



Elitenetzwerk  
Bayern



FRIEDRICH-ALEXANDER  
UNIVERSITÄT  
ERLANGEN-NÜRNBERG  
NATURWISSENSCHAFTLICHE  
FAKULTÄT

## Requirements

- Completed bachelor's degree in life science (e.g. Biology, Molecular Medicine, Integrated Life Sciences, Cell Biology, Biotechnology)
- Proof of knowledge of English language (upper intermediate level B2 / IELTS 5.5)
- Basic knowledge in cell & molecular biology and immunology
- Practical laboratory experience is recommended
- Enthusiasm for immunological questions
- Strong self motivation and teamwork

## Application

Admission to the master's program is based on a 2-step assessment procedure:

### 1<sup>st</sup> step:

Suitability is determined on the basis of your BSc grades, previous knowledge and relevant practical experience.

### 2<sup>nd</sup> step:

The admissions committee assesses the suitability of the short-listed candidates in an interview.

The application period ends on July 15<sup>th</sup> for the following winter semester.

Applicants from non-European countries are recommended to apply by the end of May at the latest.

Apply online at [www.campo.fau.de](http://www.campo.fau.de)



Contact



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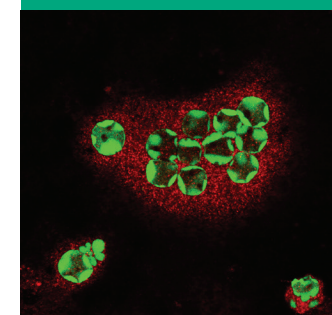
[www.iimmune.nat.fau.de](http://www.iimmune.nat.fau.de)



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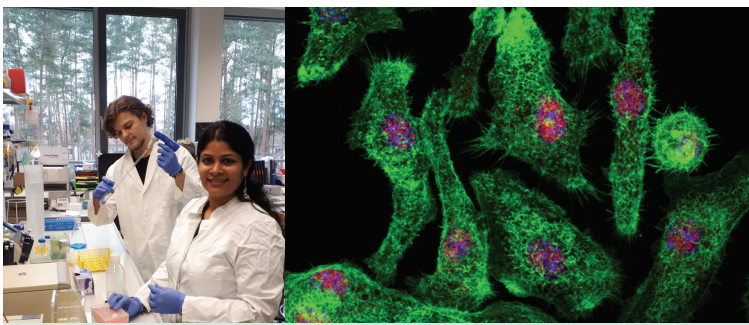
## Elite Master Program

# Integrated Immunology



## iImmune

[www.iimmune.nat.fau.de](http://www.iimmune.nat.fau.de)



## Why study Integrated Immunology?

Aging society is increasingly affected by infectious diseases, as well as chronic autoimmune and allergic diseases. The international master's program "Integrated Immunology" (iImmune) was jointly initiated by the Department of Biology and the Faculty of Medicine at the Friedrich-Alexander University (FAU) and is supported by the Elite Network of Bavaria. The program focuses on integrating basic and clinical immunology training in a research-oriented manner. The FAU has a strong research focus on immunological research, which is reflected via collaboration with research institutions and PhD graduate schools. The integration of clinical modules allows a bench to bedside approach. The program is also open to medical students.

## Aims of the Program

- Provide a comprehensive education in immunology at the interface between biology and medicine
- Train students with excellent supervision, including small group teaching and modern teaching concepts such as problem-oriented learning (POL)
- Provide a research-oriented education, comprising basic and clinical immunology, cell biology, microbiology and virology

## The Curriculum (1<sup>st</sup> year)

### Cell & Molecular Biology Lectures

provide you with the necessary basic knowledge to understand the fundamental cell functions such as phagocytosis and extravasation and lays the groundwork for understanding the immune response.

### Basic Immunology Lectures

offer you basic insights into the world of the immune system which protects the body against invading pathogens.

### Integrated laboratory courses

will provide you with basic and advanced molecular biological and immunological techniques as well as analytical methods.

### Problem-oriented learning tutorials (POL)

focus on developing your problem solving skills, both independently and within a team. You will research and debate with your classmates on immunological questions and present your findings weekly.

### Seminars

give you the chance to extensively research a topic of your choice and present a publication to your classmates.

### Translational Immunology Lectures

give you an extensive insight into the immunological defences against bacteria, viruses and vaccination strategies.

### Clinical Immunology Module

Lectures and bedside visits give you direct insights into current clinical approaches to treat infections and immune diseases.

## The Curriculum (2<sup>nd</sup> year)

### Internal Retreat

At the beginning of the 3<sup>rd</sup> semester the professors, external advisory board and your colleagues meet for scientific talks to discuss career possibilities and to evaluate your first academic year.

### 2-3 month International Internship

will allow you to gain further practical experience from an international industrial or academic research laboratory. Full support is given before and during your internship.

### Theoretical Project Work

to introduce you into your master's thesis, you will write an essay in the form of a review or a grant application.

### Master Thesis

You will work for 6 months on your master's thesis in a laboratory of your choice.

### Soft Skills

FAU, Elite Network Bayern and Volkshochschule Bayern offer an extensive range of key qualifications including language courses and subject specific topics. The program also offers workshops in good scientific practice and seminars in current immunological research.

## Career Perspectives

Immunology is an up-and-coming research field which offers diverse employment opportunities. This master's degree uniquely prepares you for both a successful academic or industrial career. Using your acquired knowledge and contacts, you are also optimally positioned for a doctoral degree (PhD).