

 <https://github.com/TillMacher/TaxonTableTools>

 <https://doi.org/10.1111/1755-0998.13358>



Live Demo

DiversityNaviKey

a Progressive Web Application for interactive
diagnosis and identification

App: <https://divnavikey.snsb.info>

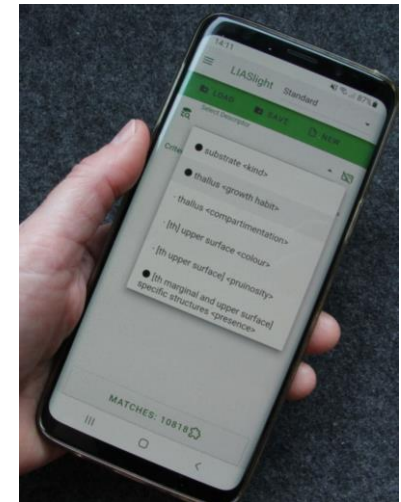
Info: <https://diversityworkbench.net/Portal/DiversityNaviKey>

Ariane Grunz | SNSB IT Center | München

DiversityNaviKey

DiversityNaviKey is a progressive web app realised to identify organisms or other objects by means of predefined descriptors

- Interactive queries on descriptive data (trait data)
- Support of different datasets accessed via a web service
- Support of unsettled or dynamically growing datasets by using the SNSB and DD installation
- Platform independent, offline capable, installable, extendable



Software Marketplace: <https://topia.io/informatik2021>

Social Program

Schedule
Program information
FAQ: Venueless
Exhibition Area
Social Wall
Social Program

Stages
INFORMATIK: main stage
EnviroInfo: main stage

Channels
INFORMATIK: Room Alan Turing
INFORMATIK: Room Ada Lovelace
INFORMATIK: Room Linus Torvalds
INFORMATIK: Room Steve Jobs
INFORMATIK: Room Joseph Weizenbaum
INFORMATIK: Room Larry Page & Sergey Brin
INFORMATIK: Room Konrad Zuse
INFORMATIK: Room Grace Hopper
INFORMATIK: Room Sophie Wilson
INFORMATIK: Room Tim Berners-Lee
EnviroInfo: Room Cairo
EnviroInfo: Room Tegel
EnviroInfo: Room Risk
KI: Room John McCarthy
Birgitta König-Ries

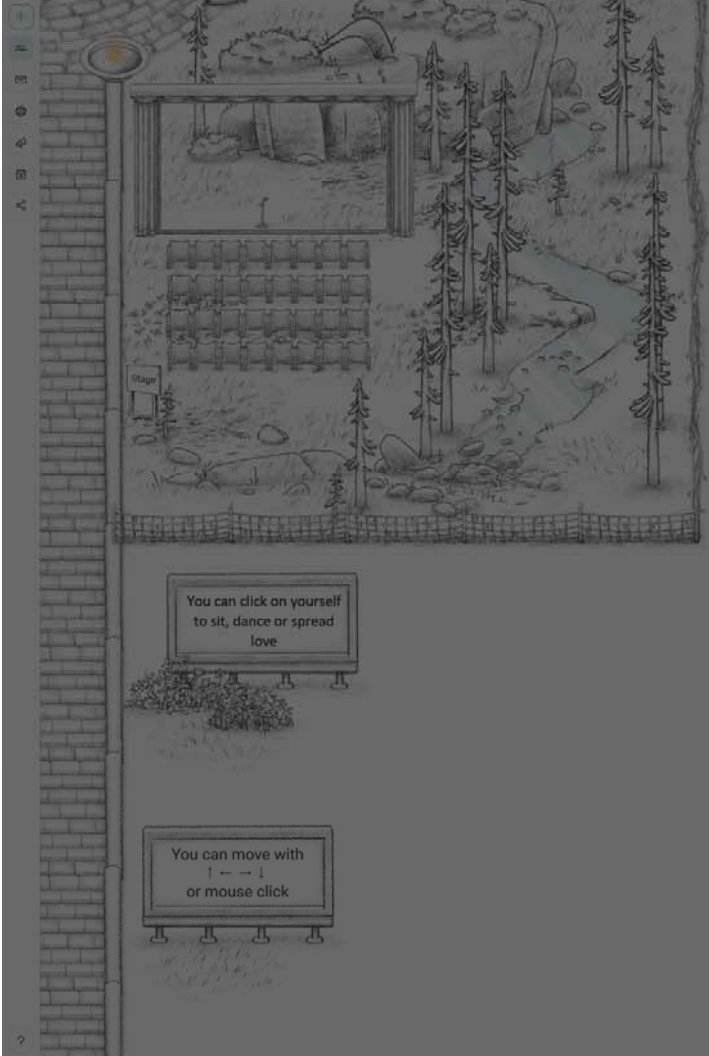
Social Program

#INFORMATIK 2021
COMPUTER SCIENCE & SUSTAINABILITY
27.09. – 01.10.2021
informatik2021.gl.de

During the whole week we invite you to join our [Social Wall](#). In Topia you can have individual meetings in [1:1](#) or groups or just network and meet new interesting people out of the computer science community. Link: <https://topia.io/#/socialwall/2021>


On the evening of September 29th, we proudly present you our exclusive evening event broadcasted from two different locations in Berlin. You can join the program on Topia or Venueless. We are looking forward to:

- 7.25 – 7.30 pm: Warm Welcome
- 7.30 – 8.15 pm: "Create your GI-Cocktail"-Workshop live & with love from the beautiful [Hofstadter Berlin](#) *presented by Sven Böttcher*. You will be surprised with an individual created cocktail on the topic "Computer Science & Sustainability" for the German Informatics Society the "GI GiN FIZZ". All registered participants will receive the recipe and needs for your preparation in the runup to the workshop via mail. Important tips & tricks as well as background information about the history of cocktail mixing will be presented in the workshop. The perfect preparation for the following program parts!
- 8.15 – 8.30 pm: **Comedy by Daniel Ryan Spaulding** on digitalization in Germany. Daniel-Ryan Spaulding is a world-traveling comedian, seen in over 45 countries and in Germany known by appearances at Jan Böhmernann's "ZDF Neo Magazin Royale". He is now based in Berlin, where his YouTube series "It's Berlin!" has made him a local celebrity. We are thrilled to present you his exclusive view on digitalization in Germany.
- 8.30 – 9.00 pm: **Music Performance + Q&A by Portrait XO**, Portrait XO is an interdisciplinary artist, who also lives in Berlin. She explores computer-based creativity, human-computer interaction as well as applications for avantgardistic art and music. As a hybrid musician her sound combines the possibilities and boundaries of AI, sound and new media art performance. The perfect round up for a special evening!



Preferences


Manage your settings

 VIDEO INPUT
Integrated Camera (GF26456)

AUDIO INPUT
Kommunikation - Makrofonarray (16)

For the best experience for all guests, please wear headphones

MY VIDEO POSITION
Top Left

TOPY COLOUR


Let's Go