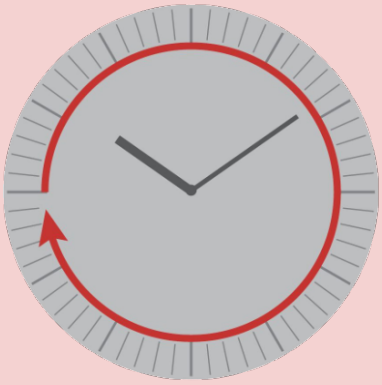
ETH zürich

infozentrum
Chemie | Biologie | Pharmazie

Want fewer hours in the lab?
Enroll in the course with the longest title!

Scientific Information Retrieval & Management in Life Sciences and Chemistry (529-0195-00L)

Without the course

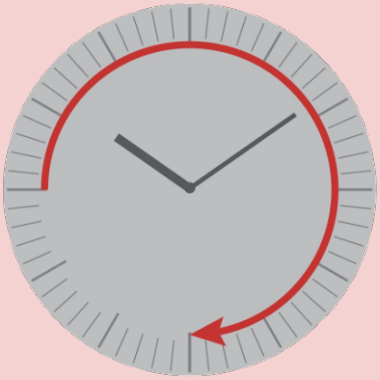


Your lab hours

You know about

- Google
- Google Scholar

With the course ✓



Your lab hours

You know about

- Scholarly communication & publishing ✓
- Searching & retrieving information ✓
- Tools for analyzing scientific information ✓
- Tools for managing scientific information ✓
- Tools for sharing scientific information ✓
- Patents ✓
- Data and text mining ✓
- 2D und 3D visualization of molecules ✓
- Scientific writing ✓
- Outreach and research metrics ✓
- 2 ECTS ✓

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About the course

The course Scientific Information Retrieval & Management in Life Sciences and Chemistry (course number 529-0195-00L in ETH Zurich's course catalog) is taught every fall semester. It is tailored to doctoral students in chemistry, life sciences, material science and health science but is open also to students from other disciplines and Master's students. It is open also to students from University of Zurich and has also been tailored to the needs of the **Life Science Zurich Graduate School.**

The course features a multi-level approach to scientific information. On one hand, we show the big picture, discussing aspects like scientific writing and publishing, critical choice of data sources, patents, visualization and design, data pipelining and knowledge generation, outreach and impact of publications. On the other hand, we highlight an extensive list of field-proven tools and databases that can assist researchers in their day-to-day activities.

Your lecturers

Jozica Dolenc
PhD in chemistry, 7 years research experience in physical chemistry and biomolecular simulations at ETH Zurich, 8 years experience in information science.

Oliver Renn
PhD in chemistry, 7 years research experience in bioinorganic, bioconjugate and organometallic chemistry, 7 years in STM publishing, 9 years in information science in pharmaceutical industry

Leo Betschart
PhD in chemistry, 7 years research experience in synthetic organic chemistry at ETH Zurich and UBC Vancouver, 3 years experience in information science

Joachim Schnabl
PhD in chemistry, 6 years research experience in bioinorganic chemistry at University of Zurich, 5 years experience in information science, now co-founder of a biotech company

What doctoral students say who took the course:

The course had quite an impact on my working principles

Will make the difference during my life as PhD student and during my future career

Resulted in a much more effective use of my time

The concepts introduced (...) about retrieval of information, text mining, scientific writing and about different databases help in every stage of a doctoral program

Perfect overview on what a PhD student should know

Makes a great impact to my scientific work at ETH Zurich

Rather astonished by the number of tools never heard about

How little things can change your PhD life

Great overview of productivity tools/hacks

Immediately impacted my research