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Welcome to the Graduate School of Medical Sciences Groningen





your future at the UMCG.



gsms@rug.nl
www.groningenbiomed.com



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About the GSMS

We build leaders in science

- › **We are responsible for programmes within the University Medical Center Groningen (UMCG)**
 - Research Masters
 - PhD education and training
- › **We promote excellent research**
 - We train and educate excellent researchers
 - Translational research ranges from fundamental to patient orientated (clinical)
 - Five research institutes



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About the GSMS

Five research institutes

- › **BCN** – Neuro; the human brain
- › **GUIDE** – Chronic diseases and drug innovation
- › **Kolff** – Biomaterials
- › **CRCG** – Cancer Research Center Groningen
- › **SHARE** – Quality of Life; health research



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UMCG

We are the leading hospital in the North of the Netherlands

- > **1,100 beds**
- > **12,000 employees**
- > **4,000 bachelor and master degree students**
- > **1,200 PhD students**
- > **Top Reference Medical Center in Northern Netherlands**

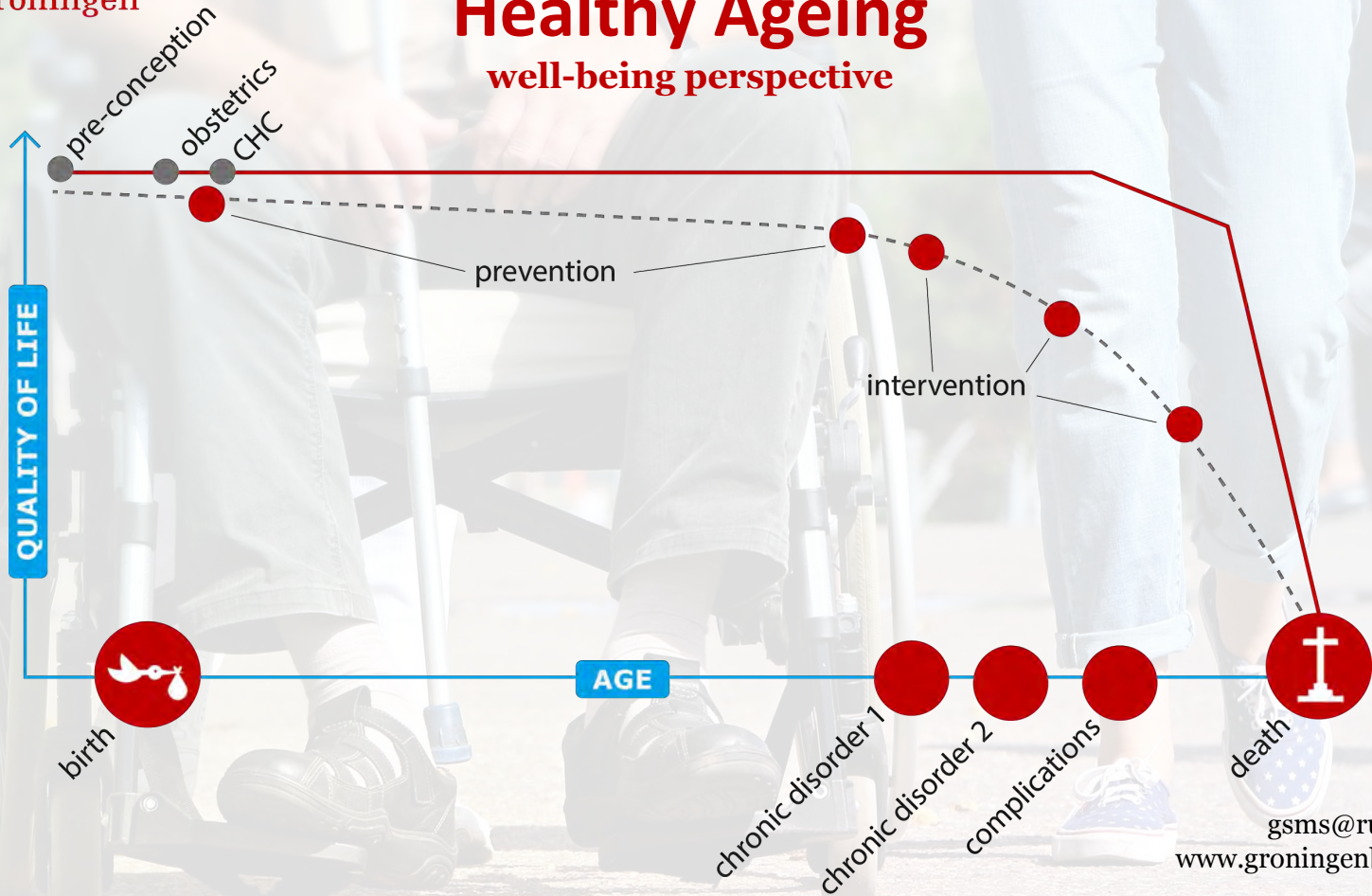


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Healthy Ageing

well-being perspective





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Research at the UMCG

› **Healthy Ageing**

- Focus in education, care and research since 2006
- Societal, scientific and strategic relevance

› **Life Lines**

- 165,000 participants
- 3 generations

› **European Institute for the Biology of Ageing (ERIBA)**

- 10 groups + facilities





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Healthy Ageing

Searching for new, clever solutions since 2006

› **This research covers:**

- All activities that help to combat the negative impact of the ongoing ageing process
- Finding the causes of health problems and frailty or impairment.

› **We aim to be the frontrunner in innovation and research in this field**

- Improve quality of life for ageing people, ensure people die of old age rather than sickness
- Minimise the social burden on healthcare
- Search for effective prevention
- Continue to ensure the Northern Netherlands stays well equipped to tackle this issue.



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Smartest Kilometer in the Netherlands

Pre-clinical
 Research

Pharmacy/
 Drug Development
 & Selection

Life-Lines

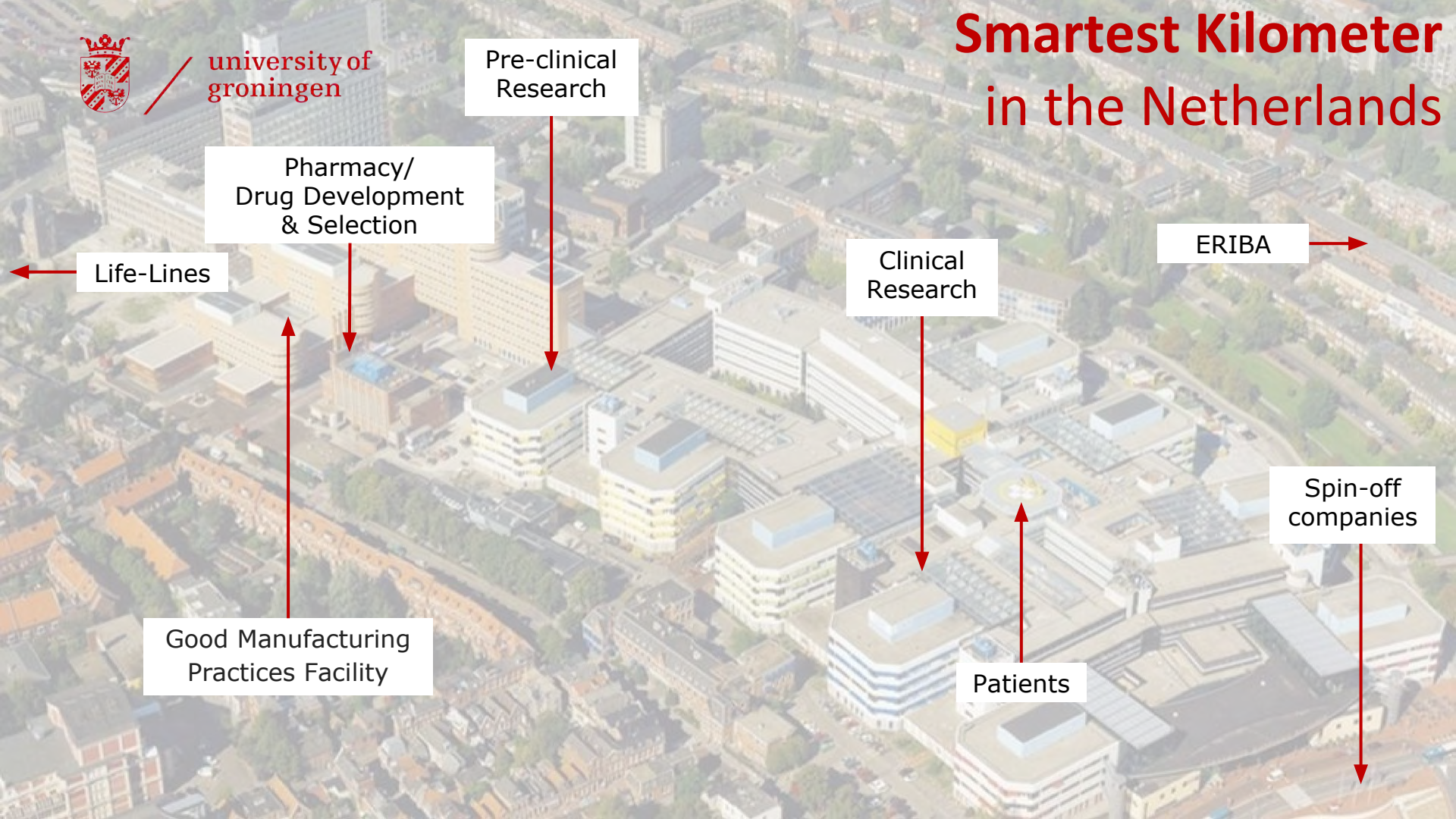
Clinical
 Research

ERIBA

Good Manufacturing
 Practices Facility

Spin-off
 companies

Patients





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European Higher Education System

Bologna Declaration 1999 in the Netherlands

› **Bachelor**

- Research University=3 years

› **Master**

- 1 to 2 years; 3 years (medicine)

› **PhD**

- 4 years (3 in the case of combination Msc and PhD)



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Medical and Pharmaceutical Drug Innovation

Preparing you for a career as a leading scientist

- › **Two-year tailor-made top master programme**
 - small-group interactive teaching
 - international and multidisciplinary environment.
- › **6 Tracks**
 - Oncology
 - Medical neurosciences and neurological diseases
 - Infection and immunity
 - Medical nutrition and metabolic diseases
 - Medical system biology and bioinformatics
 - Drug innovation
- › **Annual tuition:**
 - EU Students \approx €2000
 - Non EU Students \approx €14000

Interested in the pathophysiology of
 diseases? Study the development
 and selection of therapies and
 drugs, and learn how they work...



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Clinical and Psychosocial Epidemiology

**Focusing on the reciprocal relationship between
psychological and physical health**

- › **Two year top master programme**
 - Rated first in its category in the Dutch Higher Education Guide
- › **Course Topics:**
 - Public Health
 - Health Psychology
 - Psychiatric Epidemiology
 - Master Thesis Project
- › **Annual Tuition:**
 - EU Students ≈ €2000
 - Non EU Students ≈ €14000

Can mindfulness support people in dealing
with chronic disease?
What is the relationship between depressive
symptoms and cardiovascular disease?



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Erasmus+ International Master in Innovative Medicine

- › Two-Year **European-funded** programme
- › Awarded the Erasmus Mundus Joint Master Degree (EMJMD) **excellence** label in 2015
- › **Tailor-made** training programme
- › Research **internship possibilities** at Latin American partner institutions

Do you have the ambition to become a leading translational biomedical researcher? Would you like to receive a degree from the Top-100 Universities of Groningen, Heidelberg, and Uppsala?



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PhD Programmes

**Individual, research project
30 ECTS (6 months) coursework**

› **Financing**

- 4 years in Groningen, employed by Groningen
- External scholarship 4 years
- PhD Sandwich 2+2

› **PhD Thesis Proposal**

- Research based versus courses based
- Quality of publications



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PhD Education Programme

- › **Courses in**
 - General competences
 - Research specific techniques
 - Field specific & interdisciplinary subjects
- › **Graduate School also encourages**
 - Seminars
 - External courses
 - Research stay abroad & exchange



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Translational Research- Bench to Bedside and Back (BBB)

A full perspective on medical sciences

› Bench:

- **Development**-Develop an understanding of underlying basic mechanisms of disease
- **Design**- E.g. Drug design

› Bedside:

- **Application**-clinical applications of research

› And back!

- Use results to further development





How to become a researcher

› **Speak English**

- TOEFL 92/IELTS 6.5 are indicative. GSs may set minimum requirements and demand official tests, but most GSs apply a degree of flexibility and go with supervisor assessment

› **Locate a supervisor**

- Find an expert in your field.
- Ask about research interests (advice/make note)
- Ask to send English CV and summary of research interests
- Refer to website/Graduate School

› **Obtain Funding...**



How to obtain funding

- › **PhD funding**
 - PhD employees/AIOs
 - Few positions
 - Apply to predefined projects in competition with the best candidates from all over the world & in competition with master graduates

- › **UMCG funded PhD bursary positions**
 - Bursary PhD candidates define their own PhD project
 - GSMS may decide to make full funding available for 3 or 4 year positions
 - Note: only available for current research master students of the GSMS

- › **PhD bursary positions with external funding...**





External funding

- › **Many governments offer scholarships for students to undertake (part of) their PhD (& master) degree abroad. Among these:**
 - China: CSC
 - Indonesia: LPDP
 - Mexico: CONACYT
 - Chile: CONICYT/Becas Chile
 - Colombia: Colciencias/Colfuturo
 - Peru: CONCYTEC
 - Brazil: CAPES/CNPq/FAPESP (mostly sandwich PhD)
 - Saudi Arabia

- › **Scholarship/ Funding from medical pharmaceutical industry**



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Abel Tasman Talent Programme

An opportunity to excel



› **Eligible programmes:**

- MSc Medical & Pharmaceutical Drug Innovation
- MSc Clinical & Psychosocial Epidemiology
- MSc Behavioural & Cognitive Neurosciences – molecular and clinical neurosciences-track
- PhD programmes with a supervisor at the Faculty of Medical Sciences



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Abel Tasman Talent Programme

An opportunity to excel

> Research Voucher

- One-Month support for short research stays for prospective master's or PhD students
- Get to know the Groningen research environment
- Approximately EUR 800 (master) and EUR 1100 (PhD)

> Sandwich PhD

- 24 months financing (full scholarship) for PhD students
- 4-year PhD trajectory: two years in Groningen; two years at the partner institution
- Joint PhD supervision
- First PhD from Groningen, possibility of double (joint) degree





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Why Us?

- > **We are a leading research university**
 - Founded in 1614
 - Ranked within the top 100 in the world (Shanghai rating)
 - 7th for employability in the Netherlands
 - 4 nurtured Nobel Prize winners
 - 11 Faculties and 9 Graduate Schools
- > **We are international**
 - 15% of 30,000 students, and 30% of staff are international
 - First Dutch university to have a campus in China-Yantai (2018)
 - Over 100 English-taught degrees



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Groningen: City of Talent

“Here is space for talent. Space for learning, for working and for growing. For further personal development and making the best of yourself. And there is room for living, sports and entertainment. There’s no place like Groningen.”



Epke Zonderland

Olympic Gold Medallist;
Trainee Doctor at the UMCG



Ben Feringa

Nobel Prize Winner 2016;
Professor at the UG



Ranomi Kromowidjojo



Arjen Robben



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talent

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“Nothing Tops Groningen”

- › **A student city**
 - 25% of inhabitants are students
 - Youngest city in the Netherlands
- › **A vibrant City**
 - Top five bicycle cities in Europe
 - One of the greenest cities in the Netherlands
 - Most innovative city in the Netherlands
 - Events and Festivals all year-round
- › **An international City:**
 - Erasmus Student Network (ESN) and other International student associations
 - The University of Groningen has around 5000 international students from over 115 nationalities

ER GAAT NIETS BOVEN
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Contact

Need more information?

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Visit our **GSMS booth**
 to talk about

YOUR FUTURE!

- Tue 6th June, 11:30-14:00
- Wed 7th June, 13:00-16:30



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