

# Infazine No. 8

The Magazine for Users of Scientific Information

## Work life blend is the new work life balance

*Until now, there was general agreement that work and life should be well balanced. The latest hype, however, is work life blend. Work and life are no longer the extremes that many people most immediately experience on Monday mornings. Instead, work and life are blended and can no longer be separated.*

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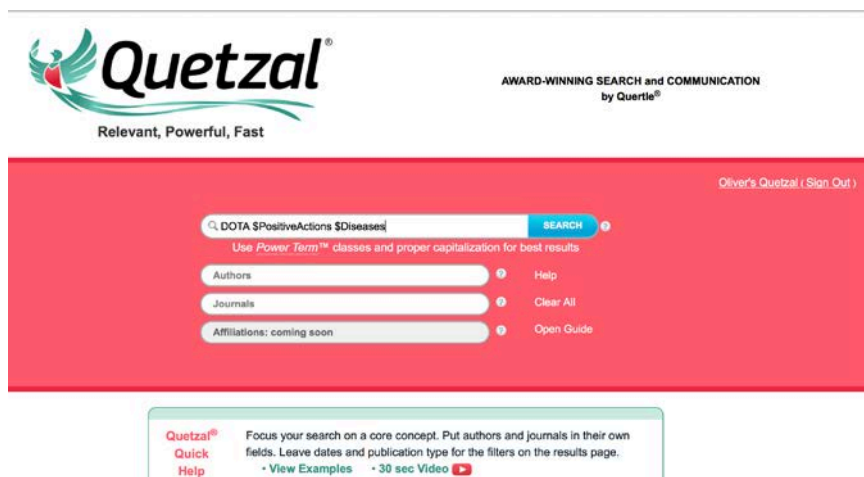
*Work life blend fits the announcement of the New York Times that news stories will now be published as one-sentence stories. You can't make them longer because the single sentence stories are a new format exclusively developed for Apple's iWatch, which makes them perfect for a blended life. Our Infazine, however, will continue to be written in a short and entertaining style and still using more than one sentence. And we may suggest taking breaks to foster and regain creativity – for example in the Hönningerberg forest at dawn, when there are deer grazing in the meadows.*

*We wish you happy reading and enjoy your summer time and your vacation.*

Your  
Chemistry | Biology | Pharmacy  
Information Center

## Text Mining with Quetzal (fka Quertle)

*Quertle*, in our opinion one of the best independent semantic search tools for PubMed, is no longer available since May 31, 2015. No worries, *Quertle* has a successor, which is called *Quetzal*. Everything you could do with *Quertle* you can also do with *Quetzal* ([www.Quetzal-Search.info](http://www.Quetzal-Search.info)). Searching PubMed with key words and MeSH terms only is not sufficient for you and you want more? Using the award-winning linguistic search engine you can search actually PubMed for relations, i.e. subject – predicate – object, relying on its own database of about 300 million relationships. In addition, there is an extensive ontology consisting of many dictionaries, thesauri as well as verbs and related entities.



If, for example, you would like to know if the chemical compound DOTA is used in cancer therapy, you may search PubMed with the keyword DOTA (which is not a MeSH term) and the MeSH terms *therapeutics* and *neoplasm*. Your query will yield 859 results, which you then have to screen manually. With *Quetzal* you can use so-called Power Terms, in the given example the search string „DOTA \$PositiveActions \$Diseases“. You will get “only” 314 results but all of those are highly relevant. Additionally, concepts are extracted from the text and displayed. You can also find information with *Quetzal* which is actually in PubMed but can not be found with PubMed. If you search e.g. for the gene *Trp53inp2* and its relation to diseases, PubMed will show „No items found“. With *Quetzal*, you will get 8 “Focused Results” and 20 “Broader results”. The basic version is still free, while the Advanced and Professional versions require monthly or annual subscriptions, see [Comparison Table](#). With the Advanced version you can do a full text search in Patents and PubMedCentral. Thanks to the linguistic search engine *Quetzal* you can actually do text mining in full texts. Want to know more? Join our Coffee Lecture with a live demo on July 1, 2015 (see also page 7).

## The Infozine Interview

### The Wish: Professor Aebi as DJ

6 questions, today to Moritz Gück (23), studying Interdisciplinary Sciences, 4. semester



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

It depends on which problem is given the top priority. For example if you prefer researching climate protections over disease control. Personally I don't support such priorities since big discoveries can't be effectuated.

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

I like lectures which are designed to allow interaction. When a professor asks conceptual questions in between, the students can recognize if they have understood the matter, while the professor notices if the message has been received.

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

In the mornings I like drinking coffee in the Einstein cafeteria at a window seat, solving troublesome computer exercises in a relaxing ambience.

#### 4. What tricks can you share for when your motivation hits the bottom or you are tired of learning?

Frequently I struggle to get started solving series. Thus I'm already working for two months with a „Serienbingo“. Every time you solve a series of all subjects within a week, or half of series in a certain subject, you get your reward. You can get the „Serienbingo“ in the „Basisprüfungs-Vorbereitungsheft“.

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

That's an easy question: we want professor Aebi to play a DJ set at the upcoming WiNaFe (Winternachtsfest)!!

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

Why Nations Fail from Daron Acemoglu & James Robinson. The two economists explain a major reason for poverty in a lot of countries. They describe how weak and corrupt political institutions act by stealing from a certain country the economic possibilities and why this situation is hard to change.

*Jan Wyler conducted the interview.  
Would you like to answer our questionnaire and receive an original Info Center memory stick?  
Please contact Jan Wyler  
(wyler@chem.ethz.ch)!*

## Question – Answer What are IPv4 and IPv6?

IPv4 (Internet Protocol Version 4) is the fourth version of the Internet protocol. It has been the first version of the internet protocol that has been implemented and used worldwide, and is still an important foundation of the internet. IPv4 uses 32-bit addresses, thus theoretically 4.294.967.296 addresses are possible and can be assigned. Due to the dramatically increasing number of devices that can connect to the internet (PC's, cars, home and kitchen appliances) the IPv4 addresses are running out. Therefore, the Internet Engineering Task Force started working on IPv6 already in 1995. The IPv6 protocol allows  $3,4 \times 10^{38}$  IP addresses. With this huge number, a 50-trillion fold of the current world population of about 7 billion could be equipped with a quadrillion of IP addresses per capita.

The conversion to IPv6 is also put into operation at ETH Zurich. In case you can not access a particular database or tool this could be due to the fact that access is controlled via IP addresses and the IPv6 addresses have not yet been activated by the publisher. Please contact us. IPv6 addresses are written in hexadecimal (IPv4: decimal), with the number split into eight blocks with 16 bit (4 hexadecimals), which are separated by colons (IPv4: periods). An IPv6 address of ETH Zurich can therefore look like as shown below. You can check your IPv6 address e.g. at <http://www.wieistmeineip.ch/ipv6>.

Ihre IP-Adresse lautet:

**129.132.219.15**

Ihre IPv6-Adresse lautet:

2001:67C:10EC:2708:8000:8

### Imprint

Infozine is published by the Chemistry | Biology | Pharmacy Information Center, a function within the Departments of Chemistry and Applied Biosciences and the Department of Biology at the ETH Zurich. Infozine is published as an English and German edition. Concept, Editing and Layout: Dr. Oliver Renn Copy-Editor: Dr. Jozica Dolenc

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[www.infozentrum.ethz.ch](http://www.infozentrum.ethz.ch)

## News from the ETH Library

### Images of flora, fauna and habitats

As of now, images from the [Animals](#), [Plants](#) and [Biotoxes](#) catalogue in the ETH E-Pics image database can also be searched directly on the Knowledge Portal. They are available for download in web quality from ETH E-Pics for non-commercial purposes. The collection of around 20,000 photographs comprises images (including extreme close-ups) of animals – especially insects – plants and habitats, such as uncultivated land, meadows, pastures and moors. Many images were taken by the famous nature photographer Albert Krebs. The Biosystematics group at ETH Zurich's Institute of Integrative Biology is responsible for the catalogue's contents.

### Responsive display of results on the Knowledge Portal

Browse the Knowledge Portal on your tablet. The results pages, user account and e-Shelf now also react responsively and adapt flexibly to different monitor sizes. The entire Knowledge Portal has therefore been optimized for mobile devices. For searches on Smartphones, the ETH library still recommends the [WebApp](#).

### Newly licensed journals

The ETH Library has licensed seven new journals in the subjects of biology, chemistry, computer science, psychology and medicine. Two journals might be especially of interest to the readers of Infozine:

- [Nature Plants](#)
- [Wiley Interdisciplinary Reviews: WIREs. Computational Molecular Science](#)

## New and interesting journals

**SoftwareX** – for publishing software that impacts the research process.

**One Health** – for rapid communication on inter- and intra-species pathogen transmission.

**Nature Reviews Disease Primers** – broad overview articles on diseases and disorders across all medical specialties.

## The Journal Tip (4) ChemTexts – The Textbook Journal of Chemistry

**ChemText** is a new Springer journal – two issues and eleven articles have been published so far. The journal does not publish original research articles but chapters which one usually would find in textbooks of chemistry. However, writing – and publishing – textbooks is usually a lengthy process. Combining the speedy but exacting methods of research journals with those of academic textbooks could improve this. Also updates are easily possible. The editor, Prof. Fritz Scholz, hopes that “ChemTexts—The Textbook Journal of Chemistry” will pave the way to a new kind of scientific textbook of the highest quality which is always up to date. A brochure can be downloaded [here](#).

### Does the Internet sleep?

In the Info Center you are welcome to take a nap. But does the Internet sleep? A research group at the University of Southern California, directed by John Heidemann, investigated the activity of 3.7 million out of the 4 billion IPv4 addresses using pings and indeed, the Internet sleeps. Details can be seen in the [Video](#) they have prepared, a publication and datasets are available [here](#).

### Karger Medical and Scientific Publishers celebrate 125 years

On the occasion of its anniversary, Karger Medical and Scientific Publishers in Basel, Switzerland, has published the complete book titles since its foundation in 1890 online.

### Springer Nature

Key competition authorities including the European Union and the US have cleared the merger of Springer and Macmillan Science and Education. The new company will be called Springer Nature.

## Durability of data and websites

Research Data Management is the new buzz word and also many libraries are jumping up on the bandwagon. Classical data files, especially ordinary text files are, however, comparatively easy to store and keep readable. Digital content that is not a static file is much more difficult to capture, store and archive as readable systems. One example are web sites that are generated live with the help of many little pieces of software that run on the users PC. Depending on the hardware, software versions and operating system the output may look different. That kind of data is readable only if also the software involved is archived. This is why Olive is getting developed, which stores operating systems, software, libraries used and the programming language, the code.

### Olive Interviews & Demonstration Olive in Action



Netscape Navigator 1.12 on a Macintosh of 1995 and much more.

Using a virtual machine that runs on Linux, the conditions that were captured during the archiving process are mimicked and the website or App thus runs again. In this way, the dynamic modules “Databases” and “Tools” that are an innovative part of the Info Center's web site could be restored, in e.g. 50 years presenting future researchers with tools from 2015. Olive is available already as a 0.5 version at <https://olivearchive.org>. Olive could thus be the „digital vellum“ that one of the pioneers of the internet, Vinton Cerf, requested on occasion of the [Annual Meeting of the AAAS](#).

Olive is a collaborative project seeking to establish a robust ecosystem for long-term preservation of software, games, and other executable content. Born at [Carnegie Mellon University](#).

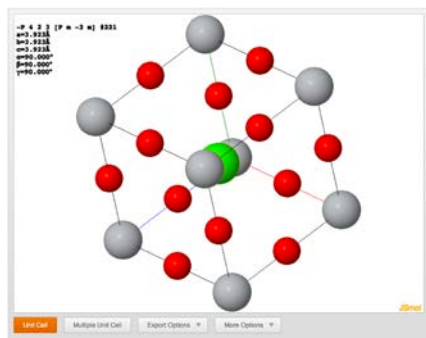
## SpringerMaterials is new!

For a while, the scientific publisher Springer has been working on a brand new version of the Springer Materials database, which is since 2009 a trusted source for critically evaluated data in the fields of physics, chemistry and materials since. Among others, the Info Center has been involved in its beta-testing and development.

The old familiar interface is now no longer available in parallel and also the URL of the database has changed from <http://www.springermaterials.com> to <http://materials.springer.com/>



The user interface is now Google-like empty and clean. According to Springer, the new platform is more intuitive, clearer and faster. It is easier to get started and an expanded search with element and sub-structure options is available. The content you know and trust is continually expanded (with > 450 Landolt-Börnstein volumes).



For example it's now possible to visualize roughly 195,000 crystal structures and represent multiple primitive cells not on the basis of theoretical data but based on actual measured data described in the primary literature – see [example](#). Whether you are searching for a particular material, compound or an element system, you can see at a glance all the properties for which data is available. This makes searching for materials and their properties far quicker than in the past. Try out the [interactive phase diagrams](#) using the mouse or the [slider function](#), which allows you to filter out small sections of a large data sheet.

## Elsevier Publishing Campus has opened

Very recently the Elsevier Publishing Campus has opened. The online training and learning platform gives young scientists free access to lectures, interactive training and professional advice on a wide range of topics, from the fundamentals of books and journals publishing, grant writing and self-promotion to broader issues like gender in research and open science.

The “Campus” consists of six “Colleges”. In the *College of Skills Training* researchers can learn about topics including writing articles and grant applications, peer review and ethics and how to get themselves and their research noticed. In the *College of Big Ideas* visitors can debate the big themes in academia. Other colleges are the *College of Networking*, *Research Solutions*, *Career Planning* and *Recommended Organizations*.

For every module or seminar completed, you will be awarded



with a certificate from Elsevier. If you already have a log-in for ScienceDirect or Scopus you need to use that one.

## An Alternative to Google Translate

Do you use Google Translate (<https://translate.google.com>) to get your texts translated online into another language? But you are not totally satisfied with the quality or are reluctant to submit your personal communication to Google servers? Free translations are also possible somewhere else, e.g. at PONS, the publisher with the famous green printed dictionaries. Go to <http://de.pons.com/text-übersetzung> and have access to free translation of your text by PONS in 36 languages. You can even choose between two services: PROMT and Lingenio. The upper, blue highlighted sentence translates with PROMT into: *Aber Sie sind mit der Qualität nicht völlig zufrieden oder sträuben sich dagegen, Sie persönliche Kommunikation Servern von Google vorzulegen??* And with Lingenio: *Aber Sie nicht mit der Qualität völlig zufrieden sind oder zögern, Sie vorzulegen, persönliche Kommunikation an Google-Server?* For comparison, this is what Google provides: *Aber Sie nicht mit der Qualität total erfüllt sind oder zögern, Ihnen persönliche Mitteilung an Google-Server übermitteln?* Depending on the nature of the text, you have more or less re-working or at least finishing work to do, when you actually want to publish the text in another language.

## Book Recommendations

J. Fischer and D. Rotella (Ed.)

### Successful Drug Discovery

Wiley-VCH, 2015

The first volume of the new book series describes the discovery and development of eight important drugs that were brought to market during the last ten years, e.g. Linagliptin, Trastuzumab Emtricitabine, Dapagliflozin and focuses also on the importance of serendipity in drug research.

Link to book: <http://bit.ly/1IQQE0n>

N. Balakrishnan (Ed.)

### Clinical Trials

Wiley, 2014

The first volume of the two-volume works equips readers with the basic statistical concepts that are required to successfully plan a clinical trial.

Link to book: <http://bit.ly/1PYbsU3>

E. Andrews and N. Moore (Ed.)

### Mann's Pharmacovigilance

Wiley Blackwell, 2014

Pharmacovigilance, the systematic monitoring of a drug, is getting more and more important. This reference work has everything one needs to know when working in drug safety.

Link to book: <http://bit.ly/1R5QZPy>

B. Dunn (Ed.)

### Peptide Chemistry and Drug Design

Wiley, 2015

This book focuses on peptides as drugs, a growing area of pharmaceutical research and development. It helps readers solve problems of discovering, developing, producing, and delivering peptide-based drugs and also identifies promising new areas in peptide drug discovery.

Link to book: <http://bit.ly/1AgM4HK>

W. Haefeli et al. (Ed.)

### Arzneimittel richtig anwenden

Thieme, 2013

Often patients have to take a broad range of different medications that require very specific applications and schemes. This book is aimed to help patients to prepare and take their medications according to the prescriptions, with step-by-steps instruction and many images.

Link to book: <http://bit.ly/1EZRBOO>

## Mapping it out

Even complex scientific information that consists mostly of data is easier to understand when presented as an appealing visual. In this book 130 scientists, artists but also e.g. architects, translated scientific data into an attractive visual language that is easier to understand. An example is the network of human diseases that are connected through joint genes (figure taken from p. 143). The book "Mapping it out", edited by von Hans Ulrich Obrist, is a source of inspiration for everyone who wants to present data and relations in a creative manner. The book can be borrowed via the URL <http://bit.ly/1b8GRoU>.



## The Hänsel/Sticher turns 50!

Some of you may still remember Professor Otto Sticher, formerly at the D-CHAB. Also in its 10th edition the famous Hänsel/Sticher is an indispensable source for pharmaceutical biology – both for students and teachers in pharmaceutical sciences. The latest edition, which has now been published by the "Deutscher Apotheker Verlag" can be borrowed via <http://bit.ly/1FukA1j>. If you prefer the e-book – there is only the 9th edition available, which has been published by Springer.

## Where does the expression "Fresszettel" come from?

You need to have some knowledge of German to understand the colloquial term to put a note on a "Fresszettel", a little scrap of paper. The term actually comes from images or words that were printed on paper and used in folk medicine in the 18<sup>th</sup> to 20<sup>th</sup> century. By swallowing or eating those papers of stamp size one absorbed the supernatural healing power. The papers mostly contained no images but texts, quotations from the Bible and prayers that treated both humans and animals. Only a few of the papers that were supposed to be swallowed are preserved. The *Pharmaziehistorische Museum* in Basel has one, dating from the 18<sup>th</sup> century and originating from Salzburg.



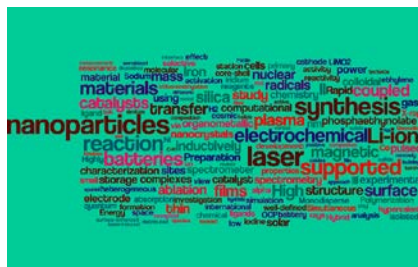
## App Tips (1)



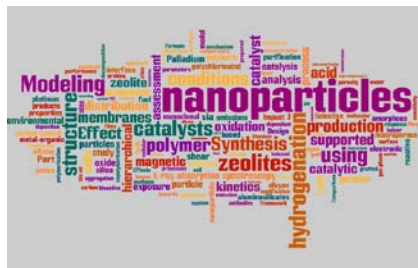
You are traveling in far away countries and want to know if there is a danger of outbreaks? With the **Outbreaks near me** app, developed by researchers from the Children's Hospital Boston, you know when to be cautious. This accounts also for "ordinary" diseases like a flu outbreak in your neighborhood, using an interactive map. Available for [iOS](#) and [Android](#).



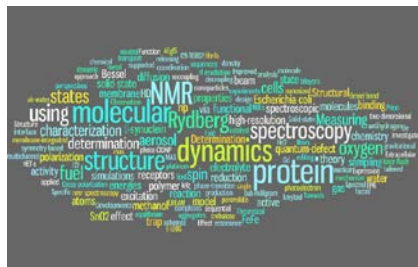
Another app for traveling, especially for frequent flyers, is **TrackYourDose**. The App shows the current local radiation level, as well as radiation caused by medical examinations or flights. The app uses a mathematical model developed by scientists and meteorologists from the Physikalisch-Technische Bundesanstalt (PTB) in Germany and the University Oulu, Finland. For [iOS](#) only.



Laboratory of Inorganic Chemistry



Institute for Chemical and Bioengineering



Laboratory of Physical Chemistry



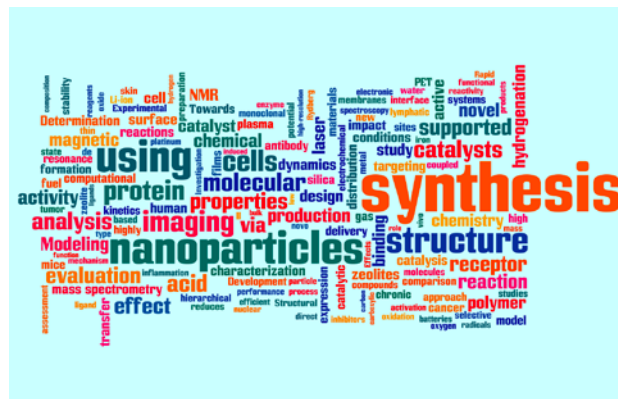
Laboratory of Organic Chemistry



Institute of Pharmaceutical Sciences

## Visualizing Research Output

Also this year the Chemistry | Biology | Pharmacy Information Center has visualized the Research Output of the D-CHAB (see below). Again we used the full titles of all articles published in 2014 using Scopus and the Scopus Author ID for retrieval. 633 articles were retrieved and processed. As last year, we have used a software that produces tag or word clouds – once again the free tool Wordle.



The article titles were segmented using the software and common English words were eliminated. Expressions that consisted of more than one word were protected using a special character, the tilde, between the words. The frequency of the remaining title words decides if and how big a particular word is represented in the cloud. Like last year, the differences between the five Laboratories and Institutes are obvious. Do you see any difference between the tag clouds of 2013 (see Infozine No. 6) and 2014 of the entire D-CHAB? Both the old and the new posters can be found on the walls in our seminar room HCI G2.

Would you like to have an image for your research group? Your data sets are available. Either for self designing – manipulating or to get the artwork done by us. Please contact [Dr. Oliver Remm](#).

## Statement against Elsevier's sharing policy

128 Organizations around the world [denounce](#) Elsevier's new sharing and hosting policy, announced April 30, 2015, that impedes open access and sharing. Read Elsevier's statement "[Unleashing the power of academic sharing](#)" (e.g. image below) and decide on your own.

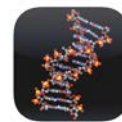
PRESUBMISSION	AFTER ACCEPTANCE	AFTER PUBLICATION	AFTER EMBARGO
Preprints can be shared anywhere at any time. Please note Cell Press, The Lancet, and some society-owned titles have different preprint policies; information on these is available on the journal homepage.	Author manuscripts can be shared: <ul style="list-style-type: none"> <li>Privately with students or colleagues for their personal use</li> <li>Privately on institutional repositories</li> <li>On personal websites or blogs</li> <li>To refresh preprints on arXiv and bioRxiv</li> <li>Privately on commercial partner sites</li> </ul>	Gold open access articles can be shared: <ul style="list-style-type: none"> <li>Anytime anywhere on non-commercial platforms</li> <li>Via commercial platforms if the author has chosen a CC-BY license, or the platform has an agreement with us.</li> </ul> Subscription articles can be shared: <ul style="list-style-type: none"> <li>As a link anywhere at any time</li> <li>Privately with students or colleagues for their personal use</li> <li>Privately on commercial partner sites</li> </ul>	Author manuscripts can be shared: <ul style="list-style-type: none"> <li>Publicly on non-commercial platforms</li> <li>Publicly on commercial partner sites</li> </ul>

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## App Tips (2)



**Molecules** is an app for viewing three-dimensional renderings of molecules (ball-and-stick and spacefilling) and for manipulating them using your fingers. New molecules can be downloaded from either the RCSB Protein Data Bank or PubChem. Molecules can be downloaded directly to your iPhone or iPad and stored there for later viewing.

Are you taking notes on tablets? We have introduced you to [Noteshelf](#) and [Bamboo Paper](#). Here are two additional apps:



**Penultimate** works with the famous Jot Script 2 Evernote, a very thin pen. For iPad only.



**Moleskine**, however, brings the old school feeling of the black moleskin notebook into the digital world.

## Course in Fall semester 2015 Get information savvy in 10.5 hours only – and earn 1 ECTS

Already as a student you can save a lot of time by using the possibilities of today's information management. This is even more true for Ph.D. students and Post-Docs, especially in Chemistry and Life Sciences. If you carefully prepare your experiments, analyzing the literature first, you have more time for publishing. For both conducting research as well as publishing research the course „**Scientific Information Retrieval & Management in Life Sciences and Chemistry**“ (Lecturer: Oliver Renn) has been designed. The course has been held for the first time in the fall semester 2014 and the admittedly odd and lengthy title stands for the following ten entertaining blocks, most with practical exercises:

1. The World of Scientific Publishing
2. Searching and Retrieving Scientific Information Using Search Engines and Literature Databases
3. Searching and Retrieving Scientific Information Using Subject-specific Databases in Chemistry
4. Searching and Retrieving Scientific Information Using Subject-Specific Databases in Life Sciences
5. Tools for Managing the Retrieved Scientific Information
6. Tools for Analyzing Scientific Information & Managing and Sharing Knowledge
7. Patents
8. Text(Literature) and Data Mining
9. Communicating & Analyzing the Impact of (Your) Science
10. Scientific Writing & Good Scientific Practice

This course is in its own way extraordinary and to our knowledge available in this form only at the ETH Zurich. The course is not an overview of databases nor an in-depth database training but maps the cycle of the scientific research processes with the corresponding processes of information and knowledge management.

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). **The enrollment for the course starts on August 1st 2015.** Undergraduate students and guests are also welcome to attend.

## Coffee Lectures – the 6. series

Once again, there is a three-week series of Coffee Lectures during the examination period, starting June 23, 2015. With topics that are of interest not only to students but also to PhD students, researchers and professors.



As always, Coffee Lectures start at 1:00 pm sharp, on Tuesdays, Wednesdays and Thursdays in HCI G2, with free coffee or tea. **All topics are new!** More information can be found on our website under „News“ and “Events” where you can add Coffee Lectures of interest into your electronic calendar. The Info Center has published the concept of the Coffee Lectures last year and gained considerable attention: Coffee Lectures spread out. For example, at the Karlsruhe Institute of Technology there have been Coffee Lectures for several months now.

## Bibliofreak – Does your library support you?

Maybe you have already noticed the black freak posters in the Info Center, or you have seen the poster on the “News” section of our homepage. Bibliofreak ([www.bibliofreak.ch](http://www.bibliofreak.ch)) is a national image campaign for libraries which is supported by the government, the cantons and Swiss Library Associations. You are, by the way, not a freak if you are using libraries or library infrastructure. The campaign assumes that everyone has a certain interest he or she cares a lot about, is passionate and thus a freak. Ideally with support from the local library. The Chemistry | Biology | Pharmacy Information Center has joined the campaign. Therefore, if you feel supported by us, you may post what you are passionate about and how your library (we) supports you.



## Issuu:

Read and publish: simple, beautiful, powerful – and free

Issuu is the fastest growing digital publishing platform in the world, with more than 21 million publications. Every day 15 000 new publications are uploaded. Every month more than 85 million people come to Issuu and read magazines and brochures online. Topics range from fashion, lifestyle, art, sports and global affairs, to mention a few. And that's not all. There is a prominent range of independent publishers utilizing the Issuu network to reach new fans every day. Issuu is archive, library and newsstand all gathered in one reading experience.

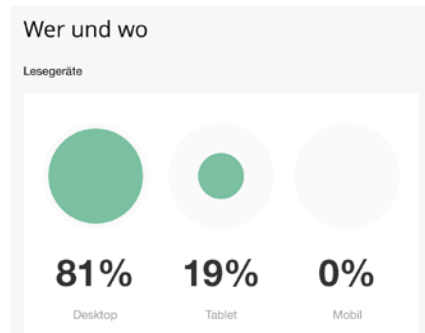
Why should you upload your publication to Issuu? Apart from the broad outreach, there is an additional advantage. You decide whether your publication can be downloaded as a PDF to the desktop or not or only be read on a tablet (Issuu has also an App) or on screen?

We have tried this with Infozine No. 7. Uploading a publication is really quick and straightforward. Simply go to [www.issuu.com](http://www.issuu.com), register or use your existing LinkedIn, Facebook or Google+ account. Choose a profile name, decide on the URL of your publication, edit your publishers profile

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[http://issuu.com/icbp\\_ethz/](http://issuu.com/icbp_ethz/)

## Introducing Info Center Staff

In this issue of Infozine we are introducing again a member of the team of Information Consultants: **Blanka Cartier**, Information Consultant Biology. Blanka Cartier joined the Info Center in August 2002 as an Information Specialist. After her Matura Type B she studied biology at the ETH Zürich and graduated 1981 with a diploma, specializing in microbiology. In the following years, she held several positions outside the scientific community.



During an employment at the Hospital Library in Aarau she realized that she would like to work as a science librarian. She developed the expertise for this role both by on-the-job training and a CAS (Certificate of Advanced Studies) in Information and Documentation at the Wirtschaftshochschule in Luzern.

Being an Information Consultant Biology, she is the first contact for questions regarding biology databases and tools, for training and last but not least responsible for our collection of biology books. If you find interesting books in our catalogue – or on a “New Acquisitions Poster” – or just the right literature for preparing a course: the credits go to Blanka Cartier, who manages the Biology portfolio based on our Acquisitions Profile.

As you might expect from a biologist, she loves to be out in the nature. Also, she enjoys traveling in far away and foreign countries, with a particular interest for plants and animals.

**Monday to Friday 8 to 22**  
**Saturday and Sunday 9 to 19(22)**

**The extended opening hours of the Chemistry | Biology | Pharmacy Information Center in the examination session until mid of September can be found on our website.**

