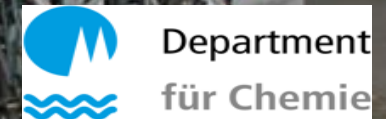


Winter Semester  
2025/2026

Class #30 @ UoC

Faculty of Mathematics and Natural Sciences  
Department of Chemistry and Biochemistry  
Prof. Dr. Annette M. Schmidt



Welcome to the Department of Chemistry & Biochemistry!

# Let us introduce ourselves.



Prof. Dr. Annette **Schmidt**  
(ILM)  
Chairperson Exam. Board

[annette.schmidt@uni-koeln.de](mailto:annette.schmidt@uni-koeln.de)



Prof. Dr. Axel **Griesbeck**  
(Organic Chemistry)  
Vice-Chairperson Exam. Board

[griesbeck@uni-koeln.de](mailto:griesbeck@uni-koeln.de)



Dr. Heike **Henneken**  
(Administration)  
Student Advisory Service,  
International Affairs

[hhenneke@uni-koeln.de](mailto:hhenneke@uni-koeln.de)



Jennifer **Hagemann**, M.A.  
(Administration)  
Examination Office

[j.hagemann@uni-koeln.de](mailto:j.hagemann@uni-koeln.de)

# MSc Chemistry @University of Cologne

-> research-focused training and specialization in chemistry



# Program Language = English only!

But:

It is a good advise to fetch up with some German!

(helps e. g. with ordering beer, talking to administrative people, ...)



# Train your English!

## active:

- writing (reports, written exams, ...)
- speaking (presentations, oral exams, ...)

## passive:

- reading (journals, ...)
- listening (lectures, ...)



Your professors  
are not native  
speakers neither!



# Term-based schedule

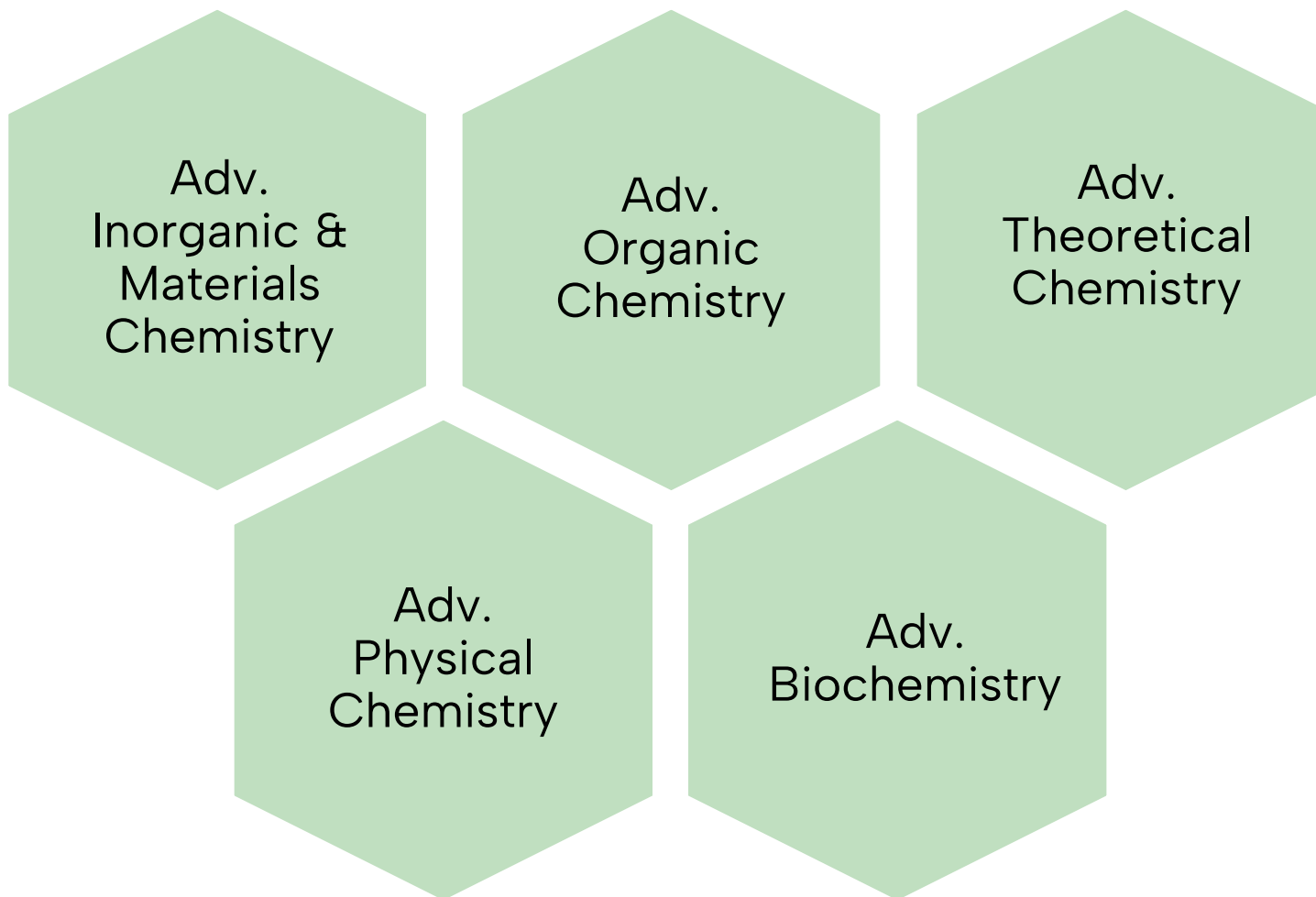
Semester 1	Semester 2	Semester 3	Semester 4
Advanced Module A1 6 CP	Research focus RF2 6 CP	Lab Module LM1 15 CP	Master thesis 30 CP
Advanced Module A2 6 CP	Subject Module SM2 12 CP		
Scientific Literacy SL 9 CP	Subject Module SM1 12 CP	Lab Module + Research Proposal LM2 18 CP	
Research focus RF1 6 CP			
Σ 27 CP	Σ 30 CP	Σ 33 CP	Σ 30 CP

# 1<sup>st</sup> Semester

module		h / week (lecture & seminar)	lab course (weeks)	cp
MN-C-A1	Advanced Chemistry 1	4	-	6
MN-C-A2	Advanced Chemistry 2	4	-	6
MN-C-SL	Scientific Literacy	4	3	9
MN-C-RF1	Research Focus 1	4	-	6
				$\Sigma$ 27

# Advanced Chemistry Modules (A-Modules)

- Choose 2 out of 5:



# Weekly Schedule Start 20.10.2025

(BC-A: 14.10.25)

	Monday	Tuesday	Wednesday	Thursday	Friday	
8-9 h		BC-A VL	RF ITO	PC-A VL	BC-A VL	
9-10 h	AC-A Sem			PC-A Exerc	BC-A VL	
10-11 h		PC-A VL Schubert	OC-A VL Dumele	AC-A VL Mathur/Wickleder	AC-A VL	
11-12 h	TC-A Exerc				TC-A VL	
12-13 h	TC-A VL Hanrath		RF IOPC	RF MSAAC	RF ITO	
13-14 h			Scientific Literacy	RF CC		
14-15 h	RF MSAAC	RF TMC		RF M3 Sem	RF M3 Sem	RF M3
15-16 h						
16-17 h						

# Advanced Chemistry Modules (A-Modules)

**Important:** Kick-off dates are obligatory! -> seminar task assignment

MN-C-A-IC	<b>Advanced Inorganic and Materials Chemistry</b>				
	Prof. Dr. Mathias Wickleder	<a href="mailto:mathias.wickleder@uni-koeln.de">mathias.wickleder@uni-koeln.de</a>	L: Thu, 23.10.25	10:00 AC414	
	Prof. Dr. Sanjay Mathur	<a href="mailto:sanjay.mathur@uni-koeln.de">sanjay.mathur@uni-koeln.de</a>	S: Mon, 20.10.25	09:00 AC414	
MN-C-A-OC	<b>Advanced Organic Chemistry</b>				
	Prof. Dr. Oliver Dumele	<a href="mailto:odumele@uni-koeln.de">odumele@uni-koeln.de</a>	L: Wed, 22.10.25	10:00 HS III	
			S: Tue 21.10.25	14:00 OC 413	
MN-C-A-BC	<b>Advanced Biochemistry (ABMM)</b>				
	Prof. Dr. Günter Schwarz	<a href="mailto:gschwarz@uni-koeln.de">gschwarz@uni-koeln.de</a>	L: Tue, 14.10.2025		
MN-C-A-PC	<b>Advanced Physical Chemistry</b>				
	Prof. Dr. Marcel Schubert	<a href="mailto:Marcel.schubert@uni-koeln.de">Marcel.schubert@uni-koeln.de</a>	L: Tue, 21.10.25	10:00 PC 302	
			E: Thu, 23.10.25	09:00 PC 302	
MN-C-A-TC	<b>Advanced Theoretical Chemistry</b>				
	Prof. Dr. Michael Hanrath	<a href="mailto:michael.hanrath@uni-koeln.de">michael.hanrath@uni-koeln.de</a>	L: Mo, 20.10.25	12:00 HS2	
			E: Mon 20.10.25	11:00 HS2	

# Scientific Literacy (SL) Module

- A scientifically literate person is able to understand, experiment, reason and interpret scientific facts and their meaning
- **Interactive seminar:** Obligatory kick-off: **22.10.2025, 13:00 h**
  - Principles of Good Scientific Practice & Scientific Methodology
  - Searching and handling of literature, data bases, (AI) tools
  - Collecting, consolidating & managing data,
  - Reporting and presenting scientific results,
  - Innovation management
  - ...
- two-week laboratory internship
  - Repeat/deepen/learn important working techniques



# Research Focus Modules (RF-Modules) WiSe 2025

- 4 SWS (lecture & seminar) in an actual area of interdisciplinary research

## Computational Chemistry

Hanrath, Blunk, Goldfuß

## Introduction to Optics

Lindfors, Gather, Schubert

## Aspects of Transition Chemistry with Emphasis on Technetium

Wickleder, Strub

## From Molecules to Mice to Men

Grüll, Endepols, Kath-Schorr, Neundorf

## Mass Spectrometry and its Application to Atmospheric Chemistry

Schäfer, Hanrath, Zorn (FZ Jülich)

## Inorganic and Organic Photochemistry as Tools for Protecting and Releasing Small Molecules

Griesbeck, Klein

# MN-C-RF-CC: Computational Chemistry

- Goal: analyze chemical questions by computational methods
- Contents:
  - Introduction to Unix, HPC environments (logins, scripting, batch jobs, organization of directories, reproducibility, collect/visualize results)
  - Types of coordinates (cartesian/internal) and calculations (single point, geometry optimization (with and without constraints), frequency, properties)
  - Setting up reaction pathways
  - Choice of suitable method and cost estimation
  - Calculating different properties, their difficulties and expectable accuracies
  - Example applications:
    - Large molecules, proteins, molecular dynamics
    - Alder's endo-rule, free energies
- Prerequisites: (very) basic knowledge of TC and OC
- Lecturers: Dirk Blunk, Bernd Goldfuß, Michael Hanrath

# INTRODUCTION TO OPTICS

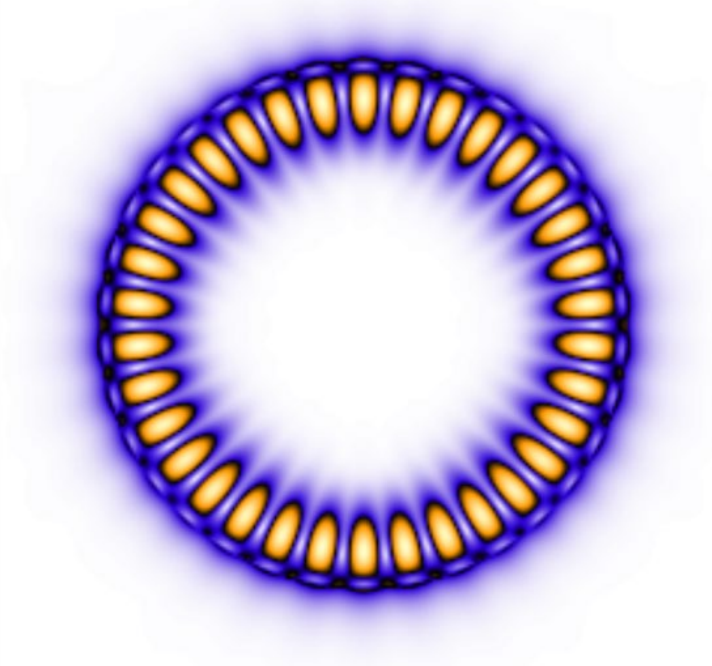
Klas Lindfors, Malte Gather, Marcel Schubert, ILM

## Competences gained

- Descriptions of light
- Understanding simple optical instruments
- Familiarity with principles of optical laboratory techniques
- Light-matter interactions

## Planned list of topics

- Ray description of light
- Wave phenomena: scalar and vector waves
- Polarization phenomena
- Imaging systems
- Light in matter
- Optical properties of matter
- Basic optical elements
- Laboratory optics
- Methods and tools of spectroscopy
- Advanced microscopy techniques

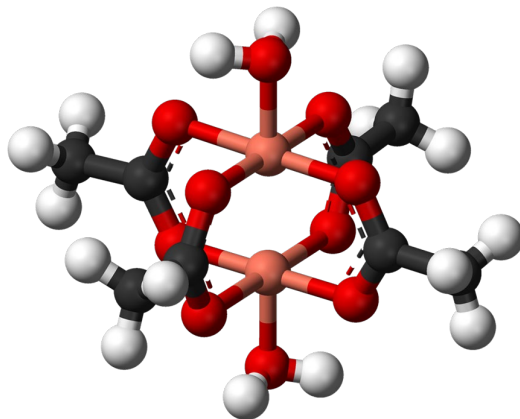


# Transition metal chemistry with special emphasis on Technetium

Mathias S. Wickleder (Inorganic Chemistry) Erik Strub (Nuclear Chemistry)

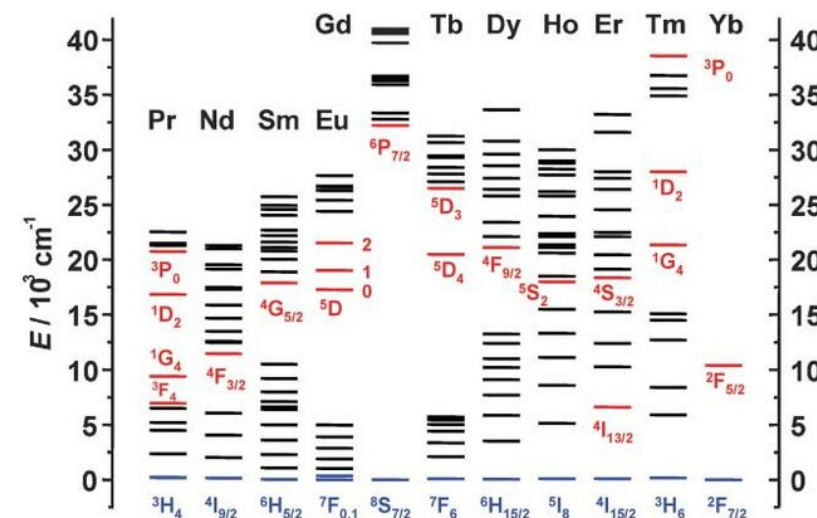
## Transition metals

- 30 elements of the *d*-block (“outer transition metals”)
- 28 metals of the *f*-block (“inner transition metals”)
- different nature of *d*- and *f*-electrons.
- electronic situation of transition metals (orbitals, term symbols)
- electronic situation in compounds (crystal field and ligand field theory)
- photophysical and magnetic properties
- applications based on these properties



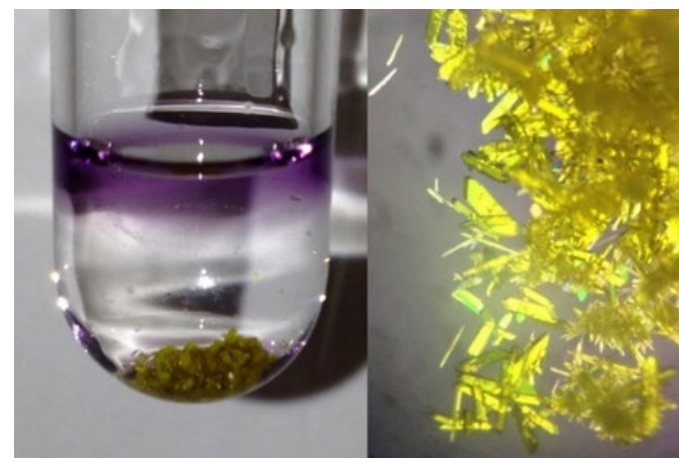
Typical paddle-wheel type complex of transition metals with chelating ligands

Partial energy diagrams for the lanthanide aquo ions.



## Special emphasis on the element technetium

- placed in the middle of the *d*-block
- only radioactive isotopes are known,
- chemistry of isotopes (mainly Tc-99 and Tc-99m)
- role of technetium plays in different chemical disciplines (analytics, radiopharmacy, nuclear fuel, environment)



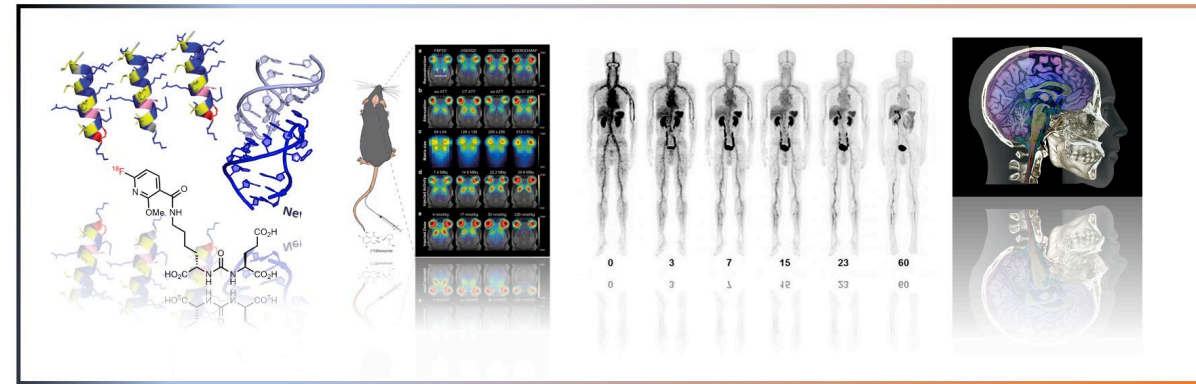
appearance of technetium compounds in strong acid

# From Molecules to Mice to Men

Research Focus Module by the MUPIC Consortium

Module coordinators: Heike Endepols (Nuclear Medicine), Holger Gröll (Radiology)

*Everything you always wanted to know about imaging*



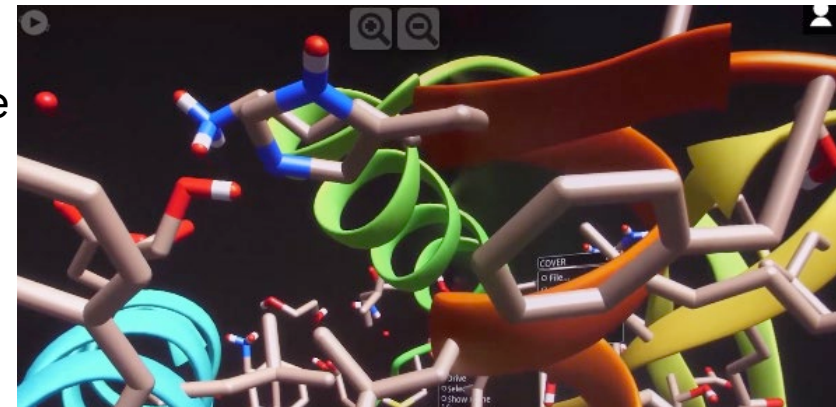
<https://mupic.uni-koeln.de>

MUPIC = Multimodal Preclinical Imaging Platform University Cologne

- 1.) Lecture every Friday 1:00–3:00 PM: get the theoretical background
- 2.) Seminar (5 days in January 2026): present a paper
- 3.) Hands-on (2 days, arranged individually): see for yourself how imaging works
- 4.) Oral exam, arranged individually



Highlight: visit the CAVE and walk into your image



<https://rrzk.uni-koeln.de/hpc-projekte/visualisierung/cave>



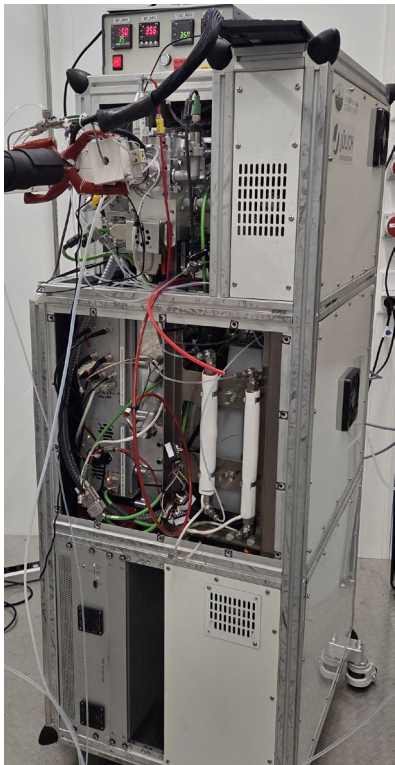
# RF MODUL: MASS SPECTROMETRY (MS) AND ITS APPLICATION IN ATMOSPHERIC CHEMISTRY (AAC)



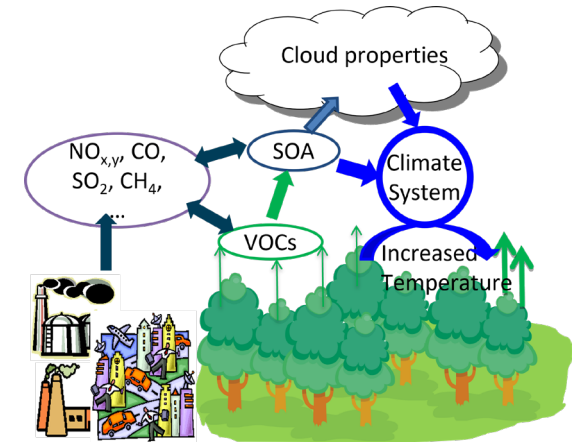
*Mathias Schäfer (Organische Chemie – Massenspektrometrie)*

*Michael Hanrath (Theoretische Chemie)*

*Sören Zorn (Forschungszentrum Jülich – ICE 3)*



- **Motivation:**
  - To understand the **complex chemistry** of the **atmosphere** and how **humans influence** it and the **climate**
- **What you will learn:**
  - The **basics** of **atmospheric chemistry** and physics, which we actually experience every day
  - How (online) **mass spectrometry** became one of the **most important tools** for experimental **atmospheric research**
  - What **challenges** arise from the measurements and **“big” data** analysis, and how they **can be addressed**



# RF MODUL: MASS SPECTROMETRY (MS) AND ITS APPLICATION IN ATMOSPHERIC CHEMISTRY (AAC)



*Mathias Schäfer (Organische Chemie – Massenspektrometrie)*

*Michael Hanrath (Theoretische Chemie)*

*Sören Zorn (Forschungszentrum Jülich – ICE 3)*

- Throughout the module, you will learn about the following:
  - The **atmosphere** and its **composition** (biogenic and anthropogenic constituents)
  - **Radical chemistry** and **secondary organic aerosol (SOA) formation**
  - **Mass spectrometric methods**
  - Different **ionization techniques**
  - **Inlet designs** for atmospheric (online) sampling
  - Application of **mathematic methods** and **clustering** algorithms for **big data** analysis

**The course will conclude with an excursion to the FZ Jülich, where you will encounter the instruments in person (and the students/scientist working with them)**



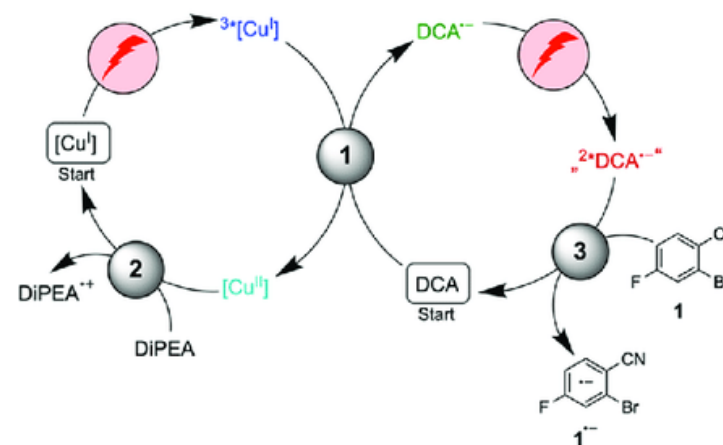
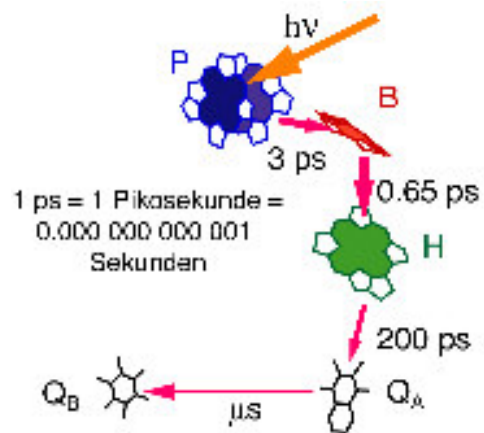
# MN-C-RF-IO: Inorganic and Organic Photochemistry

## Modern Photoredox-Catalysis with Organic and Metal-containing Catalysts

Prof. Axel Klein (Department of Chemistry and Biochemistry, UzK, Inorganic and Materials Chemistry) <https://klein.uni-koeln.de/> and  
Prof. Axel Griesbeck (Department of Chemistry and Biochemistry, UzK, Organic Chemistry) <http://www.oc.uni-koeln.de/griesbeck/index.html>



on the way from natural photosynthesis to synthetic applications...



### What you will learn:

- some basic **photochemistry** and advanced photophysics and spectroscopy and quantum theory of excited state behavior, redox chemistry in ground and excited states, Marcus- and Rehm-Weller theory of electron transfer.
- **Catalysis** with ground-state and excited-state catalysts, activation steps of excited catalysts, PET-catalysis, applications of organic and metal-containing catalysts, MLCT and LMCT-excited states, properties and applications, selectivity in catalysis; regio- and stereoselectivity (enantioselective PET-catalysis).
- **Biophotocatalysis** and the green / red **photosynthesis**

# Research Focus Modules (RF-Modules) SoSe 2026 (prelim.)

**From basic research to  
industrial products:  
Modern Drug Design**

Giernoth, Kath-Schorr,  
Dumele, Hillisch, El Sheikh

**Functional  
Nanostructures and  
Biomaterials**

Maleki, Mathur

**Photochemistry and  
Chirality – Synthesis and  
Devices**

Griesbeck, Meerholz

**Introduction to Nano-  
and Biophotonics**

Gather, Schubert

# Weekly schedule Start 20.10.2025

(BC-A: 14.10.25)

	Monday	Tuesday	Wednesday	Thursday	Friday
8-9 h		BC-A VL	RF ITO	PC-A VL	BC-A VL
9-10 h	AC-A Sem			PC-A VL Schubert	
10-11 h		TC-A Exerc	OC-A VL Dumele		AC-A VL Mathur/Wickleder
11-12 h	TC-A VL Hanrath			RF IOPC	
12-13 h		RF M3 Sem	OC -A Sem (Intro 22.10.)		RF M3 Sem
13-14 h	RF MSAAC			RF TMC	
14-15 h		RF MSAAC	RF TMC		RF M3 Sem
15-16 h					
16-17 h					

# 2nd Semester

- Access to SM after passing SL module + one A module

module		h / week (lecture & seminar)	lab course (weeks)	cp
<b>MN-C-RF<sub>2</sub></b>	Research Focus 2	4	-	6
<b>MN-C-SM<sub>1</sub></b>	Subject Module 1	2	5	12
<b>MN-C-SM<sub>1</sub></b>	Subject Module 2	2	5	12
				<b>Σ 30</b>

# Subject Modules (SM)

- Starting 2nd semester – one A module and SL module completed
  - 2 SWS (lecture block in 1st semester week – all groups are presented)
  - 5 weeks lab internship + report delivered + exam week (1st / 2nd half of semester)
  - Results will be presented at common symposium at semester end
- 
- 4 modules (SM / LM) in at least 3 work groups, LMs in different groups
  - Max 1 non-chemical module, max 2 external modules

# Schedule 1st week

	<b>Mo</b>	<b>Di</b>	<b>Mi</b>	<b>Do</b>	<b>Fr</b>
	13.10.	14.10.	15.10.	16.10.	17.10.
9.00		<b>Dumele</b>	<b>Schubert</b>	<b>Ruschewitz</b>	<b>Schmidt</b>
- 10.15		ExSem1	HS3	ILM 147	ILM 147
10.30		<b>Meerholz</b>	<b>Goldfuß</b>	<b>Goldfuß</b>	<b>Milow</b>
- 11.45		ExSem1	HS3	ILM147	ILM 147
13.00	<i>Master-Wc</i>	<b>Grüll</b>	<i>SL</i>	<b>Griesbeck</b>	<b>Mathur</b>
- 14.15	<i>ExSem1</i>	HS3		ExSem2	ExSem2
14.30	<b>Wickleder</b>	<b>Kath-Schorr</b>		<b>Ermert</b>	<b><i>SM selection</i></b>
- 15.00	ExSem1	HS3		ExSem2	ExSem2

# 3<sup>rd</sup>/4<sup>th</sup> Semester

module		h / week (lecture & seminar)	lab course (weeks)	cp
MN-C-LM1	Laboratory 1	1	10	15
MN-C-LM2	Laboratory 2	1	10	18
				<b>Σ 33</b>
MN-C-MT	Master thesis		26	30

# Laboratory Modules (LM)

Research practical course in a current subfield of chemistry

- Task assignments for independent project work under guidance of e. g. grad student
- proposed by the scientific supervisor in agreement with the student

Seminar part

- Presentation of topical research results obtained in the context of current literature.

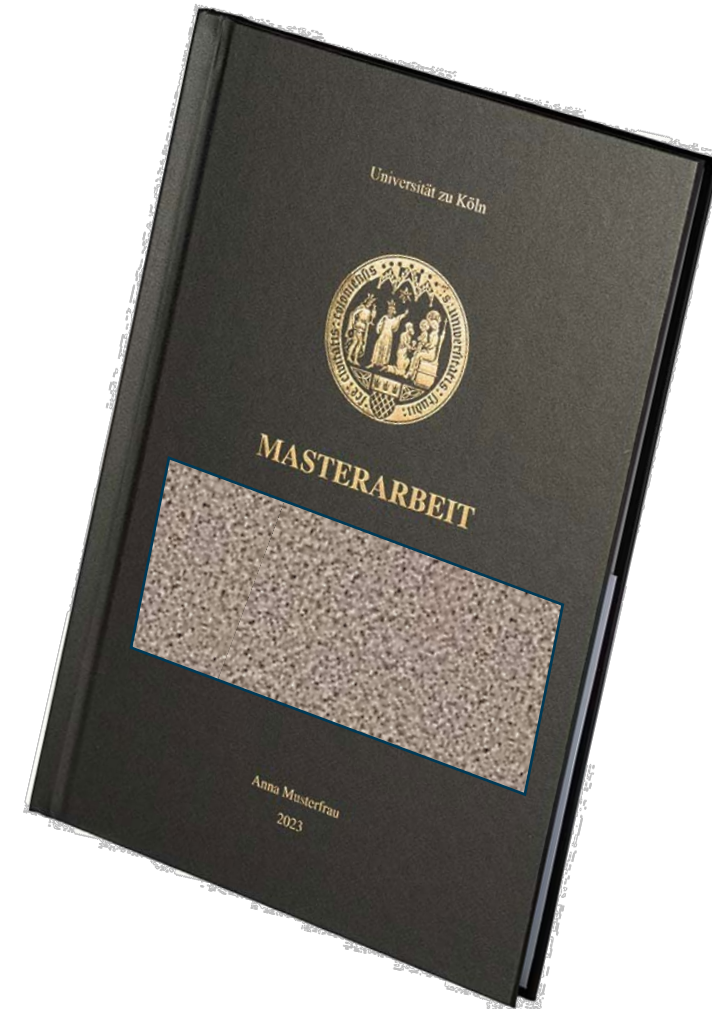
LM2: Research proposal

- Includes (guided) preparation & presentation of a research project proposal

# Master (MT) Module

Completion of an individual research project

- Task agreed between supervisor and student
- 6 months of lab work incl. thesis writing with sharp deadline



# Module Enrollment

RF Modules: Please choose 2!

Enrollment period for SL Module & Advanced Modules in KLIPS:

**Oct 13 to Oct 19, 2025**

- **Module participation only possible when registered!**
- Registrations are valid only for the actual semester!
- Register only for the modules you plan to study this semester – and de-register, if you change your mind (and inform the examination office)!
- Be fair and do not block places others are waiting for!

# Written and oral exams

- Registration (**latest 7 days ahead**) is required for all modules & exams!  
**Without registration for the exam you cannot participate.**
- Written exams: online registration in KLIPS
- Oral exams: individual regulations, yet all oral exams have to be **announced 7 days ahead** at the examination office via email (master-chemistry@uni-koeln.de)!
- Absence (without medical attest) -> failed attempt ☹️
- some exams are restricted in trial numbers

# Online Registration for Modules in KLIPS 2.0

Add as many applications to your Favourites as you want.

Show only Favourites ^

All applications

Filter by application title...

Recommendation



  <b>My Degree Programme</b>	 <b>Applications</b>	 <b>Courses</b>	 <b>Exam Dates</b>	 <b>My Calendar</b>	 <b>My Achievements</b>
<p>Overview of your degree programme: subjects, modules, registration for courses and exams.</p> <b>Transcript of Records</b>	 <b>Student Files</b>	 <b>Recognitions</b>	 <b>Search</b>	 <b>Documents</b>	 <b>Semester Fees</b>
 <b>Student Dossier</b>	 <b>My Addresses</b>	 <b>UCCard Image Upload</b>			

# Online Registration for Modules in KLIPS 2.0

KLIPS 2.0 Universität zu Köln

Maintenance: 16.10.2025, 07:00 - 08:30 Test Test88Chemistry EN

My degree programme  
Chemistry [20242], Master's programme - 1 subject (1110 88 033)

Chemistry [20242]

Search for element

Chemistry

- Basic Modules
- Advanced Modules
- Specialization Modules
- Master Module

[20242] Chemistry

My progress of studies

MY CURRENT STATUS

0/120 ECTS achieved

Registration possible 2025 W

Semester Fee 2025 W 335,65 €

Achievements by Academic Year

SCHEDULE

- Semester plan
- Modules
- Exams

ACTIVITY

- Course Registrations 2025 W 0
- Exam Registrations 0
- Bookmarked Courses 2025 W ☆ 0

Filter Sorting (ascending)

Basic Modules 0/21 ECTS

Advanced Modules 0/12 ECTS

Specialization Modules 0/57 ECTS

Master Module 0/30 ECTS

# Online Registration for Modules: Example Basic Modules

KLIPS 2.0 Universität zu Köln

My degree programme  
Chemistry [20242], Master's programme - 1 subject (1110 88 033)

Chemistry [20242]

Search for element

- Chemistry
  - Basic Modules
  - Advanced Biochemistry
  - Advanced Inorganic Chemistry
  - Advanced Macromolecular Chemistry
  - Advanced Organic Chemistry
  - Advanced Physical Chemistry
  - Advanced Theoretical Chemistry
  - Scientific Literacy
  - Advanced Modules
  - Specialization Modules
  - Master Module

[20242] Chemistry

My progress of studies

MY CURRENT STATUS

0/120  
ECTS achieved

Registration possible 2025 W  
Semester Fee 2025 W  
Achievements by Academic Year

Basic Modules

0/21  
ECTS

# Online Registration for Modules: Example Basic Modules

KLIPS 2.0 Universität zu Köln Maintenance: 16.10.2025, 07:00 - 08:30 Test Test88Chemistry EN

My degree programme  
Chemistry [20242], Master's programme - 1 subject (1110 88 033)

Chemistry [20242] [20242] Chemistry / Basic Modules

Basic Modules 0/21 ECTS

**⚠ This section requires a selection of at least 2 subjects, up to a maximum of 2.**

**⚠ This section requires a selection of at least 2 subjects, up to a maximum of 2.**

Filter ▾ Sorting (ascending) ▾

<b>[5816A-BC] Advanced Biochemistry</b> 0/6 ECTS <input type="checkbox"/> Select ⓘ	<b>[5816A-AC] Advanced Inorganic Chemistry</b> 0/6 ECTS <input type="checkbox"/> Select ⓘ	<b>[5816A-MC] Advanced Macromolecular Chemistry</b> 0/6 ECTS <input type="checkbox"/> Select ⓘ	<b>[5816A-OC] Advanced Organic Chemistry</b> 0/6 ECTS <input type="checkbox"/> Select ⓘ
<b>[5816A-PC2] Advanced Physical Chemistry</b> 0/6 ECTS <input type="checkbox"/> Select ⓘ	<b>[5816A-TC2] Advanced Theoretical Chemistry</b> 0/6 ECTS <input type="checkbox"/> Select ⓘ	<b>[5816A-SL] Scientific Literacy</b> 0/9 ECTS No grade	

Inactive or not selected elements ✕ Elements currently not valid ✕

# Online Registration for Modules: Example Basic Modules

[2024Z] Chemistry / Basic Modules

Basic Modules

⚠ This section requires a selection of at least 2 subjects, up to a maximum of 2.

Do you want to select this element?

Important: Once saved, it is no longer possible to change the selected element via the check box.

Yes Cancel

[5816A-BC] Advanced Biochemistry 0/6 ECTS Select

[5816A-MC] Advanced Macromolecular Chemistry 0/6 ECTS Select

[5816A-PC2] Advanced Physical Chemistry 0/6 ECTS Select

[5816A-TC2] Advanced Theoretical Chemistry 0/6 ECTS Select

[5816A-SL] Scientific Literacy 0/9 ECTS No grade

You must select two basic modules.

Once you have made your selection, you will not be able to change it.

# Online Registration for a Lecture: Example Basic Modules (Advanced Organic Chemistry)

The screenshot displays the KLIPS interface. On the left is a navigation menu for 'Chemistry [20242]' with a search bar and a tree view. The tree view includes 'Basic Modules', 'Advanced Biochemistry', 'Advanced Inorganic Chemistry' (highlighted with a red oval), 'Seminar', and 'Module Examination'. The main content area shows the breadcrumb path: '[20242] Chemistry / Basic Modules / [5816A-AC] Advanced Inorganic Chemistry / [5816A-AC] Lecture'. Below this is a filter bar and a list of courses. The selected course is 'Lecture 148161116', 'Advanced Inorganic and Materials Chemistry (MN-C-A-AC) [C\_3Bel]', with 2 SH credits and lecturers Wickleder, Mathias; Ilyas, Shaista; Logemann, Christian Peter; Mathur, Sanjay; and van Gerven, David Jan. The next date is 23 OCT 2025, 10:00 - 12:00 o'clock. A red arrow points from the 'Lecture' link in the breadcrumb to a 'Go to course registration' button, which is also circled in red. A 'Course open for registration' status is shown above the button.

Click on 'Lecture' to see the available lectures. In the Basic Modules, there is only one lecture, but e.g. in the Research Focus Modules you will have a choice of several.

Course open for registration

[Go to course registration](#)

Modules usually consist of different sections, e.g.: one lecture and one seminar. To study a module this semester, you must register for all its courses via KLIPS.

# Please remember!

- Only choose the modules that you want to study in the current semester.
- If you change your mind, de-register from the courses.
- To deregister from a whole module, please also contact the Examination Office ([master-chemistry@uni-koeln.de](mailto:master-chemistry@uni-koeln.de)).
- KLIPS Support also provides useful information on course registration and a variety of other KLIPS-related topics: <https://klips2-support.uni-koeln.de/en/students-new-design>

# Contact: KLIPS 2.0

Problems with registration in Klips 2.0 for modules or exams?  
Please contact the **Examination Office**:

**Jennifer Hagemann**

[master-chemistry@uni-koeln.de](mailto:master-chemistry@uni-koeln.de)

Room HS 119

Tel. +49 221 470 3935

# ILIAS e-Learning Platform

<https://www.ilias.uni-koeln.de>

- If subscribed to a course in KLIPS, subscription to the corresponding ILIAS course is automatic.
- Stay patient if content is not online (yet)
- ILIAS provides you with information and material relevant for the running courses.
  - Contact your lecturer if you experience any difficulties in finding your course or signing in.

# ILIAS e-Learning Plattform

<https://www.ilias.uni-koeln.de>



The screenshot shows the top navigation bar of the ILIAS platform. On the left is the University of Cologne logo. The text 'Universität zu Köln' is displayed. On the right, there are links for 'Help', 'Language' (with a dropdown arrow), and 'Login'. Below this, the text 'E-Learning an der Universität zu Köln' is centered. At the bottom of the header, there are two dropdown menus labeled 'Repository' and 'Support'.








*Repository*

## Repository

Willkommen auf der E-Learning-Plattform der Universität zu Köln

Alle verfügbaren E-Learning-Angebote finden Sie in den entsprechenden Kategorien des Magazins, das nach den jeweiligen Fakultäten und Fachbereichen geordnet ist. Die Kurse zu Ihren Lehrveranstaltungen finden Sie unter "Veranstaltungen".

### CATEGORIES

-  **Veranstaltungen**  
Alle E-Learning-Kurse geordnet nach Semestern  
*To access this item you need to be logged in and to have appropriate permissions.* 
-  **WiSo**  
eLearning-Angebote der Wirtschafts- und Sozialwissenschaftlichen Fakultät 
-  **Rechtswissenschaften**  
weitere E-Learning-Angebote der Rechtswissenschaftlichen Fakultät
-  **Medizin** 

# ILIAS e-Learning Plattform



Universität zu Köln

ILIAS e-Learning an der Universität zu Köln

Persönlicher Schreibtisch ▾ Magazin ▾ Support ▾

✉ 🔍 Hilfe 👤 ⚙️

## Übersicht

Aktionen ▾

### Neuigkeiten - Letzte Woche ⚙️

Kurs: [SoSe20] Analytik und Spektroskopie I (MN-C-AS I) [C\_3Bel]  
Es wurden 5 Dateien hinzugefügt.

Forum: Diskussionsforum  
12 Beiträge hinzugefügt.



### Ausgewählte Angebote ⚙️

Department für Chemie



[SoSe20] Analytik und Spektroskopie I (MN-C-AS I) [C\_3Bel]



[SoSe20] Green Chemistry - Nachhaltigkeit in der Chemie, Studium Integrale [C\_3Bel]



[SoSe20] Praktikum zum Wahlpflichtfach Organische Chemie (MN-C-WP-OC)



[SoSe20] Switching Molecules Trough External Triggers (MN-C-P-OC)



[SoSe20] Wahlpflichtfach Organische Chemie (MN-C-WP-OC)



### Kalender ⚙️

◀ Apr 2020 ▶

Mo	Di	Mi	Do	Fr	Sa	So
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

iCal

### Mail ⚙️

0 Mail(s)

### Notizen ⚙️

0 Notizen

# ILIAS e-Learning Plattform

 Universität zu Köln ✉ 🔍 Hilfe  ⚙

E-Learning an der Universität zu Köln

**Persönlicher Schreibtisch** ▾ **Magazin** ▾ **Support** ▾

*Magazin > Veranstaltungen > Sommersemester 2020 KLIPS > Mathematisch-Naturwissenschaftliche Fakultät > Department für Chemie > [SoSe20] Analytik und Spektroskopie I (MN-C-AS I) [C\_3Bel]*

## **[SoSe20] Analytik und Spektroskopie I (MN-C-AS I)** **Aktionen** ▾

### **[C\_3Bel]**

Vortragende/r: Schäfer, Mathias Otto Wilhelm; Schlörer, Nils; Giernoth, Ralf Wolfgang

**Inhalt** Info Einstellungen Mitglieder Metadaten Export Rechte Elektronischer Semesterapparat Voransicht als Mitglied aktivieren ▶

Zeigen Verwalten Sortierung Seite gestalten

### INHALT

 001 Videobotschaft der Dozenten ▾

 002 Bitte zuerst lesen!  
R. Giernoth ▾

 01 UV/Vis-Spektroskopie  
R. Giernoth ▾

Neues Objekt hinzufügen ▾

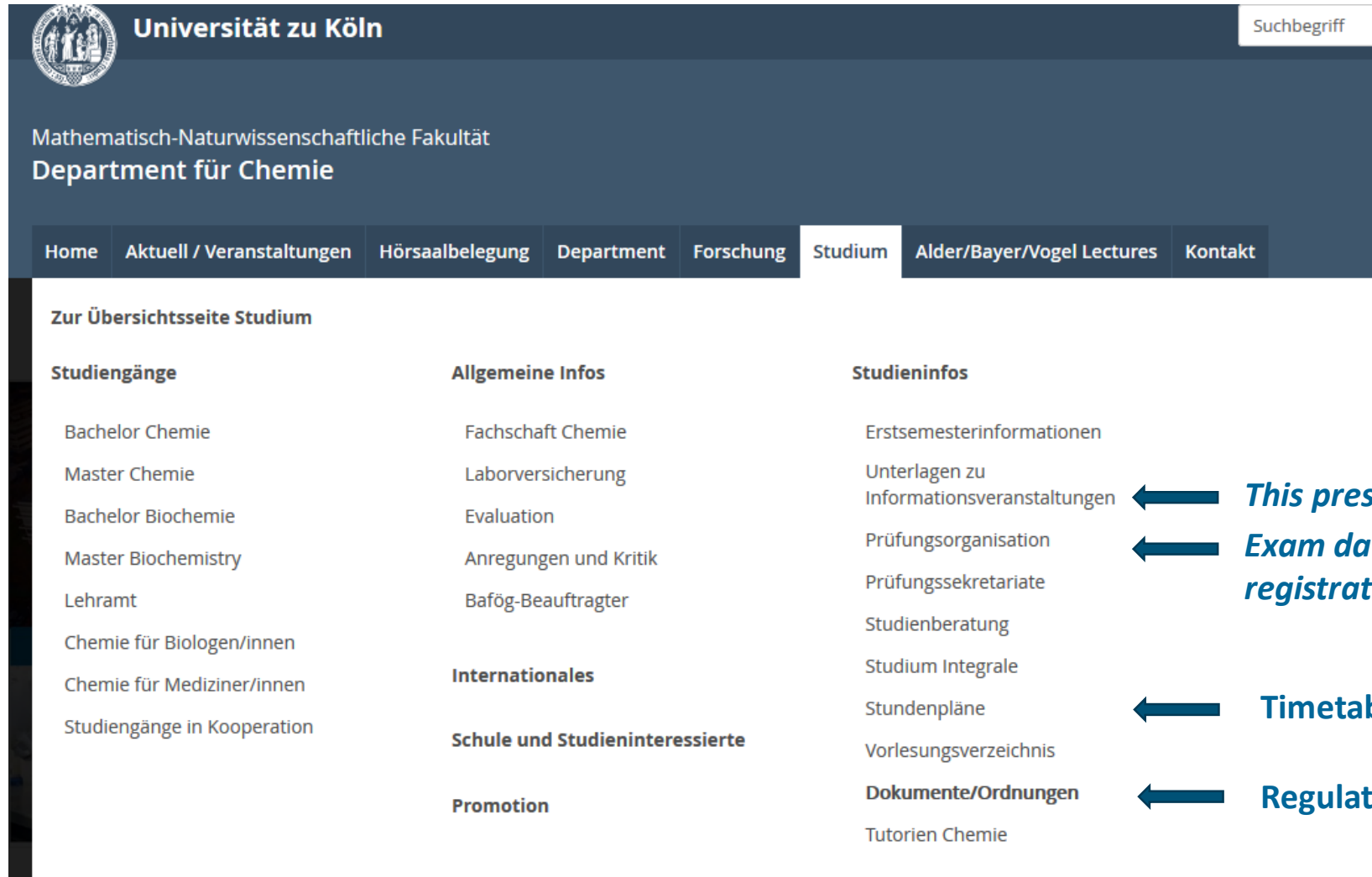
#### Kalender ⚙

◀ Apr 2020 ▶

Mo	Di	Mi	Do	Fr	Sa	So
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<b>20</b>	21	22	23	24	25	26
27	28	29	30			

**iCal**

# How to find information



The screenshot shows the website for the Department of Chemistry at the University of Cologne. The navigation menu is highlighted, with 'Studium' selected. The main content area is divided into three columns: Studiengänge, Allgemeine Infos, and Studieninfos. Arrows point from specific items in the Studieninfos column to external information: 'Informationsveranstaltungen' to 'This presentation', 'Prüfungsorganisation' to 'Exam dates, registration periods', 'Stundenpläne' to 'Timetable', and 'Dokumente/Ordnungen' to 'Regulations'.

Suchbegriff

Universität zu Köln

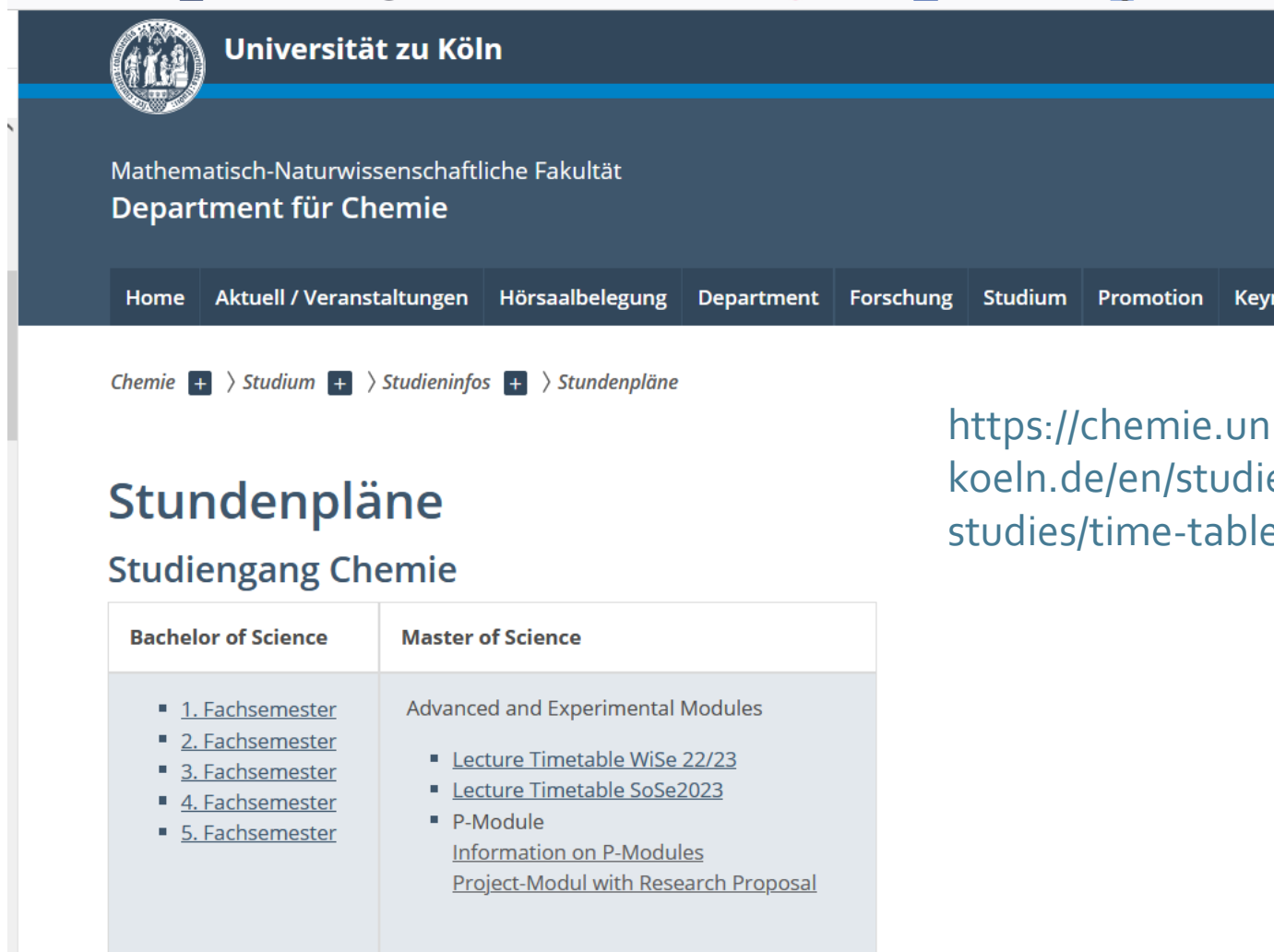
Mathematisch-Naturwissenschaftliche Fakultät  
Department für Chemie

Home | Aktuell / Veranstaltungen | Hörsaalbelegung | Department | Forschung | **Studium** | Alder/Bayer/Vogel Lectures | Kontakt


Zur Übersichtsseite Studium

Studiengänge	Allgemeine Infos	Studieninfos
Bachelor Chemie	Fachschaft Chemie	Erstsemesterinformationen
Master Chemie	Laborversicherung	Unterlagen zu Informationsveranstaltungen ← <i>This presentation</i>
Bachelor Biochemie	Evaluation	Prüfungsorganisation ← <i>Exam dates, registration periods</i>
Master Biochemistry	Anregungen und Kritik	Prüfungssekretariate
Lehramt	Bafög-Beauftragter	Studienberatung
Chemie für Biologen/innen		Studium Integrale
Chemie für Mediziner/innen	<b>Internationales</b>	Stundenpläne ← <b>Timetable</b>
Studiengänge in Kooperation	<b>Schule und Studieninteressierte</b>	Vorlesungsverzeichnis
	<b>Promotion</b>	<b>Dokumente/Ordnungen</b> ← <b>Regulations</b>
		Tutorien Chemie

# Lecture Timetables






The screenshot shows the website for the Department of Chemistry at the University of Cologne. The header includes the university logo and name, the faculty name, and a navigation menu. The breadcrumb trail indicates the current page is 'Stundenpläne' under 'Studieninfos'. The main heading is 'Stundenpläne Studiengang Chemie'. Below this, there are two columns: 'Bachelor of Science' and 'Master of Science'. The Bachelor column lists five semesters, and the Master column lists advanced and experimental modules, including lecture timetables for WiSe 22/23 and SoSe 2023, as well as P-Module information and a research proposal module.

 **Universität zu Köln**

Mathematisch-Naturwissenschaftliche Fakultät  
**Department für Chemie**

Home | **Aktuell / Veranstaltungen** | Hörsaalbelegung | Department | Forschung | Studium | Promotion | Keyn

*Chemie*  > *Studium*  > *Studieninfos*  > *Stundenpläne*

## Stundenpläne

### Studiengang Chemie

Bachelor of Science	Master of Science
<ul style="list-style-type: none"><li><a href="#">1. Fachsemester</a></li><li><a href="#">2. Fachsemester</a></li><li><a href="#">3. Fachsemester</a></li><li><a href="#">4. Fachsemester</a></li><li><a href="#">5. Fachsemester</a></li></ul>	<p>Advanced and Experimental Modules</p> <ul style="list-style-type: none"><li><a href="#">Lecture Timetable WiSe 22/23</a></li><li><a href="#">Lecture Timetable SoSe2023</a></li><li>P-Module <a href="#">Information on P-Modules</a> <a href="#">Project-Modul with Research Proposal</a></li></ul>

<https://chemie.uni-koeln.de/en/studies/information-on-studies/time-tables>

# The Mentor Program

- Each MSc student is assigned to mentor (professor of the Chemistry department)
- can be contacted for individual study-related counseling
- first contact for external modules

Dementoren:



Mentoren:



7451507	Dumele	7340327	Lindfors
7405257	Meerholz	7446261	Schäfer
7405354	Ruschewitz	7378444	Wickleder
7448509	Ravat	7393018	Kath-Schorr
7394550	Ruschewitz	7377827	Kath-Schorr
7410158	Schubert	7405167	Gather
7392909	Griesbeck	7354811	Gather
7377816	Milow	7377780	Milow
7412192	Meerholz	7377824	Dumele
7434468	Dumele	7406495	Kath-Schorr
7446243	Ravat	7392717	Klein
7382018	Ravat	7405680	Klein
7432118	Schäfer	7406143	Kath-Schorr
7380940	Schubert	7405321	Milow
7449390	Hanrath	7377858	Schäfer
7405419	Ruschewitz	7446597	Hanrath
7393274	Griesbeck	7367099	Mathur
7370869	Griesbeck	7378185	Wickleder

# Fachschaft (student council)



Fachschaft Chemie  
Universität zu Köln

<https://fs-chemie.uni-koeln.de/>

# Go abroad!

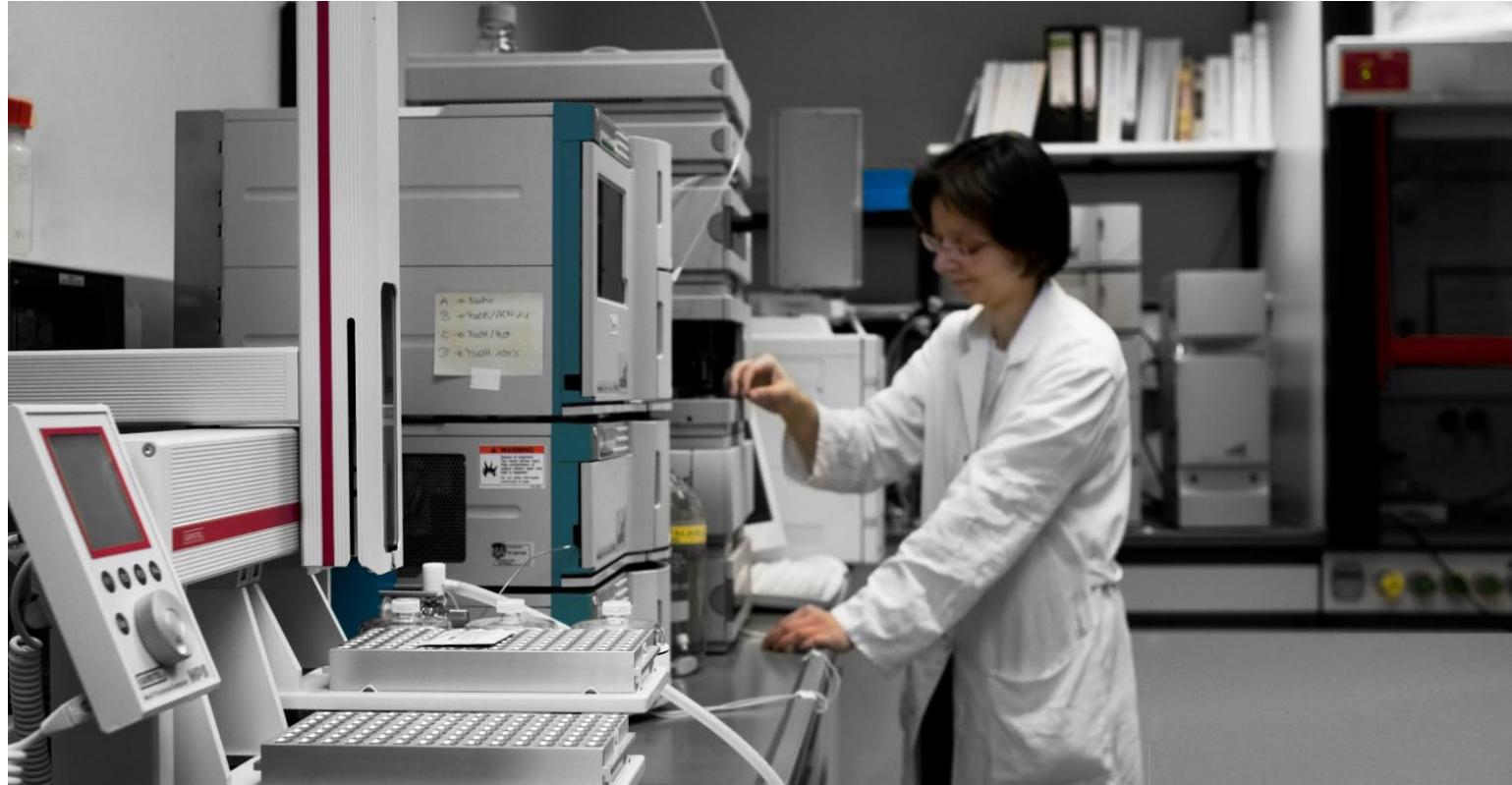
- Start collecting information and get active at least one year in advance.
- Ideal: SM- or LM-modules at other universities

Contact: Dr. Heike Henneken

## Study Abroad



# Laboratory liability Insurance



We strongly recommend that all students take out their own private (laboratory) liability insurance or secure insurance cover through their parents.

Find out more:

<https://chemie.uni-koeln.de/studium/allgemeine-infos/laborversicherung>

# Safety facilities



**WE WISH YOU SUCCESS AND FUN  
WITH THE MASTER PROGRAM!**

