

From Open Access to Open Science with the ARPHA publishing platform

Lyubomir Penev, Teodor Georgiev

Bulgarian Academy of Sciences & Pensoft Publishers, Sofia



CAPSELLA Open Data Workshop, June 2, 2017, Chania, Greece



— Some facts about Pensoft —



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- Now 25 permanent employees

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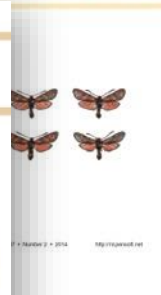
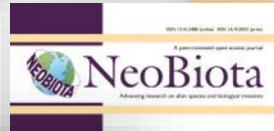
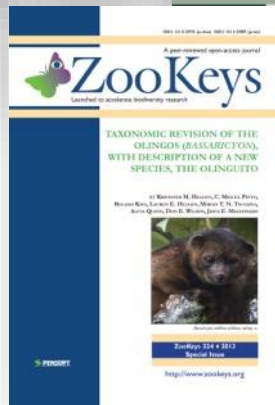
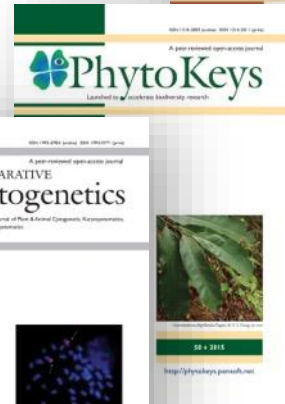
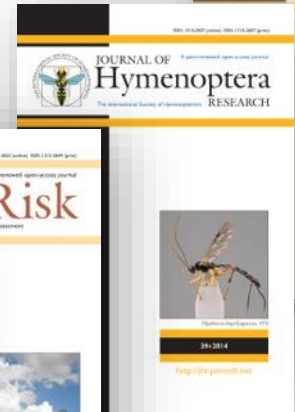
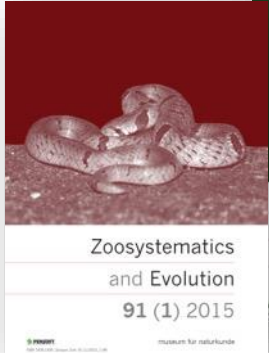
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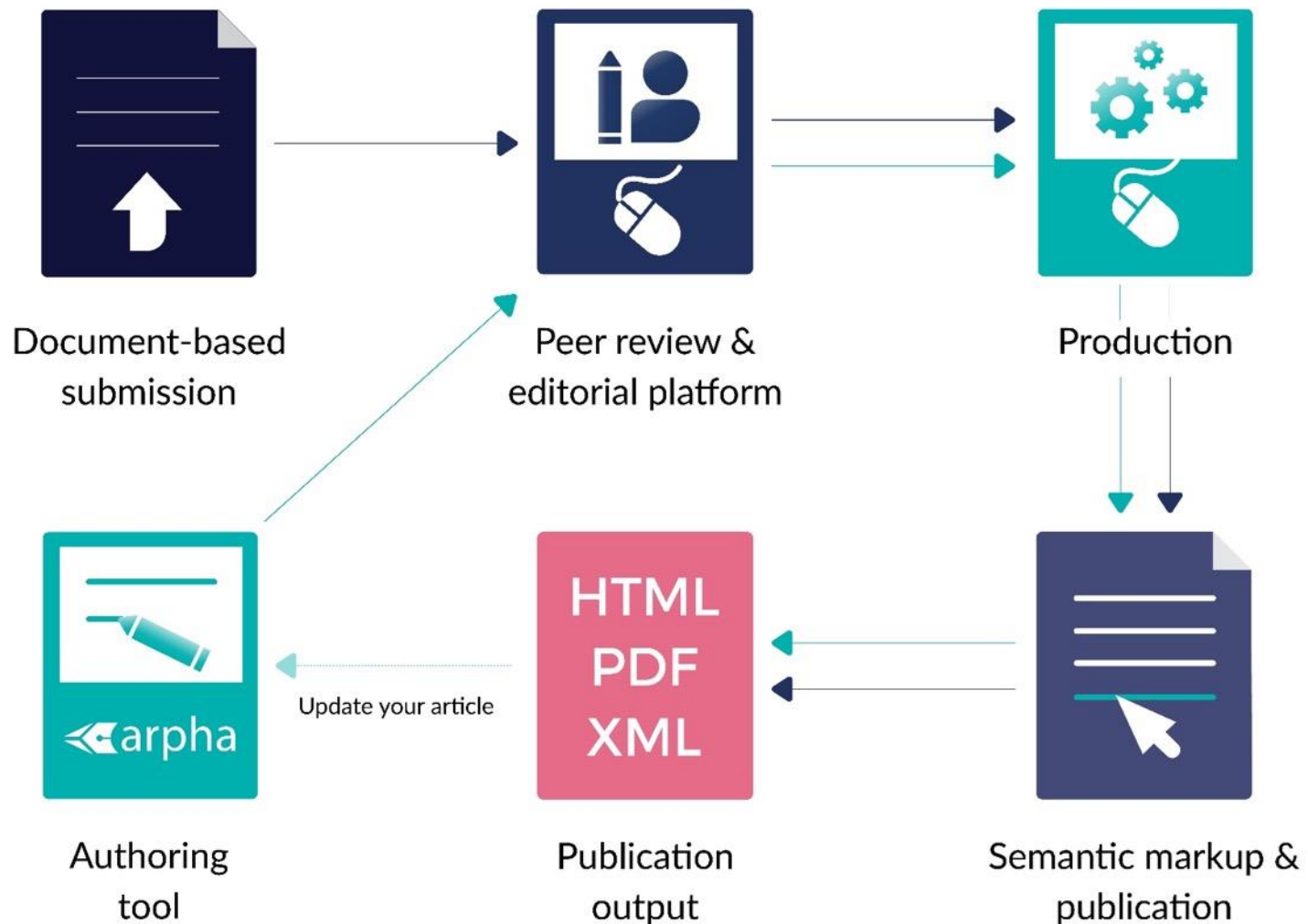
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The bottleneck in academic publishing (=claim of this presentation)

Non-machine-readability of
the published content &
data (PDF, paper)
hampers progress in
science!



WHY?

Open Access PDFs: Nice, but not enough!



Nixonia masneri van Noort & Johnson, sp. n.

urn:lsid:zoobank.org:act:51495B19-AA60-4560-AAC6-2EED4110C0ED

Figures 1A–F

<http://zoobank.org/?lsid=urn:lsid:zoobank.org:act:51495B19-AA60-4560-AAC6-2EED4110C0ED>

Type material. Holotype male. SOUTH AFRICA, Western Cape, Kogelberg Nature Reserve, 34°16.481'S 19°01.033'E, 16 Jan–16 Feb 2000, S. van Noort, Malaise trap, KO98-M53, Mesic Mountain Fynbos, last burnt c. 1978, SAM-HYM-P025052, OSUC 256956 (SAMC). Paratypes: 2 males, same data SAM-HYM-P025052, OSUC 256940 (SAMC, OSUC); 1 male: South Africa, Northern Cape, Avontuur Farm,

There are huge **technical** barriers to open data, besides the sociological ones



The **XML**: the first step to open content

Nixonia masneri van Noort & Johnson, sp. n.

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Figures 1A–F

<http://zoobank.org/?lsid=urn:lsid:zoobank.org:act:51495B19-AA60-4560-AAC6-2EED4110C0ED>

Type material. Holotype male. SOUTH AFRICA, Western Cape, Kogelberg Nature Reserve, 34°16.481'S 19°01.033'E, 16 Jan–16 Feb 2000, S. van Noort, Malaise trap, KO98-M53, Mesic Mountain Fynbos, last burnt c. 1978, SAM-HYM-P025052, OSUC 256956 (SAMC). Paratypes: 2 males, same data SAM-HYM-P025052, OSUC 256940 (SAMC, OSUC); 1 male: South Africa, Northern Cape, Avontuur Farm,

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<xref>Figures 1A-F</xref> a
```

— Frequently Asked Question —



Why do XML markup?

Research Article

Biodiversity Data Journal 5: e11277 (31 Jan 2017)
https://doi.org/10.3897/BDJ.5.e11277

Figure 2.

Ceratoconus setipennis female, lateral view.



Figure 3.

Ceratoconus setipennis male, lateral/ventral view.

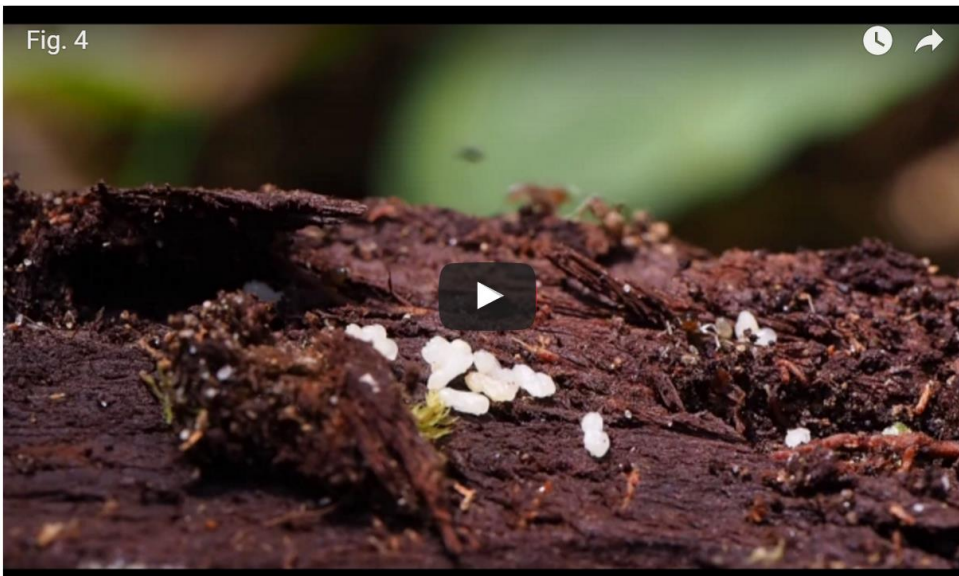


Figure 4.

Adult workers of *Linepithema* sp removing exposed larvae and pupae.



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Aenigmatias lubbocki



Apidae



Apocephalus



Apocephalus grandipalpus



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Apodictaria



Atta sexdens



Ceratoconus setipennis



Ceratoconus



Ceratoconus setipennis



Chamaedorea



Diplopoda



Diptera



Dorylinae



Ecitoninae



Formica transkaucasica



Formicidae



Hymenoptera




Insecta



Iridomyrmex humilis



Automated mapping

 Biodiversity Data Journal

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Taxonomic Paper

Biodiversity Data Journal 1: e979 (16 Sep 2013)
doi: 10.3897/BDJ.1.e979

46.92; decimalLongitude: 47.92; samplingProtocol: horse dung washing; eventDate: 2007-04-17; individualCount: 1; recordedBy: A. V. Frolov, L. A. Akhmetova; collectionID: urn:lsid:biocol.org:col:34969; institutionCode: ZIN; collectionCode: Coleoptera

Feeds on: Cattle dung.

Distribution: Middle Asian deserts, Caspian lowland desert.

Aphodius (Acrossus) bimaculatus (Laxmann, 1770)

Materials

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a. country: Russia; stateProvince: Astrakhan'; locality: Dosang environs, fixed sands; decimalLatitude: 46.92; decimalLongitude: 47.92; samplingProtocol: horse dung washing; eventDate: 2007-04-17; individualCount: 2; recordedBy: A. V. Frolov, L. A. Akhmetova; collectionID: urn:lsid:biocol.org:col:34969; institutionCode: ZIN; collectionCode: Coleoptera

b. country: Russia; stateProvince: Astrakhan'; locality: Dosang environs, fixed sands; samplingProtocol: horse dung washing; eventDate: 2007-04-17; individualCount: 6; recordedBy: A. V. Frolov, L. A. Akhmetova; collectionID: urn:lsid:biocol.org:col:34969; institutionCode: ZIN; collectionCode: Coleoptera

c. country: Russia; stateProvince: Astrakhan'; locality: Dosang environs, fixed sands; decimalLatitude: 0.00; samplingProtocol: horse dung washing; eventDate: 2008-04-04; individualCount: 1; recordedBy: A. V. Frolov, L. A. Akhmetova; collectionID: urn:lsid:biocol.org:col:34969; institutionCode: ZIN; collectionCode: Coleoptera

d. country: Russia; stateProvince: Astrakhan'; locality: Dosang environs, left bank of Akhtuba River, floodplain; decimalLatitude: 46.91; decimalLongitude: 47.91; samplingProtocol: horse dung washing; eventDate: 2008-04-06; individualCount: 2; recordedBy: A. V. Frolov, L. A. Akhmetova; collectionID: urn:lsid:biocol.org:col:34969; institutionCode: ZIN; collectionCode: Coleoptera

Feeds on: Adults and larvae feed on horse dung (Fig. 5).












Figure 5.
Aphodius bimaculatus. Dosang environs, Astrakhan Province, Russia.

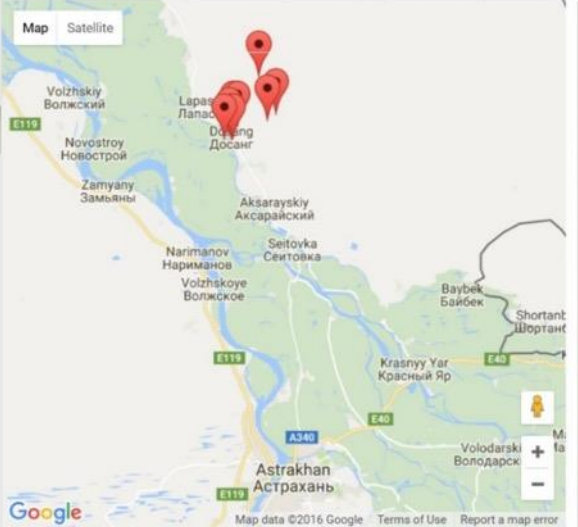
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☒ Aphodius (Chilothorax) badenкои

☒ Aphodius (Acrossus) bimaculatus

☒ Aphodius (Melaphodius) caspius

☒ Aphodius (Chilothorax) clathratus

☒ Aphodius (Euorodalus) coenosus

☒ Aphodius (Mendidius) curtulus

☒ Aphodius (Alocoderus) digitalis

☒ Aphodius (Chilothorax) distinctus

☒ Aphodius (Nobius) dosangi

☒ Aphodius (Colobopteris) erraticus

Species Profiles on the Fly (1)

Research Article

PhytoKeys 69: 71-103 (30 Aug 2016)
doi: 10.3897/phytokeys.69.9292

A nonet of novel species of *Monanthotaxis* (Annonaceae) from around Africa

Paul H. Hoekstra, Jan J. Wieringa, Lars W. Chatrou

Abstract

As part of an ongoing revision of the genus *Monanthotaxis* Baill. (Annonaceae), nine new species are described and one variety is reinstated to species rank. Two new species from West Africa (*Monanthotaxis aquila* P.H.Hoekstra, *sp. nov.* and *Monanthotaxis atewensis* P.H.Hoekstra, *sp. nov.*), four new species from Central Africa (*Monanthotaxis couvreurii* P.H.Hoekstra, *sp. nov.*, *Monanthotaxis latistamina* P.H.Hoekstra, *sp. nov.*, *Monanthotaxis tripetala* P.H.Hoekstra, *sp. nov.* and *Monanthotaxis zenkeri* P.H.Hoekstra, *sp. nov.*), one new species from Tanzania (*Monanthotaxis filipes* P.H.Hoekstra, *sp. nov.*), one new species from the area around Maputo (*Monanthotaxis maputensis* P.H.Hoekstra, *sp. nov.*), one new species from the Comoro Islands (*Monanthotaxis komorensis* P.H.Hoekstra, *sp. nov.*) and *Monanthotaxis klainei* (Engl.) Verdc. *var. angustifolia* (Boutique) Verdc. is raised to species level leading to the replacement name *Monanthotaxis atopostema* P.H.Hoekstra, *nom. nov.* (not *Monanthotaxis angustifolia* (Exell) Verdc.). Complete descriptions, comparisons with related species, ecological information and IUCN conservation assessments are given for the new species. Five species were classified as critical endangered, two species as endangered, one as vulnerable and one as least concern, warranting the need of further collecting and studying those species.

Keywords

Monanthotaxis, Annonaceae, Africa, *Gilbertiella*, new species, Mayotte, Comoros, Gabon, Cameroon, Tanzania, Mozambique, Ivory Coast, Ghana, South Africa, Republic of Congo, Atewa Range, Ottotomo, Rondo

Introduction

The genus *Monanthotaxis* Baill. belongs to the tribe Uvariae in the family Annonaceae (Chatrou et al. 2012).



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Global Biodiversity Information Facility



Genomics



Gene Sequences

Database name	PubMed Central	Nucline	Protein	Taxonomy	Popset
Subtree links	836	7067	4106	1202	262



Barcode of Life

Species Profiles on the Fly (2)

Research Article

PhytoKeys 69: 71–103 (30 Aug 2016)
doi: 10.3897/phytokeys.69.9292

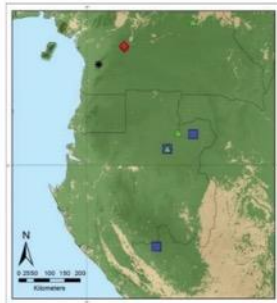
margins; *inner petals* 3.0–4.5 × 1.2–1.5 mm, elliptic to narrowly ovate, outside with yellowish hairs at the apex and at the centre, inside glabrous or with a few hairs at the margins; *stamens* 13–15 in one whorl, connate at base, linear-obconic 0.8–0.9 mm, filaments 0.4 mm, anther cells lateral to extrorse, connective papillose, truncate, rounded from above, staminodes 0; *carpels* 9–12, 1.2–1.3 × 0.3–0.4 mm, subcylindric to ellipsoid, dense hairy, with 4 lateral ovules, stigma subsessile 0.2 mm, globose, glabrous. **Fruits:** Not seen, but according to collection Farron 7359 with 4 articles.



Figure 4.
Monanthes couvreurii P.H. Hoekstra. A–F photographs in the field of the type collection (TLP Couvreur 762).
Photos: Thomas Couvreur.

Distribution

Cameroon, Central Province, Ottotomo Forest Reserve. Figure 5.



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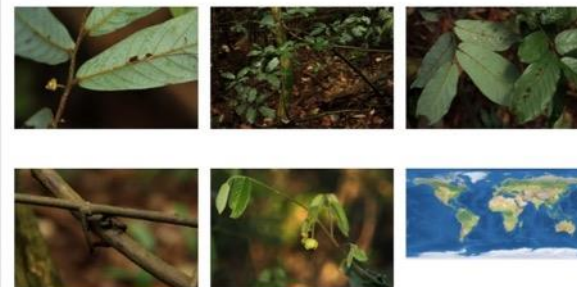
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Monanthes

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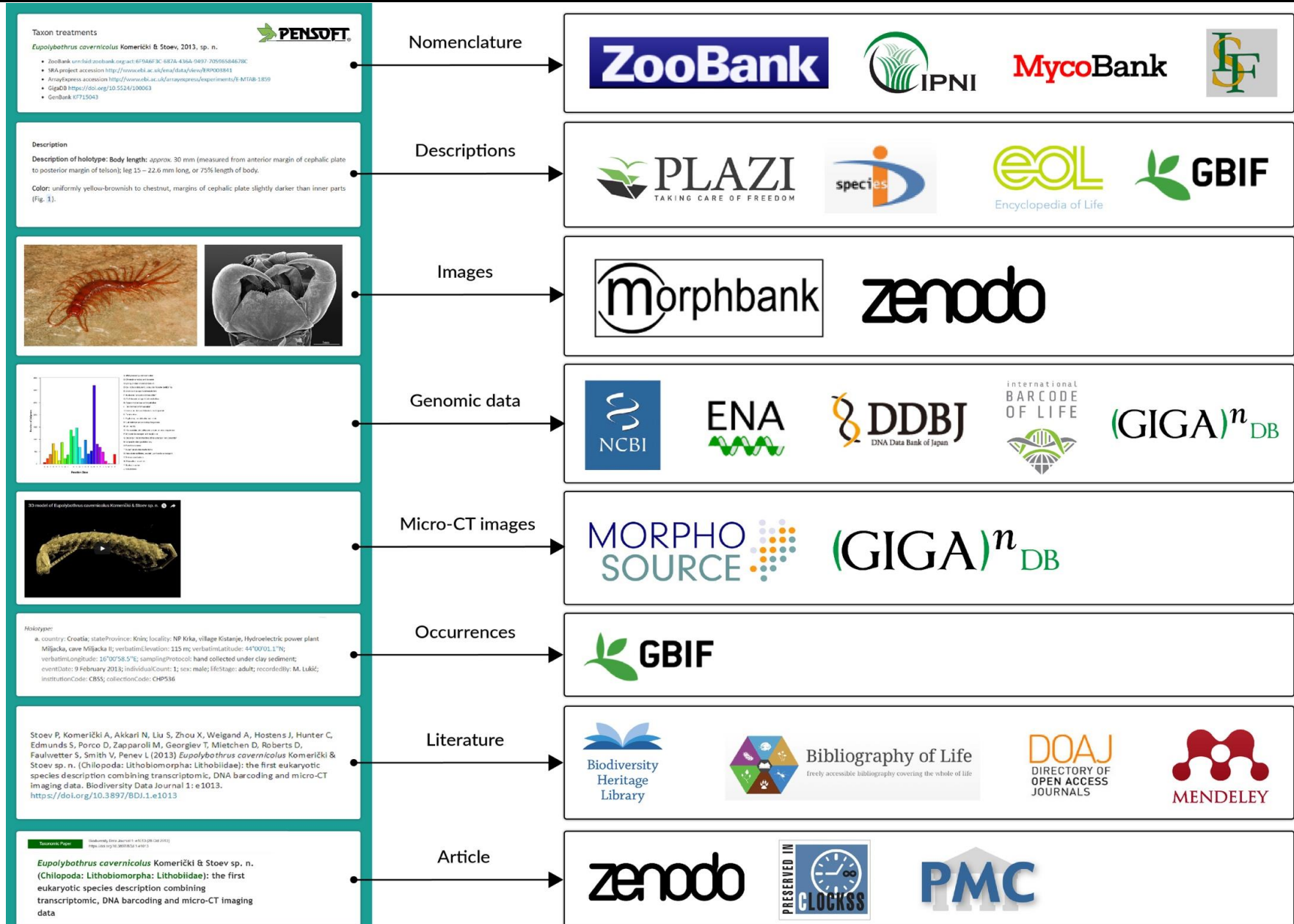
Actes du II^eme Congrès international de botanique, pub. au nom de la commission d'organisation du Congrès /
v.2: 373
Annals of the Missouri Botanical Garden
v.65 (1978): 543
Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie.
v.31(1901-1902): 532
Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie.
v.31 (1902): 518, 532
Botanisches Zentralblatt;
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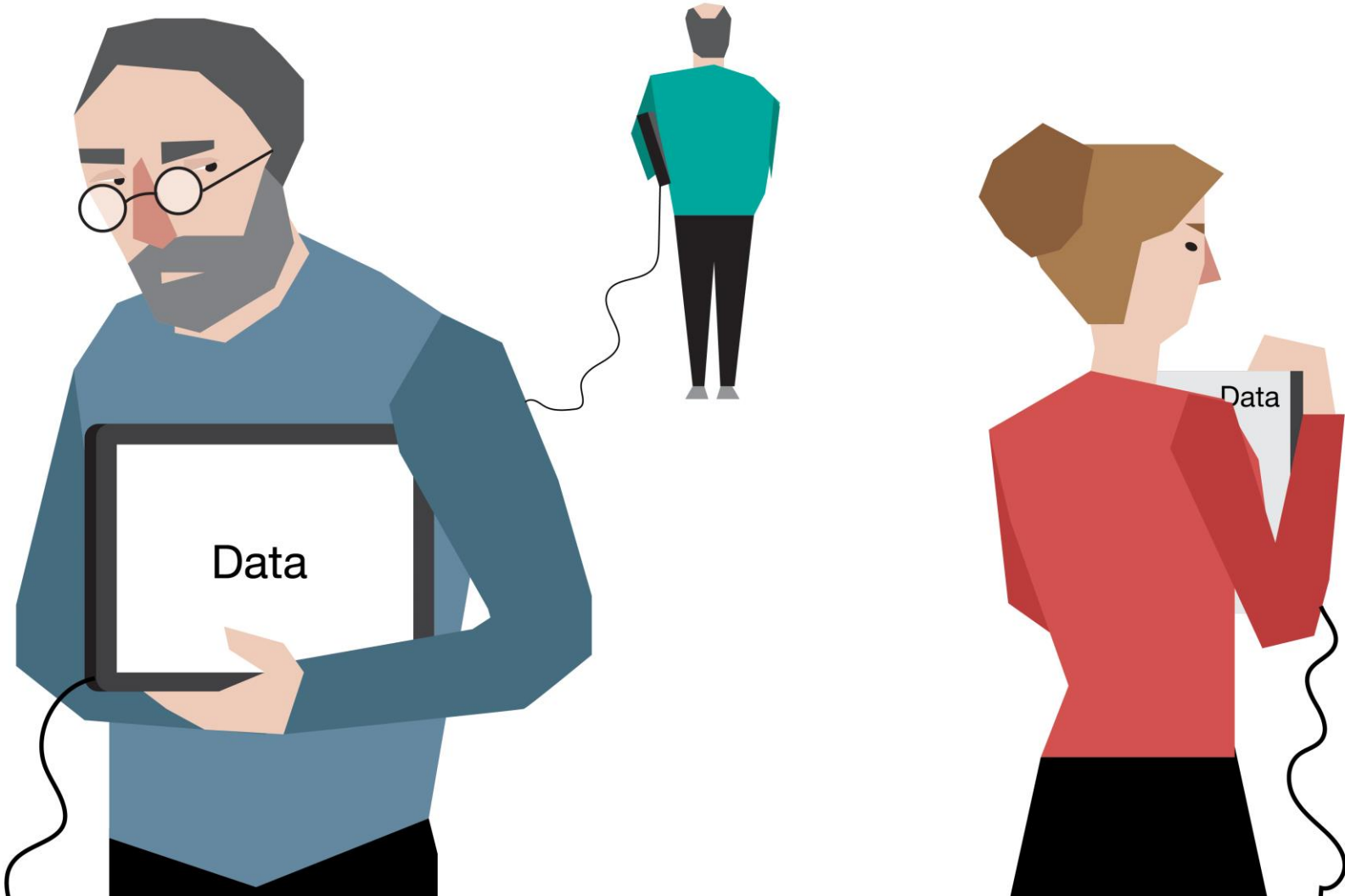
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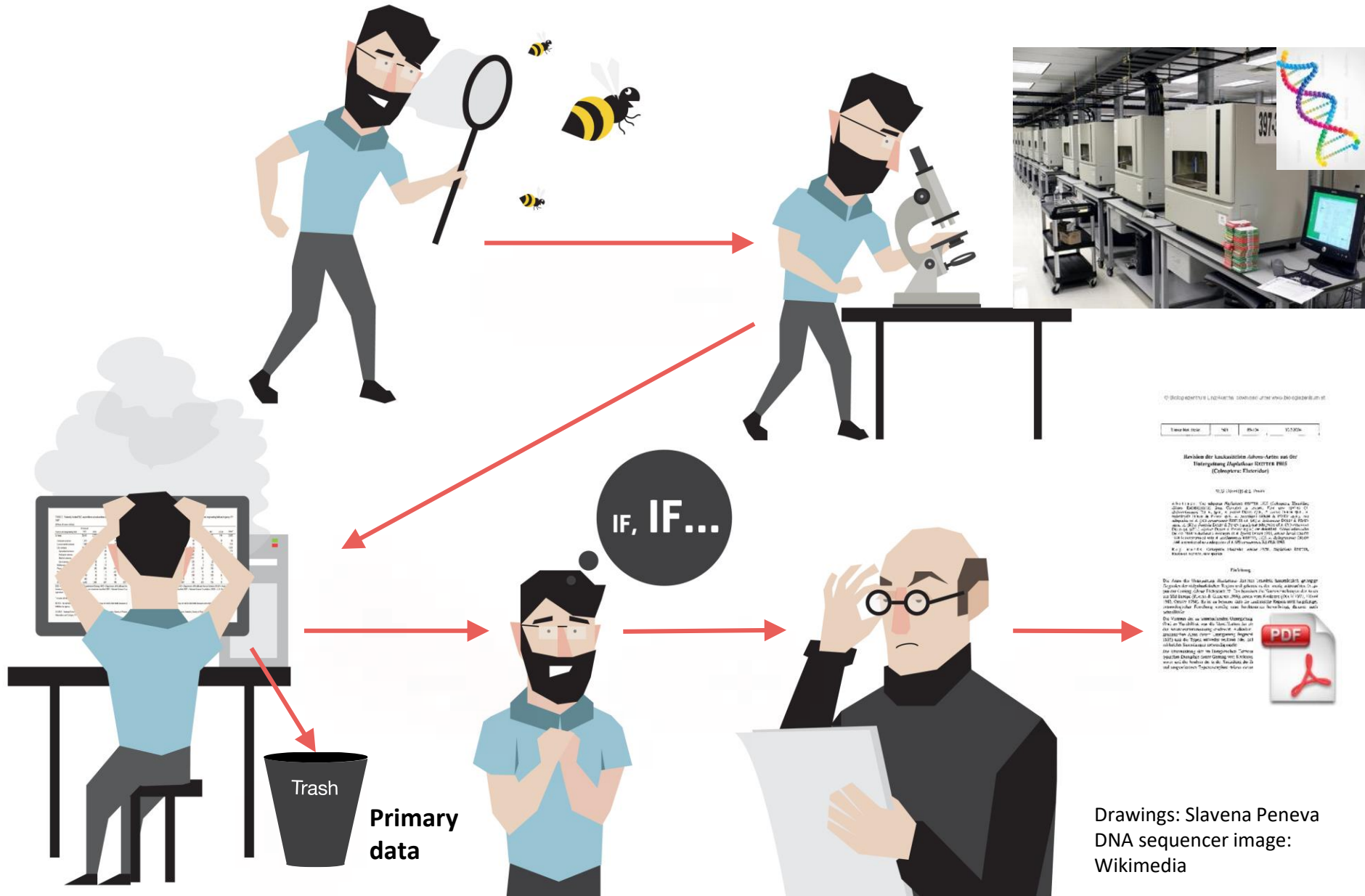
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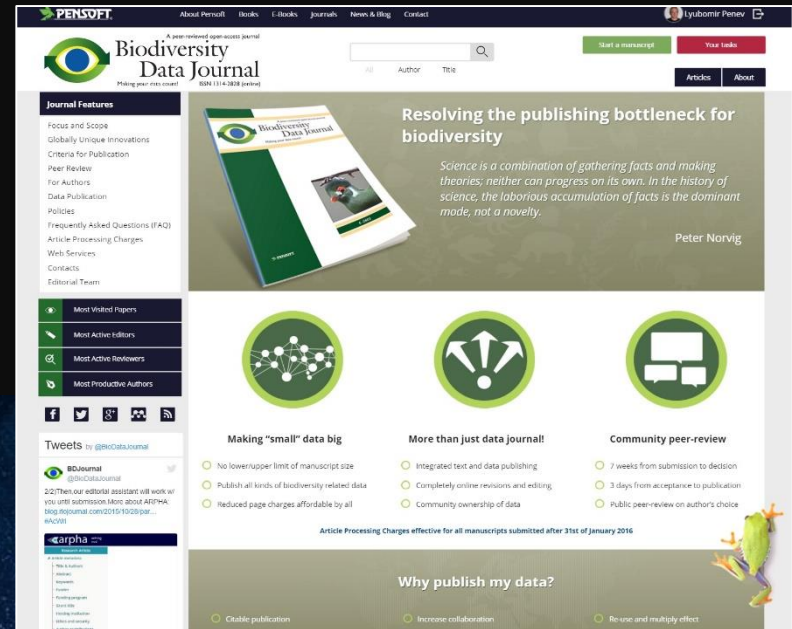
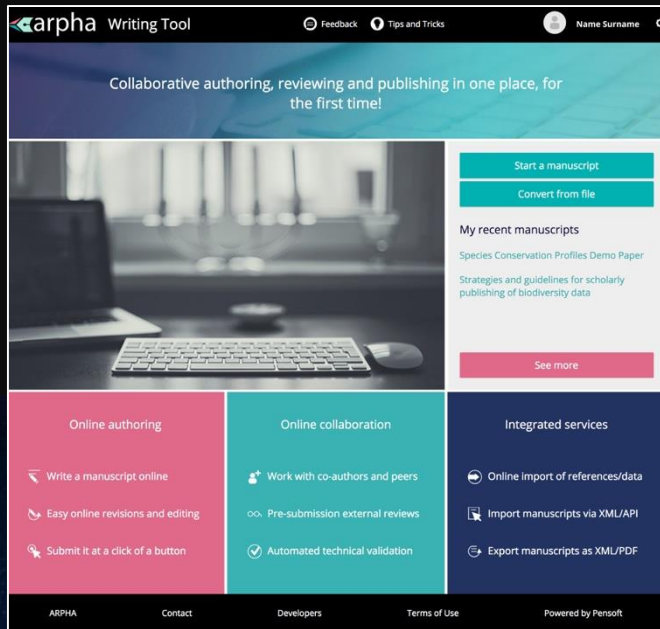


Drawings: Slavena Peneva
DNA sequencer image:
Wikimedia

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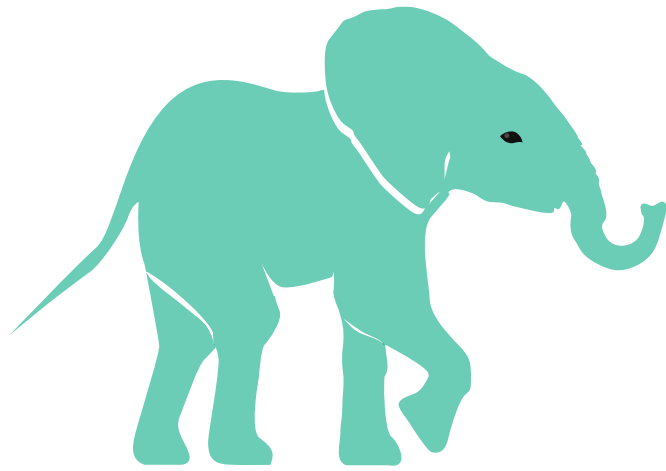
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Resolving the publishing bottleneck for biodiversity


Science is a combination of gathering facts and making theories; neither can progress on its own. In the history of science, the laborious accumulation of facts is the dominant mode, not a novelty.

Peter Norvig




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- Citable publication
- Increase collaboration
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Tutorial

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☐  Research Ideas and Outcomes

☐  One Ecosystem

☐  BioDiscovery

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- ☐ PhD Project Plan
- ☐ PostDoc Project Plan
- ☐ Research Idea
- ☐ Small Grant Proposal
- ☐ Software Management Plan

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- ☐ Data Paper (Biosciences)
- ☐ Data Paper (Generic)
- ☐ Forum Paper
- ☐ Methods
- ☐ Project Report
- ☐ Questionnaire
- ☐ R Package
- ☐ Software Description
- ☐ Workshop Report

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- ☐ Correspondence
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- ☒ Ecosystem Service Mapping
- ☐ Ecosystem Service Models
- ☐ Monitoring Schema
- ☒ Research Poster
- ☒ Research Presentation
- ☐ Single-media Publication

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- ☐ Interactive Key
- ☐ Policy Brief
- ☐ Replication Study
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Biodiversity Data Journal : Species Conservation Profiles

Species Conservation Profile Test Paper

Lyubomir Penev [†]

[†] Pensoft Publishers & Bulgarian Academy of Sciences, Sofia, Bulgaria

Corresponding author: Lyubomir Penev (penev@pensoft.net)

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Citation: () . <https://doi.org/>

OPEN ACCESS

Abstract

Background

New information

Introduction

This is a test paper to demonstrate the Species Conservation Profile article type.

Species Conservation profile was created to provide a publication venue for the IUCN Red List assessments.

The Species Conservation Profile represents a novel article type created in a collaboration with the IUCN Red List network.

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Species conservation profile of the cave spider *Turinyphia cavernicola* (Araneae, Linyphiidae) from Terceira Island, Azores,

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piero

Andrea Pieroni

University of

a.pieroni@unisg.it

Neiva Izabel Pierozzi

Instituto Agronomico,

pierozzi@iac.sp.gov.br

Piero Genovesi

National Wildlife

piero.genovesi@infs.it

Piero Genovesi

Institute for

piero.genovesi@isprambiente.it

Piero Visconti

Sapienza Università di

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Field trials and preliminary data gathering

Field trials for the implementation and optimization of the developed CS protocol took place in three countries: France (Marseille), Greece (National Marine Park of Zakynthos) and Turkey (Izmir). These included briefings to volunteer divers from local dive centres and associations, experimental dives for data collection followed by interviews, questionnaires and discussions, so as to come up with a more simplified list of requirements that clearly address the CIGESMED project objectives and make the data collection and reporting procedures as easy as possible for the participants. During these trials, the idea of developing an educational CS module to ensure a basic understanding of coralligenous bioherms and their associated communities also emerged, and was subsequently constructed.


Preliminary data gathering was performed by the researchers and divers involved in CIGESMED project, thus allowing the assessment of coralligenous sites in four regions: Western Mediterranean, Ionian Sea, Aegean Sea and Levantine Sea.

Results

The developed CS methodological protocol and *CIGESMED for divers* website (<http://cs.cigesmed.eu/>) comprise:

- An educational module with simplified information regarding coralligenous assemblages, in order to ensure a basic understanding of these habitats by the diving community, answers to frequently asked questions that were identified during the field trials, and detailed guidelines for *in situ* data collection in five languages; English (Suppl. material 1), French (Suppl. material 2), Greek (Suppl. material 3), Italian (Suppl. material 4), and Turkish (Suppl. material 5).
- A multilingual data submission infrastructure, using an online web platform, where one can readily download the data-recording dive slates and subsequently upload the recorded information after each dive; the printable dive slates include visual guides and fill-in forms in English (Suppl. material 6), French (Suppl. material 7), Greek (Suppl. material 8), Italian (Suppl. material 9), and Turkish (Suppl. material 10) while the web version is also available in Spanish.


The website requires registration from the user in order to be able to submit, view and review data. During the initial registration process, users are requested to submit basic personal data (e.g. name, country of residence, affiliation) and information on their diving profile (i.e. diving experience and certification level), dive computer brand and type (for standardizing temperature data records), past experience from any other CS projects, area of taxonomic interest in cases of professional scientists and enthusiast naturalists, and dive centre (Fig. 1). Users are also able to choose among two data entry form options: (a) Standard taxonomic, that is ranking taxa in a standard phylogenetic order for educational/scientific reasons, or (b) a guided version, following the arrangement on the printed slate version, where different taxa are ranked in a way optimized to facilitate reporting *in situ*, according to experience gained from the field trials.



Comment


base. The requirement of deep diving is

Show more


 Vasilis Gerovasileiou
10:25 PM 27.04.2016

It is explicitly stated throughout the manuscript that we are specifically addressing experienced and skilled divers.


Show more

 Julia K. Parrish
6:53 PM 06.04.2016
Resolved by: Vasilis Gerovasileiou (27.04.16 22:37)


Are there citations backing up these findings?

 Vasilis Gerovasileiou
10:37 PM 27.04.2016

Major marine life fora and networks were cited in the manuscript.

 Dimitrios Koureas
4:33 PM 05.04.2016
Resolved by: Vasilis Gerovasileiou (27.04.16 15:00)


Missing information in brackets

 Vasilis Gerovasileiou
10:27 PM 27.04.2016


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4:33 PM 05.04.2016
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Missing information in brackets

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10:27 PM 27.04.2016

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Import a Figure or a Video

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Robina Pseudoacacia

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Conflicts of interest

Introduction

General information

Taxonomy

Species characteristics

Habitat

Distribution

Newly reported occurrences

Impact

Management

Uses

Discussion

Conclusions

Acknowledgements

References

Supplementary files

Figures



General information

Species characteristics

Environment system: Terrestrial

Species description

R. pseudoacacia is described as a leguminous deciduous tree that grows from 30 to 80 feet tall. Young saplings have smooth, green bark; older trees have deep, furrowed, shaggy, dark bark with flat-topped ridges. Leaves are alternate and pinnately compound with 7 to 21 leaflets. Leaflets are thin, elliptical, dark green above, and pale beneath. Flowers are pea-like, fragrant, white to yellow, and born in large hanging racemes. Seed pods are shiny, smooth, narrow, flat, 5cms to 10cms long, and contain 4 to 8 seeds as in Fig. 2 (DNR, 2003). Smaller branches are armed with a pair of setaceous stipules, or stipular spines, that occur at the base of each petiole. These stipular spines are very pronounced on resprouts, and make working among these plants somewhat hazardous (Gover, pers. comm., 2004).



Figure 1.

Robinia pseudoacacia



Figure 2.

Robinia pseudoacacia

— Direct Search & Import of References —

carpha

writing tool

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Species Conservation Profile

Article metadata

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General information

IUCN assessment information

Ecology

Geographic range

Extent of occurrence

Area of occupancy

Locations

Habitat

Total population of species

Subpopulations

Viability analysis

Classifications

New occurrences

Acknowledgements

References

Common names

Algar do Carvão cave spider

Import toolsManual input

Search in CrossRef, PubMed, RefBank, DataCite & GNUB

via ReFindit

Genovesi P

BertoliniGenovesi, Antonio (1712-1769)

Simberloff et al. 2013 Anthropocene: action makes sense

BertoliniGenovesi, Antonio (1712-1769)

Genovesi et al. 2000

Mazza et al. 2014 Biological invaders are threats to human health: an overview

Mazza et al. 2014 Biological invaders are threats to human health: an overview

Mazza et al. 2014 Biological invaders are threats to human health: an overview

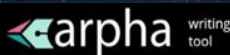
Mazza et al. 2015 Biological invaders are threats to human health: an overview





Joppa et al. 2015 Biological invaders are threats to human health: an overview. Figshare


Jones et al. 2016 Invasive mammal eradication on islands results in substantial conservation gains.

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Mandatory Validation Step



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 Lyubomir Penev

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Conclusions

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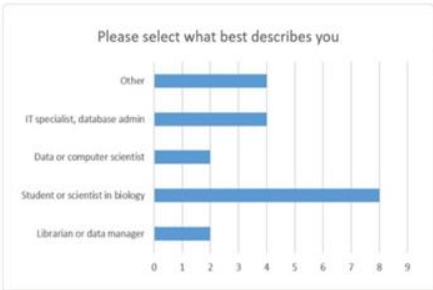
Filter

Presentation

A video recording of the presentation is available. More information can be found in the [webinar information page](#). The slides of the presentation are attached as supplementary files and are deposited in [Slideshare](#).

During the presentation we conducted a poll about the occupation of the attendees, the results of which are summarized in [Fig. 1](#). Of the participants who voted, about a half were scientists, mostly biologists, while the remainder were distributed across IT specialists and librarians, with 20% "Other." The other categories might have been administrators, decision-makers, non-biology scientists, collections personnel, educators, etc.

Please select what best describes you



Occupation	Count
Student or scientist in biology	8
Other	4
IT specialist, database admin	4
Librarian or data manager	2
Data or computer scientist	2

Figure 1.
Poll results about composition of audience during live participation.



At the end of the presentation, very interesting questions were raised and discussed. For details, see the "Results and discussion" section of this paper.


Larry Page, Project Director at iDigBio, wrote: "This workflow has the potential to be a huge step forward in documenting use of collections data and enabling iDigBio and other aggregators to report that information back to the institutions providing the data."

Neil Cobb, a [research professor](#) at the Department of Biological Sciences at the Northern Arizona University, suggested that the methods, workflows and tools addressed during the presentation could provide a basis for a virtual student course in biodiversity informatics.


Methods

Comment




 Iva Kostadinova
4:38 PM 20.09.2016
Resolved by: Viktor Senderov (21.09.16 11:26)


copying, nor

 Deborah Paul
5:48 PM 20.09.2016


I think or is fine here. Nor goes with neither or not (usually).

 Iva Kostadinova
4:39 PM 20.09.2016
Resolved by: Viktor Senderov (21.09.16 11:28)


move after "manuscript". Also, change to "the AWT"

 Viktor Senderov
11:28 AM 21.09.2016


i think this will be too cumbersome. awt is a little bit like a name, like facebook.

 Deborah Paul
5:54 PM 20.09.2016
Resolved by: Viktor Senderov (21.09.16 11:30)


May be easier reading as:
More information can be found in the iDigBio webinar information page.

 Viktor Senderov
11:30 AM 21.09.2016

done

 Shelley James
12:09 AM 22.09.2016
Resolved by: Viktor Senderov (22.09.16 20:42)

were

 Shelley James
12:12 AM 22.09.2016
Resolved by: Viktor Senderov (22.09.16 20:42)

Could also be non-biology scientists, collections personnel, educators...

'Embedded' Copy-editor

The screenshot displays a web application for editing data papers. The top navigation bar includes links for Contributors, Reviewers, Email co-authors, Helpdesk, Tips and tricks, and Revision history. Below this is a filter bar with options like Filter comments, Resolved, Archived, and sorting by user, review round, or date. A sidebar on the left lists various metadata fields for a 'Data Paper (Generic)', such as Object name, Format names and versions, Creation dates, Dataset creators, Dataset contributors, Language, License, Repository name, Repository location, Publication date, Re-use potential, Details for replicability and reproducibility, Additional information, Acknowledgements, References, Supplementary files, Figures, Tables, and Endnotes. At the bottom of the sidebar are buttons for 'Update DOIs', 'Validate', and 'Approve'. A modal window titled 'Validation unsuccessful' is open in the center, displaying two error categories: 'Missing field(s)' with sub-points '- Background in "Abstract"' and '- New information in "Abstract"', and 'There are uncited tables' with the sub-point '- Table 1 is not cited in the text'. A 'Close' button is located at the bottom of the modal. The background content, partially obscured, appears to be a text document discussing scientific fields and Scopus search queries.

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Endnotes

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- Background in "Abstract"
- New information in "Abstract"

There are uncited tables

- Table 1 is not cited in the text

Close

be given in the title or in the author keywords to find those articles whose authors explicitly wanted to refer to ES.

To assure the articles are analysed properly regarding their topic, we split them to experts in the according scientific fields. The seven scientific fields we distinguished are indicated by a combination of author keywords (see first column of Table 1). The groups of articles were filtered directly from Scopus advanced search (see our search query in the subchapter below) and were organized in

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2016 Oct. 06 16:46

[Maria Sini](#)

2016 Sep. 27 20:44

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2016 Sep. 03 20:07

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2016 Mar. 28 14:58

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2016 Mar. 17 11:38

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2016 Mar. 17 11:18

[Laure Thierry de Ville d'Avray](#)

2016 Mar. 11 13:54

[Romain David](#)

Biodiversity Data Journal : Research Article

CIGESMED for divers: Establishing a citizen science initiative for the mapping and monitoring of coralligenous assemblages in the Mediterranean Sea

Vasilis Gerovasileiou[‡], Thanos Dailianis[‡], Emmanouela Panteri[‡], Nikitas Michalakakis[‡], Giulia Gatti[§], Maria Sini[‡], Charalampos Dimitriadis[‡], Yiannis Issaris[#], Maria Salomidi[#], Irene Filiopoulou[‡], Alper Doğan[¶], Laure Thierry de Ville d'Avray[§], Romain David[§], Melih Ertan Çınar[¶], Drosos Koutsoubas^{‡,¶}, Jean-Pierre Féral[§], Christos Arvanitidis[‡]

[‡] Institute of Marine Biology, Biotechnology and Aquaculture, Hellenic Centre for Marine Research, Heraklion, Greece

[§] Mediterranean Institute of Biodiversity and marine and terrestrial Ecology (IMBE), Aix Marseille Université/CNRS/IRD/Université d'Avignon, Station Marine d'Endoume, Marseille, France

[¶] Department of Marine Sciences, School of Environment, University of the Aegean, Mytilene, Greece

[¶] National Marine Park of Zakynthos, Zakynthos, Greece

[#] Institute of Oceanography, Hellenic Centre for Marine Research, Anavyssos, Attiki, Greece

[¶] Department of Hydrobiology, Faculty of Fisheries, Ege University, Bornova, Izmir, Turkey

Corresponding author: Vasilis Gerovasileiou (vgerovas@hcmr.gr)

Academic editor: Nicolas Bailly

Received: 01 Apr 2016 | Accepted: 01 Jun 2016 | Published: 09 Jun 2016

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Citation: Gerovasileiou V, Dailianis T, Panteri E, Michalakakis N, Gatti G, Sini M, Dimitriadis C, Issaris Y, Salomidi M, Filiopoulou I, Doğan A, Thierry de Ville d'Avray L, David R, Çınar M, Koutsoubas D, Féral J, Arvanitidis C () CIGESMED for divers: Establishing a citizen science initiative for the mapping and monitoring of coralligenous assemblages in the Mediterranean Sea. . doi:



Abstract

Background

Over the last decade, inventorying and monitoring of marine biodiversity has significantly benefited from the active engagement of volunteers. Although several Citizen Science projects concern tropical reef ecosystems worldwide, none of the existing initiatives has yet specifically focused on their Mediterranean equivalents. Mediterranean coralline reefs, known as "coralligenous", are bioherms primarily built by calcifying rhodophytes on hard substrates under dim-light conditions: they are

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Add

☒ BOLD record ID (example: ACRJP618-11 | ACRJP619-11)

☐ BOLD BIN (example: BOLD:AAA5125 | BOLD:AAA5126)

☐ GBIF via Occurrence ID (example: urn:catalog:HYO:ENT:B1367540 | 4b7b4bb4-0db7-4592-b3f9-1b15b6235360)

☐ GBIF ID (example: 1061574007 | 240843113)

☐ iDigBio UUID (example: 1db58713-1c7f-4838-802d-be784e444c4a | d957ac64-ce51-4d40-801e-670b345aa7b6)

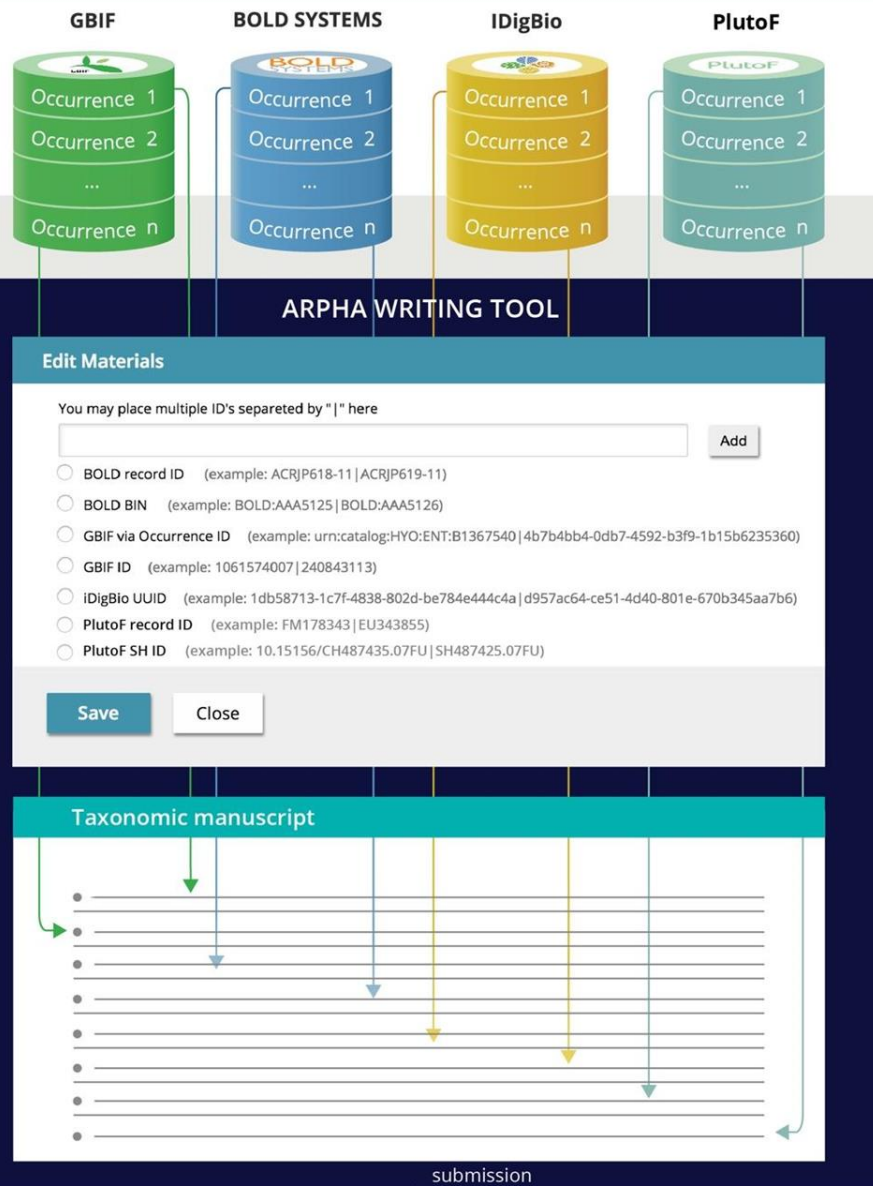
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Species Occurrence Data

1	A	B	C	D	E	F	G	H	I	J	K	L
1	Taxon_Local_ID	typeStatus	catalogNumber	occurrenceDetails	occurrenceRemarks	recordNumber	recordedBy	individualID	individualCount	sex	lifeStage	reproductiveCondition
2		1	Other materi CAM0023				H. Goulet				Adult	
3		1	Other materi BIOUG01088-A03				James Sones				Adult	
4		1	Other materi CAM0036				H. Goulet				Adult	
5		1	Other materi MIC 000034				Dom. Par. Lab.			Female	Adult	
6		1	Other materi MIC 000041				N. C. D. A			Male	Adult	
7		1	Other materi MIC 000036				Phillips			Female	Adult	
8		1	Other materi BIOUG01631-B09				James Sones				Adult	
9		1	Other materi CAM0104				H. Goulet				Adult	
10		1	Other materi MIC 000035				J. Vockeroth			Female	Adult	
11		1	Other materi CNCHYM 00081				N. C. D. A				Adult	
12		1	Other materi CAM0117				H. Goulet				Adult	
13		1	Other materi CAM0021				H. Goulet				Adult	
14		1	Other materi CAM0046				H. Goulet				Adult	
15		1	Other materi MIC 000040				N. C. D. A			Male	Adult	
16		1	Other materi CAM0053				H. Goulet				Adult	
17		1	Other materi CAM0063				H. Goulet				Adult	
18		1	Other materi CAM0020				H. Goulet				Adult	
19		1	Other materi CAM0058				H. Goulet				Adult	
20		1	Other materi CAM0026				H. Goulet				Adult	
21		1	Other materi CAM0049				H. Goulet				Adult	
22		1	Other materi MIC 000037				D. Finnamore			Female	Adult	
23		1	Other materi MIC 000033				C. Twinn			Female	Adult	
24		1	Other materi MIC 000038							Female	Adult	
25		1	Other materi CAM0042				H. Goulet				Adult	
26		2	Other materi CNCHYM 00088				N. C. D. A				Adult	
27		2	Other materi MIC 000908				H. Goulet, A. Badiss, C. Boudeault				Adult	
28		2	Other materi BIOUG10353-H05				F.Tremblay				Adult	
29		2	Other materi MIC 000905				H. Goulet, A. Badiss, C. Boudeault				Adult	
30		2	Other materi BIOUG00989-E12				Alex Smith				Adult	
31		2	Other materi BIOUG01252-E11				James Sones				Adult	
32		2	Other materi BIOUG07019-B11				Cyndi Smith				Adult	
33		2	Other materi BIOUG10403-A09				F.Tremblay				Adult	
34		2	Other materi MIC 000063							Female	Adult	
35		2	Other materi BIOUG10360-E02				F.Tremblay				Adult	
36		2	Other materi BIOUG10358-C12				F.Tremblay				Adult	
37		2	Other materi BIOUG00989-F01				Alex Smith				Adult	
38		2	Other materi BIOUG11905-C04				F.Tremblay				Adult	
39		2	Other materi MIC 000902				H. Goulet, A. Badiss, C. Boudeault				Adult	
40		2	Other materi MIC 000058				J. McDunnough			Female	Adult	
41		2	Other materi CAM0096				L. Masner				Adult	
42		2	Other materi BIOUG11907-E10				F.Tremblay				Adult	
43		2	Other materi CAM1013				H. Goulet				Adult	
44		2	Other materi BIOUG01631-H02				James Sones				Adult	
45		2	Other materi CNCHYM 00089				N. C. D. A				Adult	
46		2	Other materi BIOUG04245-B10				Jarret Hardisty				Adult	

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Teodor Georgiev



Taxonomic Paper

Biodiversity Data Journal 1: e987 (16 Sep 2013)
<https://doi.org/10.3897/BDJ.1.e987>

Taxon treatments

Oxyscelio arvi Burks, 2013

- Hymenoptera Name Server http://lsid.tdwg.org/urn:lsid:biosci.ohio-state.edu:osuc_concepts:275548
- ZooBank <urn:lsid:zoobank.org:act:491CF086-1501-4C6C-BB0E-1A9588FECF4F>
- Species-ID http://species-id.net/wiki/Oxyscelio_arvi

Nomenclature

Oxyscelio arvi Burks et al. 2013: 16, 19, 46. Original description, keyed, placed in *florus* species group.

Materials

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- a. scientificName: *Oxyscelio arvi*; taxonID: urn:lsid:biosci.ohio-state.edu:osuc_names:275548;
country: China; stateProvince: Zhejiang; locality: Mt Qingliangfeng; locationRemarks: label
transliteration: "Zhejiang, Qingliangfeng, 2005.08.09, Zhang Hongying"; [浙江清凉峰 2005.08.09
张红英]; decimalLatitude: 30.0703; decimalLongitude: 118.8944; georeferenceProtocol: Google
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- b. scientificName: *Oxyscelio arvi*; taxonID: urn:lsid:biosci.ohio-state.edu:osuc_names:275548;
country: China; stateProvince: Zhejiang; locality: Mt Qingliangfeng; locationRemarks: label
transliteration: "Zhejiang, Qingliangfeng, 2005.08.09, Zhang Hongying"; [浙江清凉峰 2005.08.09
张红英]; decimalLatitude: 30.0703; decimalLongitude: 118.8944; georeferenceProtocol: Google
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2012; modified: 2013-07-17T11:03:59Z; language: en; collectionID: urn:lsid:biocol.org:col:34252;
collectionCode: Insects; basisOfRecord: PreservedSpecimen; source: <http://hol.osu.edu/spminfo.html?id=SCAU%202011000626>
- c. scientificName: *Oxyscelio arvi*; taxonID: urn:lsid:biosci.ohio-state.edu:osuc_names:275548;
country: China; stateProvince: Zhejiang; locality: Mt Qingliangfeng; locationRemarks: label
transliteration: "Zhejiang, Qingliangfeng, 2005.08.09, Shi Min"; [浙江清凉峰 2005.08.09 时敏];
decimalLatitude: 30.0703; decimalLongitude: 118.8944; georeferenceProtocol: Google Earth;
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modified: 2013-07-17T11:03:53Z; language: en; collectionID: urn:lsid:biocol.org:col:34252;
collectionCode: Insects; basisOfRecord: PreservedSpecimen; source: <http://hol.osu.edu/spminfo.html?id=SCAU%202011000467>
- d. scientificName: *Oxyscelio arvi*; taxonID: urn:lsid:biosci.ohio-state.edu:osuc_names:275548;

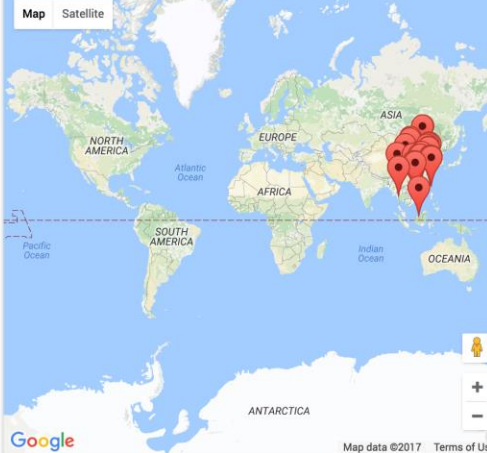
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All taxa

- ☒ Oxyscelio arvi
- ☒ Oxyscelio ceylonensis
- ☒ Oxyscelio convergens
- ☒ Oxyscelio cordis
- ☒ Oxyscelio crebritas
- ☒ Oxyscelio cuculli
- ☒ Oxyscelio dermatoglyphes
- ☒ Oxyscelio doumao
- ☒ Oxyscelio florus
- ☒ Oxyscelio granorum
- ☒ Oxyscelio intermediatas
- ☒ Oxyscelio jugi
- ☒ Oxyscelio kramatos
- ☒ Oxyscelio longiventris

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Taxonomic Paper

Biodiversity Data Journal 2: e1071 (10 Mar 2014)
<https://doi.org/10.3897/BDJ.2.e1071>

Review of the genus *Namadytes* Hesse, 1969 (Insecta: Diptera: Mydidae: Syllegomydinae)

▼ Torsten Dikow, Stephanie Leon

Abstract

The *Mydidae* genus *Namadytes* Hesse, 1969 is reviewed. It is known from five species, primarily occurring in Namibia. The study of newly available material from both Namibia and South Africa deposited in several natural history collections results in the recognition of three species and new synonymy of two, *i.e.*, *Namadytes pallidus* Hesse, 1972 is a new junior synonym of *Namadytes maculiventris* (Hesse, 1969) and *Namadytes prozeskyi* Hesse, 1969: 282 is a new junior synonym of *Namadytes vansonii* Hesse, 1969: 280. All three species are re-described and comments on sexual dimorphism and intraspecific variation are made, a dichotomous key for their identification is presented, and illustrations and photographs are provided to support the descriptions and facilitate future identification. Distribution, occurrence in [biodiversity hotspots sensu Conservation International](#), and seasonal incidence with associated weather and climatic data are discussed for all species. A morphological structure ventral to the halter and posterior to the metathoracic spiracle, the infra-halter sclerite, is here newly termed.

Keywords

Diptera, Mydidae, Syllegomydinae, *Namadytes*, Afrotropical Region, taxonomy

Introduction

The southern African *Mydidae* fauna is the most diverse world-wide both in terms of species numbers and generic diversity. The seminal work by [Hesse \(1969\)](#) on the southern African mydids based primarily on specimens he collected himself throughout western South Africa, in which he described no fewer than 108 new species (106 of which are still valid) and 12 new genera (11 of which are still valid), provided a comprehensive overview of this unique fauna. [Hesse \(1972\)](#) added to the knowledge following the examination of additional material from Namibia (then South-West Africa).

Taxonomic history

At the start of this review, *Namadytes* Hesse, 1969 is known from five species with an interesting taxonomic history.

- [Hesse \(1969\)](#) described the genus *Namadytes* (p. 278) based on two female specimens and representing two distinct species, *i.e.*, *Namadytes vansonii* Hesse, 1969: 280 from Seeheim, Namibia and *Namadytes prozeskyi* Hesse, 1969: 282 from Arechadamab, Namibia. On page 284, Hesse describes the genus *Namamydas* Hesse, 1969 based on a single male specimen, identified as *Namamydas maculiventris* Hesse, 1969, collected by himself and his colleagues from the South African Museum (now [Iziko South African Museum](#)) at Vioolsdrift on the South African bank of the Orange River which represents the border with Namibia. Hesse comments on the unique composition of the



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Natural-language species descriptions in SDD format

Authors: Dikow, T. and Leon, S.

Data type: morphological

Brief description: The XML file includes the natural-language species descriptions in SDD (Structure of Descriptive Data) format.

Filename: namadytes_dikow+leon_2014.sdd

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Supplementary material 2

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Authors: World Weather Online

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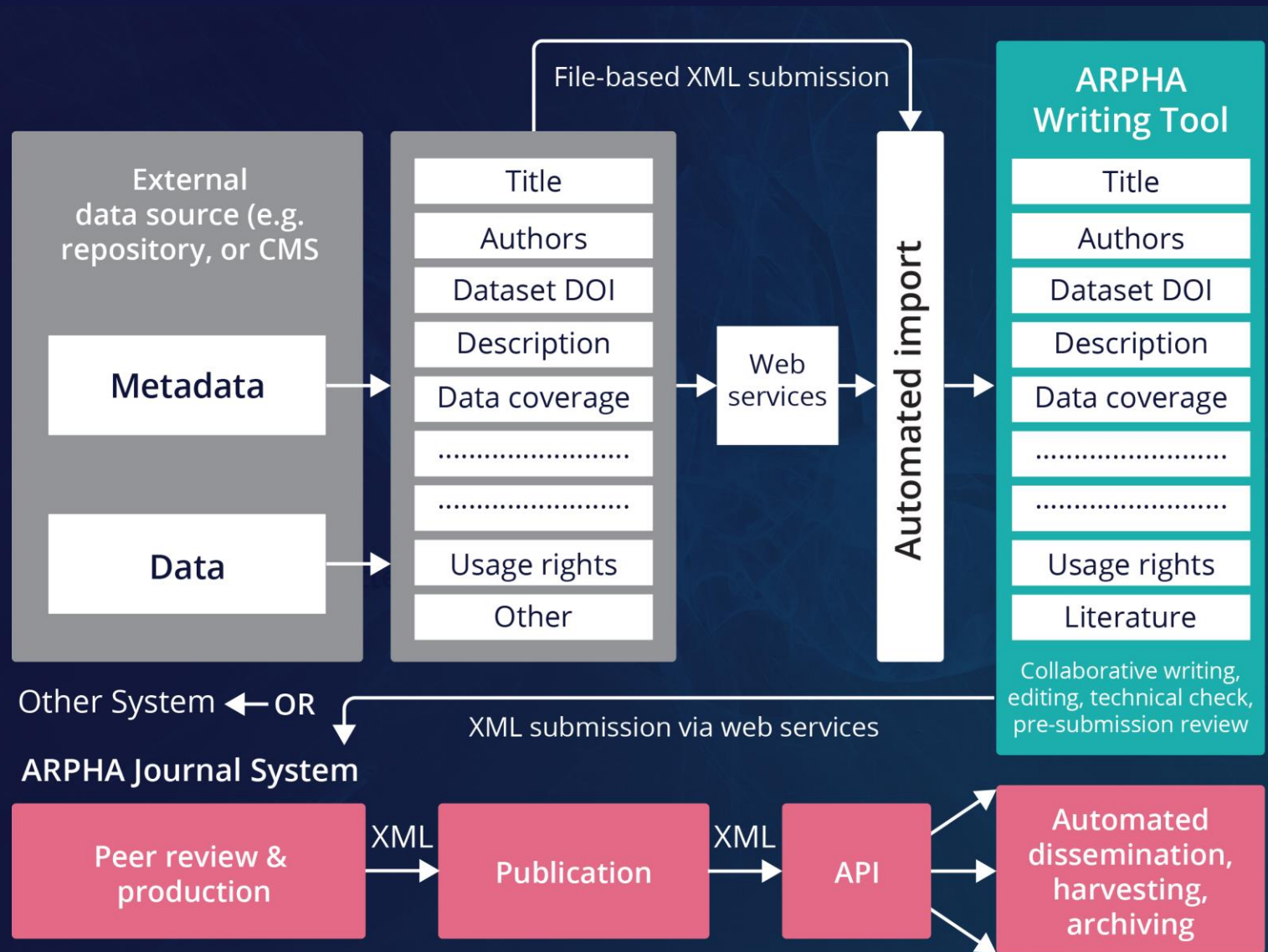
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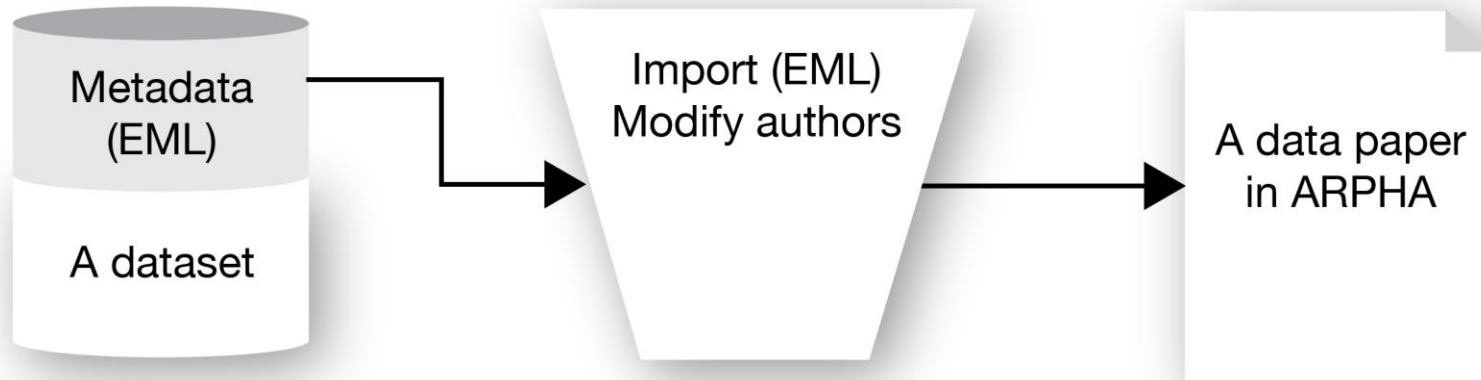
The study of deep-sea fish fauna, due to the difficulty and high cost incurred in its surveys and collections, is hampered by the lack of data. Taiwan is situated along the edge of the Eurasia plate, and is at the junction of three Large Marine Ecosystems or Ecoregions of the East China Sea, South China Sea and the Philippines. Since nearly two-thirds of Taiwan's surrounding marine ecosystems are deep-sea environment, it is expected to hold a rich diversity of deep-sea fish. In the past, no research vessels had been employed to collect fish data on site. There were only specimens from Dasi and Donggang fishing harbors caught by bottom trawl fishing in the water hundreds of meters deep and missing precise locality information. Began in 2001, with the support of National Science Council, research vessels were made available to take on the task of systematically collecting deep-sea fish specimens and occurrence records in the waters surrounding Taiwan. By the end of 2006, a total of 3,653 specimens, belonging to 26 orders, 88 families, 198 genera and 366 species, were collected in addition to data such as sampling site geographical coordinates, water depth, and fish body length and weight. All the information are open and accessible from the "Database of Taiwan's Deep-Sea Fauna and Its Distribution (<http://deepsea.biodiv.tw/>)" as part of the "Fish Database of Taiwan." It should be beneficial to the study of the temporal and spatial changes of the distribution and abundance of fish fauna in the context of global deep-sea biodiversity.

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Photosynthetic pigments of water column samples analyzed using High Performance Liquid Chromatography (HPLC), sampled during Palmer LTER field season at Palmer Station Antarctica, 1991 - 2009.

Oscar Schofield [†]

[†] Rutgers University, -

Corresponding author: Oscar Schofield (oscar@marine.rutgers.edu)

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Abstract

Database of Vascular Plants of Canada (VASCAN): a community contributed taxonomic checklist of all vascular plants of Canada, Saint Pierre and Miquelon, and Greenland

Peter Desmet¹, Luc Brouillet¹

¹ *Université de Montréal Biodiversity Centre, 4101 rue Sherbrooke est, H1X2B2, Montreal, Canada*

Corresponding author: *Peter Desmet* (peter.desmet@umontreal.ca)

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Resource citation: Brouillet L, Desmet P, Coursol F, Meades SJ, Favreau M, Anions M, Bélisle P, Gendreau C, Shorthouse D and contributors* (2010+). Database of Vascular Plants of Canada (VASCAN). 27189 records. Online at <http://data.canadensys.net/vascan>, <http://dx.doi.org/10.5886/Y7SMZY5P>, and <http://www.gbif.org/dataset/3f8a1297-3259-4700-91fc-acc4170b27ce>, released on 2010-12-10, version 24 (last updated on 2013-07-22). GBIF key: 3f8a1297-3259-4700-91fc-acc4170b27ce. Data paper ID: <http://dx.doi.org/10.3897/phytokeys.25.3100>

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Research Presentation

Research Ideas and Outcomes 2: e10617 (23 Sep 2016)
doi: 10.3897/rio.2.e10617

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Online direct import of specimen records into manuscripts and automatic creation of data papers from biological databases

▼ Viktor Senderov, Teodor Georgiev, Lyubomir Penev

Abstract ▼

Background

This is a Research Presentation paper, one of the novel article formats developed for the [Research Ideas and Outcomes](#) (RIO) journal and aimed at representing brief research outcomes. In this paper we publish and discuss our webinar presentation for the [Integrated Digitized Biocollections \(iDigBio\)](#) audience on two novel publishing workflows for biodiversity data: (1) automatic import of specimen records into manuscripts, and (2) automatic generation of data paper manuscripts from [Ecological Metadata Language](#) (EML) metadata.

New information

Information on occurrences of species and information on the specimens that are evidence for these occurrences (specimen records) is stored in different biodiversity databases. These databases expose the information via public REST API's. We focused on the [Global Biodiversity Information Facility](#) (GBIF), [Barcode of Life Data Systems](#) (BOLD), [iDigBio](#), and [PlutoF](#), and utilized their API's to import occurrence or specimen records directly into a manuscript edited in the [ARPHA Writing Tool](#) (AWT).

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Deborah Paul

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Data Paper

ZooKeys 527: 127-147 (15 Oct 2015)
<https://doi.org/10.3897/zookeys.527.6151>

Additions and corrections to the check list of the **Noctuoidea (Insecta, Lepidoptera)** of North America north of Mexico III

J. Donald Lafontaine, B. Christian Schmidt

Abstract

A total of 124 additions and corrections are listed and discussed for the check list of the **Noctuoidea** of North America north of Mexico published in 2010. Twenty-eight species are added to the list, 16 through new species descriptions, eight as a result of taxonomic splits, and four based on newly recorded species. Forty-eight species are deleted from the list, 41 through synonymy, and seven that were based on misidentifications. Twelve changes are corrections in the spelling of names, or changes in parentheses on dates of publication. Twenty-seven are changes in taxonomy of names where no species are added or deleted; eight changes involve the renumbering of existing species for better taxonomic arrangement. Within the text 2 stat. n., 10 stat. rev., 27 syn. n., 5 syn. rev., and 1 comb. n. are proposed for the first time.

Keywords

Canada, United States, **Noctuoidea**, **Erebidae**, **Eulepidotinae**, **Noctuidae**, **Dypsinae**, **Litoprosopus**

Introduction

Continuing work on the taxonomy and systematics of New World **Noctuoidea** has resulted in 124 additional changes to the check list of North American **Noctuoidea** (Lafontaine and Schmidt 2010). These are in addition to the 115 changes made to the list in in 2011 (Lafontaine and Schmidt 2011) and 64 changes made in 2013 (Lafontaine and Schmidt 2013). The new total of **Noctuoidea** species in North America north of Mexico is 3672 species.

Materials and methods

Repository abbreviations

Taxonomic changes are based on examination of material, especially type specimens, in the following collections:

AMNH The American Museum of Natural History, New York, NY, USA

ANSP The Academy of Natural Sciences, Philadelphia, Pennsylvania, USA

BMNH The Natural History Museum [statutorily: British Museum (Natural History)], London, UK



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Authors



J. Donald Lafontaine ✉ - Corresponding author
Agriculture and Agri-Food Canada, Ottawa, Canada
<http://www.canacol.org/>
Articles by this author in: [CrossRef](#) | [PubMed](#) | [Google Scholar](#)



B. Christian Schmidt ✉ - Corresponding author
Agriculture and Agri-Food Canada, Ottawa, Canada
Articles by this author in: [CrossRef](#) | [PubMed](#) | [Google Scholar](#)

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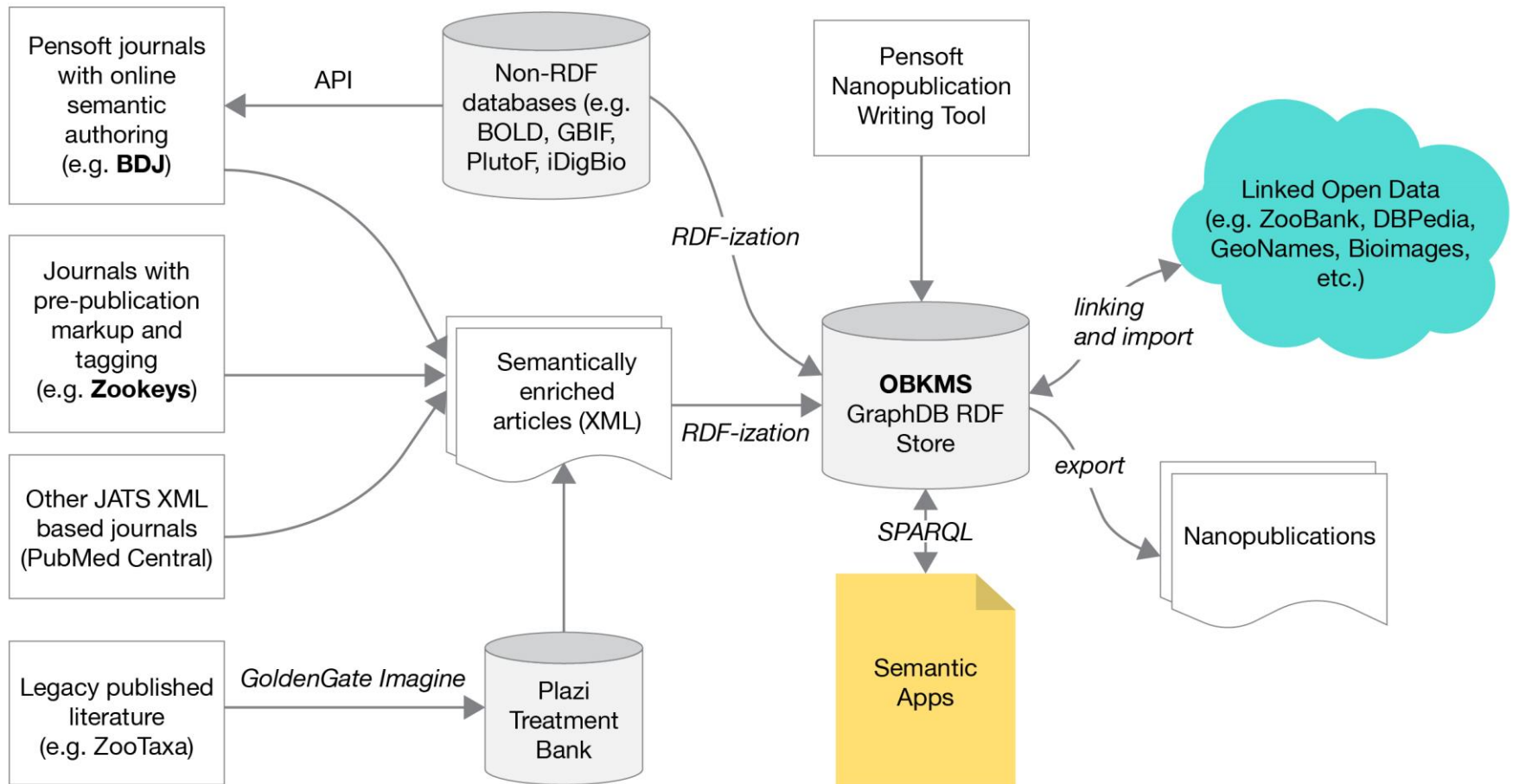
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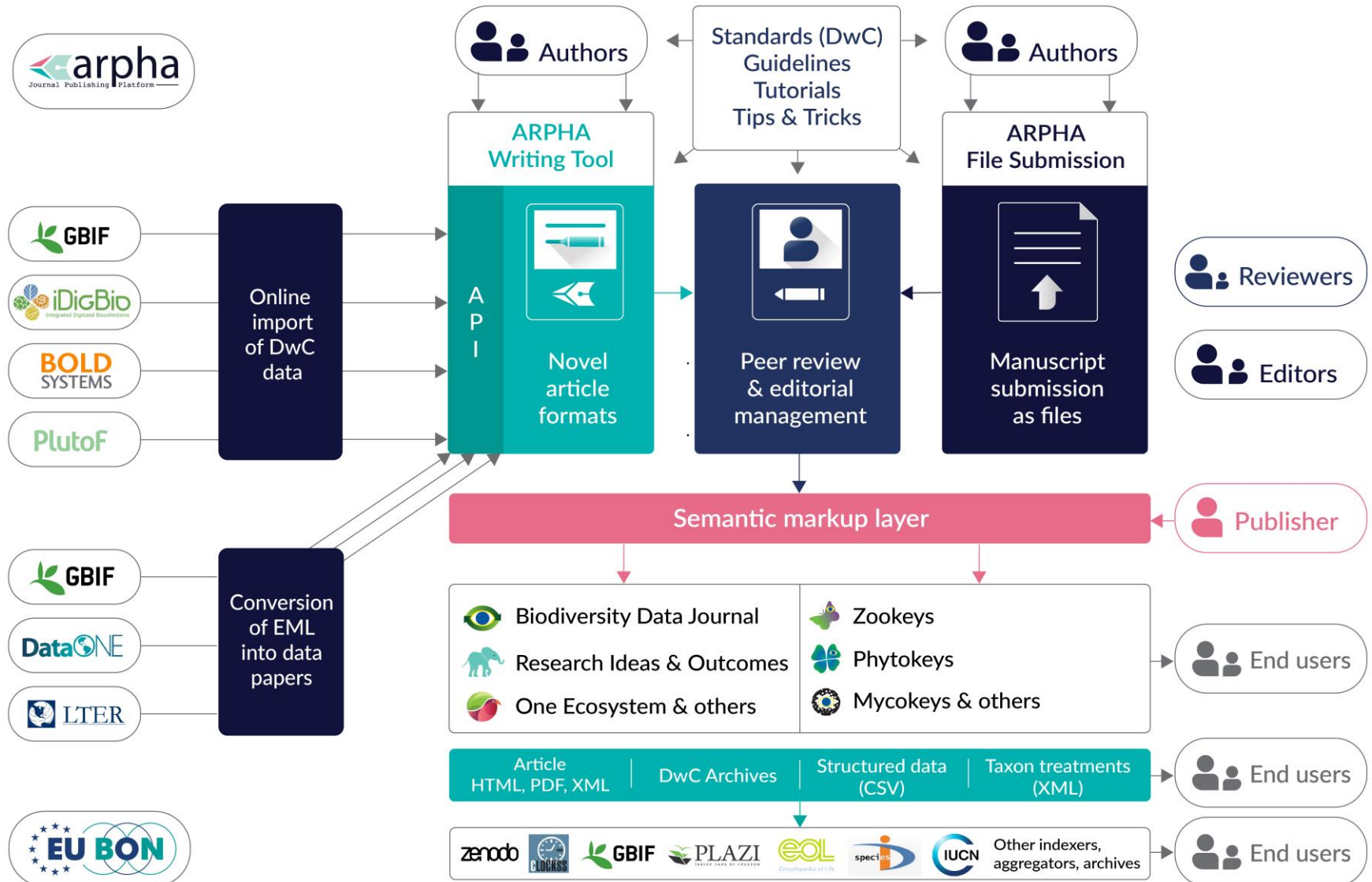
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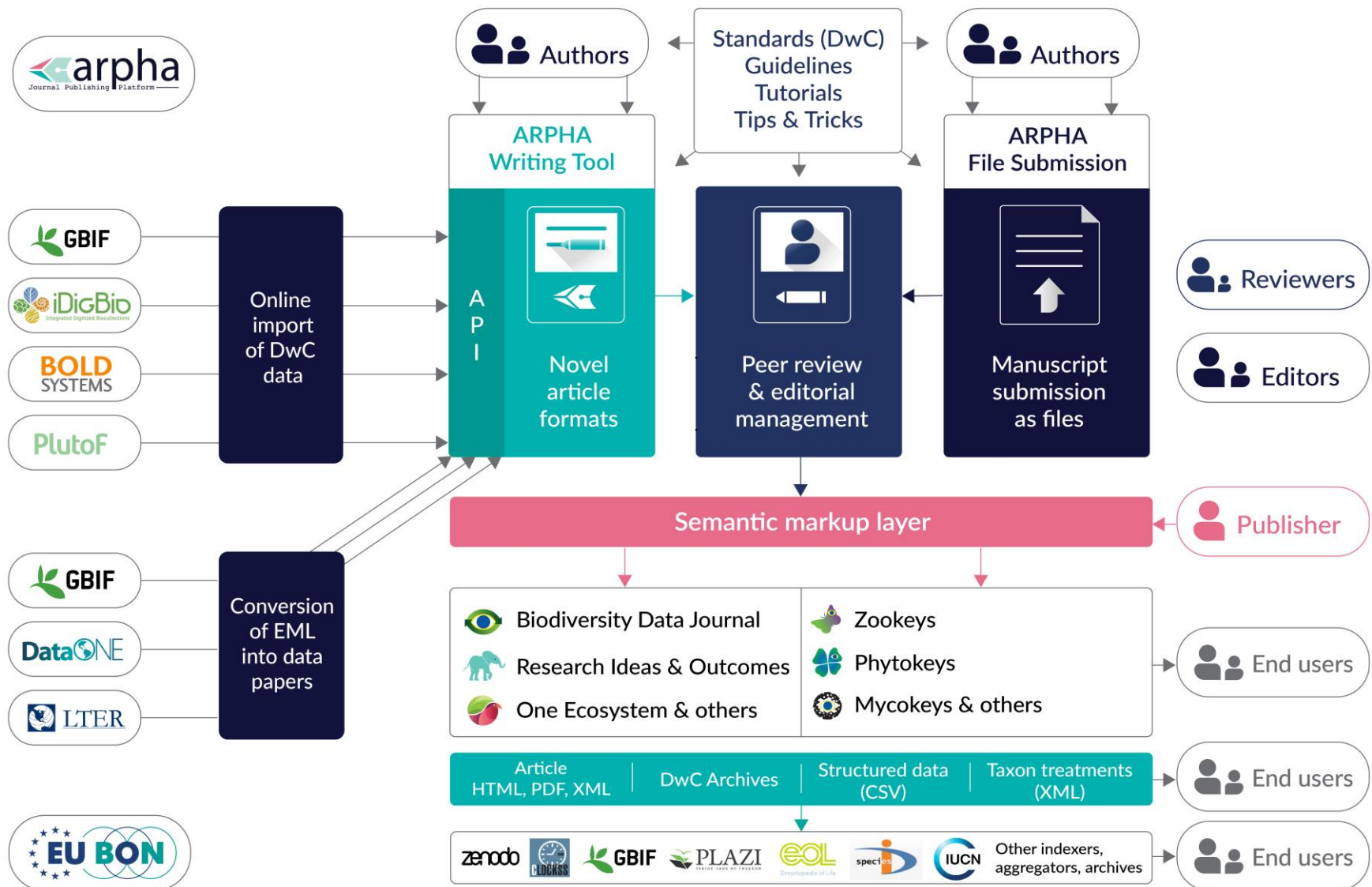
Groth, Gibson, and Velterop (2010)

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These recent developments of Open Access to data and the acknowledge value of data archiving lead to four global networks in agricultural and food security research to come together to support the Open Data journal for Agricultural Research:

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- Suggestions and ideas welcome!

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