

A comprehensive, interactive introduction to modern biotechnology!

Virtual Program + In-Person Networking Evening



Introduction

The **Bio^M Crash Course Biotech I (Beginner)** is a compact, practice-oriented introduction to modern biotechnology. Through **five interactive virtual sessions** and an **in-person networking evening**, participants gain a structured overview of key concepts, laboratory technologies, development processes, and emerging innovation fields such as AI in drug discovery.

The course is designed to make biotechnology accessible for newcomers and non-scientific professionals while offering fresh perspectives for those with scientific backgrounds.

Practical Information

Format: 5 virtual sessions via Zoom Meetings® plus 1 onsite networking evening with [MAxL lab tour](#)

Dates: 15 April – 13 May 2026 (Wednesdays; 4.00 – 6.30 pm)

Networking Evening: 20 May 2026; 4.00 – 7.00 pm @ BioM, Am Klopferspitz 19a, Martinsried

Certificate: All participants receive a Certificate of Attendance (including all attended sessions)

Language: Englisch

Participation Fees:

Early Bird: 750 € until 1 April 2026 | **Regular:** 850 € from 2 April 2026 - all prices are excl. VAT

Group Discount: available for two or more participants from the same company

Target Groups

The course provides theoretical background knowledge in the field of biotechnology and is aimed at anyone interested in the subject, particularly:

- Early-career scientists and young professionals
- Career changers entering life sciences
- Professionals in biotech, pharma and medtech (BD, PM, marketing)
- Start-up teams in early development phases
- Investors, analysts & tech transfer managers
- Students and graduates interested in biotechnology fundamentals
- Participants do not need prior laboratory or biology experience

Your Advantages

- **Practice-oriented learning** guided by top experts
- **Compact, structured knowledge** for fast orientation
- **Interactive elements** enabling active learning
- **Insights across science, technology & regulation**
- **Access to experienced speakers from academia, start-ups & industry**
- **Networking opportunities** with peers, experts & Bio^M community
- **Certificate of Attendance** to document participation
- **Access to course materials**

Session Overview

Learn from the best in the field, from speakers with years of experience in biopharmaceuticals and healthcare who specialize in various areas of biotechnology. The course topics are as follows:

Date	Topic	Speakers	Format
15 April	Introduction to Biotechnology & Application Areas	Prof. Dr. Ralf Huss (Bio ^M)	Virtual (Zoom)
22 April	Molecular Biology & Biochemical Fundamentals	Prof. Dr. Wolfgang Enard (LMU Munich)	Virtual (Zoom)
29 April	Essential Technologies: PCR, Cell Culture, CRISPR, Sequencing, Protein Analytics	Prof. Dr. Axel Imhof (LMU Munich)	Virtual (Zoom)
06 May	Product Development, Clinical Trials & Regulatory Affairs	Dr. Samson Fung (Fung Consulting)	Virtual (Zoom)
13 May	Insights into AI-Supported Drug Development	Tim Kucera (Bio ^M); Prof. Dr. Lukas Milles (LMU Munich); Dr. Christian Mertes (OmicsDiscoveries)	Virtual (Zoom)
20 May	In-Person Networking Evening & MAXL Lab Tour	Bio ^M Team & MAXL Representatives	On-site (Martinsried)

Timeframe per Session

- 4.00 – 4.10 pm** | Welcome & introduction by Bio^M
- 4.10 – 5.20 pm** | Expert keynote (60–70 min)
- 5.20 – 5.30 pm** | Break
- 5.30 – 6.00 pm** | Interactive segment (poll, quiz, case study, mini-exercise)
- 6.00 – 6.20 pm** | Q&A / discussion
- 6.20 – 6.30 pm** | Wrap-up & preview of next session

Program

Virtual Session 1 – 15 April 2026

Topic: *Introduction to Biotechnology & Application Areas*

Outline: This session provides an overview of biotechnology as a key technology in the life sciences sector. The most important market segments, fields of application and current trends are presented in order to give participants a solid foundation for the subsequent modules.

Speaker: Prof. Dr. Ralf Huss, Bio^M Biotech Cluster Development GmbH



Virtual Session 2 – 22 April 2026

Topic: *Molecular Biology & Biochemical Fundamentals*

Outline: Participants will learn the biological and chemical fundamentals that are essential for understanding biotechnological processes. The focus is on DNA/RNA, proteins and cell biology.

Speaker: Prof. Dr. Wolfgang Enard, Ludwig-Maximilians University Munich



Virtual Session 3 – 29 April 2026

Topic: *Essential technologies (PCR, Cell Culture, CRISPR, Sequencing, Protein Analytics)*

Outline: This session covers the most important experimental methods in modern biotechnology. Participants will gain insights into the practical application and significance of these techniques.

Speaker: Prof. Dr. Axel Imhof, Ludwig-Maximilians University Munich



Virtual Session 4 – 06 May 2026

Topic: *Product development/clinical trials, regulatory affairs & application*

Outline: From idea to approval: This session shows the path of a biotechnological product through the development phases and highlights regulatory requirements.

Speaker: Dr. med. Samson Fung, Fung Consulting Healthcare & Life Sciences



Program (Part 2)

Virtual Session 5 – 13 May 2026

Topic: *Insights into AI-supported drug development*

Outline: Artificial intelligence is revolutionising drug development.

Participants will learn how AI tools are used in research and what opportunities this opens up.

Speakers:

- **Tim Kucera, Project Management (AI Accubator), Bio^M**
- **Prof. Dr. Lukas Milles, Ludwig Maximilian University Munich**
- **Dr. Christian Mertes, Co-Founder & CTO, OmicsDiscoveries**



(c) M. Possert / MPI of Biochemistry

In-Person Networking Evening – 20 May 2026

Outline:

A practical conclusion with a visit at the [MAxL](#) Laboratory – Bio^M's unique co-creation start-up incubator for the medicine of the future and life sciences in Martinsried/Munich, Europe's hotspot for biotechnology. The aim is to link theoretical content with real-world applications and promote networking.

Facts:

- **Location:** Bio^M (3rd floor) & MAxL Lab (ground floor), Am Klopferspitz 19a, IZB West II, 82152 Martinsried
- **Time:** 4:00–7:00 pm CET
- **Program (planned excerpt):**
 - Welcome at Bio^M
 - Wrap-Up Crash Course
 - MAxL Site Visit: including Lab Tour
 - Networking Reception
 - Wrap-up, Certificates & Goodbye

More details coming soon.

Organisation

Melanie Greitl | Bio^M Biotech Cluster Development GmbH | greitl@bio-m.org

Speaker Profiles

Virtual Session 1: Introduction to Biotechnology & Application Areas

Speaker: Prof. Dr. Ralf Huss, Bio^M Biotech Cluster Development GmbH

Ralf Huss is the managing director and CEO of Bio^M Biotech Cluster Development GmbH, headquartered in Martinsried near Munich and is also the spokesperson of the Bavarian Biotechnology Cluster. Dr. Huss is a trained pathologist with many years of experience in leading positions in academia, pharma / diagnostic industry and biotechnology, also as a co-founder of early startups. Before assuming the position at Bio^M, Professor Huss was the founding director of the Institute of Digital Medicine at the University of Augsburg and has authored numerous publications and books on the use of artificial intelligence and data in patient care but also biomedical research.

Virtual Session 2: Molecular Biology & Biochemical Fundamentals

Speaker: Prof. Dr. Wolfgang Enard, Ludwig-Maximilians University Munich

Prof. Dr. Wolfgang Enard has held the Chair of Anthropology and Human Genomics at LMU's Martinsried campus since 2013. There, he researches the molecular basis of human evolution, including its implications for biomedical issues. "Studying the diversity of life at the molecular level is not only fascinating, but also necessary for a better understanding of biology, disease, and human evolution," says the human geneticist. Using methods from genome and stem cell research, he compares humans with chimpanzees and other ape species. He is particularly interested in the FOXP2 protein, colloquially known as the "language gene": he is investigating the role it played in the evolution of speech and language.

Virtual Session 3: Essential technologies (PCR, cell culture, CRISPR, sequencing, Protein Analytics)

Speaker: Prof. Dr. Axel Imhof, Ludwig-Maximilians University Munich

Prof. Dr. Axel Imhof is a professor for protein analytics at the Biomedical Center of the Ludwig-Maximilians University of Munich (LMU) and the director of the Proteomics Core Facility of LMU's Biomedical Center. His lab is among the world leading groups for the characterization of chromatin bound proteins and the characterization of histone modifications using mass spectrometry. He is also a member of LMU's academic board for the EUGLOH consortium. Dr. Imhof has been a member of several national and international clusters of excellence and acts as academic editor for several scientific journals. He is a Co-speaker of the Core Facilities group of the German Society of Mass Spectrometry and an elected member of the European Molecular Biology Organization (EMBO).

Virtual Session 4: Product development/clinical trials, regulatory affairs & application

Speaker: Dr. med. Samson Fung, Fung Consulting Healthcare & Life Sciences

Samson Fung is an experienced clinician MD and C-level biotech executive/board member, with over 30 years of experience and leadership in oncology/immunology early and late phase clinical development, translational medicine, regulatory and medical affairs (FDA and EMA) and market access, biotech startups and advanced stages such as Micromet (acquired by Amgen), Morphosys, argenx as well as global peer pharmaceutical companies such as Roche, Novartis, Pharmacia/Pfizer, Novo Nordisk and AstraZeneca.

Virtual Session 5: Insights into AI-supported drug development

Speaker: Tim Kucera, Project Management (AI Accubator), Bio^M

Tim Kucera builds AI-native infrastructure for biological design. His work sits at the intersection of machine learning, structural biology, and systems engineering. Trained initially in molecular biology, he later moved into microfluidics and computational methods during his research at ETH Zurich and the Max Planck Institute of Biochemistry. Alongside his scientific work, he has built technology startups that translate scientific ideas into practical tools.

Today he leads the AI Accubator program at Bio^M, providing experimental validation of AI-generated molecule designs, and he is the founder of Imaginary Biolabs, where he develops computational infrastructure and machine learning tools to make biological design more accessible and scalable.

Speaker: Prof. Dr. Lukas Milles, Ludwig-Maximilians University Munich

PhD in single-molecule biophysics at LMU Munich with Hermann Gaub (2018), postdoctoral researcher at the Institute for Protein Design with David Baker at the University of Washington in Seattle (2019-2024). Since 2024, professor for computational biochemistry Gene Center, LMU Munich & Emmy Noether research group biomolecular design at the Max Planck Institute of Biochemistry.

Speaker: Dr. Christian Mertes, Co-Founder & CTO, OmicsDiscoveries

Dr. Christian Mertes is a bioinformatician and entrepreneur dedicated to increasing the diagnostic yield by expanding into multi-omics data. As Co-founder and CTO of OmicsDiscoveries, he leverages RNA sequencing to help clinicians diagnose rare diseases more effectively. His expertise is rooted in his development of the widely adopted tools OUTRIDER and FRASER, which have become global standards for detecting expression and splicing outliers in clinical workflows.

In addition, Dr. Mertes leads the Bavarian "Genomrechenzentrum" at TUM Klinikum as part of the national "Modellvorhaben Genomsequenzierung." Previously, as the workflow coordinator at the German Human Genome-Phenome Archive (GHGA), he led the alignment of standards and workflows. With this background, he combines deep technical knowledge with a mission to build secure, high-performance IT infrastructures that bridge the gap between research and patient care.