



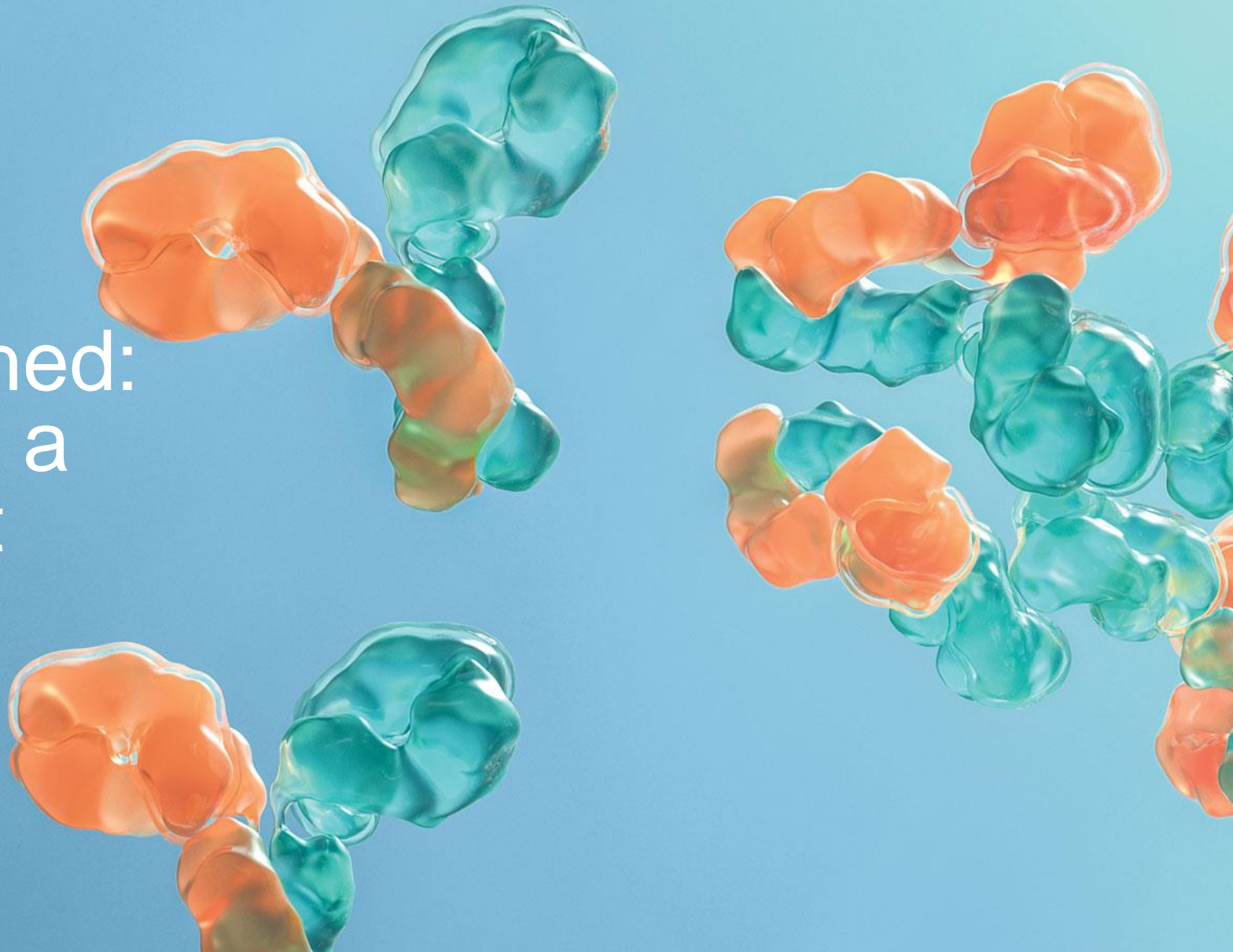
Genmab

Antibodies unleashed: The career path of a curious scientist at Genmab

Bas Rosier, PhD
Scientist

Functional characterization and bioassays

30-May-2024



Forward looking statement

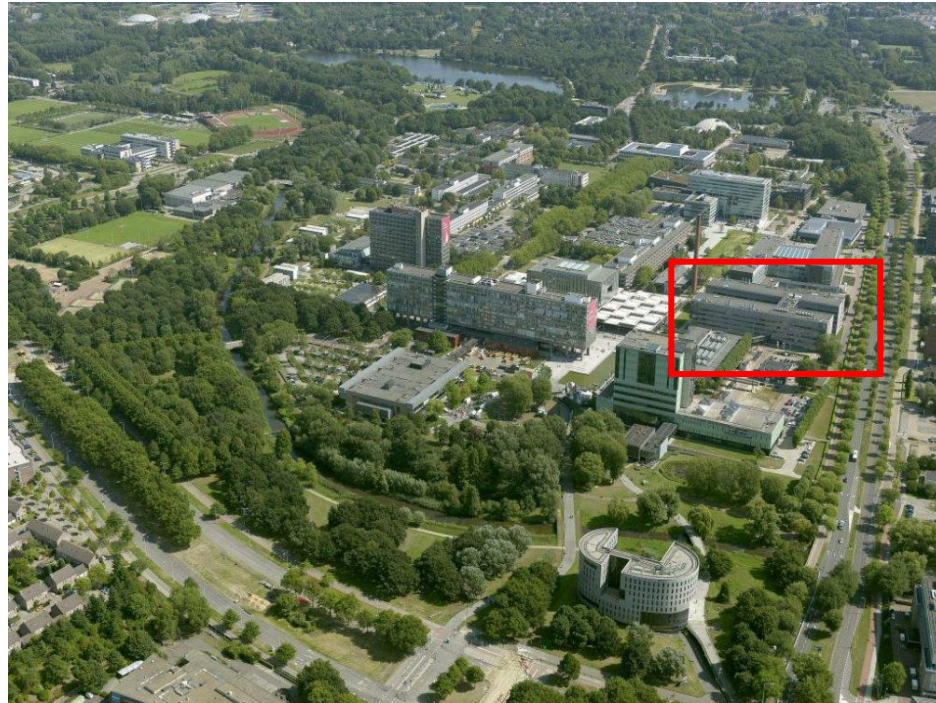
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12 April 2022



My academic career



Going international:



UCSB, Santa Barbara, USA (2012)

Wyss Institute, Harvard, USA (2014)

IBEC, Barcelona, Spain (2021)

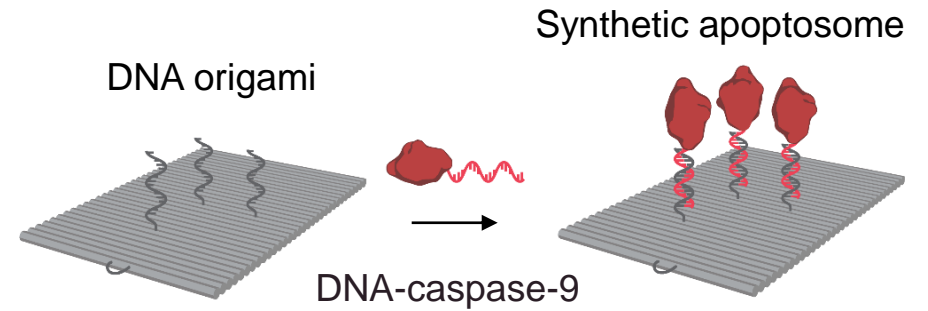
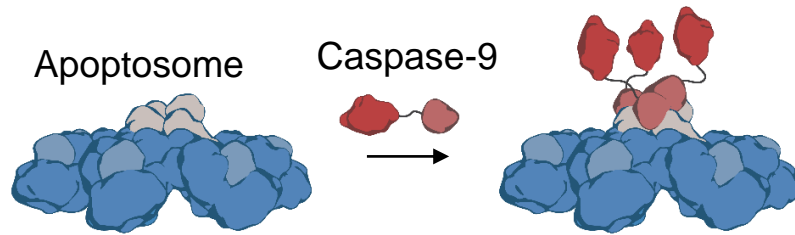
MSc Biomedical Engineering (2007–2014)

PhD Chemical Biology, DNA nanotech (2014–2019)

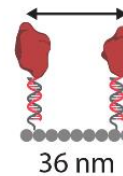
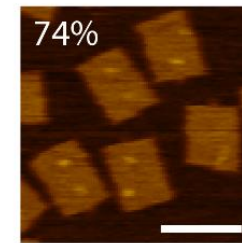
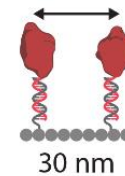
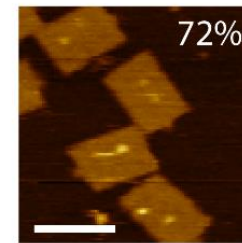
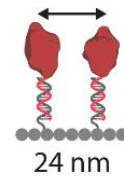
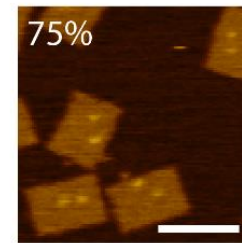
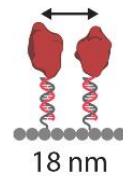
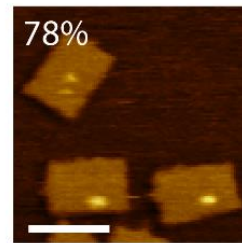
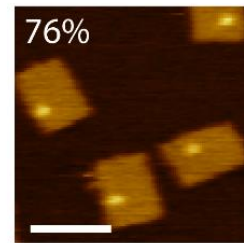
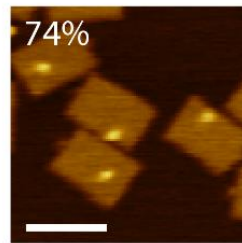
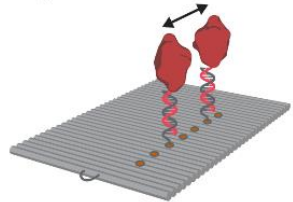
PD Biosensors and Immunoassays (2019–2021)

My PhD: DNA nanotech combined with chemical biology

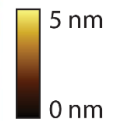
Apoptosis:



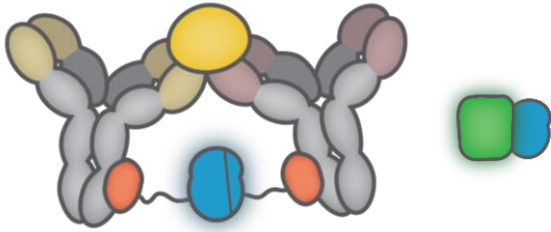
Perpendicular to axis



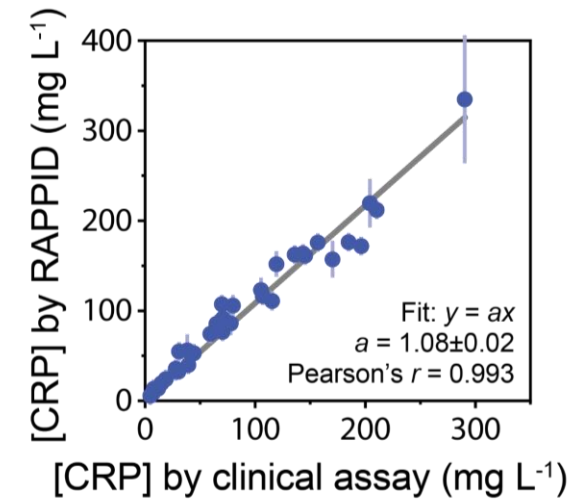
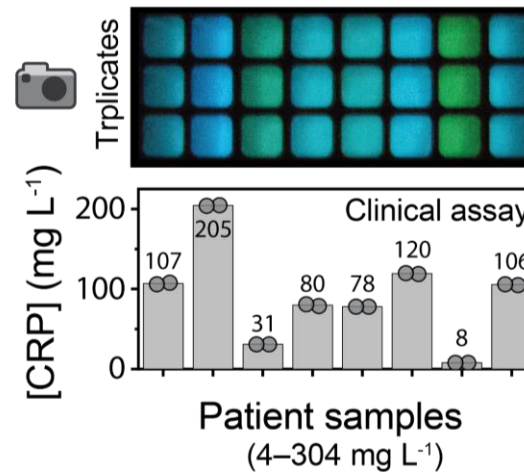
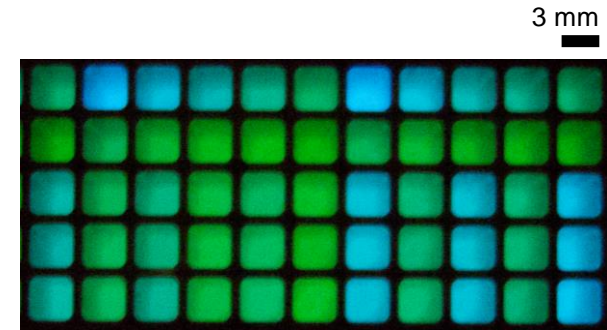
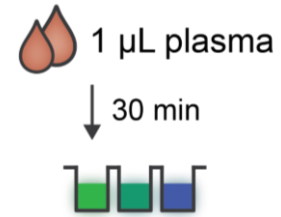
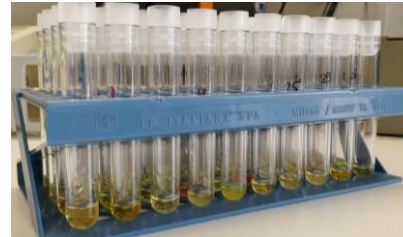
Scale bar, 100 nm



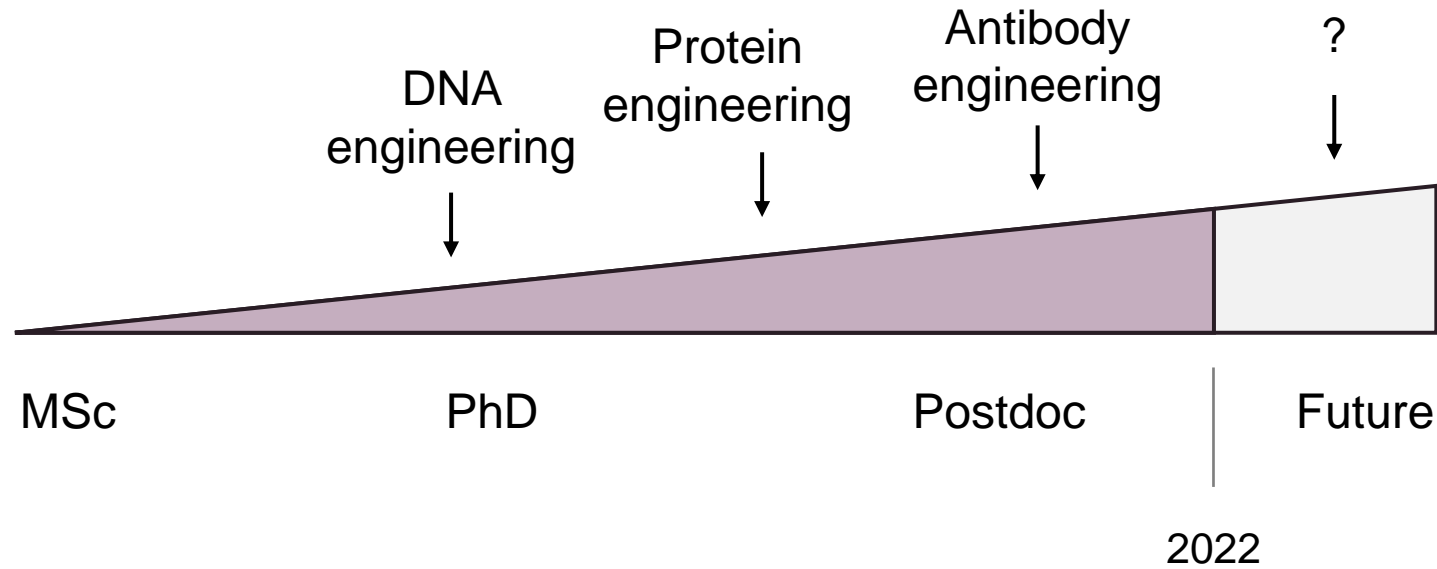
My postdoc: antibody engineering and immunoassays



Patient samples ($n=40$)

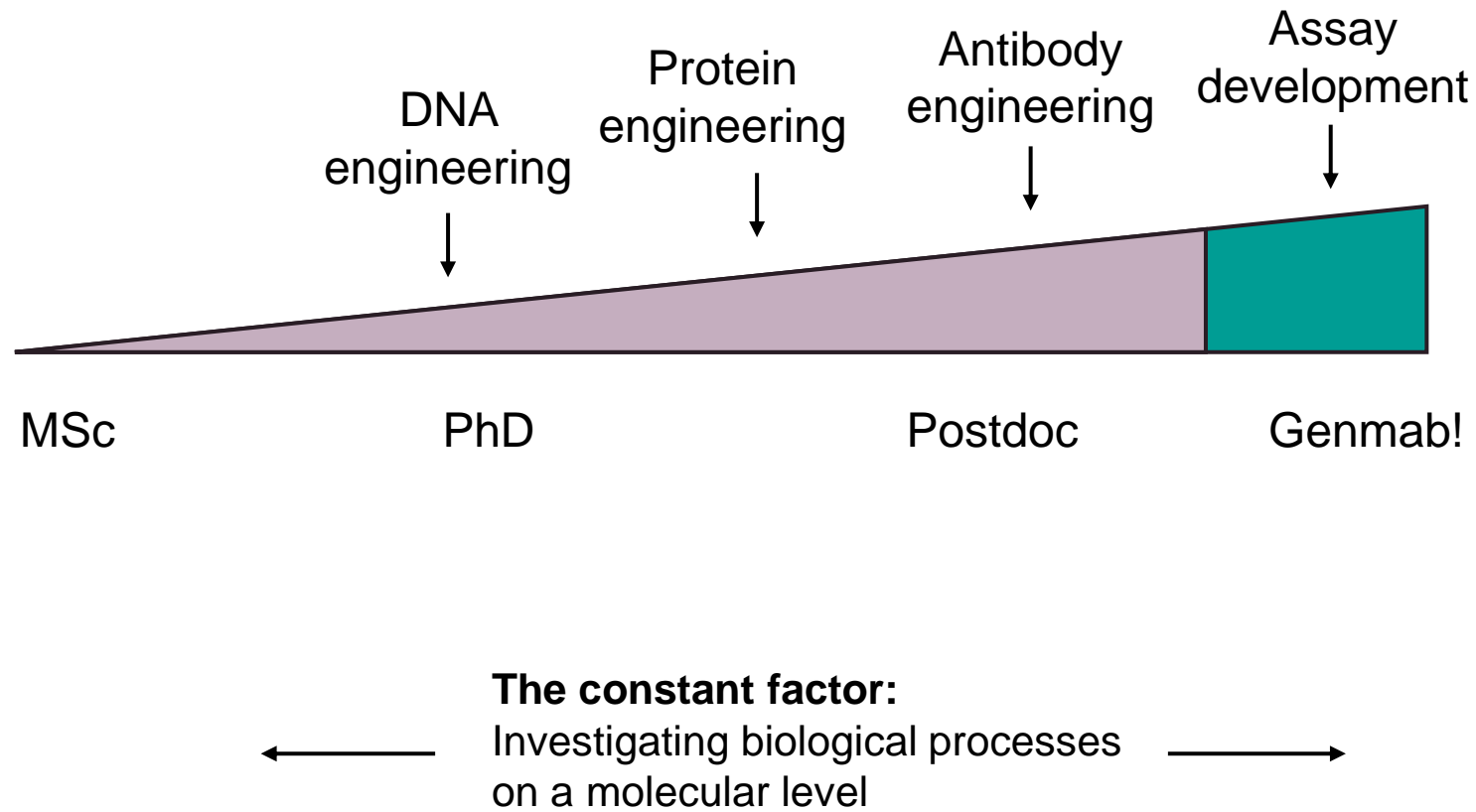


My scientific journey



The constant factor:
Investigating biological processes
on a molecular level

My scientific journey



12 April 2022

International Biotechnology Company

Genmab At-A-Glance



Who We Are:

Genmab is focused on the creation and development of differentiated antibody therapeutics for the treatment of cancer and other serious diseases



- Founded in 1999



- Dual-listed
- NASDAQ Copenhagen & Nasdaq Global Select Market



- Headquarters: DK
- Global R&D Center: NL
- Laboratories & Offices: USA
- Regional Offices: JP



- 8 approved medicines incorporating Genmab's innovation
- Over 40 INDs
- 10 products in clinical development



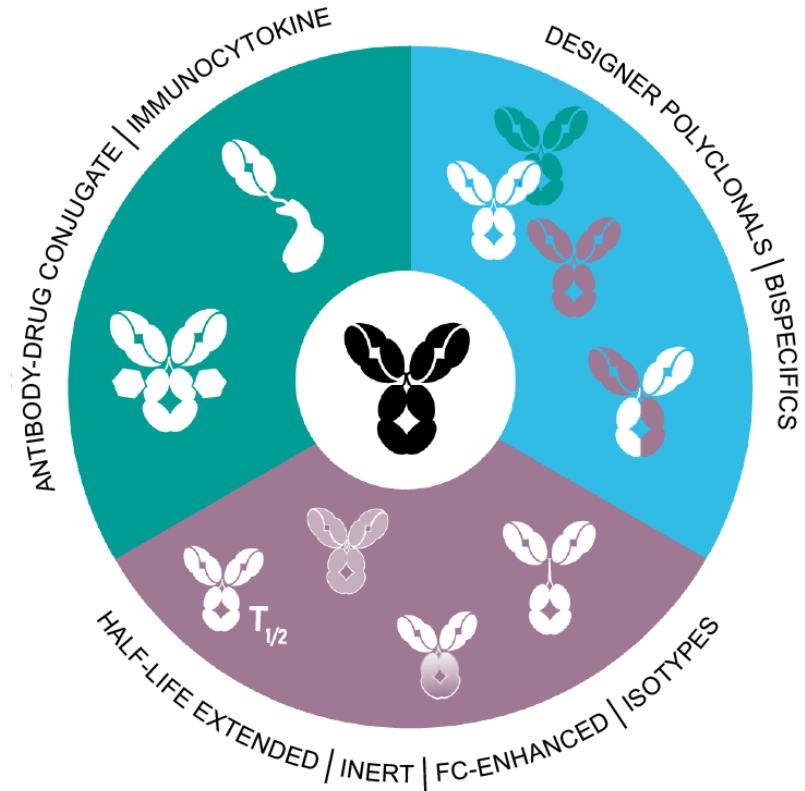
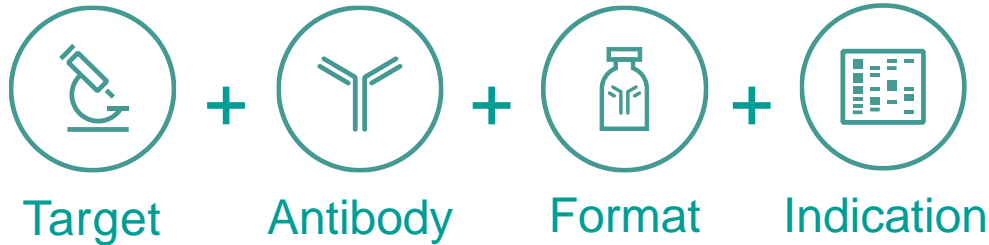
- More than 2,000 full-time employees

Our Approach to a pipeline of Knock-Your-Socks-Off antibodies

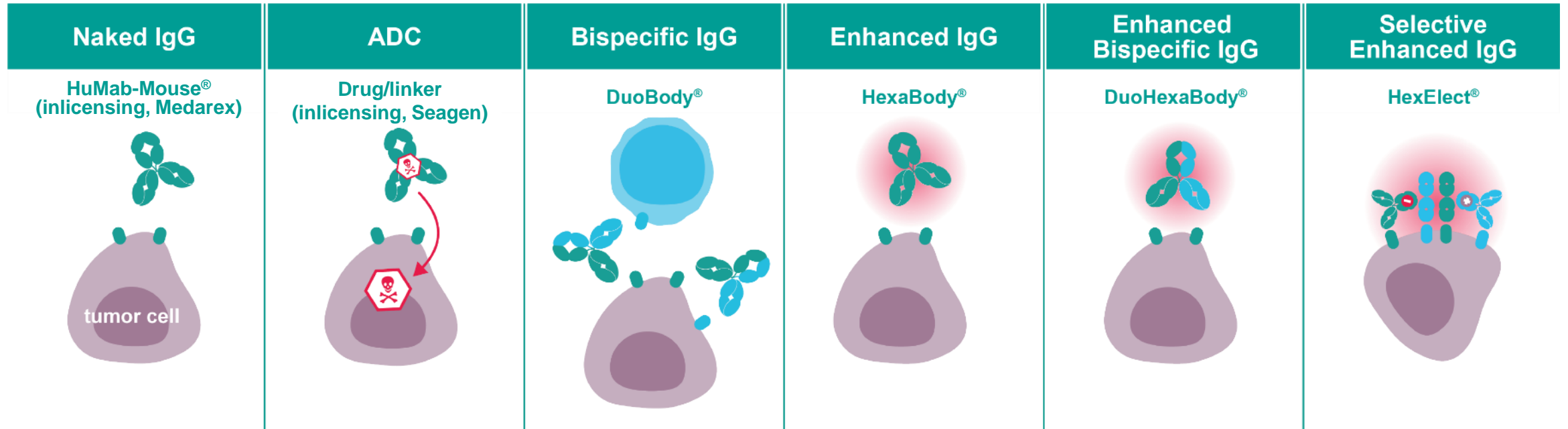
Antibody Product Ideation: Technology Platform as Critical Ingredient

K Y S O[®]

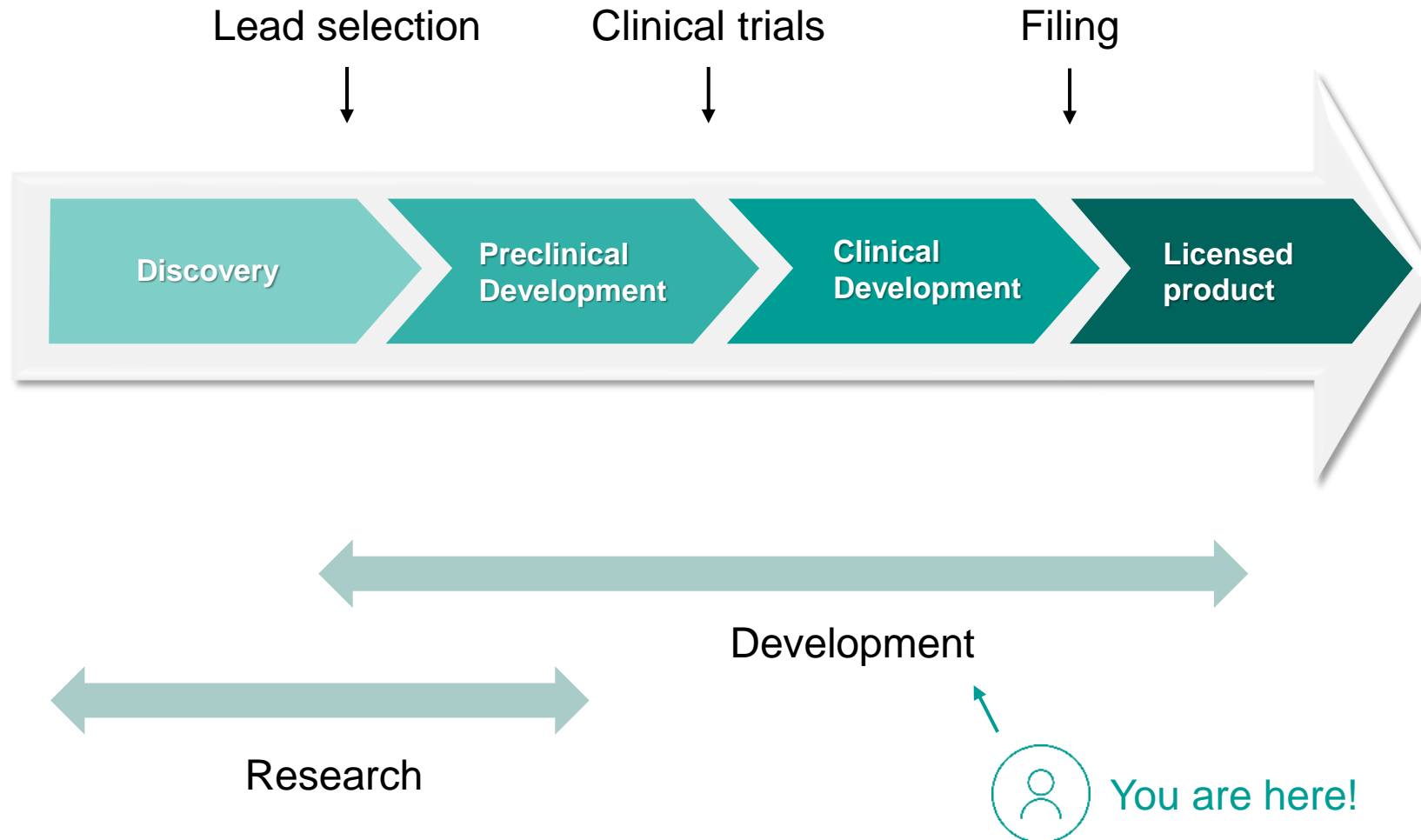
KNOCK YOUR SOCKS OFF



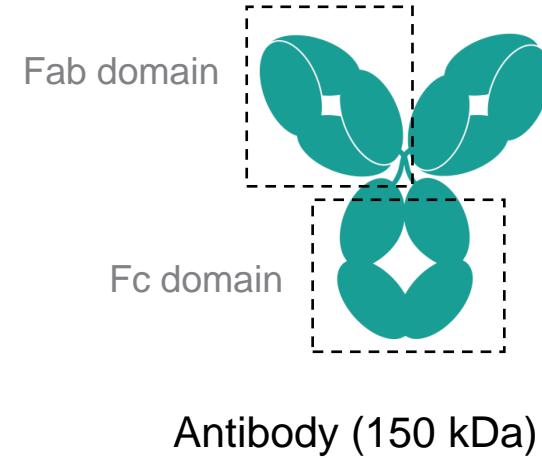
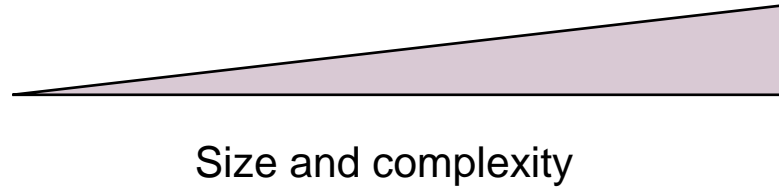
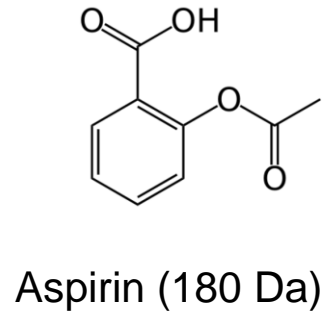
Genmab's proprietary & licensed antibody technology innovation creates differentiated antibody products



The R&D pipeline for antibody therapeutics

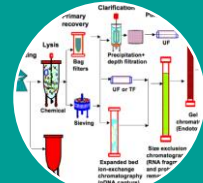


At CMC we characterize and control the complexity of our products



Chemistry

- Know your molecule and its mode(s) of action



Manufacturing

- Design a consistent and sustainable process



Control

- Collect data with suitable methods

Product characterization: ensuring safety and efficacy, every time!

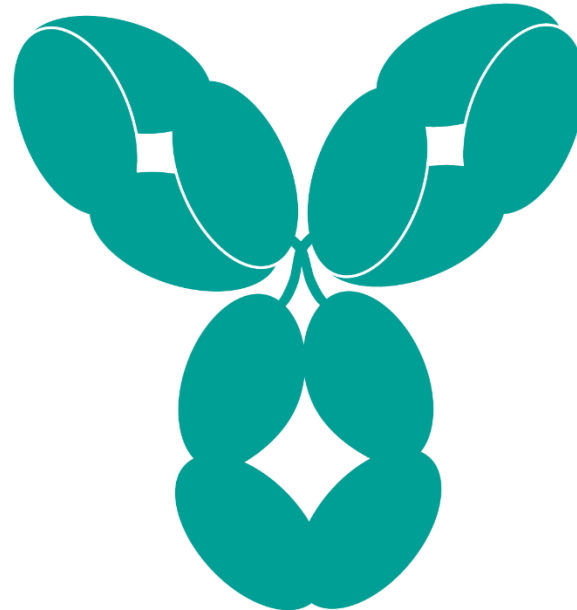
Physical, chemical, biological or microbiological property or characteristic that should be within an appropriate limit, range, or distribution to ensure the desired product quality.

Functional characteristics

- Antigen binding
- Potency
- Effector functions



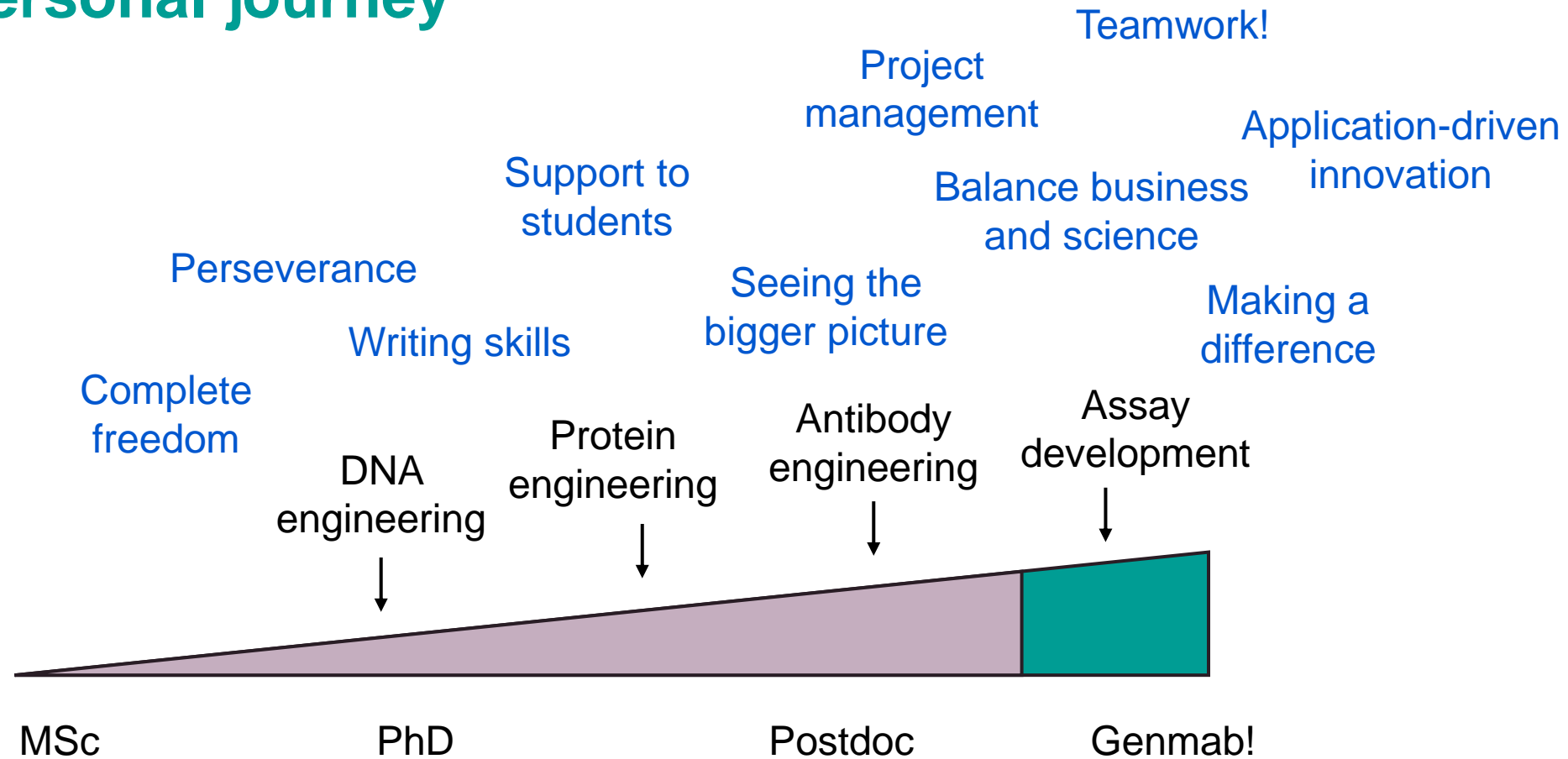
You are here!



Physicochemical characteristics

- Aggregation
- Fragmentation
- Amino acid modifications
- Glycosylation
- Disulfide bonds
- N- and C-terminal heterogeneity

My personal journey



← **The constant factor:** Curiosity, analytical thinking, and possibility to dive deep →

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Genmab

Netherlands



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Job type ▾

Experience level ▾

Location ▾

Remote ▾

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Genmab
Utrecht, Utrecht, Netherlands
 Actively Hiring
3 weeks ago

Genmab 25 **Research Associate, Development Materials (Purification)**
Genmab
Utrecht, Utrecht, Netherlands
 Actively Hiring
1 month ago

Genmab 25 **Research Associate, High Throughput Molecular Tools & Expression**
Genmab
Utrecht, Utrecht, Netherlands
 Actively Hiring
3 weeks ago

Associate Director, Translational Medicine (Solid Tumor)
 2 Locations
 Posted 2 Days Ago
R10255

Senior Scientific Writer
 Utrecht
 Posted 5 Days Ago
R10412

Intern, Translational Data Science (Project: Exploring Cancer's Sugary Secrets)
 Utrecht
 Posted 14 Days Ago
R10566

