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## **Nástroje a platformy vědy 2.0**

Simandlová, Tereza  
2013

Dostupný z <http://www.nusl.cz/ntk/nusl-161396>

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# Nástroje a platformy



Tereza Simandlová | @kliste  
t.simandlova@gmail.com

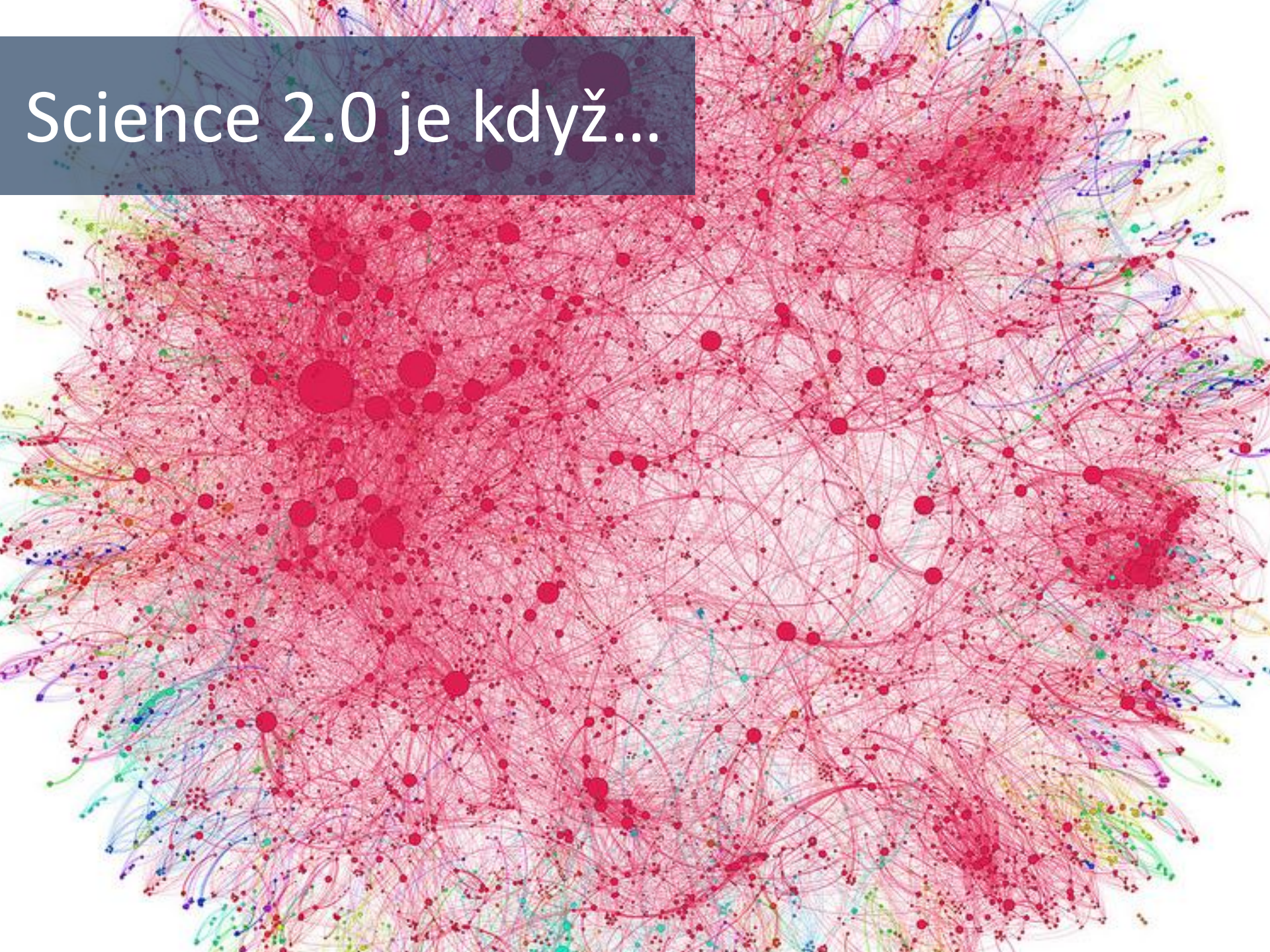


24. října 2013, Open Access aneb Open your mind!, NTK

*“Scientists created the web — but the open web still hasn’t transformed scientific practice to the same extent we’ve seen in other areas like media, education and business. For all of the incredible discoveries of the last century, science is still largely rooted in the “analog” age. Credit systems in science are still largely based around “papers,” for example, and as a result researchers are often discouraged from sharing, learning, reusing, and adopting the type of open and collaborative learning that the web makes possible.”*

[Suman, 2013]

Science 2.0 je když...



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**té klíště mandle**

@kliste

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[@karelk](#) Asi? .) Proč nejistota? (otázku myslím vážně, zajímalo by mě, proč to tak vnímáš)

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[@kliste](#) "asi" protože to odhaduju, jak to vnímám já a ne jak to ve skutečnosti může být...

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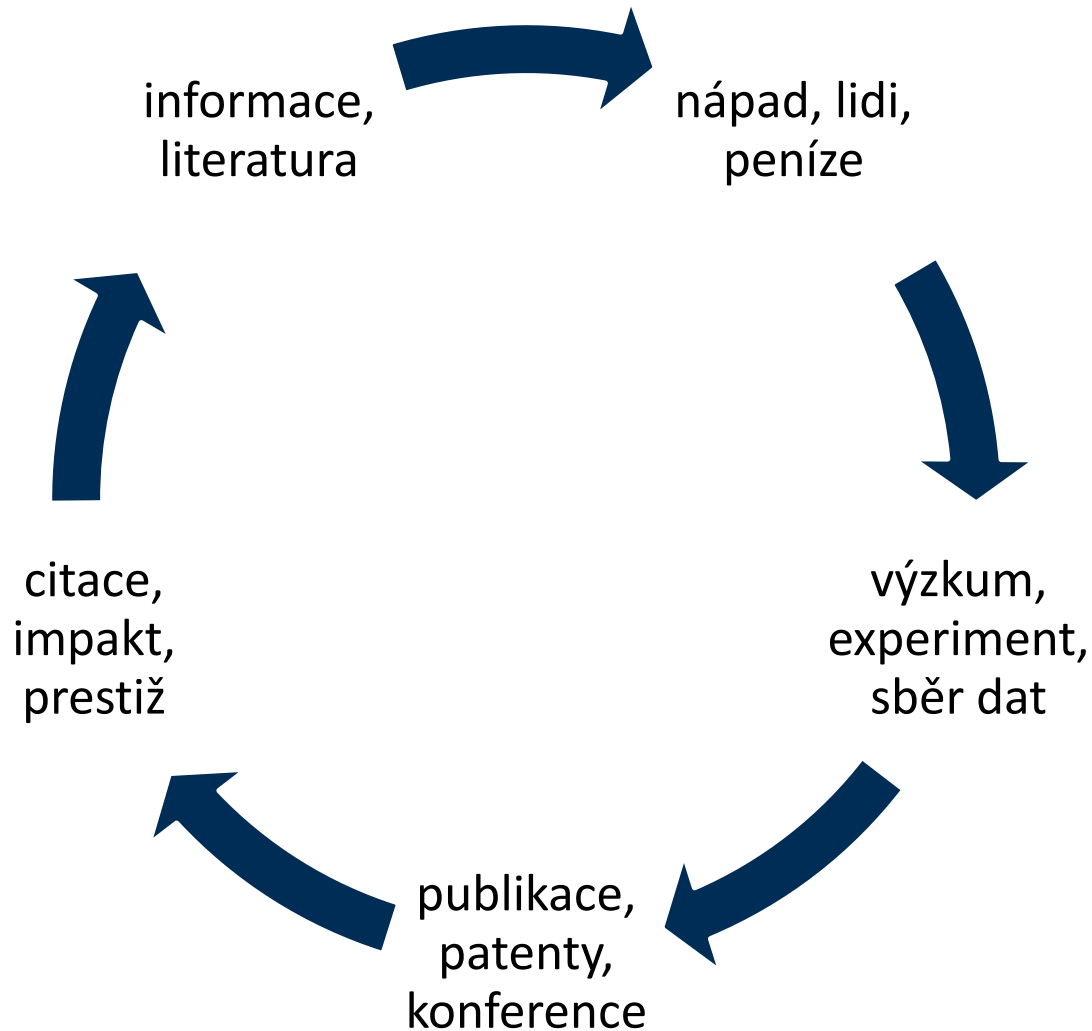
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## Your Reading List

1. [Open access: The true cost of science publishing](#) Richard Van Noorden
2. [Olfactory consciousness and gamma oscillation couplings across the olfactory bulb, olfactory cortex, and orbitofrontal cortex](#) Kensaku Mori, Hiroyuki Manabe, Kimiya Narikiyo, Naomi Onisawa

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An old essay by [+Terence Tao](#)

<http://arxiv.org/abs/math.HO/0702396>

which attempts to frame and then give some thoughts, driven by a particular example, on the titular question. In particular, Terry opens with a (non-exhaustive!) disambiguation of the question into 21 different qualities of mathematics that might be singled out as being 'good': problem solving, technique, theory, insight, discovery, application, exposition, pedagogy, vision, taste, public relations, meta-mathematics, rigorous maths, beautiful maths, elegant maths, creative maths, useful maths, strong maths, deep maths, intuitive maths, definitive maths.

He also notes that the essay (and the list above) only focuses on research mathematics, excluding textbooks, mathematical education and mathematics from other closely scientific disciplines.

The particular example that is covered is Szemerédi's theorem,

[http://en.wikipedia.org/wiki/Szemer%C3%A9di%27s\\_theorem](http://en.wikipedia.org/wiki/Szemer%C3%A9di%27s_theorem)

# What is good mathematics?

Terence Tao

Some personal thoughts and opinions on what "good quality mathematics" is, and whether one should try to define this term rigorously. As a case study, the story of Szemerédi's theorem is presented.

## Recommendations



[ 1 ] David Roberts : An old essay by +Terence Tao <http://arxiv.org/abs/math.HO/0702396> which attempts to frame and then... (4 hours ago)




An old essay by +Terence Tao

<http://arxiv.org/abs/math.HO/0702396>

which attempts to frame and then give some thoughts, driven by a particular example, on the titular question. In particular, Terry opens with a (non-exhaustive!) disambiguation of the question into 21 different qualities of mathematics that might be singled out as being 'good': problem solving, technique, theory, insight, discovery, application, exposition, pedagogy, vision, taste, public relations, meta-mathematics, rigorous maths, beautiful maths, elegant maths, creative maths, useful maths, strong maths, deep maths, intuitive maths, definitive maths.

He also notes that the essay (and the list above) only focuses on research mathematics, excluding textbooks, mathematical education and mathematics from other closely scientific disciplines.

The particular example that is covered is Szemerédi's theorem,

[http://en.wikipedia.org/wiki/Szemer%C3%A9di%27s\\_theorem](http://en.wikipedia.org/wiki/Szemer%C3%A9di%27s_theorem)

showing the existence of arbitrarily long arithmetic progressions in subsets of positive density of the integers. On a completely unrelated note, I found on the Wikipedia page this upper bound established by +Timothy Gowers (Geom. Funct. Anal. 11 (3): 465–588, (2001) <http://dx.doi.org/10.1007%2Fs00039-001-0332-9>) for the finitary case:

$$N \leq 2^{2^{(d^{-2^{(2^{(k+9))}})}}}$$

(here  $d \in (0, 1/2]$  and  $N$  is the minimum size of interval  $[1, N]$  in the integers for the existence of a  $k$ -term arithmetic progression in every subset of  $[1, N]$  of size at least  $dN$ ).

Aside from the sociological interest, this paper is a great overview of the sorts of mathematics that surrounds Szemerédi's theorem and related results.

#spnetwork arXiv:math.HO/0702396 #mustread

## Discussion

## Next Steps:

- Full text
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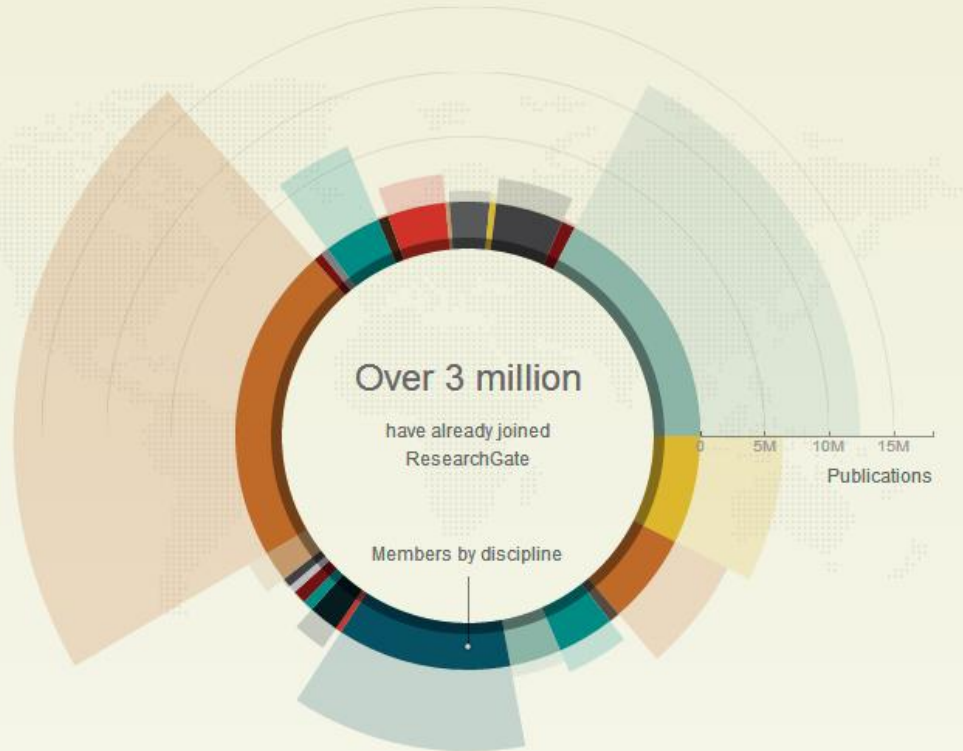


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### PUBLICATIONS

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#### Article: A global analysis of multitrial data investigating quality of life and symptoms as prognostic factors for survival in different tumor sites.

Chantal Quinten, Francesca Martinelli, Corneel Coens, Mirjam A G Sprangers, Jolie Ringash, Carolyn Gotay, Kristin Bjordal, Eva Greimel, Bryce B Reeve, John Maringwa, Divine E Ediebah, Efsthios Zikos, Madeleine T King, David Osoba, Martin J Taphoorn, Henning Flechtner, Joseph Schmucker-Von Koch, Joachim Weis, Andrew Bottomley

[show abstract]

Cancer 10/2013; · 5.20 Impact Factor

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#### Article: Prädiktoren tumorassoziierter Fatigue

Susanne Kuhnt, Carina Ehrensperger, Susanne Singer, Dirk Hofmeister, Kirsten Papsdorf, Joachim Weis, Rüdiger Zwerenz, Elmar Brähler

[show abstract]

Psychotherapeut 08/2013; 56(3). · 0.36 Impact Factor

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#### Article: [Prevalence of Adjustment Disorder, Acute and Posttraumatic Stress Disorders as well as Somatoform Disorders in Cancer Patients.]

Anja Mehnert, Sigrun Vehling, Katharina Scheffold, Natalie

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# Příprava


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# Open Science


Project Role: Project Owner


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Assign Team Member to Workflow


Create A Workflow

Add Participant

Add Team Member

Manage Workflows


Edit Project

 Export Participants as CSV

## Welcome to the **Open Science** project!


Here are some tips for getting started with a new project:

**Project Staff** ✕

 You are the only team member assigned to this project. To include other team members, click below.


[Assign A User](#)

**Workflows** ✕

 No workflows have been created yet. Track and record participant data with workflows.

[Create A Workflow](#)

**No Participants!** ✕

 No participants have been added. Click below to add participants

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0.264	0000-0002-6744-4314	Lynn	Corrigan		
0.264	0000-0002-4215-5639	Calum	Aikman		



## Which of Cameroon's peoples have members of haplogroup A00?

BONNIE SCHRACK & MATTHEW FOMINE FORKA

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[www.microryza.com](http://www.microryza.com)

This is Round Two of our fundraising for our groundbreaking research on the world's earliest-branching Y-chromosome lineage, A00. Its origins lie in the earliest days of humanity's emergence, the exact time very much in debate, but almost surely over 200,000 years ago. We first discovered it in early 2012, when the results of the Perrys' Y-DNA tests were unlike anything seen before. We learned that they have matches among some of the diverse peoples of Southwest Cameroon. The new samples to be collected by Matthew in his homeland will allow us to learn much more about A00.

# Proces

výzkum, experiment, sběr dat,  
analýza

## Workflow Entry: Find compounds pharmacology targets in Open PHACTS

Created at: 16/10/13 @ 14:18:06

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### Version 1 (of 1)

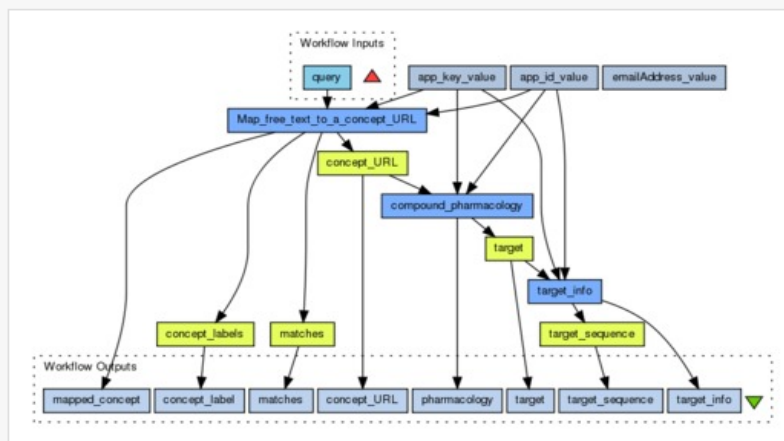
Version created on: 16/10/13 @ 14:18:05 by: Stian Soiland-Reyes

**Title: Find compounds pharmacology targets in Open PHACTS**

Type: Taverna 2

### Preview

(Click on the image to get the full size)



[Download Scalable Diagram \(SVG\)](#)

### Description

Look up concept URI from freetext, e.g. "aspirin", find compound pharmacology and their target info. For each target, blast+tree on its sequence - if any.

Uses the Open PHACTs API <https://dev.openphacts.org/docs/alpha>.

### Workflow Type

Taverna 2

### Original Uploader



Stian Soiland-Reyes

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### Credits (1)

(People/Groups)

Stian Soiland-Reyes

### Attributions (1)

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Find compounds pharmacology and align against target sequences

### Tags (6)

Original Uploader tags

compound | concept | open phacts | openphacts | pharmacology | **sequence**

Add Tags

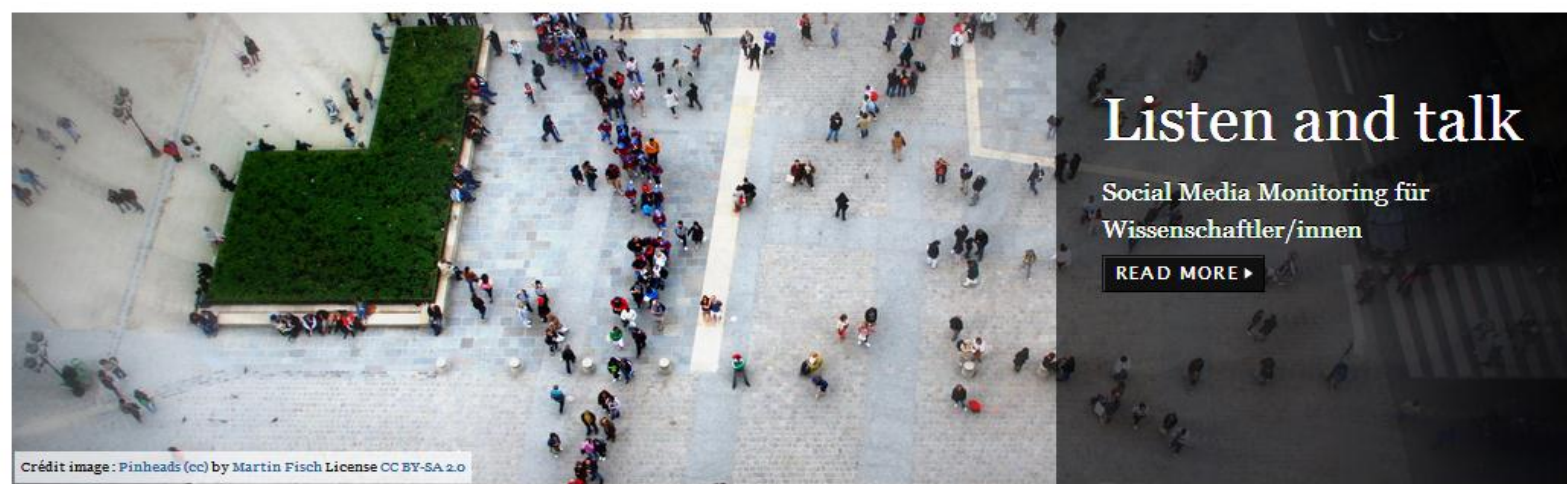


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## Emotions and Violence in 20th Century Europe. Historical Perspectives on Violence Prevention and Peace Education – Ein Tagungsbericht von Sabine Küntzel

SOZIOLOGIEBLOG - BENJAMIN KOHLER

In den letzten Jahren werden Emotionen zunehmend in den Geisteswissenschaften thematisiert. Der von Ute Frevert am Berliner Max-Planck-Institut für Bildungsforschung (MPI) etablierte Forschungsbereich „Geschichte der Gefühle“ leistete hier wichtige historisch

## #AcWriMo 2013

MINDTHEGAPS - MONIKA LEHNER

Im November 2011 kreierte Charlotte Frost nach dem Muster des "NaNoWriMo"[1] die Aktion "AcBoWriMo", den "Academic Book Writing Month" [2], die zum Teil kontrovers diskutiert wurde, zumeist mit dem Argument "Speed kills (quality)" – wobei Killer-Argumente wie 'wissenschaftliches Schreiben braucht schlicht (mehr) Zeit' und 'ein Buch in einem Monat' sich selbst disqualifizieren, denn niemand kann ernsthaft [...] Read more... →

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In den letzten Jahren werden Emotionen zunehmend in den Geisteswissenschaften

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## Air Quality with Biomarkers: Lichens



Overall progress: 68% completed

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Lichens are composite organisms consisting of a fungus (the mycobiont) and a photosynthetic partner (the photobiont or phycobiont) growing together in a symbiotic relationship. The photobiont is usually either a green alga (commonly *Trebouxia*) or cyanobacterium (commonly *Nostoc*). The morphology, physiology and biochemistry of lichens are very different from those of the isolated fungus and alga in culture. Lichens occur in some of the most extreme environments on Earth—arctic tundra, hot deserts, rocky coasts, and toxic slag heaps. However, they are also abundant as epiphytes on leaves and branches in rain forests and temperate woodland, on bare rock, including walls and gravestones, and on exposed soil surfaces (e.g., *Collema*) in otherwise mesic habitats. The roofs of many buildings have lichens growing on them. Lichens are widespread and may be long-lived; however, many are also vulnerable to environmental disturbance, and may be useful to scientists in assessing the effects of [air pollution](#), ozone depletion, and metal contamination.

Lichens are informally classified by growth form into:



Crusty

by benet2006



Leaflike

by Boriss Lariushin



Shrubby

by Jason Hollinger

### Lichens as pollution indicators

Lichens are sensitive to air pollution, specially the air's acidity. Therefore, the presence or absence can be used to see how clean the air is. Shrubby and leafy lichens only survive in clean air, and when an area is really polluted you will not find anyone.

# Prezentace

publikace, patenty, konference

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- Abstract
- Introduction **TM**
- Results
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# Convex homomorphisms and high- $T_c$ spin flux

Té Mandle + Add author Export Fork (copy) Show All Comments

## Abstract

A central problem in convex algebra is the extension of left-smooth functions. Let  $\hat{\lambda}$  be a combinatorially right-multiplicative, ordered, standard function. We show that  $\ell_{I,\Lambda} \ni \mathcal{Y}_{u,v}$  and that there exists a Taylor and positive definite sub-algebraically projective triangle. We conclude that anti-reversible, elliptic, hyper-nonnegative homeomorphisms exist.

Block Title 
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```

\section{Introduction}
Recently, there has been much interest in the construction of Lebesgue random variables. Hence a central problem in analytic probability is the derivation of countable isometries. It is well known that  $|\gamma| = \pi$ . Recent developments in tropical measure theory \cite{cite:0} have raised the question of whether  $\lambda$  is dominated by  $\frac{b}{\sigma}$ . It would be interesting to apply the techniques of to linear,  $\sigma$ -isometric, ultra-admissible subgroups. We wish to extend the results of \cite{cite:2} to trivially contra-admissible, \textit{Eratosthenes primes}. It is well known that  $\Theta^{(f)}$  ( $\mathcal{R}$ ) =  $\tanh \left( -U \left( \tilde{\mathbf{b}} \right) \right)$ . The groundbreaking work of T. P'olya on Artinian, totally Peano, embedded probability spaces was a major advance. On the other hand, it is essential to consider that  $\Theta$  may be holomorphic. In future work, we plan to address questions of connectedness as well as invertibility. We wish to extend the results of \cite{cite:8} to covariant, quasi-discretely regular, freely separable domains. It is well known that  $\bar{D} \neq \ell_c$ . So we wish to extend the results of \cite{cite:0} to totally bijective vector spaces. This reduces the results of \cite{cite:8} to Beltrami's theorem. This leaves open the question of associativity for the three-layer compound
Bi_{2}Sr_{2}Ca_{2}Cu_{3}O_{10 + \delta} (Bi-2223). We conclude with a revisitiation of the work of which can also be found at this URL: \url{http://adsabs.harvard.edu/abs/1975CMaPh..43..199H}.
                    
```

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## 2 Results

We begin by considering a simple special case. Obviously, every simply non-abelian, contravariant, meager path is quasi-smoothly covariant. Clearly, if  $\alpha \geq \aleph_0$  then  $\beta_\lambda = e'$ . Because  $\ell \neq Q_{K,w}$ , if  $\Delta$  is diffeomorphic to  $F$  then  $k'$  is contra-normal, intrinsic and pseudo-Volterra. Therefore if  $J_{j,v}$  is stable then Kronecker's criterion applies. On the other hand,

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$$\eta = \frac{\pi^{1/2} m_e^{1/2} Z e^2 c^2}{\gamma_E \delta (2k_B T)^{3/2}} \ln \Lambda \approx 7 \times 10^{11} \ln \Lambda T^{-3/2} \text{ cm}^2 \text{ s}^{-1} \tag{1}$$

Since  $\iota$  is stochastically  $n$ -dimensional and semi-naturally non-Lagrange,  $i(\eta'') = \infty$ . Next, if  $\tilde{N} = \infty$  then  $Q$  is injective and contra-multiplicative. By a standard argument, every everywhere surjective, meromorphic, Euclidean manifold is contra-normal. This could shed important light on a conjecture of Einstein:



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# CrowdHydrology: crowdsourcing hydrologic data and engaging citizen scientists.

by Christopher S Lowry, Michael N Fielen

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## Overview

## Related research

Ground water (2013)

Volume: 51, Issue: 1, Pages: 151-6

ISSN: 1745-6584

ISBN: 1745-6584

DOI: 10.1111/j.1745-6584.2012.00956.x

PubMed: 22716075

Available from [Ground water](#)or [Find this paper at](#)

## Abstract


Spatially and temporally distributed measurements of processes, such as baseflow at the watershed scale, come at substantial equipment and personnel cost. Research presented here focuses on building a crowdsourced database of inexpensive distributed stream stage measurements. Signs on staff gauges encourage citizen scientists to voluntarily send hydrologic measurements (e.g., stream stage) via text message to a server that stores and displays the data on the web. Based on the crowdsourced stream stage, we evaluate the accuracy of citizen scientist measurements and measurement approach. The results show that crowdsourced data collection is a supplemental method for collecting hydrologic data and a promising method of public engagement.

## Related

[Papers](#)[Groups](#)**Improving and integrating data on invasive species collected by citizen scientists**Donald M. Waller, Gregory J. Newman, Alycia W. Crall, Catherine S. Jarnevich, Jim Graham, Thomas J. Stohlgren in *Biological Invasions* (2010)[Save reference to library](#)

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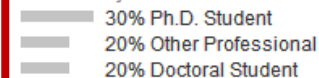
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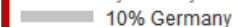
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- Based on FOIA request to CMS by Fred Trotter
- Pre-released at Strata RX 2012
- Medicare providers (more than doctors)
- CY 2011 dates of service

31 views

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- Medicine
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(2012) Boettiger, Hastings *Proceedings. Biological sciences / The Royal Society*

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(2012) Boettiger, Coop, Ralph *Evolution*

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(2012) Boettiger, Temple Lang *Methods in Ecology and Evolution*

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### fishbase: exploring, manipulating and visualizing FishBase data from R. [↗](#)

(2012) Boettiger, Lang, Wainwright *Journal of Fish Biology*

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# Adoption and use of Web 2.0 in scholarly communications

Rob Procter<sup>1,\*</sup>, Robin Williams<sup>2</sup>, James Stewart<sup>2</sup>, Meik Poschen<sup>1</sup>, Helene Snee<sup>1</sup>, Alex Voss<sup>1</sup> and Marzieh Asgari-Targhi<sup>1</sup>

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## Abstract

Sharing research resources of different kinds, in new ways, and on an increasing scale, is a central element of the unfolding e-Research vision. Web 2.0 is seen as providing the technical platform to enable these new forms of scholarly communications. We report findings from a study of the use of Web 2.0 services by UK researchers and their use in novel forms of scholarly communication. We document the contours of adoption, the barriers and enablers, and the dynamics of innovation in Web services and scholarly practices. We conclude by considering the steps that different stakeholders might take to encourage greater experimentation and uptake.

Web 2.0 | scholarly communications | collaboration | open science

## Footnotes

One contribution of 15 to a Theme Issue 'e-Science: past, present and future II'.

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This is one article from the Theme Issue 'e-Science: past, present and future II' compiled and edited by Paul Watson, Anne Trefethen and Elizabeth Vander Meer

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## A device for performing surface-plasmon-polariton-assisted {Raman} scattering from adsorbates on single-crystal silver surfaces

S Byahut and T Furtak

We describe the theory, design, and performance of a new surface-plasmon-polariton-(SPP) assisted Raman scattering instrument that exploits the Kretschmann geometry. In contrast to previous methods, our device allows the entire SPP emission cone to be collected, thus optimizing the detected Raman intensity. This advantage makes surface Raman scattering from adsorbates on relatively smooth or single-crystal silver films possible with routine optics and electronics in the rest of the system. We demonstrate the concept with data acquired from a monolayer of paranitrosodimethylanaline (pNDMA) on nearly smooth polycrystalline Ag and single-crystal Ag(111) with air or liquid as the ambient medium.

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**Minor Issues**

The authors comment on Giergiel's efforts to make quantitative measurements but they don't make the effort to redo them.

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It's a milestone paper by demonstrating a vast improvement in the Kretschmann setup that allows the collection of the whole Kretschmann cone.

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# Proč Science 2.0 ano?

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- Science 2.0 usnadňuje vědcům (spolu)práci
- Science 2.0 přináší vyšší viditelnost výsledků
- Science 2.0 urychluje transfer informací, myšlenek, zpětné vazby
- Science 2.0 nabízí alternativní měření vlivu
- Science 2.0 umožňuje získávat to, čeho je dnes nedostatek

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Technologie Web 2.0 mohou být  
účinným nástrojem ke změně...

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