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HBC. HOCHSCHULE BIBERACH UNIVERSITY OF APPLIED SCIENCES

universität ulm

11th International Summer School
From Structural Biology to Drug Discovery

This year‘s topic:

From B 

n to Bedside

24th to 28th August 2026 in Ulm

University of Ulm, Ulm, Germany

University of Applied Biosciences, Biberach, Germany

Contact:

Prof. Mike-Andrew Westhoff

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Registration form

Summer School

„From screen to bedside“

24.08. - 28.08.2026

in Ulm

I hereby submit my binding application for the Summer School in Ulm in August 2026. The course will be taught in German and English depending on the lecturer. Food and accommodation not included.

Name: ……

Address: ……

E-mail: ……

Phone: ……

Degree program: ……

Date:…… signature:……

Please send the signed registration form back to

mike-andrew.westhoff@uni-ulm.de

11th International Summer School 2026: From Structural Biology to Drug Discovery

This year, our Summer School will take place in Ulm — perhaps a slightly less exotic location than in previous years, but one with its own unique character. Known for its famous church spire and its strong academic environment, Ulm is also at the heart of a growing biotech and life science landscape, making it an ideal setting for this year's topic.

The theme of the Summer School reflects how modern biomedical research is changing. The old idea of going "from bench to bedside" no longer captures the full picture. Today, scientific discovery often begins on the screen: with digital models, computational analysis, artificial intelligence, and data-driven approaches. That is why this year's Summer School is titled **"From Screen to Bedside."**

Over five days, participants will follow the development of therapeutic ideas from their earliest conception to their possible application in medicine. The programme begins on **Day 1** with creativity in science, focusing on how to find, shape, and communicate a meaningful research project. On **Day 2**, the focus shifts to proteins, their structure, and their central role in biological research, combined with hands-on work in structural modelling. **Day 3** explores the growing importance of large data sets and bioinformatics, and how computational tools are shaping the future of science. On **Day 4**, participants will engage with ethical questions in clinical research, learn about clinical trial design, and discuss the role of artificial intelligence in scientific innovation. Finally, **Day 5** will look beyond the laboratory and university, addressing how academia and industry differ, where they can collaborate, and how such partnerships can help bring scientific discoveries closer to real-world application.

We are especially pleased that the founder of the Summer School, **Professor Uwe Knippschild**, and his experienced team will return to support this new edition and accompany its updated format.

The Summer School is designed for students at every level of their education who are interested in modern biomedical science, translational research, and the interface between basic research, computation, and clinical application. Alongside lectures and workshops, participants will have the opportunity to meet researchers from academia and industry, exchange ideas, and build new connections.

Requirements and practical information: Participants are asked to bring their own notebook with pre-installed open-access software; download links and further instructions will be communicated in advance. Proficiency in both **English and German** is strongly advised. Most importantly, participants should bring an open and inquisitive mind. Please note that **food and accommodation will not be provided**. However, the university food court, as well as bakeries and supermarkets, are all within walking distance.

Preliminary Program

Monday
10:00 – 12:00
Arrival, organizational matters, getting to know each other
12:00 – 14:00
Lunch break
14:00 – 17:00
Lecture:
Andrew Westhoff
Creativity in Science – How to Find a Project

Tuesday
09:00 – 10:30
Lecture:
Uwe Knippschild
Casein Kinases – Protein Structure and Signal Transduction
10:30 – 10:45
Coffee break
10:45 – 17:00
Workshop:
Modeling Protein Structures
(Lunch break can be arranged flexibly with supervisors)

Wednesday
09:00 – 10:30
Lecture:
Hannah Strobel
The Role of Connexin Signaling in Glioblastoma
10:30 – 10:45
Coffee break
10:45 – 17:00
Workshop:
How to Deal with Large Data? – The Future is Bioinformatics
(Lunch break can be arranged flexibly with supervisors)

Thursday
09:00 – 10:30
Lecture:
Ethical Considerations in Clinical Trials
10:30 – 10:45
Coffee break
10:45 – 11:30
Lecture:
Structure and Conduct of a Clinical Trial
11:30 – 12:45
Lecture:
AI in Science
12:45 – 14:15
Lunch break
14:15 – 17:00
Workshop:
AI in Science – Design a Project

Friday
09:00 – 12:00
Short talks & presentations from university and industry
(former students, professors, coordinators)
Topic:
Differences Between Industry and Academia & Opportunities for Collaboration
From 12:00 onwards
Joint barbecue, networking opportunity & farewell