

# Infazine No. 15

The Magazine for Users of Scientific Information

## The side effects of (too much) reading

*When reading this article, you are using a comparatively young cultural technique – so young that the human brain isn't prepared for it. When learning to read, brain regions are used that are originally designated for recognizing complex objects such as faces – regions that are then utilized for the translation of printed or written characters into language – according to a recent study published in [Science Advances](#). However, if you are reading for long hours, and thus work long – more than 55 hours weekly – you are likely to increase your risk of atrial fibrillation by 40%, according to a study in the [European Heart Journal](#). This is not the only danger of long working hours: Those of us who work often at night might have an increased risk of suffering from cancer due to malfunctioning DNA repair, as recently published in [BMJ Occupational & Environmental Science](#). We hope that you consider reading Infazine not as work but as leisure time, in addition to finding tips for time-saving.*

*We wish you a wonderful summer.*

*Enjoy reading.*

*Your Chemistry | Biology | Pharmacy  
Information Center*

## What do data reveal about scientists

“What data reveal” is the topic of this year's [Scientifica](#) (see p. 8). Data are fundamental for (almost) every scientific publication, at least in chemistry, life sciences and medical sciences. In turn, however, also scientific publications themselves can be considered as data, in this case for analyzing journals and scientists. One of the known measures is the classical Impact Factor that relies on the number of citations to articles published in a journal. It is [published every year in June](#) by Clarivate Analytics, formerly owned by Thomson Reuters. Shortly after its release most publishers report their success stories, like e.g. the [ACS](#). Also in June, Elsevier publishes its new, competing metrics, the annual [CiteScore](#), based on data from [Scopus](#) instead of [Web of Science](#). As only few publishers use that score for advertising, Scopus is [tweeting](#) congratulations to publishers that have a high CiteScore but not yet an Impact Factor. However, data generated by scientific publications are not only used for ranking of journals or scientists but also for ranking universities, such as the recently published [CWTS Leiden Ranking](#), which is also based on the Web of Science data.



But there are also other applications for such kind of data. Times Higher Education has published in its [May issue](#) (to access the issue a free registration is required) the 18 hottest research topics that have the potential to change the world. Once again, data from the Web of Science have been used. We are not going to reveal all 18 topics, but for one – next generation electronics – a group from the ETH Zurich is mentioned. Additionally, Clarivate has announced a collaboration with Lindau Nobel Laureate Meetings to support the selection process of young scientists by providing an unbiased assessment of quantitative performance indicators for the 2018 meeting. Data on researchers are definitely a business.

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## The Infazine Interview

**My favorite bench will remain a secret. But our labs, the metal and electro workshops are absolutely super**

**6 questions, today to Dr. Dean Strotz, 43, Postdoc in the Group of Prof. Roland Riek (LPC)**



### 1. Which are the areas scientists should focus on more in depth?

Basic science is important. However, I think as a society we are too much concerned about human health issues and not enough about our environment and how natural processes depend on each other.

### 2. Where is your favorite place at ETH?

You mean my favorite park bench or something similar? Those places are my secrets. What I can tell you is that our labs, the electro and metal workshop are absolutely super.

### 3. When do you consider a lecture fascinating?

How to tell an exciting story on something that is based on data – I guess that is the crucial point.

### 4. Which information resources besides Google and Wikipedia do you know?

For information retrieval I use the ETH Library or non-universal search engines such as, e.g., PubMed. In addition, I get suggestions from colleagues on authors who published on a particular topic and whose papers are interesting to read.

### 5. If you were granted a wish, what would it be?

That we help those, who suffer from wars, help without thinking about ourselves or politicizing it.

### 6. Which book would you like to recommend?

May I even suggest two? One of my favorite books is [Rom, Blicke](#) by Rolf Brinkmann, published 1979 (Rowohlt).

Another one is from an American artist, Alan Sonfist: [Nature: The End of Art. Environmental Landscapes](#) published 2004 by Gli Ori Publishers.

Both books are available at the ETH Library.

*Jan Wyler conducted the interview.*

*Would you like to answer our questionnaire and receive an original Information Center memory stick?*

*Please contact Jan Wyler ([wyl@chem.ethz.ch](mailto:wyl@chem.ethz.ch))!*

## News from Scopus

### New Help Center

Scopus has migrated its Help platform to a new Support Center, designed to help you find learning resources and answers to frequently asked questions. If on Scopus, access the Support Center by **Scopus** clicking on “Help”.

This will take you to support information related to the page you are. You can choose between three paths: (1) “Help” provides you with Help and lets you search the Support Center. (2) “Tutorials” provides, naturally, Tutorials and How-to videos. Please note that Firefox is not supported, but there is a text only view. Opera is not on the list of supported browsers but works well. (3) “Contact us” allows you to request changes, e.g. an author / affiliation profile or Scopus content.

### New errata linking feature

A new erratum linking feature will be added to the Scopus *Document details* page, allowing you to quickly identify when a document has had changes or updates made after publication. The *Erratum* document type includes all types of corrections, such as erratum corrigendum, retraction, etc.

What you will see:

- If an original document has an erratum associated with it, a blue “update notice” section will appear
- If looking at an *Erratum* on Scopus, a blue “original document section” banner will be displayed on the *Document details* page
- If there are multiple errata links, you will find a link to each erratum in the “update notice” box

### New Author Export

You may now export up to 100,000 authors from a Scopus Affiliation details page, i.e. an organization. You will need to be logged-in to use this feature. Also note: If the export is under 4,000 authors it will be performed automatically. If the export is over 4,000 (up to 100,000) authors, the export will be performed offline and requires your email address to which it will be sent. To use this feature, follow these steps described [here](#).

## News from the ETH Library

### ■ New E-Journals

ETH Library has licensed the following new e-journals:

- [Nature Astronomy](#)
- [Nature Ecology & Evolution](#)
- [Nature Biomedical Engineering](#)

### ■ New Databases

#### BioCyc Database Collection

The [BioCyc Database Collection](#) is a comprehensive resource for data records on genes, metabolites, and metabolic pathways of thousands of microbes and other species. BioCyc curators summarize and synthesize information from publications and organize them into tiers according to the amount of manual updating they have received. Additionally, the website contains a variety of software tools for searching, visualizing, comparing, and analyzing these data.

The database can be accessed online on ETH Zurich's network or on ETH Library premises.

### ■ Orientation on Data Management Plans for SNSF Grants

The Swiss National Science Foundation SNSF has published guidelines for Data Management Plans. As of October 2017 researchers are obliged to submit a Data Management Plan as an integral part of their research application.

Discussions at the event showed the need for further clarification. The SNSF explicitly asks for feedback to its guidelines under the address [ord@snf.ch](mailto:ord@snf.ch).

Further information on the topic of Data Management Plans can be found on the [SNSF website](#) and the page [data management](#).

### ■ Research Collection

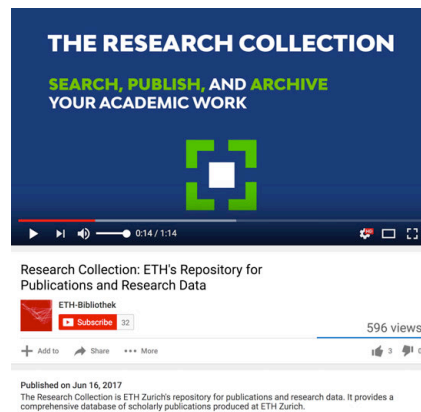
The Research Collection, ETH Zurich's new publication platform, contains the university's research output. It serves as a single point of access for members of ETH Zurich to document, publish and archive their academic results. The Research Collection is therefore simultaneously a publication directory, an Open Access repository and a research data repository. The Research Collection replaces the ETH E-Collection and the ETH E-Citations, and contains all data from the two previous applications. The Research Collection offers:

- Automatic import of new publications from Web of Science and Scopus
- Indexing in Google Scholar
- Displaying of the journals' copyright guidelines
- Access to usage statistics and altmetrics
- Flexible access rights for research data
- Safeguarding of all data in the ETH Data Archive
- Searching for research group. The number of publications is shown in brackets after the name.

More information:

Download [Flyer](#)

Watch the [Video](#) (1:05)



## BORIS from Bern

Also the University of Bern has a new repository called [BORIS](#). The Bern Open Repository and Information System is among the [22 repositories](#) worldwide that have their biomedical research content entered into PubMed. Other than the ETH Zurich Research Collection it is only possible to narrow down to the Department level but not research groups – or one has to use the author search. The system is fast, has about 80.000 entries with about 33% full texts and a neatly arranged [dashboard](#).

## SciHub is getting sued

A U.S. Court in New York has awarded STM publisher Elsevier \$15 million in damages in a copyright infringement judgement against Sci-Hub and Library Genesis, online repositories that provide illegal access to millions of pirated scientific documents. In addition, the American Chemical Society (ACS) recently also filed suit in a Court in Virginia against unnamed confederates of Sci-Hub, a self-proclaimed web pirate organization that steals and then illegally reproduces (watermarks are removed) and disseminates copyrighted scientific research articles on the internet.

**When reading Infozine online – on screen – you can click or tap on the blue hyperlinks to go to the sources.**

#### Hilfetext

Geben Sie eine Kurzbeschreibung der Daten, die Sie erheben, beobachten oder gemerken Sie auch alle bestehenden Daten, die (wieder)verwendet werden sollen. Die Be die Art, das Format und den Inhalt der einzelnen Datensätze umfassen. Zudem ist da rierten Datensätze zu schätzen. (Dies betrifft die [FAIR Data Principles](#) F2, I3, R1 & I

ETH Library's Digital Curation Office, together with Scientific IT Services informed the ETH researchers and answered their questions at an information event. The slides of the orientation event can be found [here](#). A goal of the SNSF is to manage and share research data as openly as possible. The data management plan aims to aid the researchers in the planning of the research data life cycle, and thus facilitate comprehensive and efficient sharing of suitable data.

- 02020 - Departement Chemie und Angewandte Biowissenschaften / Department of Chemistry and Applied Biosciences (9064)
- 01509 - Lehre Chemie und Angewandte Biowissenschaften (49)
  - 02021 - Informationszentrum Chemie Biologie Pharmazie (23)
  - 02022 - Materialverwaltung D-CHAB (0)
  - 02023 - Werkstatt D-CHAB (1)
  - 02024 - Small Molecule Crystallography Center (SMoCC) (45)
  - 02026 - Informatik-Support-Group (ISG) D-CHAB (0)
  - 02027 - Chemie und Angewandte Biowissenschaften, nicht zuteilbar (1)
- 02513 - Laboratorium für Anorganische Chemie (LAC) / Laboratory of Inorganic Chemistry (LAC) (1442)
- 02514 - Laboratorium für Organische Chemie (LOC) / Laboratory of Organic Chemistry (LOC) (1689)
  - 03344 - Diederich, François (443)
  - 03425 - Chen, Peter (127)
  - 03430 - Zenobi, Renato (367)
  - 03492 - Hilvert, Donald (269)
  - 03511 - Carreira, Erick M. (253)
    - 02816 - Editor: Journal Organic Letters der American Chemical Society (ACS) (0)
    - 03861 - Bode, Jeffrey W. (109)
    - 03940 - Wennemers, Helma (60)
    - 08663 - NMR-Service LOC (0)
    - 08664 - Plattform MoBIAS (34)
    - 08687 - Gruppe Yamakoshi (16)
    - 08816 - Kast, Peter (Tit.-Prof.) (7)
    - 09551 - Rivera Fuentes, Pablo M. (2)

## The journal tip (11)

### IUCrData

IUCrData is a peer-reviewed open-access data publication from the International Union of Crystallography (IUCr). The journal primarily publishes data reports of crystal structures of inorganic, metal-organic or organic compounds (CIF and structure factors), including a data validation report, figures and a text representation of the data of each crystal structure.

### Kudos with more publishers

Kudos, a service for easily maximizing the outreach and impact of research publications, has partnered with many more publishers, including e.g. Wiley, Emerald, Taylor & Francis, the American Society for Microbiology and the European Society of Cardiology. So if you are publishing with any of those publishers, you may get invited to write up a lay summary of your article – just a few lines – and share it – with additional content – through your website, Twitter, LinkedIn and Facebook or traditionally via e-mail.

We can prove that it is easy to do, takes a few minutes only, and really increases the outreach of your publication.

#### How to use Kudos to promote your Science

- Your paper has been published.** However, with over 2 million publications added to the literature every year, is your work easily understood by other scientists?  
New publication online now!  
Treat your new publication as a valuable asset for your research. Upload your article to Kudos. It's free and easy to do. Just click on the 'Kudos' button in the journal's online interface.
- Stand out.** Explain and promote your research with Kudos. You can register for free at [www.growkudos.com](http://www.growkudos.com).
- Add your publications.** You can add your publications to Kudos manually, or go to 'Manage Account' and connect your ORCID ID.
- Select the paper you want to talk about.** What's it about? Why is it important? Author perspective?
- Share your work.** You can choose to share your publications using Facebook, Twitter, LinkedIn, email or simply generate a unique link which you can post anywhere.
- Review your metrics.** Measure the effect on clicks, views, downloads, citations and altmetrics to learn which communication channels are most effective.

KUDOS  
GROWING RESEARCH IMPACT

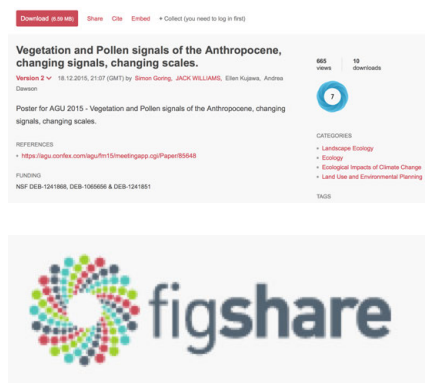
[www.growkudos.com](http://www.growkudos.com)

Kudos has, in cooperation with us, developed some How-to-do posters that can be downloaded from the D-CHAB [Science Communication Website](http://www.dchab.com). Kudos is free and easy to use; to get started please register here: [www.growkudos.com/go/ethz](http://www.growkudos.com/go/ethz).

Take the funny **Kudos Quiz** at <https://kudosimpactgame.com>! Test your research impact strength and compare yourself to other researchers.

### Figshare with Altmetric Badges

More than 2.5 million research outputs like datasets, videos, images, code and other deposited on Figshare will now display Altmetric Badges. Thus, not only for journal articles new alternative research metrics are provided but also for data. The badges functionality is already activated but it is still hard to find some. Here is an example:



figshare is a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.

### Crystal structures of small molecules at a glance

The Cambridge Crystallographic Data Centre (The CCDC) and FIZ Karlsruhe – Leibniz Institute for Information Infrastructure (FIZ Karlsruhe, Germany) announced the start of a joint development project that will deliver for the first time shared deposition and access services for crystallographic data across all domains of chemistry – including organic, inorganic and metal-organic structures. The resulting capability – to search over one million crystallographic structures and to deposit data for the CCDC's Cambridge Structural Database (CSD) and FIZ Karlsruhe's Inorganic Crystal Structure Database (ICSD) and their underlying CIF depots at a single source – will benefit researchers and educators across the chemistry disciplines.



WebCSD

### Hidden literature in the future library

Scottish artist Katie Paterson has launched a 100-year artwork – **Future Library** (Framtidsbiblioteket) – for the city of Oslo in Norway. As explained in the video on the website, one thousand trees have been planted in Nordmarka, a forest just outside Oslo, which will supply paper for a special anthology of books to be printed in one hundred years' time.



Between now and then, one writer every year will contribute a text, with the writings held in trust, unpublished, until 2114. So far, Margaret Atwood and David Mitchell have contributed to this project.

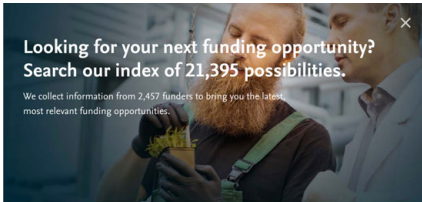
The manuscripts will be held in trust in a specially designed room in the **New Deichmanske Public Library** opening in 2019 in Bjørvika, Oslo. Intended to be a space of contemplation, this room – designed by the artist – will be lined with wood from trees that were recently cut in this the forest. The authors' names and titles of their works will be on display but the manuscripts are hidden.

On June 2, 2017, the Icelandic author Sjón handed over his manuscript.



## Mendeley Funding – a funding repository

Mendeley now includes a new tool, [Mendeley Funding](#), which gathers funding opportunities from over 2,000 organisations across the globe in real time.



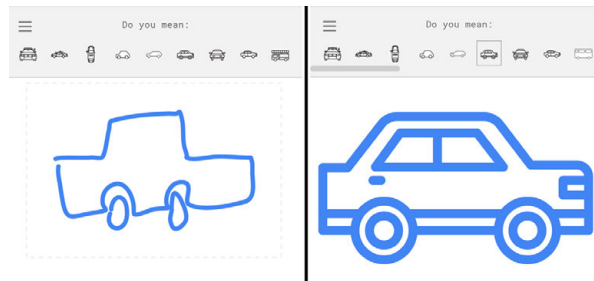
You can access it by signing in to the [Mendeley website](#) – a registration is required. In the toolbar “Funding” you can choose either “Find opportunities” or “Browse funders”. In “Find opportunities” you can search based on research areas, funding types, deadlines, citizenship, etc. Using “Browse funders” you can search for funders based on type (governmental, non-profit, industry etc.) or by country. For each funder you can see the current opportunities, deadlines, awarded grants and get the contact information.

The screenshot shows the Mendeley Funding website interface. At the top, there are navigation tabs: Feed, Library, Suggest, Stats, Groups, Datasets, Careers, and Funding (which is selected). Below the navigation is a search bar with the text "Search for funding opportunities". To the left of the main content area is a "Refine results" sidebar with a "Research area" filter. The main content area displays "75 funding opportunities" and lists several opportunities, including:

- TWAS-DBT Postdoctoral Fellowship Programme**: Deadline is today. Eligibility: Ph. D./M.D. other professional.
- The World Academy of Sciences**: Deadline: July 25th 2017. Amount: Not specified. Funding type: Training, scholarship, or fellowship.
- BBSRC Doctoral Partnership PhD Studentship**: 6 day(s) left to apply. Eligibility: Graduate Student.
- University of Nottingham**: Deadline: July 31st 2017. Amount: Up to 14,510 GBP. Funding type: Training, scholarship, or fellowship.
- MN / NYC Film, video, and digital production grant programs**: 30 day(s) left to apply. Eligibility: Ph. D./M.D. other professional, New Faculty/New Investigator.

## Google AutoDraw – Pictionary with Artificial Intelligence

One of Google's latest [AI experiments](#) is the tool [AutoDraw](#): anyone who needs a simple pictogram or simply wants to see how automatic shape recognition with artificial intelligence (AI) works can start drawing directly in the web browser. Already after a few strokes, AutoDraw starts to match them with drawings from its database. Sometimes the tool works very precisely, but often also makes false (and funny) suggestions. The forms can be colored, text can be added and you can download them as an image. You could also use AutoDraw as a simple replacement for a painting program to e.g. create a flyer quickly without the need for an installed software or mobile app.



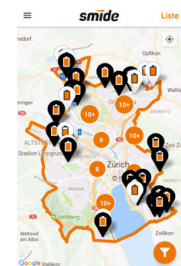
The suggested cliparts and pictures are made by artists, illustrators, and designers and you can contribute too with your own pictures. The object recognition is constantly improving since the AI is “trained” with each new drawing.

## App Tip (1)



### SMIDE

If you spontaneously need a bicycle in Zurich and want it to be comfortable, try the SMIDE e-bikes! In the city over 200 Stromer ST e-bikes are available, which can be rented for 25 Rp./min. They can be parked anywhere you want – provided you remain within the city limits of Zurich which are drawn on the map.



On the app, you can see where the e-bikes are located, and can reserve them directly. You can also see the remaining battery life and what distance a bike is still able to go. All e-bikes include a helmet, support you up to 35 km/h, and effortlessly manage even very steep climbs. Available at [Google Play](#) and [App Store](#)

## Explanation in brief

### Java vs. JavaScript – the difference

Although the names sound similar they are two completely different things! JavaScript traditionally only runs in web browsers, and most websites take advantage of it to improve the user experience. Java can also run in a browser, but its so-called applets have become less and less popular for compatibility and security reasons. Average website visitors usually have JavaScript enabled and it is also extremely likely that they have Java applets disabled, especially with the abundance of mobile browsers where Java applets do not run at all. Java is to JavaScript as ham is to hamster.

### A Dictionary for Academia

„Wörterbuch Hochschule“ is a perfect tool for solving any German/English translation problems that frequently come up in an academic setting. The book is available in the Information Center and can be borrowed [online](#).



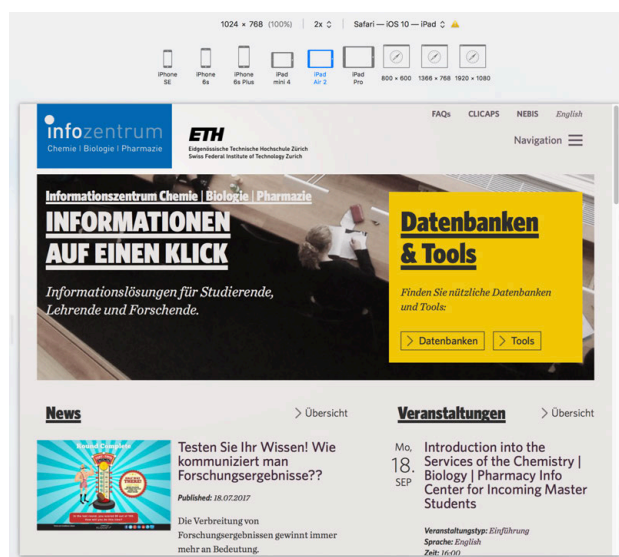
Do you know how to translate the German terms Berufungsliste, Blockseminar or Präsenzstudium into English? Or which is the equivalent English term for „die Anerkennung von Studien- und Prüfungsleistungen beantragen“?

### Dictionary SSRN launches Biology Research Network

Elsevier, who had acquired to Social Sciences Research Network in 2016, has now launched the Biology Research Network – BioRN. Biology researchers can post preprints and working papers on BioRN, share ideas and other early stage research, and collaborate. A short [video](#) explains the new platform for life sciences. SSRN is now working towards deeper integration with Elsevier's other research products, particularly Mendeley's reference management (see page 5) software and Pure's research management system.

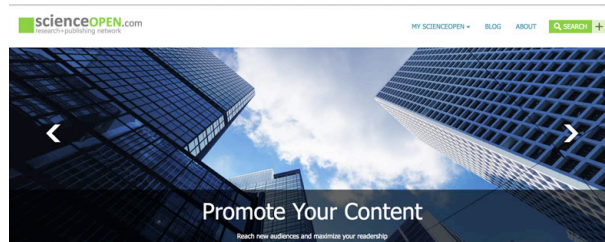
### Testing website for responsive design

You want to know how your website displays on various devices, on different screens sizes and resolutions, different browser and operating systems? Get the look and feel by activating the menu item “Develop” when using the browser Safari. And this is how-to-do: In Safari, select > Preferences > Advanced. In the tab click on “Show Develop menu in menu bar”. When being on a web site, go to “Develop” and select the topic “Enter “Responsive Design mode”.

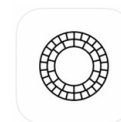


### MyScienceOpen

There is an increasing number of platforms that provide researchers with scientific publications, ideally full text, such as e.g. Mendeley (see p. 5), Academia, ResearchGate (100+ million papers) and SciHub (62 million papers) – the latter being an illegal source (see p. 3). Also the German start-up OpenScience provides such a platform and aims to be disruptive to scientific journals and leading to open science. It has now launched MyOpenScience, a tool that allows you to promote your publications by yourself – similar to Kudos. If there are no longer journal publishers, someone has to take over the task of advertising research output. You can connect a lay summary to the research output. As your research items are linked to altmetrics data which are visualized, you can judge the success for your self-marketing and compare how you shine against 31 million other articles.

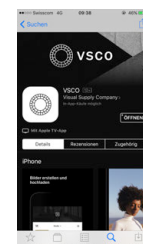


### App Tip (2)



VSCO

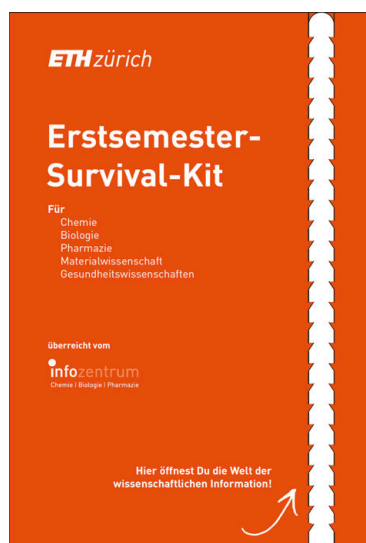
You like to take photos and to edit them? You even run a blog and would like to see all images being of high visual quality? Then VSCO is right for you. With this app you can edit your images and store them in your studio. Thus, VSCO can help you to have a beautiful and constant feed, for example on Instagram. When editing a photo, you can also store your settings and have them applied to all other images.



Discover images, journals and collections from users all over the world. You may also publish you photos or export them into other social media apps and share them. The app is freely available at [App Store](#) und or at [Google Play](#).

## The Information Center fall semester 2017

Fall semester starts September 18, 2017 and the Chemistry | Biology | Pharmacy Information Center (ICBP) is increasing its teaching activities. There are introductory lectures for first year-students in chemistry, chemical engineering, interdisciplinary sciences, biology and pharmaceutical sciences – who will also receive a newly designed “Erstsemester-Survivalkit“. In addition, there are also modules for higher semesters which are mostly integrated into the lab courses. The new material science students receive their introduction in the second semester, but will also get a “Erstsemester-Survivalkit“ on their first day. Such a kit is also given to students of health sciences, including those who will – for the first time – start studying human medicine at ETH Zurich.

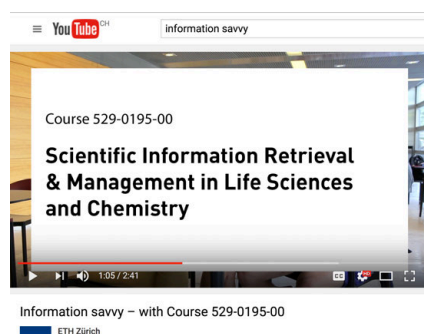


Teaching is currently done by the three lecturers of the ICBP — Dr. Jozica Dolenc, Dr. Oliver Renn, Dr. Joachim Schnabl. As always in fall semester, Jozica Dolenc is engaged in the bachelor course **Case Studies in Process Design I** for chemical engineering. All three are participating in the new, mandatory course **Scientific Writing & Presenting** for Master students in pharmaceutical sciences. And last but not least, the special course of the ICBP for doctoral students is once again held, in fall semester, for the fourth time now.

## Course Scientific Information Retrieval & Management in Life Sciences and Chemistry

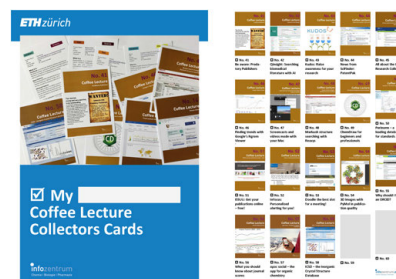
Our course with the lengthy name (lecturers Oliver Renn supported by Jozica Dolenc and Joachim Schnabl) will be taught again in fall semester 2017, once again as a two-hour course and with a “value” of 2 ECTS. The actual value, however, is that – with just 14 units – you are getting information savvy and learn how to fully utilize information and knowledge management.

The course is unique and to our knowledge like this available only at the ETH Zurich. It maps the cycle of the scientific research processes with the corresponding processes of information and knowledge management. The course is tailored for the needs of doctoral students and Post-Docs (D-CHAB, D-BIOL, D-MATL, D-HEST) but Master students are also welcome. Details of the course, which has been explicitly developed for students of the Life Science Zurich Graduate School, can be found in the [course catalogue of the ETH Zurich](#) (Doctoral and Post-Doctoral Courses of the D-CHAB, 529-0195-00L). If you prefer watching videos over reading explanations you may want to see our short video, which can be found on ETH Zurich’s YouTube channel. Just search for “information savvy”. Registration is possible beginning of August, and we are looking forward to many participants. The preparatory meeting is on September 20, 2017. In this meeting, we are using a game to find out what you already know and what you are interested in.



## Coffee Lectures

Apart from the activities that can be found in the course catalogue there are also other awareness, teaching, and training activities. There will be the 13<sup>th</sup> series of Coffee Lectures. The dates have not yet been scheduled but will be published timely on our website, on Twitter, Instagram and Facebook – or you will receive a notification through Infocus. You are familiar with a certain database, have a particular expertise with a tool and think that others might benefit? Then use Coffee Lectures as a format enabling internal knowledge transfer between departments and groups. Contact Oliver Renn – we are looking forward to additional Coffee Lecturers.



The Collectors’ Card Album has been updated. You can find it on our website for [download](#) – or ask at the Infodesk for your personal copy. You can record the lectures you already attended and received a collector card or pencil in the lectures you want to attend.

## Scientific Paper Writing

This Survival Guide, written by Bodil Holst, a Danish professor of physics at the University of Bergen – is different from what the cover suggest – not written as a comic. However, inside it contains many visuals that illustrate situations that everyone in academia is familiar with like, for example, this situation:

Get this done asap (Translation: You should have done this yesterday)

I will review your paper asap (I’ll get it done some time this century).

The book is available in the Information Center and can be borrowed [online](#). An English book review can be found [here](#).

