



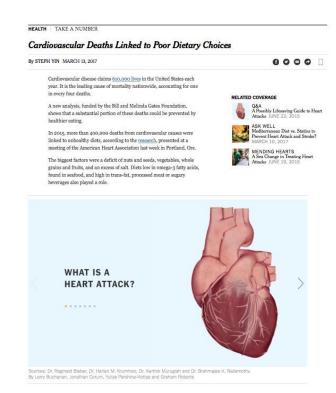






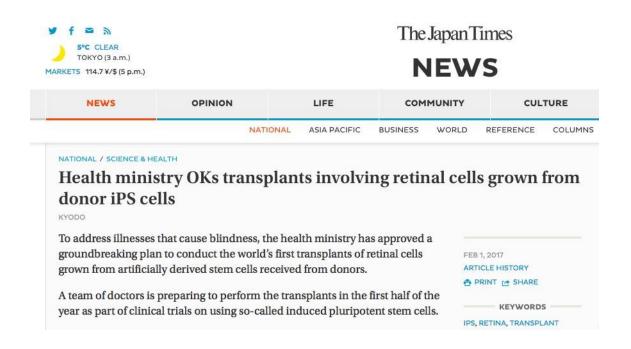
The New York Times

Wednesday, March 15, 2017 | € Today's Paper | • Video | 54°F | DAX +0.02% |













MARCH 15 2017 - 3:39PM SAVE PRINT LICENSE ARTICLE

Yoghurt may help some forms of depression, study says



In the new study, researchers from the University of Virginia School of Medicine found that feeding yoghurt - or the live bacteria found in yoghurt, lactobacillus - to mice with "depressive-like behaviour" or

"despair behaviour," reversed their symptoms.



NEWS SITE OF THE YEAR

DISCOVER
CROATIA

13 HOTELS IN UMAG

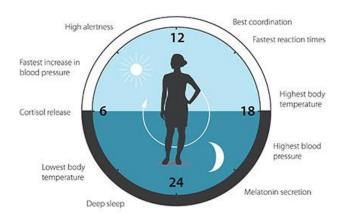
UP TO 35% OFF*

*Includes up to 10% off only for MellsRewards members

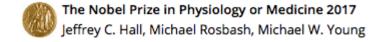


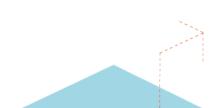






The circadian clock anticipates and adapts our physiology to the different phases of the day















Why Biomedical Sciences in Maastricht?

- You can tailor the programme to a large extend to your own interest
- Multidisciplinary education with teachers from hospital, research and business
- Biomedical challenges of now and the future go from bed to bench and back
- Competency based education
- Similar programmes elsewhere exist, but have usually a very specialized focus and limited choice





Admissions

• Relevant <u>university</u> domains are:

Biology, Biomedical Sciences, Biomedical Technology, Biotechnology, Health Sciences (Biology and Health), Life Sciences, Medical Natural Sciences, Medicine, Molecular Life Sciences, University College (depending on courses followed)

• Relevant <u>non-university</u> domains are:

Biological and Medical Laboratory Research, Applied Sciences (Science & Life), Biometry, Biotechnology





Application deadlines to start in September 2019

- Students who apply for a UM-wide scholarship up to and including 1 February 2019
- Non-EU/EEA-students up to and including 1 May 2019
- <u>EU/EEA-students</u>
 up to and including 1 June 2019

Admission related questions?

Please visit the stand from the Board of Admission







Lay-out of the Programme

- Period 1: common course:
 - Overview field of BMS challenges
 - Help select specialisation
- Six real, distinguished specialisations
- One denominator: translational research
- Mix between Academic and Industrial Orientation
- 40 weeks of structured education in year 1
- Year 2: 40 weeks Internship in Academia or Industry





Survival Skills/ Competencies

- Critical thinking: asking the right questions
- Collaboration across networks
- Agility and adaptability
- Initiative and entrepeneurship
- Effective oral and written communication: have to know how to think and reason
- Accessing and analysing info
- Creativity, curiosity and imagination
- Integrity





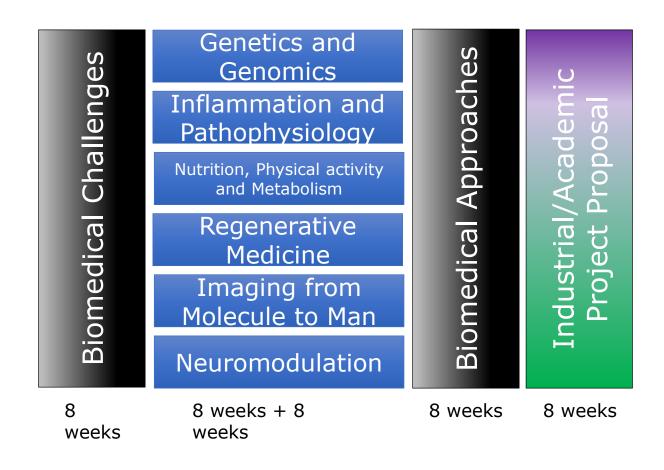
Mentorship

- Guidance on academic matters
 - Concerning master and afterwards (PhD or what else ?)
- Guidance on competencies
 - Formulating SMART learning goals, gathering of evidence
 - (just one general form)
- 4 regular meetings in Year 1, 2 meetings in Year 2





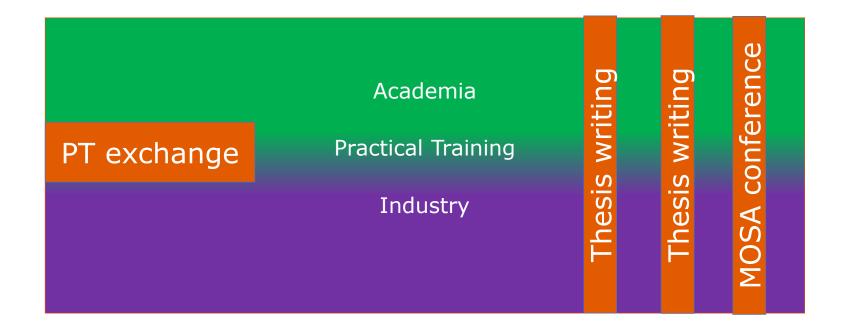
Course outline Year 1







Course Outline Year 2







Programme Details

First year Education

- Student centered learning
- Journal Clubs
- Workshops
- Group Work
- Presentation Skills
- Collaboration
- Expert Lectures

Second Year Education

- Individual practical training
- Collaboration/ exchange with students in other labs

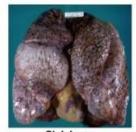


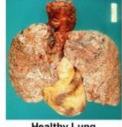


Biomedical Challenges

Alzheimer Allergy Asthma Cancer Cardiovascular disease Chronic inflammation COPD, AIDs Metabolic Syndrome

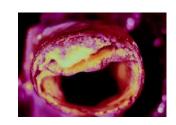
Neurodegeneration



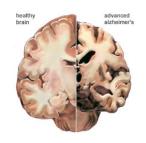


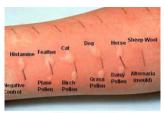












Skin Allergy Test







MBS1001 Biomedical Challenges

Challenges in medicine and biomedical sciences

- In-depth investigation of three diseases
- Newly developed diagnostics and therapies
- The **frontier** and state-of-the-art of science
- Scientific Integrity
- Starting point for the 6 specializations
 - Definitive choice in week 4





A weekly timetable

	Mon 2 Oct	Tue 3 Oct	Wed 4 Oct	Thu 5 Oct	Fri 6 Oct
8:00					
9:00	08:30 - 10:30 MBS1001/2017-100/Lecture 07 Modelling mental & neurodegenerative disorders/01 - Biomedical Challenges UNS40 B0.673 Aken zaal Kenis, GRL (Gunter) Rutten, BPF (Bart)		MB MB MB MB MB MB MB MB	MBS1001/2017-100/Site visit Brightlands campus chemelot Geleen/01 - Biomedical Challenges Ambrosino, E (Elena) Ehrhart, F (Friederike) Rutten, BPF (Bart)	09:00 - 10:30 MBS1001/2017-100/Exam 02/01 - Biomedical Challenges UNS40 B0.647 Maastricht zaal Rutten, BPF (Bart)
10:00	Lecture		Bio	Szklarczyk, RJ (Radek) Workshop	Exam
11:00	11: 11: 11: 11: 11: 11: 11: 11: 11: 11:		11:00 - 12:00 MBS1001/2017-100/Q&A session II/01 - Biomedical Challenges UNS50 K3.453 Computerruimte B		11:00 - 13:00 MBS1001/2017-100/Expert meeting 05 From idea to product how to bring/01 - Biomedical Challenges DEB1 B0.122
12:00	Chi				Vangeneugden, J (Joris) Lecture
13:00					
14:00					
15:00					
16:00					
17:00					





6 Specialisations

For Tekst and Video's:

https://www.maastrichtuniversity.nl/education/partner-program-master/master-biomedical-sciences/specialisations

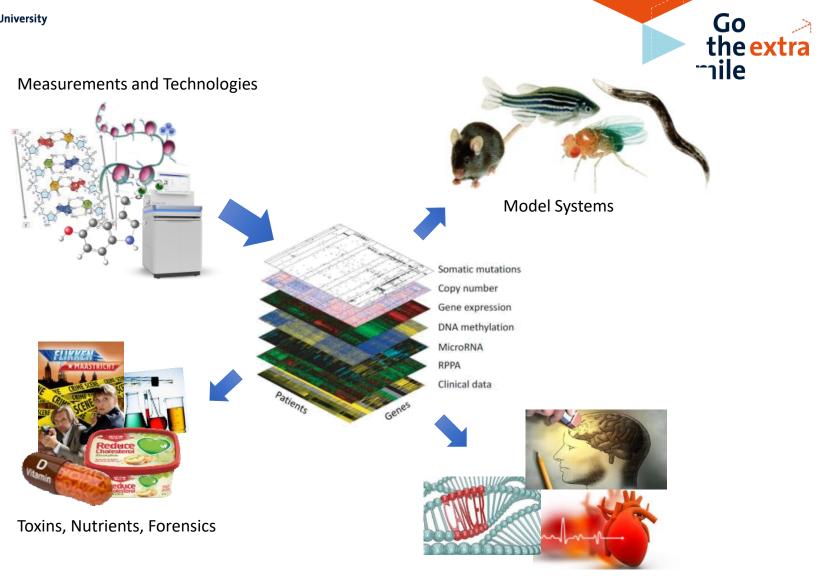


Specialisation Genetics & Genomics







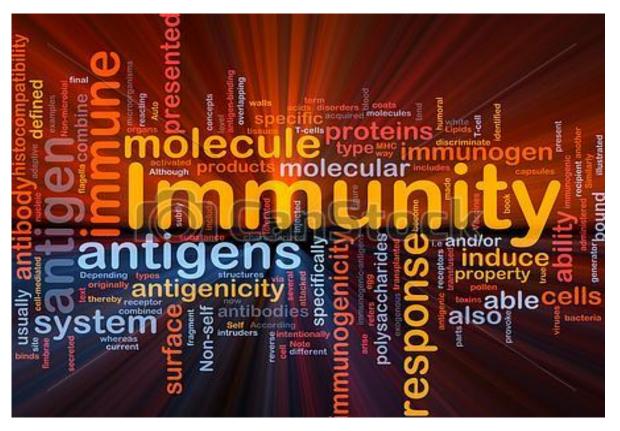


Clinical Genetics & Genomics





Specialisation Inflammation and Pathophysiology









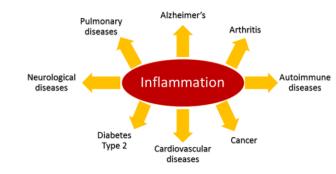
MBS1201 and 1202: General aim

To understand pathophysiology

The study of structural and functional changes in tissue and organs that lead to disease.

To evaluate different types of therapies, vaccination and immune system effector functions

To engineer the immune system in treatment of disease



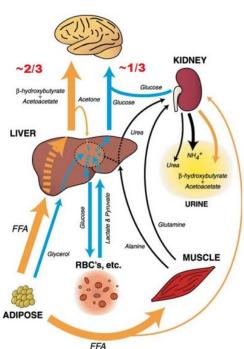


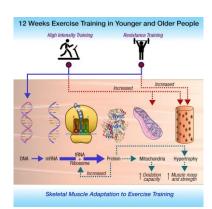




Specialisation Nutrition, Physical Activity and Metabolism











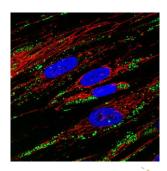


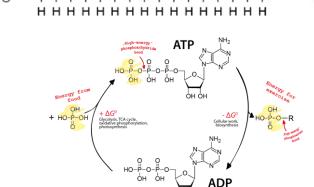
Nutrition, Physical Activity and Metabolism

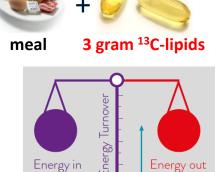
Highly prevalent westernized disorders find common ground in derailed metabolism

Aims

- to understand the (patho)physiology and the mechanisms underlying metabolic derailments
- to provide the basis for design & optimization of preventive and therapeutic nutritional and life-style interventions to improve metabolic health







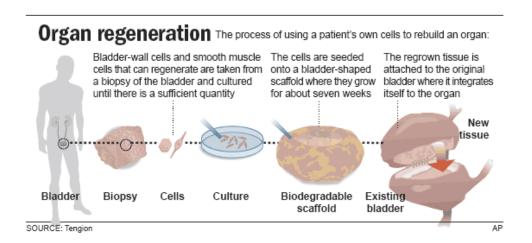




Specialisation Regenerative Medicine

Basic understanding of RM as a translational science and its constituting disciplines









The science and technology of Regenerative Medicine

- molecular processes of wound healing
- (stem) cell regenerative approaches
- organoid technology
- composition extra-cellular matrix (ECM)
- different biomaterials
- processing technologies fabricating scaffolds
- microfabrication techniques
- bioreactors and organ-on-a-chip.
- cell-material interface







Specialisation Imaging from molecule to man

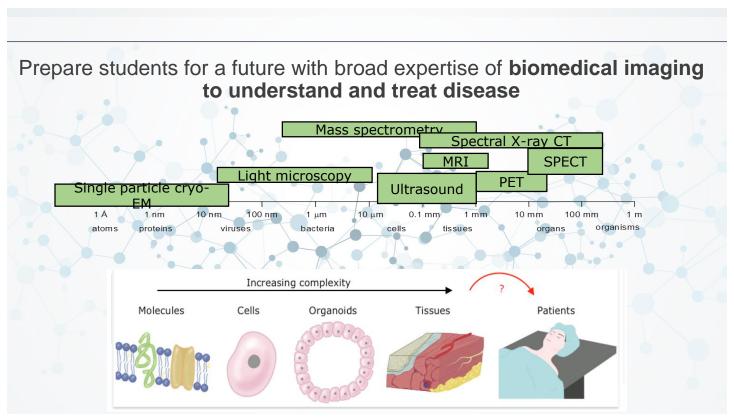
Tiffany Porta







General objectives

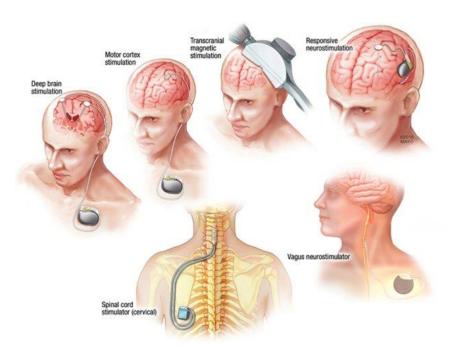


An interdisciplinary and translational education in biomedical imaging



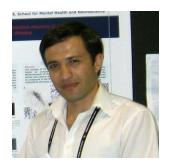


Specialisation Neuromodulation



Edwards et al. Mayo Clin Proc 92: 1427, 2017

Ali Jahanshai



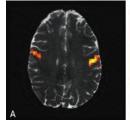






The science and technology of Neuromodulation

- neuromodulation has the potential to change the neuroscience landscape
- detailed knowledge of neuroanatomy and neurophysiology
- a wide spectrum of invasive and non-invasive techniques
- manipulation of the central nervous system from micro to macro level







Course outline Year 1

Biomedical Approaches Genomics Biomedical Challeng Industiral/Academ Project Proposal Medicine Proje Molecule to Man 8 weeks 8 weeks + 8 weeks 8 weeks 8 weeks





MBS1002: Biomedical Approaches

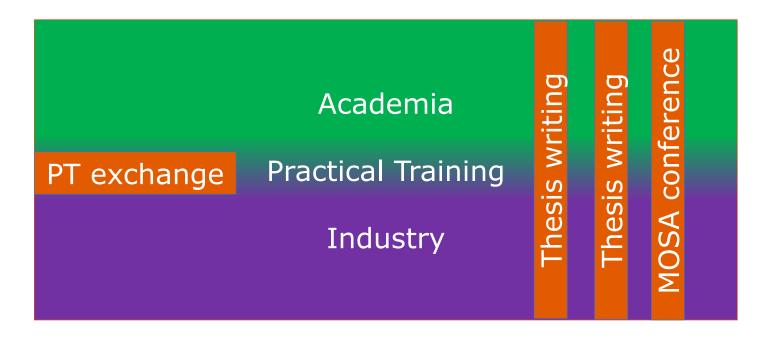
- Cutting edge biomedical omics approaches
- Electronic resources essential to omics data analysis and biomarker identification and utilization
- The role of univariate and multivariate statistics methods
- Construct an experimental design and power analysis
- Basic biomedical methodology concerning animal testing and human trials
- Execute research data management plans

Course outline Year 1

Genomics **Biomedical Approache** Biomedical Challeng Industrial/Academic Project Proposal Pathophysiology Medicine Molecule to Man 8 weeks 8 weeks + 8 weeks 8 weeks 8 weeks



Course outline Year 2



40 weeks





Options to go abroad







Double Degree; Year 2

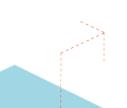






Tohoku University Sendai









Double Degree; Year 2



Kyoto Prefectural University of Medicine





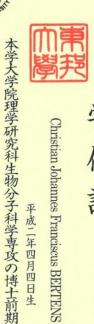


Diploma









位

Christian Johannes Franciscus BERTENS 記

課程において所定の単位を修得し学位論文の審査及び 最終試験に合格したので修士(理学)の学位を授与する

東邦大学長山崎純

平成二十七年六月三十日







Exchange; Year 2 Establishing DDP







Daegu, South Korea





Go the extra mile

Participation in Conferences







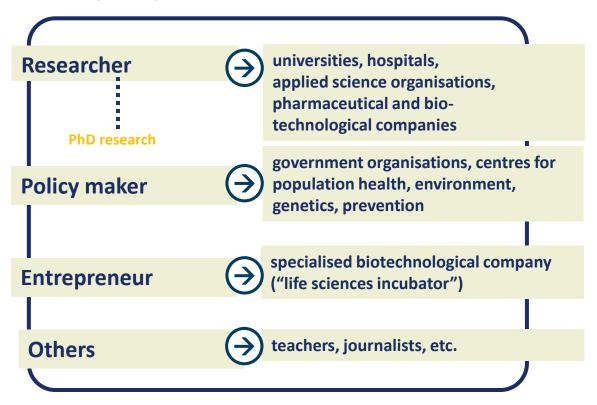








Career perspectives

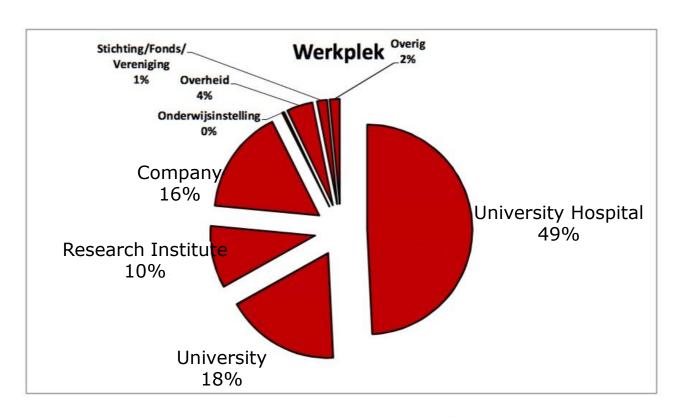


prospects on labour market are good-excellent!





Career opportunities



NIBI enquête afgestudeerde masters biowetenschappen Afgestudeerd na 1 januari 2012, peildatum zomer 2015





Hi, my name is Raphael from Austria Biomedical Sciences master's student

Follow me on Facebook and find out about my progress and experience during the master



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STUDY ASSOCIATION HEXLIXX

Biomedical Sciences Maastricht University



















@sahelixmaastricht

www.sahelix.nl

- SA Helix is the Study Association for Biomedical Sciences in Maastricht.
- We organize study-related activities in English, course opening parties and other activities











#mylifeatfhml #UMMOD19





Meet .. coordinators at the market

Genetics and Genomics 11:30:12.10 14.30-15.10 Luikzaal Inflammation and Pathophysiology 11:30:12.10 14.30-15.10 Coen Hemkerzaal Nutrition, Physical Activity and Metabolism 11:30:12.10 14.30-15.10 Keulenzaal

Imaging from Molecule to Man 12.15-12.55 15.15-15.55 Coen Hemkerzaal Neuromoldulation 12.15-12.55 15.15-15.55 Keulenzaal

Regenerative Medicine 12.15-12.55 15.15-15.55 Heerlenzaal



















Questions?

Thank you for your presence and interest in the Master Biomedical Sciences

For more information on the double degree master's programme DDP Japan, Exchange South Korea

Dr W. Germeraad

Dr N. Senden

contact us via: n.senden@maastrichtuniversity.nl





Good luck with your study selection and see you in Maastricht!

https://www.maastrichtuniversity.nl/education/partner-program-master/master-biomedical-sciences-0/courses-curriculum

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