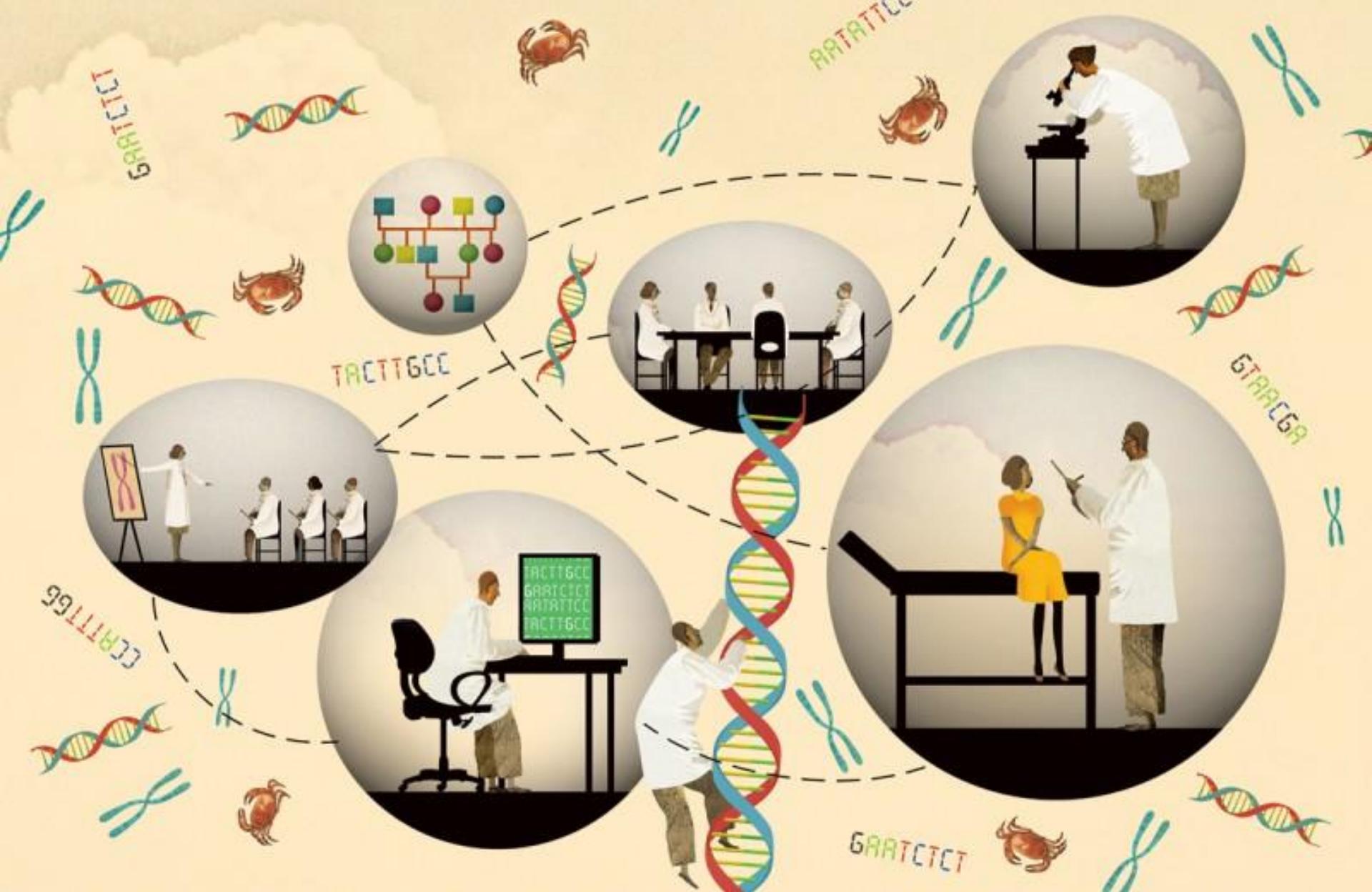


Master Biomedical Sciences

Dr. Lars Eijssen





MBS Specialisation Genetics and Genomics

Your team

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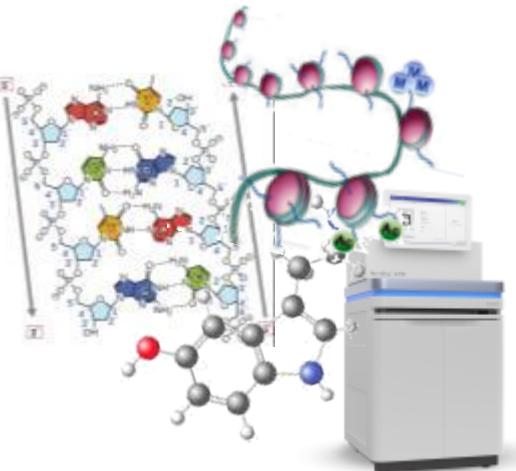


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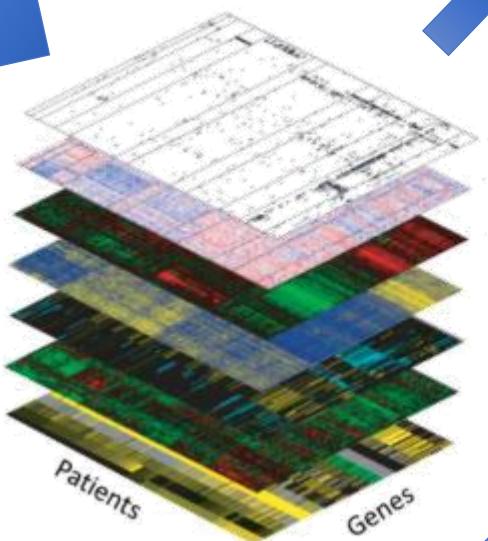


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Measurements and Technologies



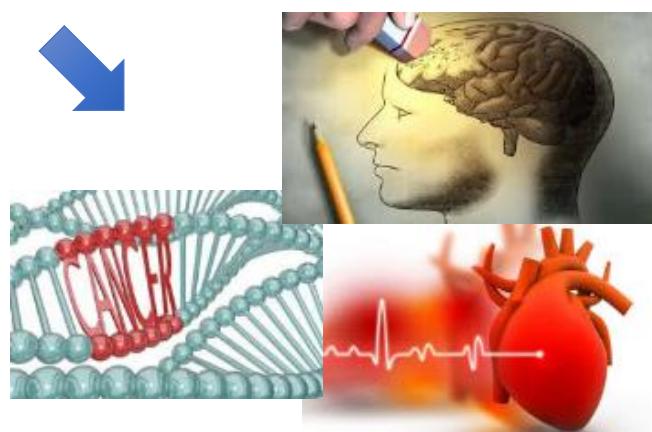
Model Systems



Somatic mutations
Copy number
Gene expression
DNA methylation
MicroRNA
RPPA
Clinical data



Toxins, Nutrients, Forensics

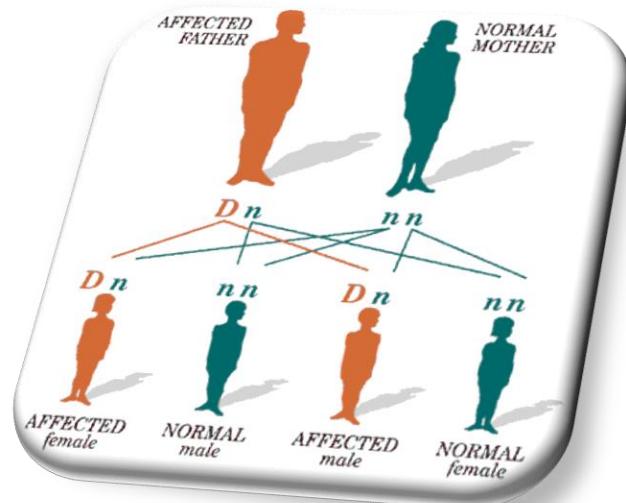


Clinical Genetics & Genomics

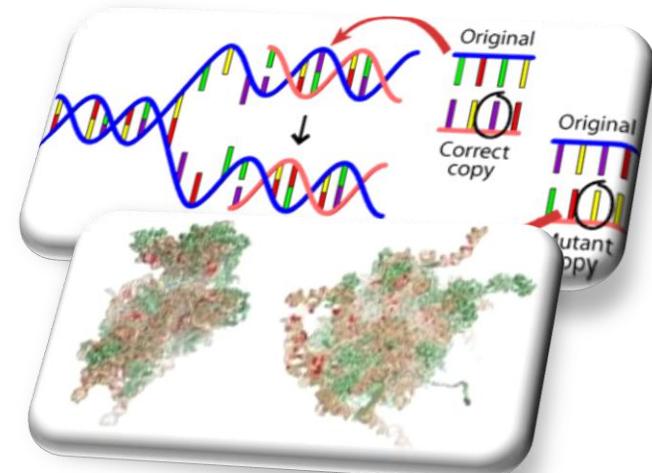


Maastricht University

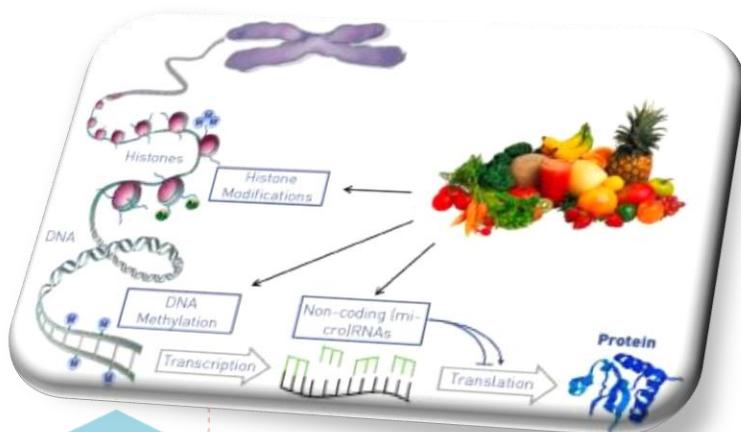
HEREDITARY FACTORS



GENETIC VARIANCE / GENE EXPRESSION



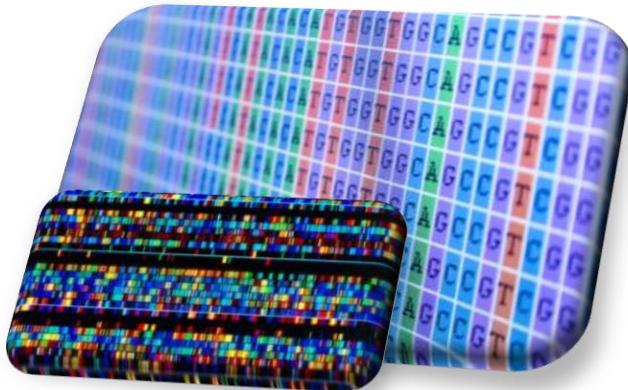
ENVIRONMENTAL INFLUENCES



COMPLEX GENE-ENVIRONMENT INTERACTIONS



HIGH-THROUGHPUT MEASUREMENTS



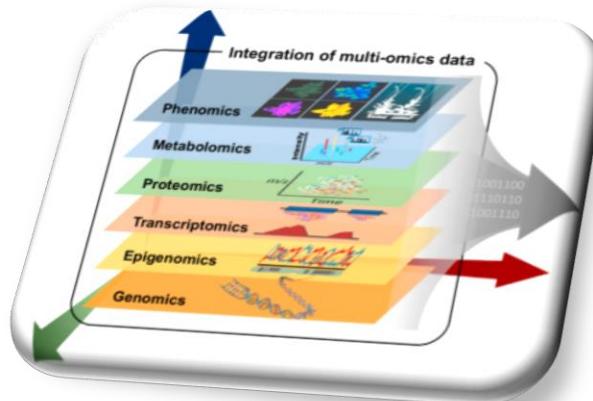
DATA ANALYSIS



LEGAL AND ETHICAL ASPECTS



SYSTEMS BIOLOGY



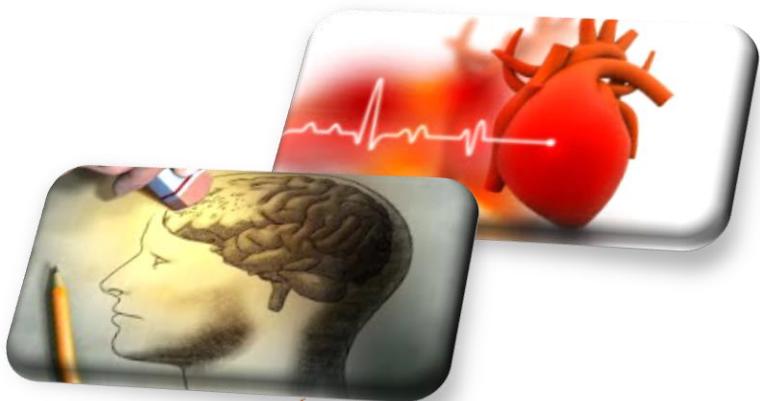
MODEL SYSTEMS



FORENICS



CARDIOGENETICS & NEURODEGENERATIVE



CANCER GENETICS

THE BRCA GENE TEST
Angelina Jolie (in pic) underwent the BRCA gene test, a blood test that uses DNA analysis to identify harmful changes (mutations) in either one of the two breast cancer susceptibility genes – BRCA1 and BRCA2.

IN NUMBERS

1.5 lakh Indian women who are diagnosed with breast or ovarian cancer every year; 5-10% (10,000) may have familial cancer and may benefit from BRCA1/BRCA2 gene test after genetic counselling

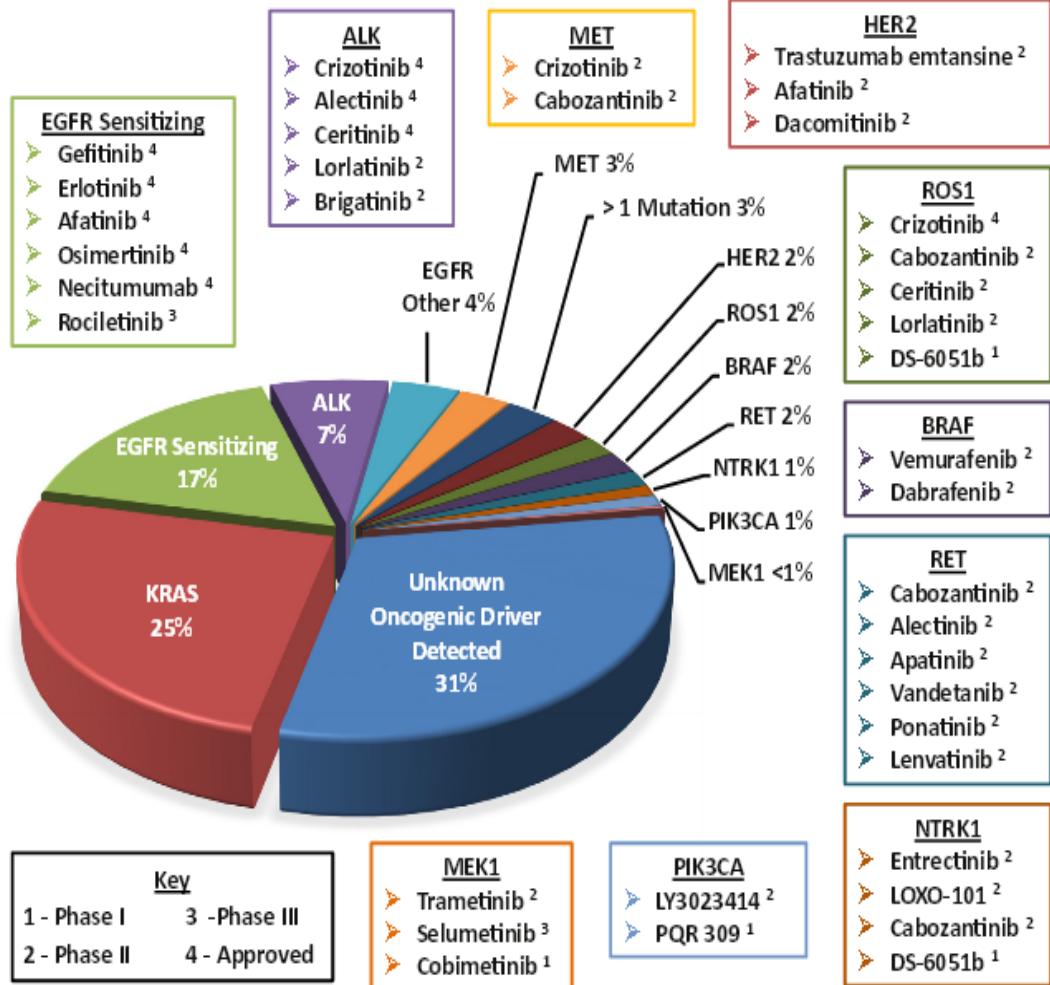
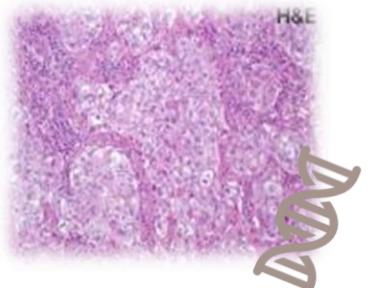
46,661 ovarian cancer cases projected by National Cancer Registry Programme

Genetic tests can check for BRCA1 and BRCA2 mutations in people with a family history of cancer

Women who have inherited mutations in these genes face a much higher risk of developing breast and ovarian cancer.

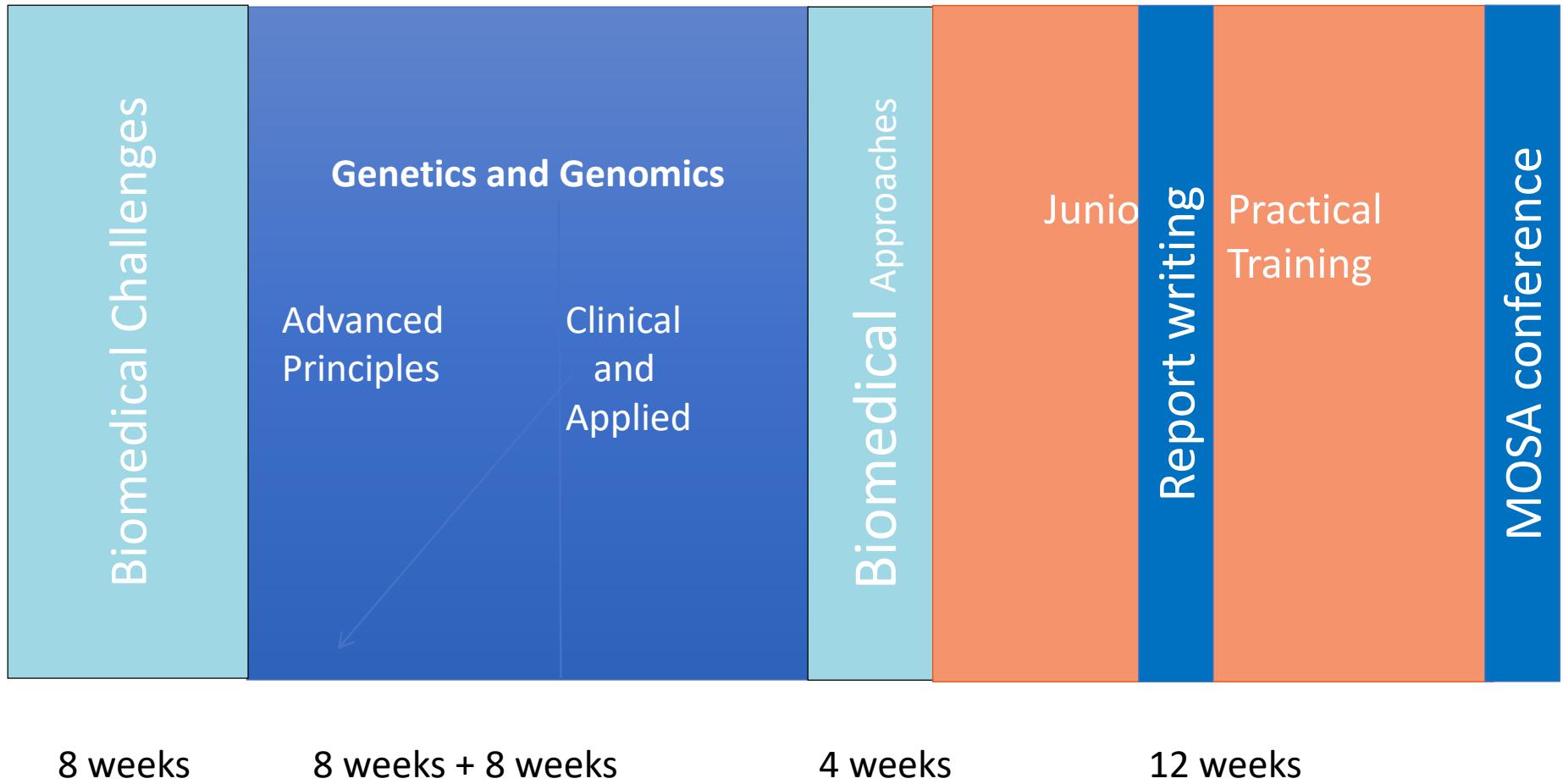


Personalised medicine in lung cancer



August 2013:
start first line erlotinib

Course outline Year 1



Student centered learning

Teaching activity

Tutorial Group

Journal Club

Expert Lecture

Computer Lab

Career-related Session

Expert-guided Discussion

Site Visit

Essay

Research Project Writing

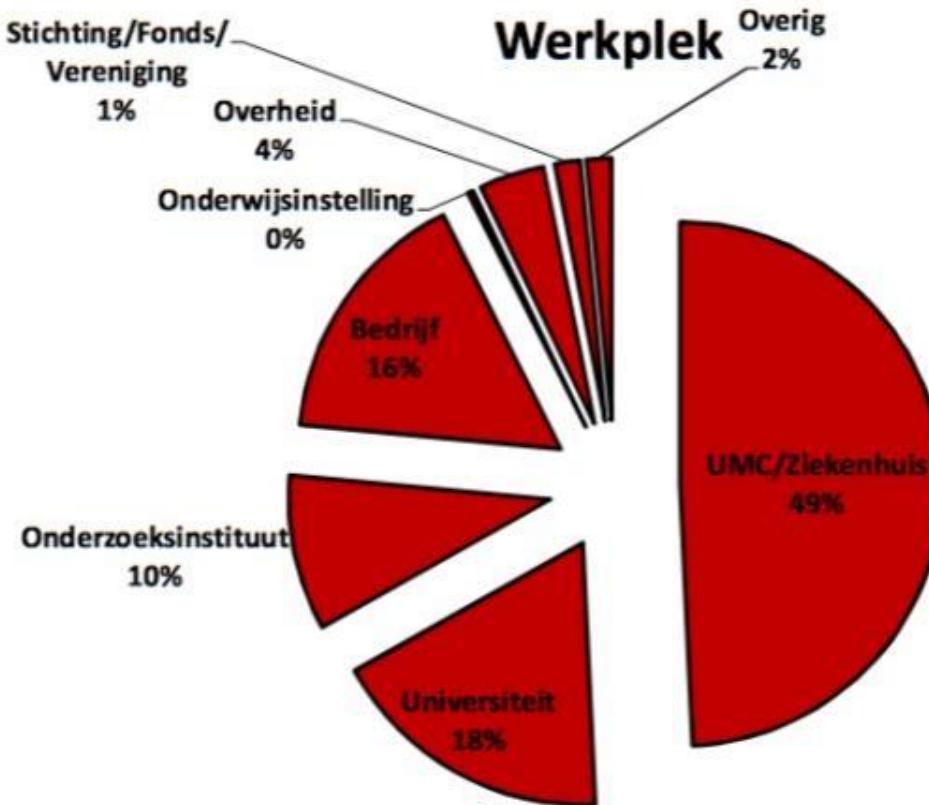


Career perspectives



- Prospects on labour market are good-excellent !

Career opportunities



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

Admissions

Relevant university 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 non-university domains are:

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

Please visit the Admissions stand for more information

Questions?

