

avans
hogeschool



Welcome
at
Avans University of Applied
Science
Avans Hogeschool (in Dutch)

Breda

- The name Breda descends from a contraction of the Brede (wide) Aa. This is the point where two rivers, the Mark and the Aa, flow together.
- municipal rights in the year 1252
- The city is surrounded with mouts, so called 'singels'.
- Population of 183.448
- In the city centre there are a lot of monuments:
"Grote Kerk", "Kasteel van Breda" (Royal military Academy), "Koepel" (Former Prison)





Avans University of Applied Science

Avans Hogeschool (in Dutch)

31.474 students and 2.832 employees
21 Schools (academies)



4 Cities: Tilburg, 's Hertogenbosch, Roosendaal, and Breda



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Facilities in Breda: Lovensdijkstraat



School of Life Sciences and Environmental Technology

(~ 1300 students)

Bachelor - Major Minor system

Major Biomedical laboratory Research

- Biomedical research
- Medical diagnostics
- Biotechnology
- Bioinformatics

Major Chemistry

- Organic chemistry and polymer synthesis
- Analytical chemistry

Major Chemical Technology

Major Forensic Laboratory Science

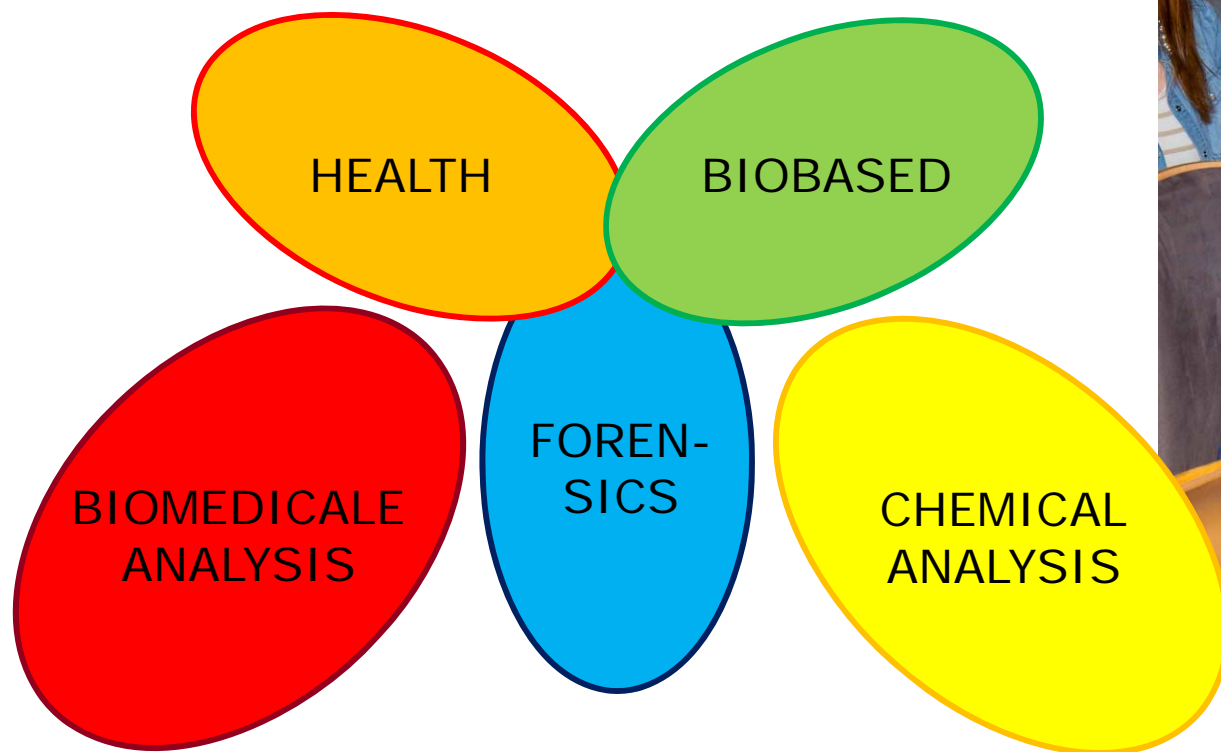
Major Environment and sustainability

Major Marketing & management in Life Sciences

Research group Analysis techniques in the Life Sciences (ALS)

Dr. Theo Noij

Projects and collaboration



Research group Analysis techniques in Life Sciences

- Introduction new science developments in education
- Contract research in analytical chemistry and biomedical laboratory research
- Analytical facilities, e.g. LC-MS
- Post-graduate (inter-)national short-courses (including in company training)



A broad Package in Biomedical Laboratory courses.....

Molecular Biological Techniques:

real-time (Quantitative) PCR

Next generation sequencing

Variant Effect Prediction

Cell and Tissue culture

Protein Purification

Flowcytometry

Immunology

Mohs Surgery



Introduction

The daily agenda
start of each day
coffee/tea
lunches
end of each day
Diner

e-mail/internet login
Schedule computer rooms



Introduction

The manual

hand-outs:

<https://atgmlab.avans.nl>

Account: VEP2019

Password: VEP2019!



The Course Team

The Course staff

Prof. dr. Johan T. den Dunnen, *Clinical Genetics & Human Genetics, LUMC, Leiden*

Dr. Martie Verschuren, Avans Hogeschool

Guest Lectures

Dr. Victor Guryev, UMCG/ERIBA, Groningen

Dr. Peter Taschner HS Leiden

Dr. Ivo Fokkema, Clinical Genetics&human genetics, LUMC, Leiden

Dr. Jeroen van Reeuwijk, RadboudUMC, Nijmegen

Dr. Ben Moore Ensembl Outreach team, EMBL-EBI

Dr. Hanka Venselaar, RadboudUMC, Nijmegen

Dr. Rolph Pfundt, RadboudUMC, Nijmegen

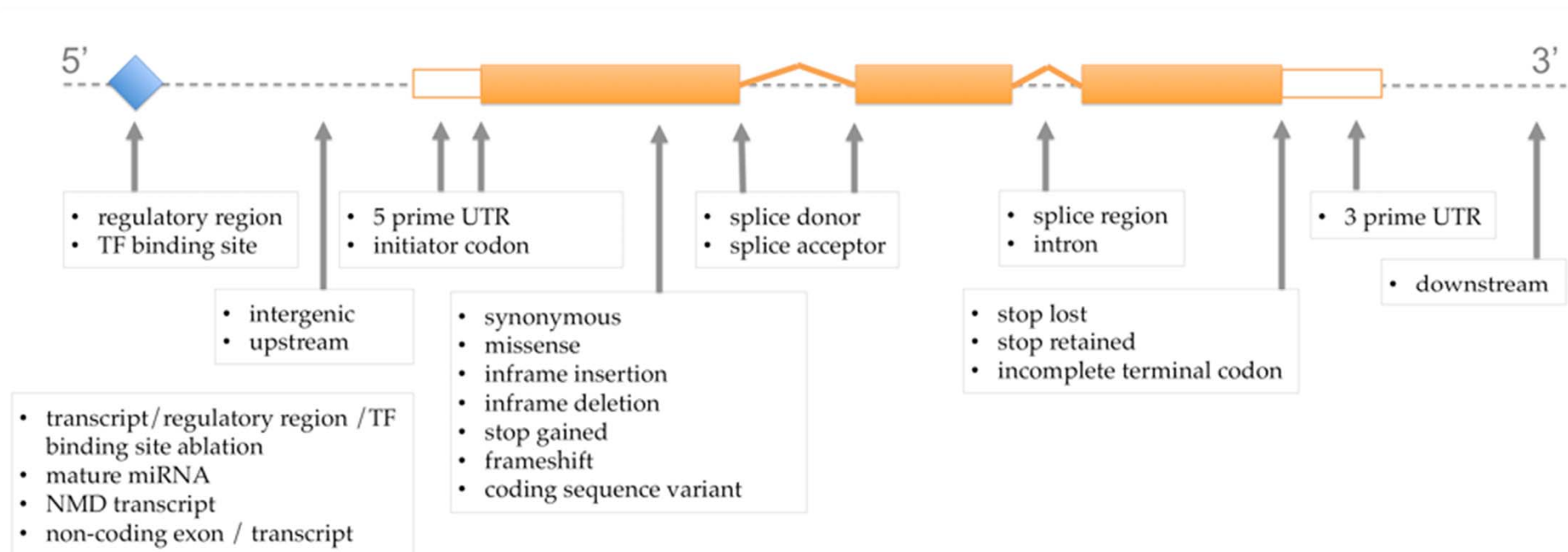
Dr. Frans Verheijen; Erasmus MC, Rotterdam

Dr. Lies Hoefsloot, Clinical Genetics, Erasmus MC, Rotterdam

Dr. Martie C.M. Verschuren
Course manager
Avans Hogeschool
Research Group Analysis Techniques
in Life Sciences
P.O box 90116, 4800 RA Breda
The Netherlands
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<http://www.alsavans.nl>

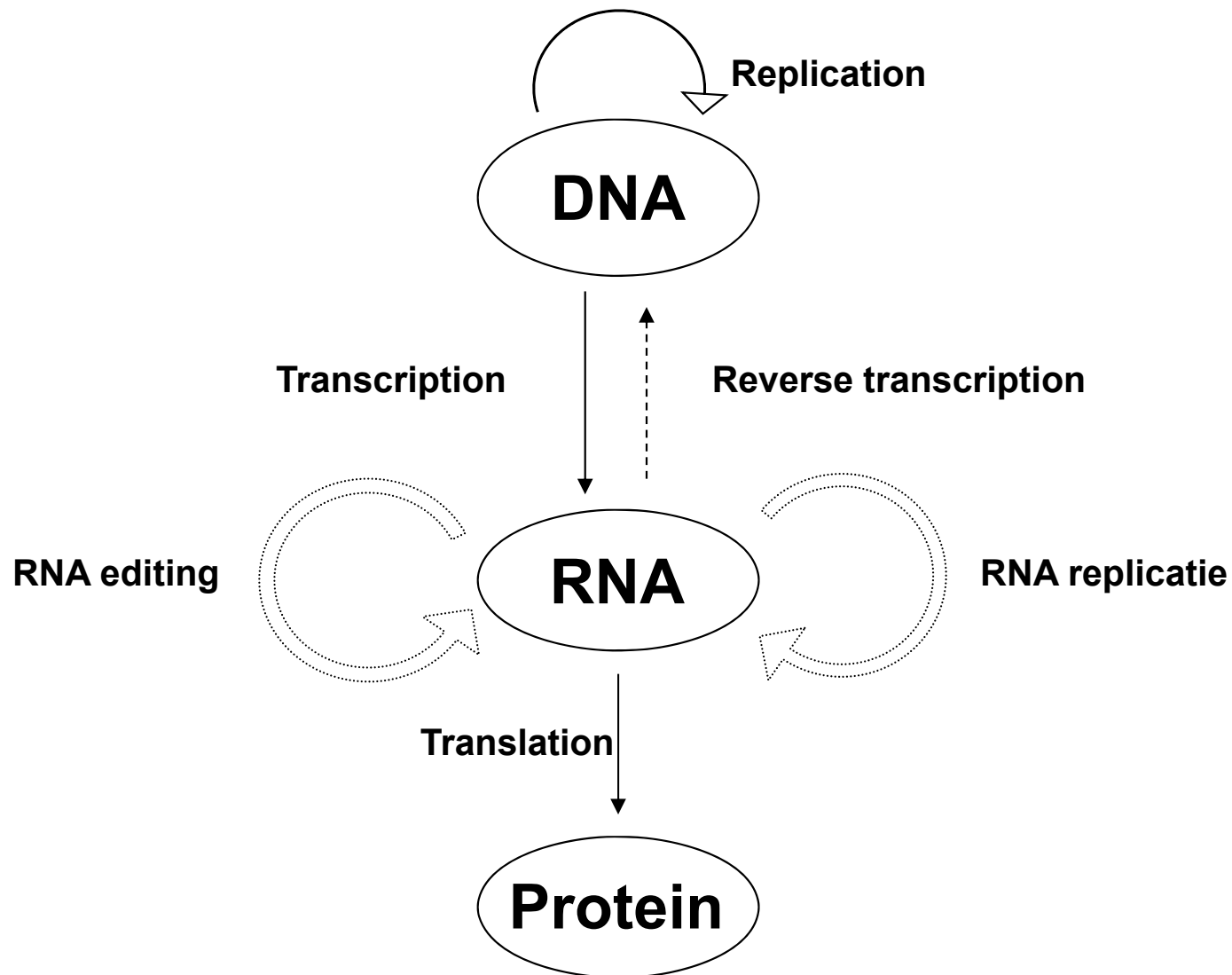
Introduction participants

Variation overview



CENTRAL DOGMA

flow of genetic information



**Let's get started
with the course**