



How semantic representations can support scholarly communication

Paul Groth

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<http://www.few.vu.nl/~pgroth>



Semantic Session: Detecting knowledge-level claims in research articles

Session: Plenary 3 

The research article genre has developed a specific structure for the effective communication of scientific results. The title, the abstract, more or less standardized section types, etc. are all structural elements in the service of facilitating comprehension and searchability. These elements are apparent for the reader through formatting, and their markup makes it possible for search algorithms ... [More](#)

Presented by **Mrs. Ágnes SÁNDOR** on **20/06/2013** at **08:00**

Semantic Session: Semantic indexing in PubMed

Session: Plenary 3 

About 5,000 biomedical journals are indexed and included in the National Library of Medicine's MEDLINE bibliographic database, available through PubMed. MEDLINE is used internationally to provide access to the world's biomedical journal literature. PubMed supports both text searches and searches based on the indexing of the articles in reference to the Medical Subject Headings (MeSH) thesaurus. ... [More](#)

Presented by **Mr. Olivier BODENREIDER** on **20/06/2013** at **07:00**

Semantic Session: Transformation of keyword indexed collections into semantic repositories

Session: Plenary 3 

In the information retrieval context, resource collections are frequently classified using simple knowledge models such as thesauri. However, the limited semantics provided restricts their search and browsing capabilities. This work shows a process that improves these capabilities through the conversion of the selected knowledge model into a domain ontology. The process has been tested with the Eu ... [More](#)

Presented by **Mr. Javier LACASTA** on **20/06/2013** at **07:30**

Small Data, or: Bridging the Gap Between Smart and Dumb Research Repositories

Session: Plenary 3 

Scientific research mostly consists of many tiny niches, with many thousands of small data sets: a 'long tail' effect. So we have a 'Small Data' problem: how do we connect vastly different experimental results, so that they can be used by other scientists? Currently, there are many large, topically agnostic repositories, requiring little metadata or informatics support, which serve an arch ... [More](#)

Presented by **Dr. Anita DE WAARD** on **20/06/2013** at **08:30**

STRUCTURE FOR HUMAN UNDERSTANDABILITY

**THE
ELEMENTS
OF
STYLE**

**WILLIAM
STRUNK, JR.**

WITH
REVISIONS,
AN INTRODUCTION,
AND
A NEW CHAPTER
ON WRITING
BY

E. B. WHITE

FOR AUTHORS

MANUSCRIPT FORMATTING GUIDE

This guide describes how to prepare contributions for submission. We recommend you read this in full if you have not previously submitted a contribution to *Nature*. We also recommend that, before submission, you familiarize yourself with *Nature's* style and content by reading the journal, either in print or online, particularly if you have not submitted to the journal recently.

Table of contents

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Extended Data Formatting Guide

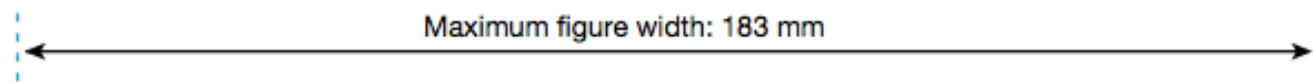
Nature allows authors to supply up to a maximum of ten Extended Data display items (figures and tables), which do not appear in the printed version of the *Nature* paper but are included online within the full-text HTML and at the end of the online PDF. Authors may combine their Extended Data figures into multi-panelled figures providing they meet the size rules below, but authors may not supply additional figures. Tabulated data can either be integrated into an Extended Data figure as a separate panel (for example, see Extended Data Figure 2, panel d) or be formatted as a separate display item: Extended Data table (for example, see Extended Data Table 1). Extended Data tables must be supplied as images (excluding title and footnote, which should be inserted at the end of the Word file containing the text of the paper), according to the rules below.

Extended Data figures and tables are cited in the text in the same way as the main (print) figures and tables. Unlike the main figures, Extended Data figures are not edited or styled by *Nature*'s art department; for this reason, authors are requested to follow *Nature* style as closely as possible when creating these figures. Extended Data tables are also not edited by *Nature*'s subediting department.

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Figure sizing and positioning



- Maximum page dimension is 183 mm x 247 mm.
- Try to position the figure in the same place on the page each time (i.e., centre).

Figures should be sized such that they fit to a single page (preferably leaving enough room for the legend to be set below, across two columns). However, in exceptional circumstance (for example, if sizing to keep the image and legend to one page results in an illegible figure) the legend may continue to a second page. Supplying figures at greater dimensions will result in larger files that we may not be able to use.

Lettering

- All text should be in a sans-serif typeface, preferably Helvetica or Arial.
- Amino acid sequences should be presented in one-letter code in *Courier*.
- Separate panels in multi-panelled figures should be labelled with **8 pt bold**, upright (not italic) and lowercase **a, b, c**, etc.
- Maximum text size for all other text: 7 pt.
- Minimum text size: 5 pt.
- Use 'symbol' for glyphs and Greek alphabet.

A a a

Sans-serif
body text

Bold
labels

Courier
one-letter code

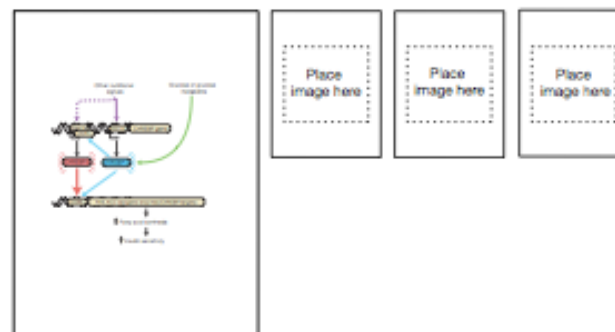
Line weights

- Lines and strokes should be set between 0.25 and 1 pt.

———— 0.25 pt ————— 1 pt

Arrangement

- Try to keep white space to a minimum when arranging panels within a figure.
- Place each figure on a new page when uploading online.



Centre the figure

Extended Data table formatting

- Add a horizontal rule above and below column headings and at the bottom of the Table.
- Tables can be set at one-column (8.9 cm) or two-column (18 cm) width.
- Use spaces rather than rules to separate blocks of data, but horizontal rules can be used to improve clarity in certain cases.

STRUCTURE FOR MACHINE UNDERSTANDABILITY (1)



3 Ways Concept Maps Help You Learn



Concept maps are pictures that show how ideas relate to each other. In a concept map, ideas are represented as nodes, and the relationships between them as links with descriptive labels.

Concept maps can be very large and complex—and they can be very small and simple. You can use concept maps to capture, communicate, and simplify very complex ideas. You can even use a concept map to describe **what a concept map is**.

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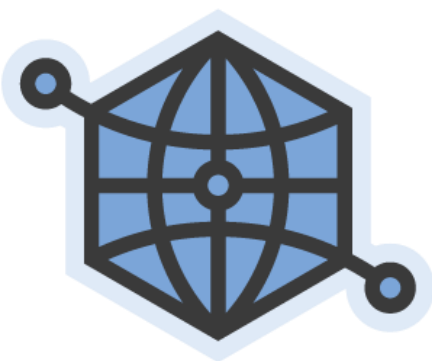
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Molecular modeling and pharmacophore elucidation study of the Classical Swine Fever virus helicase as a promising pharmacological target

Dimitrios Vlachakis, Sophia Kossida

› Author and article information

› Abstract

▼ Main article text

Introduction

The viral family *Flaviviridae* comprises the genera *Flavivirus*,

against CSFV infections through the perspective of the CSFV helicase as a potential pharmacological target. Notably, to date no antiviral agent is available against the CSFV nor is expected soon. Subsequently, there is urgent need for new modern and state-of-the-art antiviral strategies to be developed.">

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Autoimmune disease as a risk factor for mood disorder?

by [Paul Whiteley](#) in [Questioning Answers](#)

Autoimmunity, the process by which the immune system fails to recognise self as self and subsequently targets those self tissues and cells, is something talked about quite a lot on this blog with autism specifically in mind. Part of the very wide and diverse immune-related features which have been discussed with at least some of the autisms in mind, it's not yet altogether clear exactly how and why autoimmunity is linked to behaviour but the association is an interesting one. Sally? @ Wikiped..... [Read more »](#)

Benros ME, Waltoft BL, Nordentoft M, Ostergaard SD, Eaton WW, Krogh J, & Mortensen PB. (2013) [Autoimmune Diseases and Severe Infections as Risk Factors for Mood Disorders: A Nationwide Study](#). JAMA psychiatry (Chicago, Ill.), 1-9. PMID: [23760347](#)

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3 Ways Concept Maps Help You Learn

by [Louise Rasmussen](#) in [Head Smart](#)

Concept maps are pictures that show how ideas relate to each other. In a concept map, ideas are represented as nodes, and the relationships between them as links with descriptive labels. Concept maps can be very large and complex—and they can be very small and simple. You can use concept maps to capture, communicate, and simplify [...]... [Read more »](#)

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Redford, J., Thiede, K., Wiley, J., & Griffin, T. (2012) [Concept mapping improves metacomprehension accuracy among 7th graders](#). Learning and Instruction, 22(4), 262-270. DOI: [10.1016/j.learninstruc.2011.10.007](#)

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2

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YouTube Research Tools and Widgets at MSU Library



Research Tools and Widgets at MSU Library

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Part 1 thoughts

- It's out there
- Existing widely deployed semantic formats are useful
- Leverage consumer platforms
- Can we build better applications?

STRUCTURE FOR MACHINE UNDERSTANDABILITY (2)

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David Shotton , Katie Portwin, Graham Klyne, Alistair Miles

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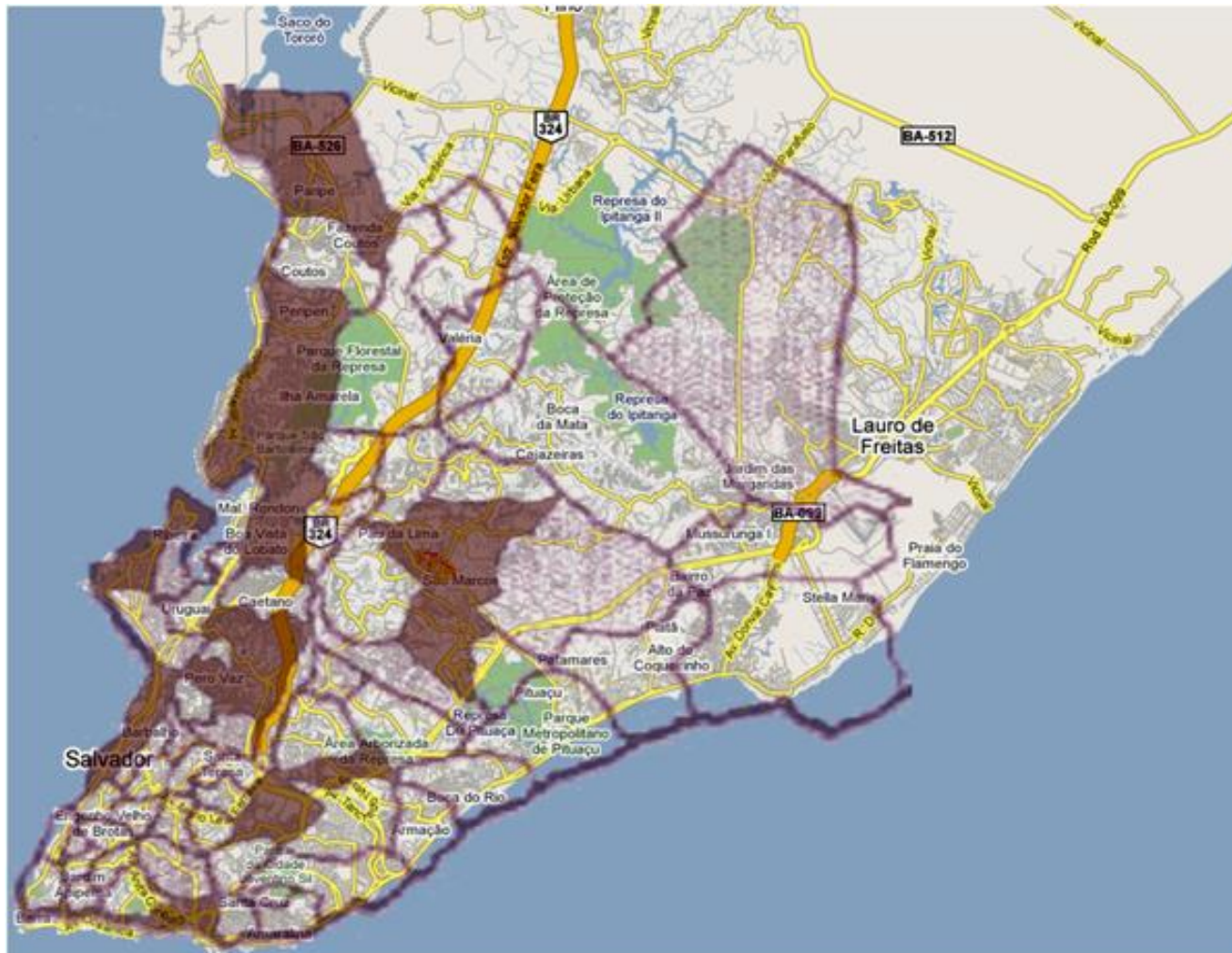
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3	Designed and created by David Shotton, University of Oxford		If relevant, specify at least one authorship role, data role, investigation role and/or project role for each named person		
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18					
19					
20	Roles				
21	Authorship role	(Most important role)			
22	Equal principal authorship role?	(Answer "Yes" or "No")			
23	Authorship role	(Use if person has second role)			
24	Authorship role	(Use if person has third role)			
25	Authorship role	(Use if person has fourth role)			
26	Data role	(Most important role)			


article guarantor
author
consortium author
corresponding author
illustrator
inventor
photographer
principal author
senior author

Report Help +

Normal View Ready Sum = 0

COMMIT VIVO Browser


localhost:8000/person/http%3A//commit.data2semantics.org/individual/person/prof-dr-fah-van-harmelen




COMMIT/ VIVO Browser

Pages All Projects All Organizations All Persons

prof. dr. F.A.H. van Harmelen (Frank)



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	Faculteit Exacte Wetenschappen
	Vrije Universiteit Amsterdam
Principal Investigator	Data2Semantics: From Data to Semantics for Scientific Data Publishers



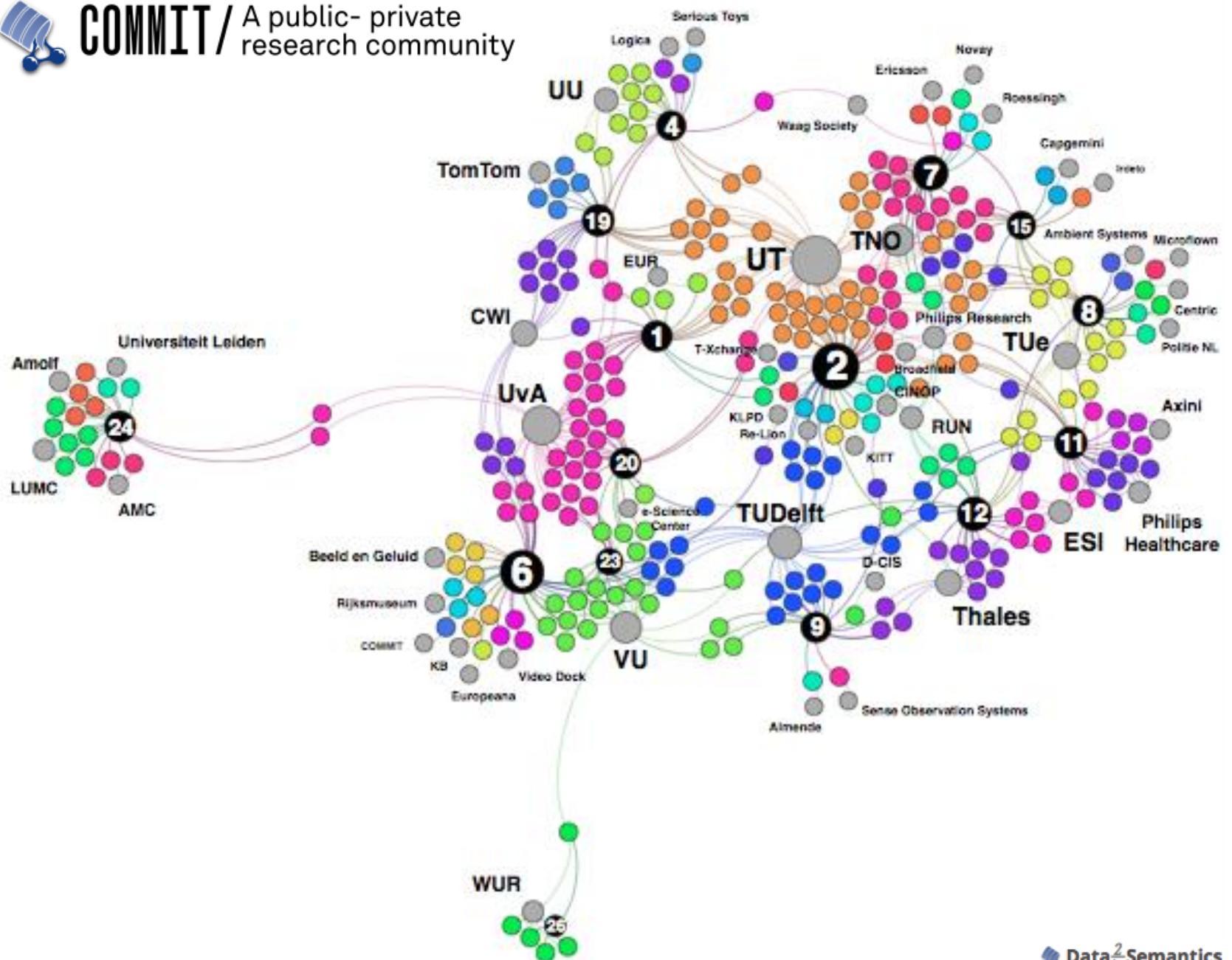
Data₂toSemantics

From Data to Semantics for Scientific Data Publishers

<https://github.com/Data2Semantics/VIVO-Browser>



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research community



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PLUGINS

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DANS EASY

NIF Registry

LinkedLifeData

ACTIONS

Preview Selection

Preview Nanopublication

Towards Reconstructing the Provenance of Clinical Guidelines

status Public
date 11:37, Apr 09, 2013
type poster
size 321.54 KB
version 1
files SWAT4LS.
authors Paul Groth

categories Applied Co

A poster from SWAT4LS, 2012

Dependency Analysis

Workbook

Sheets

- Amortization
- Car Loan
- Functions
- Monthly compounding
- Mortgage
- PV
- PV Factor

Sheet dependencies



Sheet Dependencies

Publish

<http://linkitup.data2semantics.org>



66 implementations

41 systems

22 vocab/datasets

3 validators

PROV-Overview

An Overview of the PROV Family of Documents

W3C Working Group Note 30 April 2013

This version:

<http://www.w3.org/TR/2013/NOTE-prov-overview-20130430/>

Latest published version:

<http://www.w3.org/TR/prov-overview/>

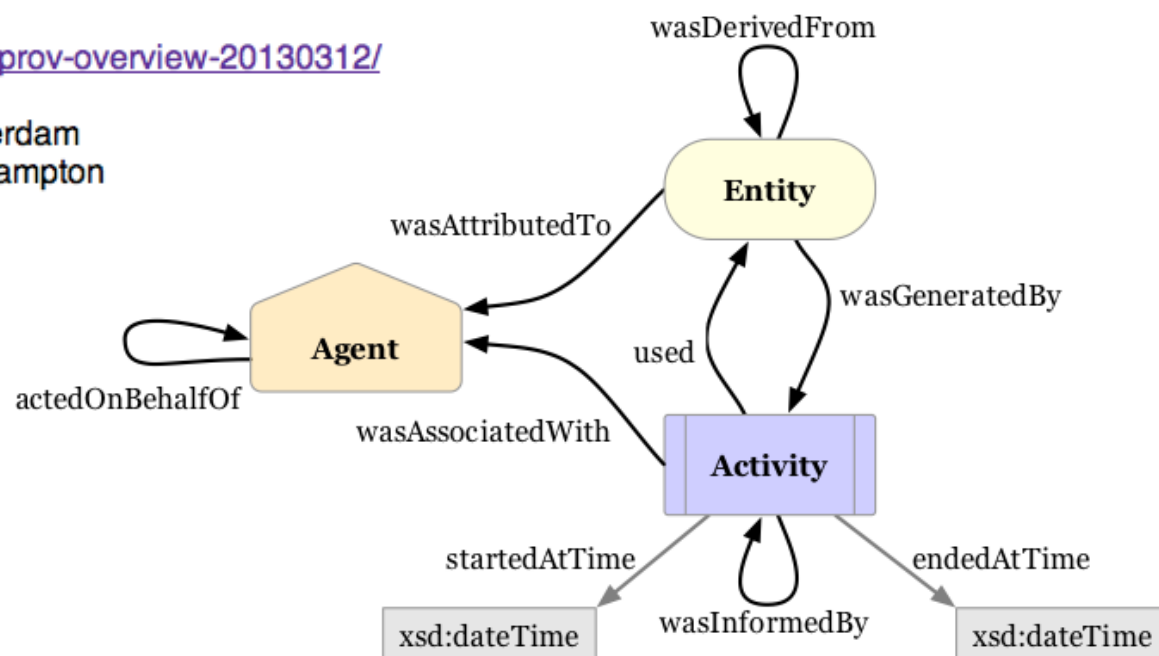
Previous version:

<http://www.w3.org/TR/2013/WD-prov-overview-20130312/>

Editors:

[Paul Groth](#), VU University Amsterdam

[Luc Moreau](#), University of Southampton



OpenPHACTS API Active Docs

The response template for each operation colour coded as follows:

- Required elements that always return a **single value**.
- Required elements that return **either a single value or an array**.
- Optional elements that always return a **single value**
- Optional elements that return **either a single value or an array**.

Operations

OpenPHACTS API

Chemical Structure Exact Search

/structure/exact GET

InchiKey to URL

/structure GET

Inchi to URL

/structure GET

<http://dev.openphacts.org>

Aspirin

Filter:

Source : All Sources

Name	Aspirin
ConceptWiki	
Weight	180.158
Naomi	
vdW Volume	153.411
Naomi	
Total Charge	0
Naomi	

All Sources

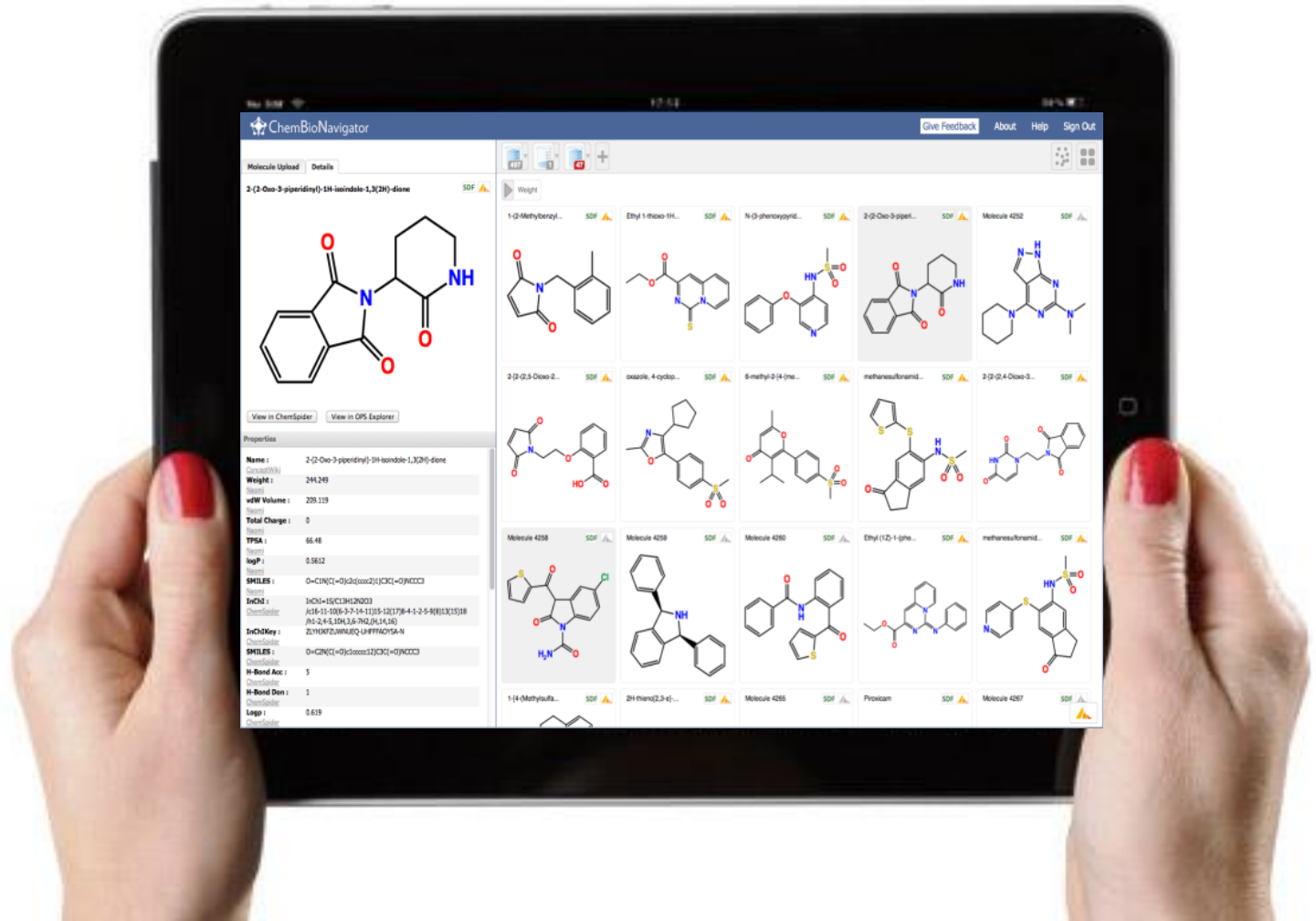
Naomi

ChemSpider

ChEMBL

ConceptWiki

DrugBank



Scholarship: Beyond the paper

Jason Priem

Nature **495**, 437–440 (28 March 2013) | doi:10.1038/495437a

Published online 27 March 2013



PDF



Citation



Reprints

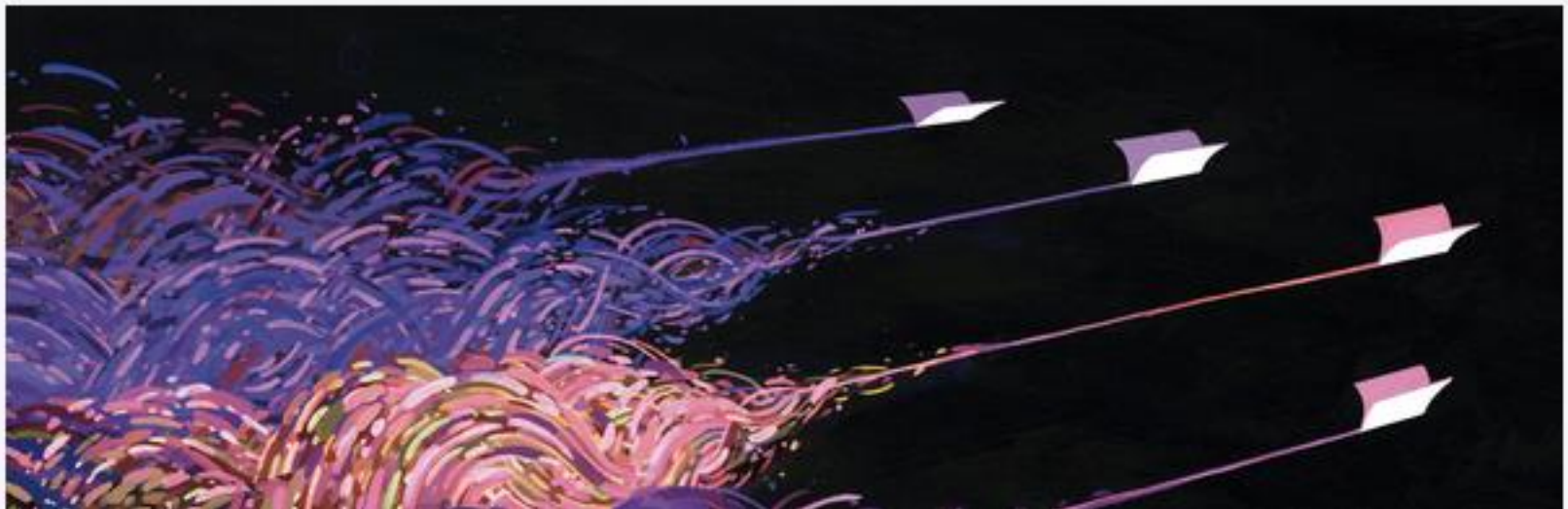


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Article metrics

The journal and article are being superseded by algorithms that filter, rate and disseminate scholarship as it happens, argues Jason Priem.





Paul Groth and David A. Shamma.
2013. Spinning data: remixing live data
like a music dj. In *CHI '13 Extended
Abstracts on Human Factors in
Computing Systems* (CHI EA '13). ACM,
New York, NY, USA, 3063-3066.
DOI=10.1145/2468356.2479611
<http://doi.acm.org/10.1145/2468356.2479611>