

ABOUT THE INSTITUTE

Founded in 1973, the Max Planck Institute of Biochemistry in Martinsried (near Munich) is one of the world's leading research institutes in the fields of biochemistry, cell and structural biology, as well as biomedical research.

With 750 employees in research, service and administration, it is one of the largest institutes of the Max Planck Society for the Advancement of Science. The institute features approximately 350 researchers with a broad range of expertise and offers many opportunities for cooperation – crucial for new discoveries.

FACTS AND FIGURES

MORE THAN **750** EMPLOYEES

MORE THAN **50** NATIONALITIES

350 SCIENTISTS

9 DEPARTMENTS

15 INDEPENDENT RESEARCH GROUPS

LIFE SCIENCE CAMPUS MARTINSRIED

The Max Planck Institute of Biochemistry is located on the Life Science Campus Martinsried in the immediate vicinity of the Max Planck Institute for Biological Intelligence, institutes of the Ludwig-Maximilians-Universität Munich (LMU) and the Biotechnology Innovation and Start-up Center (IZB). Today, the Life Science Campus is one of the largest centers for basic research in Europe, where teaching, clinical research and technological innovation are brought together.

www.campusmartinsried.de

MAX PLANCK INSTITUTE
OF BIOCHEMISTRY



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MAX PLANCK INSTITUTE OF BIOCHEMISTRY

Cutting-edge research
in Martinsried

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Stand: 2024



PROTEINS
ALWAYS IN FOCUS

OUR RESEARCH QUESTIONS

What patterns are hidden behind health and disease?

Department Machine Learning and Systems Biology
Prof. Dr. Karsten Borgwardt

How are viruses composed?

Department Cell and Virus Structure
Dr. John Briggs

How does the cell's RNA quality management work?

Department Structural Cell Biology
Prof. Dr. Elena Conti

How do cells interact with their environment?

Department Molecular Medicine
Prof. Dr. Reinhard Fässler

How do proteins fold?

Department Cellular Biochemistry
Prof. Dr. Franz-Ulrich Hartl

What does the cell's protein composition look like?

Department Proteomics and Signal Transduction
Prof. Dr. Matthias Mann

How are timing, localization and activity of proteins controlled?

Department Molecular Machines and Signaling
Prof. Brenda Schulman, Ph.D.

What is the minimal equipment of a cell?

Department Cellular and Molecular Biophysics
Prof. Dr. Petra Schwille

What happens at the beginning of life?

Department Totipotency
Prof. Kikue Tachibana, Ph.D.

THE EXCITING WORLD OF BIOCHEMISTRY

Biochemistry is the study of chemical processes in living organisms, from single-cell organisms to human. Every movement, thought, and process in the body is based on biochemistry. Thus, studying biochemical processes contributes significantly to understanding the microcosm of life and how it works.

In addition to metabolism and signaling in the organism, biomolecules – their structure, function and interactions – are the focus of our research. We pay particular attention to protein molecules.

These biological macromolecules are found in every cell. They have extremely diverse, vital functions and serve as natural, highly complex molecular machines.

We study various biochemical processes at completely different, complementary levels. This way, we create the fundamental knowledge to advance applications, e.g. for clinical research.

EVENTS

Our institute regularly organizes events for the public. More information can be found at:

www.biochem.mpg.de/news/publicseminars

CAREER SUPPORT

The training of young talent is an important key element for successful research.

HANDS-ON LABORATORY

The hands-on Laboratory MaxLab of the Max Planck Institutes of Biochemistry and for Biological Intelligence offers various on-site courses (registration required) and online courses. This is how we share the fascination of scientific research with young people and the public.

www.biochem.mpg.de/en/maxlab

VOCATIONAL TRAINING

Together with the Max Planck Institute for Biological Intelligence, we offer apprenticeships in our scientific, administrative and technical facilities.

www.biochem.mpg.de/training

GRADUATE SCHOOL

The *International Max Planck Research School for Molecules of Life* offers young researchers outstanding conditions for their doctoral thesis and thus promotes their career in a scientific environment.

www.imprs-ml.mpg.de

AFTER COMPLETING THE PHD

After completing the PhD, we offer many exciting projects for postdocs. They learn how to work more independently under the supervision of the directors or research group leaders. At this stage of their career, they gain the ability to work on their research questions autonomously.

www.biochem.mpg.de/en/postdocs

INDEPENDENT RESEARCH GROUPS

Following a rigorous selection process, we enable talented and ambitious postdocs to set up their own research group and establish themselves in their field of research.

www.biochem.mpg.de/career/independent-research-group

