

# Molecular Mechanisms of Disease

All diseases have their origin in the disturbance of molecular processes. Students of this Research Master's (MMD), will follow a programme that provides in-depth insight and research experience into the molecular processes underlying health and disease, an excellent preparation for a career in academia or industry.



## 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 **close** researchers, group-oriented learning and excellent academic resources. You will find yourself in the company of a small, **ambitious** **weg** and highly motivated group of students that study together, but also have fun off-campus. 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 and MMD alumni. As an MMD student, you will have a personal mentor to help you plan your individual study programme and to discuss future steps. 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**, highly structured programme in the full width of the molecular biomedical sciences. **enriching**

Radboud Universiteit



Radboudumc

## Unique characteristics

- **Intensive** contact with established researchers
- Group-oriented learning
- High attention to scientific skills
- Personal mentor to help plan your individual study programme
- Max 24 international and **ambitious** students **motivated**

## 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. Two internships of 5 – 7 months each allow you to focus on those areas that you are most interested in. Two times a year, the programme organises master classes with top international researchers.

## The two year programme is structured as follows:

### Theoretical courses

The theoretical 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 = 30 weeks or 37.5 EC = 26 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 a MASTER MOLECULAR MECHANISMS OF DISEASE)

**More information including admission requirements, application procedure, scholarships and more: [www.ru.nl/masters/mmd](http://www.ru.nl/masters/mmd)**

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