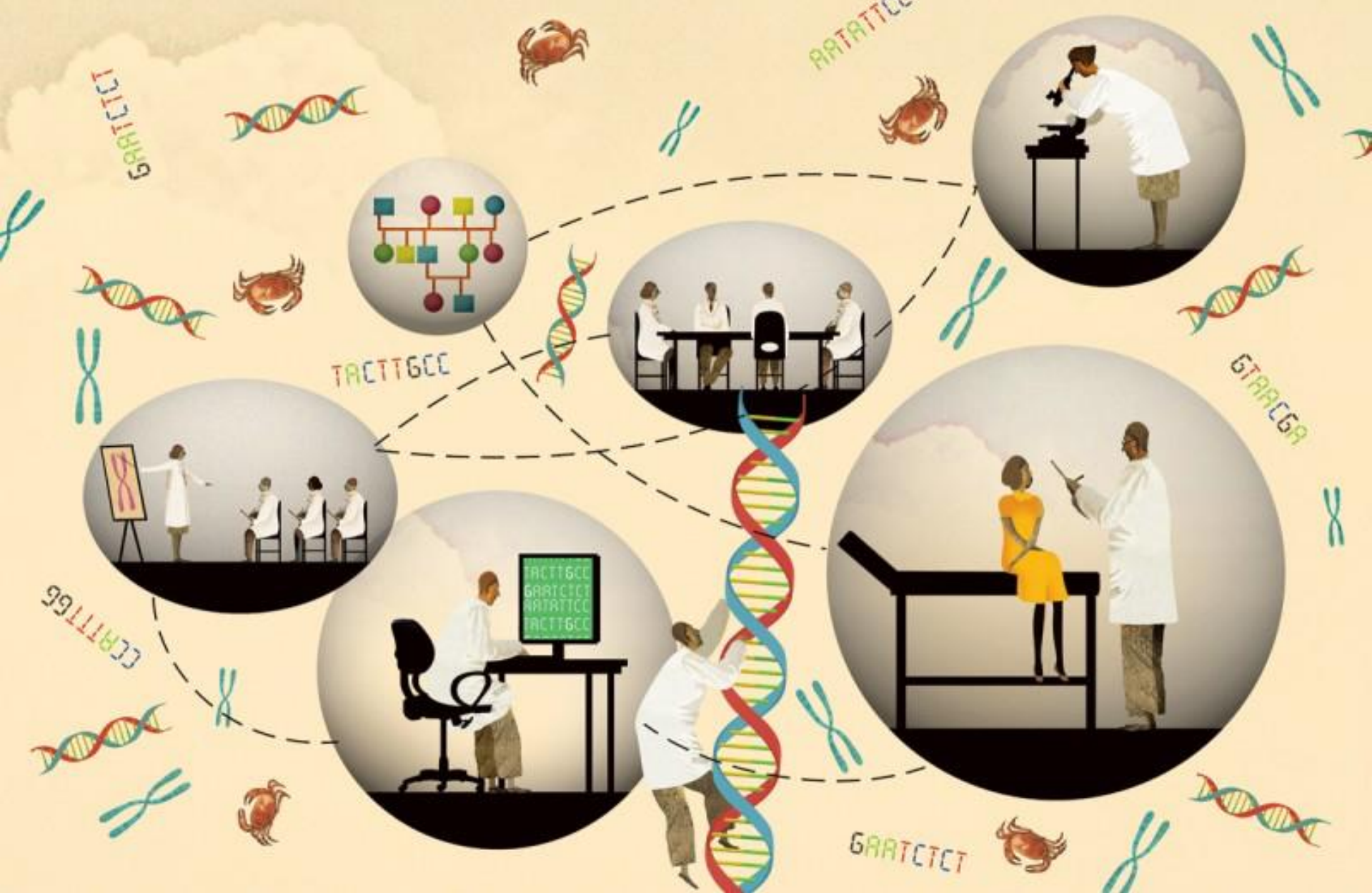


Master Biomedical Sciences

Dr. Lars Eijssen





MBS Specialisation

Genetics and Genomics

Your team

Module coordinators



Prof. Dr. **Edwin Mariman**
E. e.mariman@maastrichtuniversity.nl
T. ++31-43-388-2896



Prof. Dr. **Ernst-Jan Speel**
E. ernstjan.speel@mumc.nl
T. ++31-43-387-4614

Co-coordinators

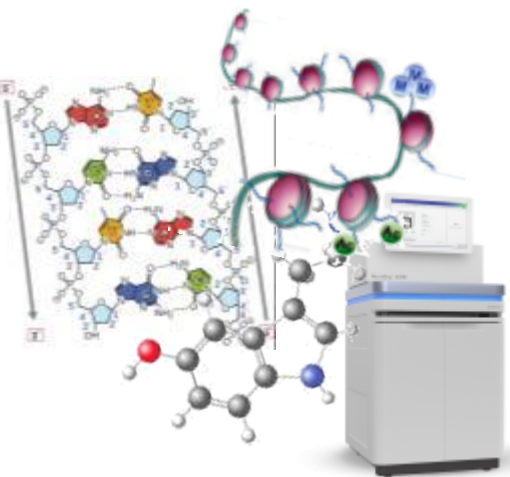


Dr. **Lars Eijssen**
E. l.eijssen@maastrichtuniversity.nl
T. ++31-43-388-1187

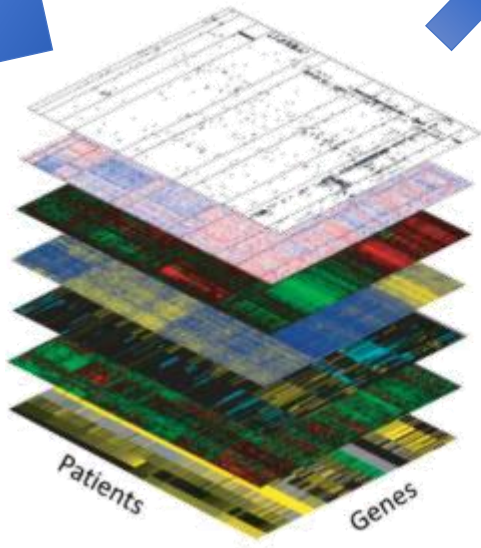


Dr. **Jo Vanoevelen**
E.j.vanoevelen@maastrichtuniversity.nl
T. ++31-43-387-2982

Measurements and Technologies



Model Systems



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

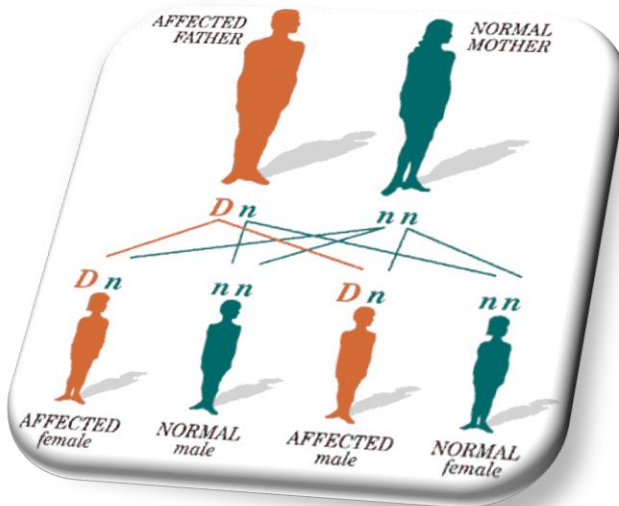


Toxins, Nutrients, Forensics

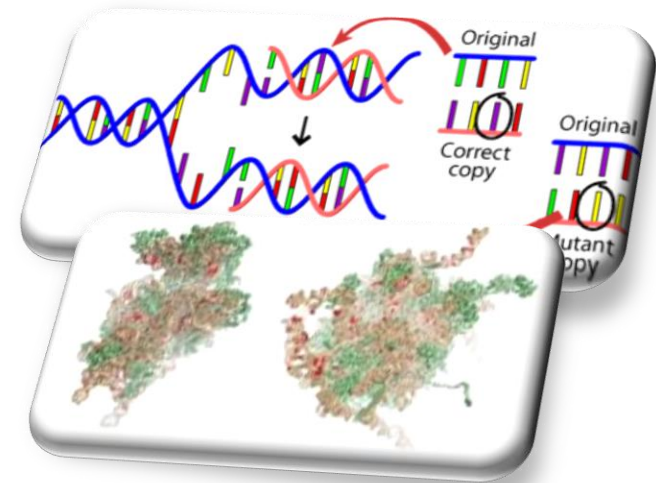


Clinical Genetics & Genomics

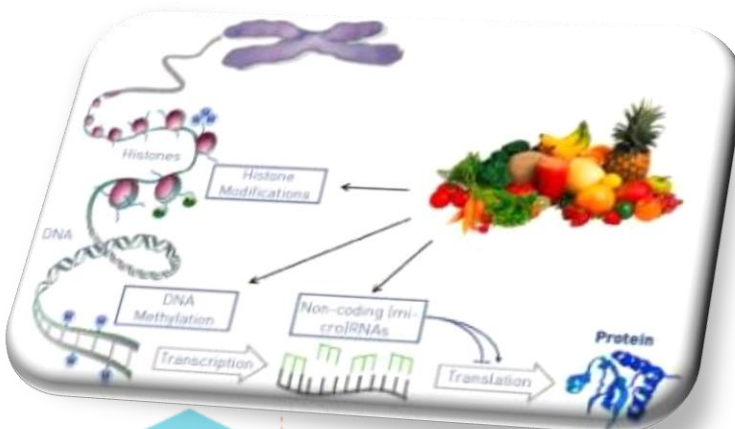
HEREDITARY FACTORS



GENETIC VARIANCE / GENE EXPRESSION



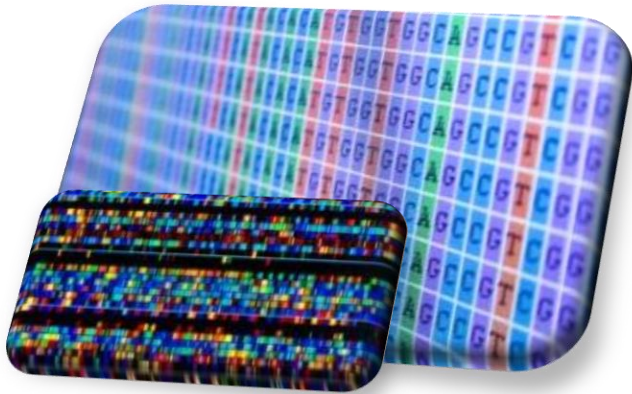
ENVIRONMENTAL INFLUENCES



COMPLEX GENE-ENVIRONMENT INTERACTIONS



HIGH-THROUGHPUT MEASUREMENTS



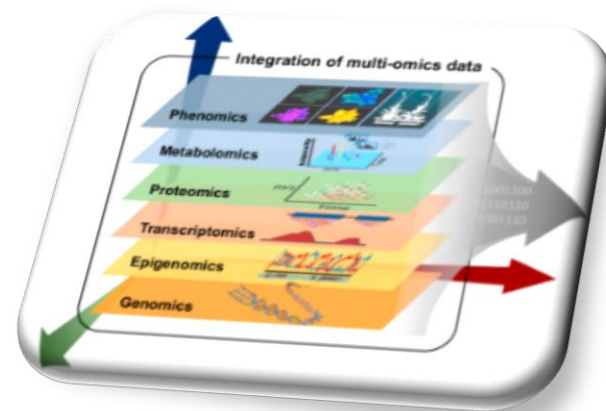
DATA ANALYSIS



LEGAL AND ETHICAL ASPECTS



SYSTEMS BIOLOGY



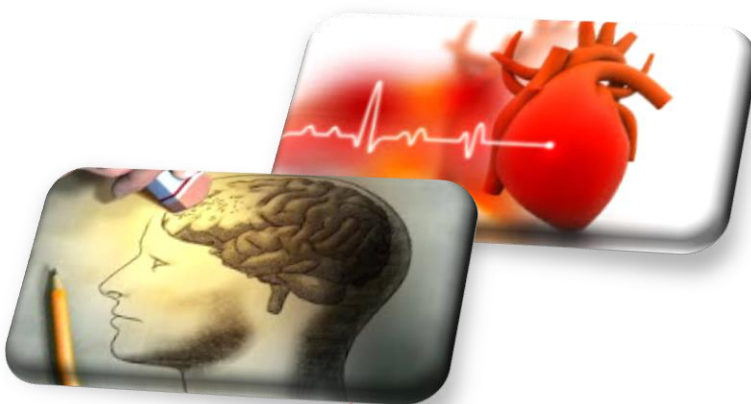
MODEL SYSTEMS



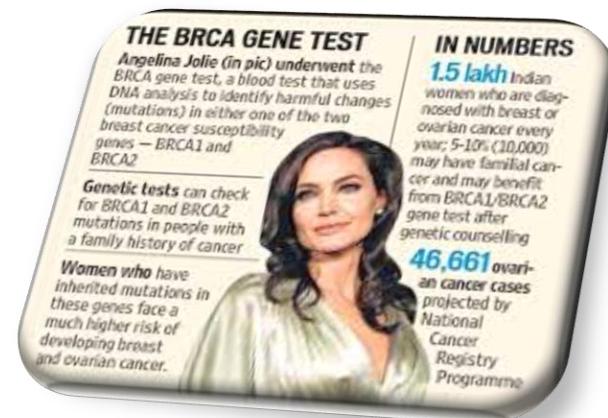
FORENICS



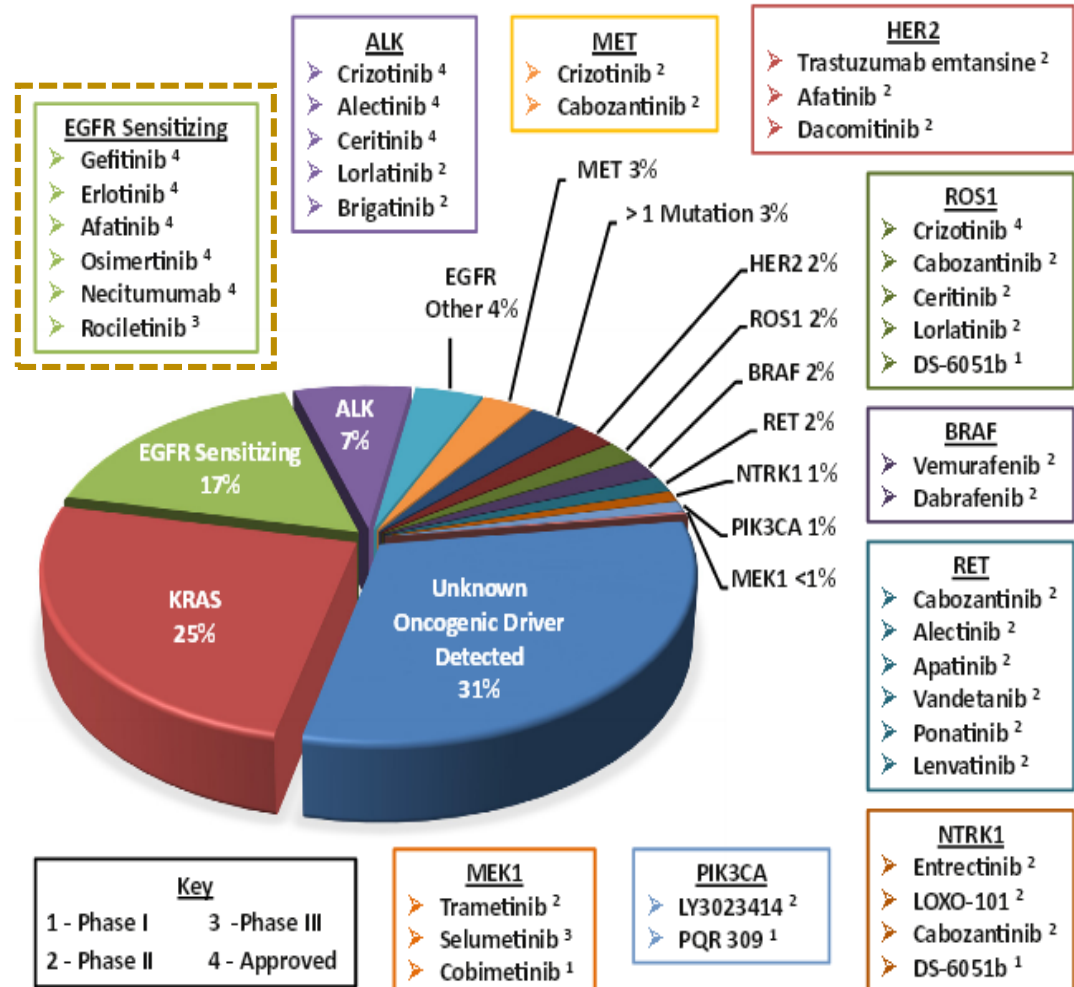
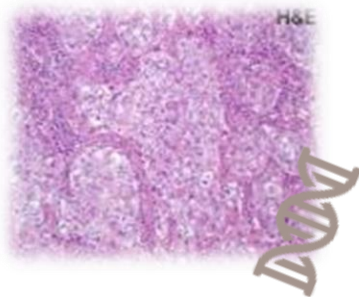
CARDIO- AND NEUROGENETICS



CANCER GENETICS

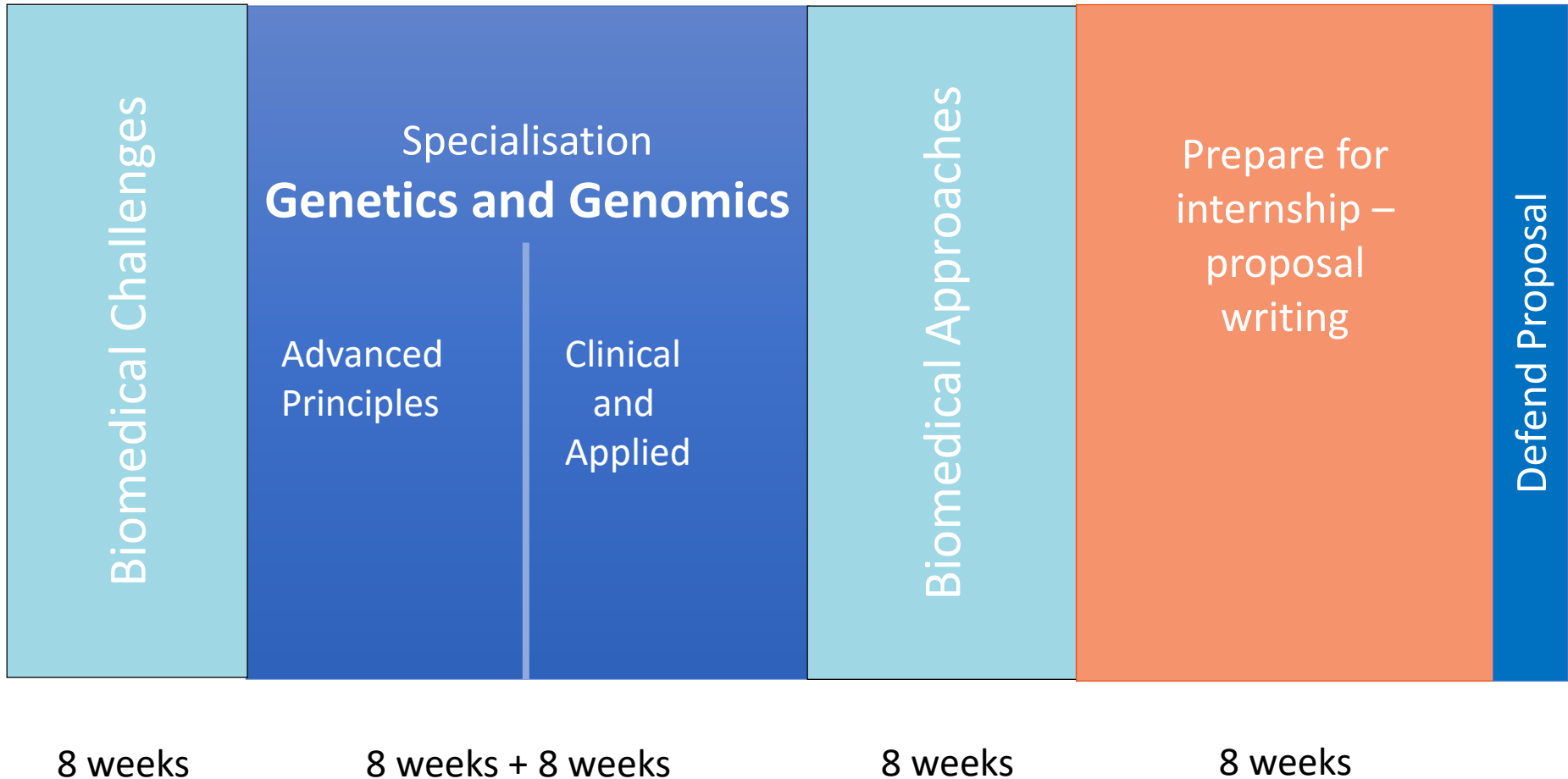


Example: Personalised medicine in lung cancer



This patient:
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

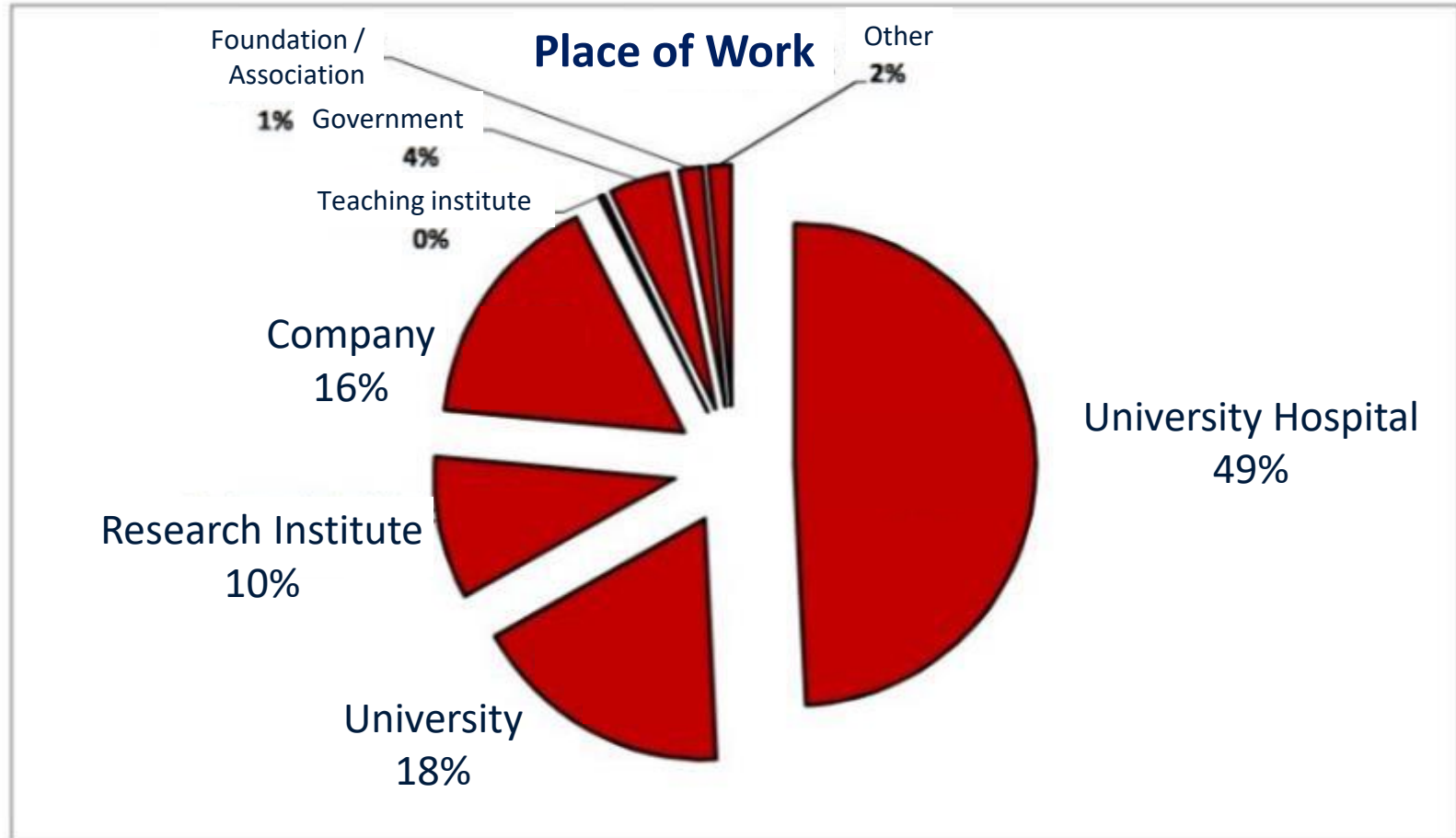


Career perspectives



- *Prospects on labour market are good-excellent !*

Career opportunities



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?

