

Molecular Mechanisms of Disease

All diseases have their origin in the disturbance of molecular processes. As a student of the Research Master's in Molecular Mechanisms of Disease (MMD), you will follow a programme that provides you with in-depth insight and research experience into the molecular processes underlying health and disease.



Excellence in education

All staff of the programme are members of the Radboud University Medical Center (Radboudumc). Research is aimed at elucidating the molecular basis of disease-related processes and translating these results into the clinic. The MMD programme is characterised by very intensive contact with established researchers, group-oriented learning and excellent academic resources. You will find yourself in the company of a small but ambitious and highly motivated group of students and will be involved in stimulating discussions. For your two research internships, you will have numerous options to contribute to

state-of-the-art research. Almost all students go abroad for their second internship, making use of the large international network of the Radboudumc researchers. As an MMD student, you will have a personal mentor to help you plan your individual study programme and to discuss future options. You will also have an individual supervisor during each internship. All courses are evaluated by students throughout the programme and immediately adjusted if necessary. It is a key characteristic of the MMD Master to offer a challenging and highly structured programme in the full width of the molecular biomedical sciences.

Radboud Universiteit



Radboudumc

Unique characteristics

- Intensive contact with established researchers
- Group-oriented learning
- Personal mentor to help plan your individual study programme
- 24 international and ambitious students

Career prospects

The MMD Master's is a perfect preparation for a further career in research, in an academic or commercial setting. About 85 percent of our graduates go on to do a PhD in Nijmegen or elsewhere in the world.

About the programme

The programme is organised along three major educational themes:

1. Immunity, infection and inflammation;
2. Metabolism, transport and motion; and
3. Cell growth and differentiation.

During your Master's programme, you will have courses in all of these fields. You can add elective courses from the Faculty of Medical Sciences and the Faculty of Science to your programme. Furthermore, you will receive a thorough training in skills, such as academic writing, applying for grants and the verbal and written presentation of research results. Two times a year, the programme organises master classes with top international researchers. You will have the honour of introducing the guest speakers and leading plenary discussions.

The two year programme is structured as follows:

Theoretical courses

These courses provide a sound basis for a future career in molecular biomedical research. Besides theoretical knowledge, the courses focus on important skills for scientists, such as: presenting scientific data, reading and writing scientific articles and writing research proposals.

Research training periods

- Research training period 1 (30.0EC = 21 weeks)
- Research training period 2 (43.5EC = 31 weeks or 37.5 EC = 27 weeks)



The atmosphere within MMD is great, since almost everyone has a different background (scientific and cultural), we teach and help each other a lot

- EMMA STREUTKER (ALUMNUS MASTER MOLECULAR MECHANISMS OF DISEASE)

More information including admission requirements, application procedure, scholarships and more: www.ru.nl/masters/mmd

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