

# Presentation of the elective module

## 9<sup>th</sup> Summer School "From protein structure to drug design"

27.08. -03.09.2024

in Anavyssos near Athens, Greece

*Please find attached some additional information about the Summer School. We would be pleased if we have aroused your interest.. There are still a few places available. Please return the signed registration form to Uwe Knippschild.*

Yours sincerely

*Prof. Uwe Knippschild and Prof. Bernhard Eickmanns*

### **Summer School: "From protein structure to drug design".**

Structural biology has become a very important and diverse field of research, using state-of-the-art techniques to obtain information about the structure and dynamics of medically relevant molecules, mainly proteins, which allow conclusions about their function, but can also be used for drug design.

The aim of the international summer school is to familiarize students with the complex research field of (protein) structural biology in theory and practice. To achieve this, the course program will consist of several blocks:- Qualified scientists from different disciplines will give introductory lectures (part 1). The students themselves will present papers on their chosen topics. - (Part 2). Students will also have the opportunity to visit research institutes - (Part 3), hands-on training in the use of software programs to visualize enzyme-inhibitor interactions. The course content of the summer school can be divided into the topics protein purification, structural biology, drug discovery and practical applications in drug discovery.

After successful participation in the summer school, students will have in-depth knowledge of protein production methods, understand the relationships between protein structure and function, have mastered in silico methods for visualizing protein-ligand interactions, and learned how to determine protein structures using X-ray structural analysis.

The organizers of the proposed summer school have a long-standing scientific cooperation as well as the joint organization and management of past international symposia and summer schools. In addition to the scientific program, cultural information events are planned.



HELLENIC REPUBLIC

National and Kapodistrian  
University of Athens

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# 9th International Summer School

„From Structural Biology  
to Drug Discovery“

Aug. 27<sup>th</sup> – Sept. 3<sup>th</sup> 2024

in Anavyssos near Athens, GREECE

University of Ulm, Ulm, Germany

University of Applied Biosciences, Biberach, Germany

National and Kapodistrian University of Athens  
(Biology and Pharmacy Department)

## Organization and Responsibility:

Uwe Knippschild, Bernhard Eikmanns, Chrystelle Mavoungou &  
Constantinos Vorgias



**Registration form**

**Summer School**

**„From protein structure to drug design“**

**27.08. - 03.09.2024**

**in Anavyssos near Athens, Greece**

Hereby I register **obligatory** for the Summer School in Athens in August/September 2024. I will organize my flights independently.

The registration fee of is due on 15.03.2024.

Name: .....

Address: .....

E-mail: .....

Phone: .....

Degree program: .....

Date:..... signature:.....

Please send the signed registration form back to Prof. Uwe Knippschild:

**Registration & Info:**

**uwe.knippschild@uniklinik-ulm.de, phone: 0731 500 53580**



## Preliminary program

- Each student has to present a presentation within the field of protein structure and drug design.
- There will be presentations of invited speakers, among them
  - Prof. Franz Oswald (Ulm, Germany)
  - PD Dr. Bernd Baumann (Ulm, Germany)
  - Prof. Constantinos Vorgias (Athens, Greece)
  - Prof. Emanuel Mikros (Athens, Greece)
  - Prof. Chrystelle Mavoungou (Biberach, Germany)
  - Prof. Bernhard Eikmanns (Ulm, Germany)
  - Prof. Uwe Knippschild (Ulm, Germany)
  - Dr. Robert Janovski (München, Germany)
- Practical training course with MAESTRO software at the University of Athens
- Practical training course with PyMol
- Practical training course with COOT
- Symposium with Greek Professors and students at the University of Athens
- Planned social events (sightseeing: old town of Athens, sunset Cap Suonio, trip to local beaches, Greek evening)



### 8. INTERNATIONAL SUMMER SCHOOL

