LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

MAX VON PETTENKOFER-INSTITUT
LEHRSTUHL MEDIZINISCHE MIKROBIOLOGIE UND KRANKENHAUSHYGIENE

***The Max von Pettenkofer Institute***

***Microbiology Seminar Series***

Date: **Wednesday, April 29, 2026**

Time: **05.00 pm sharp**

Location: **Lecture Hall MvPI (3rd floor)**

**Speaker:**

## Prof. Dr. Marco Galardini,

**Medizinische Hochschule Hannover**
**Excellence cluster Resist**

## Title: *On the usefulness of stamp collecting in modern microbiology*

"All science is either physics or stamp collecting." While Ernest Rutherford may have intended this as a slight against descriptive research, modern microbiology proves that sequencing bacterial genomes at scale is a powerful predictive engine for medicine. By applying computational biology to these vast genomic "stamp collections," we can identify the genetic drivers of pathogenicity and antimicrobial resistance. This data-driven approach facilitates real-time genomic epidemiology in hospitals and the design of precision therapeutics, such as antisense oligonucleotides. Ultimately, by integrating large-scale genomic variation with in-vitro evolution assays, we can transform descriptive data into a predictive framework for combating infectious disease.

Host: Prof. Dr. Carolin Wendling

This Seminar is registered with BLAEK (Bayerische Landesärztekammer) and authorized with one Training Point (Fortbildungspunkt).

Medical course leader: Prof. Dr. med. Sebastian Suerbaum, Max von Pettenkofer Institute, Pettenkoferstr. 9a, 80336 Munich