

## Université de Tours

The Université de Tours is in the very heart of the city of Tours, located in the Touraine Loire Valley. This area, called “the garden of France”, is well known for its vineyard and its historical patrimony (included on the UNESCO list of World Heritage sites). Tours is a human-sized cosmopolitan city offering a lifestyle closely linked to the French gastronomy (registered in the list of intangible cultural heritage of the UNESCO). At 55 minutes from Paris by TGV, Tours has also an airport with regular services to London.

The Université de Tours has built up long-standing expertise and reputation for excellence in infectious diseases, microbiology and immunology, which began notably with Philippe Maupas and the development of the first vaccine against hepatitis B. This expertise is based on a multidisciplinary network, the “Fédération de Recherche en Infectiologie or FÉRI”, involving 16 research units from universities located in the Centre-Val de Loire region (Tours, Orléans) or in neighboring regions (Poitiers, Angers, Limoges). Technical Research Organisations and the Tours University Hospital (CHU) are also strongly represented in the network through several joint research units. The FÉRI is focused on one shared goal: fighting pathogens and infectious diseases they cause

## Universitat Autònoma de Barcelona

Universitat Autònoma de Barcelona (UAB) is situated to the north of the historical city of Barcelona, the capital of the Catalonia region. Barcelona sits on the Mediterranean sea and has a history that dates back to Roman times. It has a strong cultural legacy and is well known for the buildings designed by Antoni Gaudí and Lluís Domènech i Montaner, which have been listed as UNESCO world heritage sites. The University is linked to the city by a regular train service and the city has an international airport with easy transport links to the rest of Europe.

UAB holds a leading position in the most prestigious and influential international university rankings. The veterinary school benefits from a very dynamic research environment constituted by numerous research centers devoted to animal health (CRESA-IRTA), biotechnology (IBB, IBEC, etc), and environmental sciences (ICTA) and hospital research units (VHIR, IGTP, etc.) that integrate scientists from the university to cooperate in the research field of zoonotic diseases such as influenza, MERS, tuberculosis.

## Hannover Medical School

Hannover Medical School (MHH) is based in Hannover, the capital of the federal state of Lower-Saxony, Germany. Hannover is known as the green city hosting Europe’s biggest city forest “the Eilenriede”. In addition and dating back to the 17th century, the Royal Gardens of Herrenhausen are famous for their baroque style garden architecture. Hannover has an exceptional public transport, partly due the world exhibition in 2000. Berlin and Hamburg are reachable by fast-track trains in less than two hours. An international airport is located just north of the city. Hannover is also officially named an UNESCO city of music.

The MHH has three strongholds in biomedicine, which are transplantation, regenerative medicine and infection biology. Since 2019 the MHH hosts the cluster of excellence RESIST (resolving infection susceptibility) focusing on infections in immunocompromised individuals. The MHH is also part of a triangle consisting of the Helmholtz center for infectious research (HZI) in Braunschweig and the university medicine in Göttingen. Infectious research is further strengthened by the TWINCORE research institute, a joint collaboration between MHH and HZI. Research on viruses is also harnessed for cell therapy to cure genetic diseases and cancer. For modern diagnostics, an automated high-throughput facility has been established at MHH

# Programme

## Semester 1 : Université de Tours

Introductory course

Public health

Immunology and Immunity of mucosal surfaces

Host-pathogen interactions

Virulence and Resistance

Animal Welfare, Animal Models and their alternatives

French language

## Semester 2 : Universitat Autònoma de Barcelona

One Health and Major and Endemic zoonosis

One health in emergent diseases and in special situations

One health in Food safety

Biosafety and biosecurity

Spanish language

**Summer School : Generic skills (communication, leadership, adaptability, team working in multicultural environments)**

## Semester 3 : MHH

Infectious Diseases and Diagnostics

Translational Medicine and Innovative Therapies

Genes, Genomes and Genome Editing

Emerging Viral Infections : Discovery and Intervention

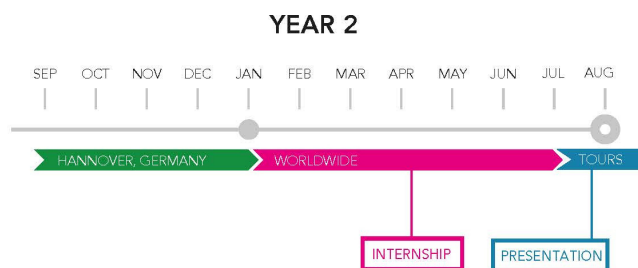
Strategies

Biorisk Management in Research and Diagnosis

Scientific Reading, Writing and Presentation

## Semester 4 : Internship/Master Thesis

## Programme timeline



## GET IN TOUCH

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<http://infectious-diseases-one-health.eu>

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