

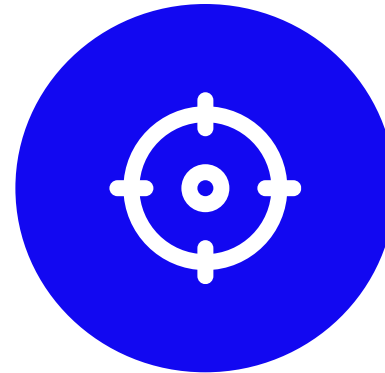
**PRECIRIX**  
precision radiopharmaceuticals

# Targeted therapies have revolutionized oncology

Then



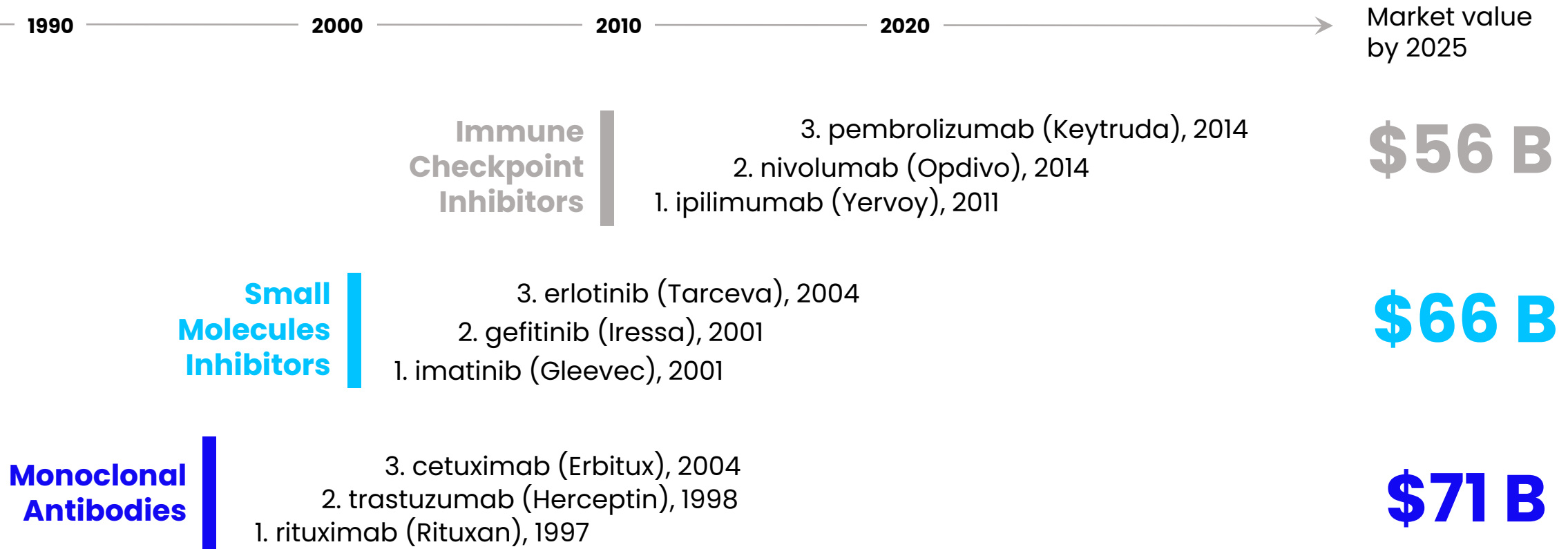
Now



**150+**

approvals in  
28 types of cancer  
since 1997

# Evolution of targeted therapies for cancer



# Welcome to **Precision Radiopharmaceuticals**



# PRECIRIX

precision radiopharmaceuticals

inkef capital

Jeito

**Forbion.**  
Impacting the future of medicine

**Bio**  
ventures

Gimv

HealthCap

PONTIFAX

novo  
holdings  
Investors in life science

BioMedPartners

 Fournier-Majoie  
Foundation

**VUB** VRIJE  
UNIVERSITEIT  
BRUSSEL

innoviris  
.brussels  
empowering research

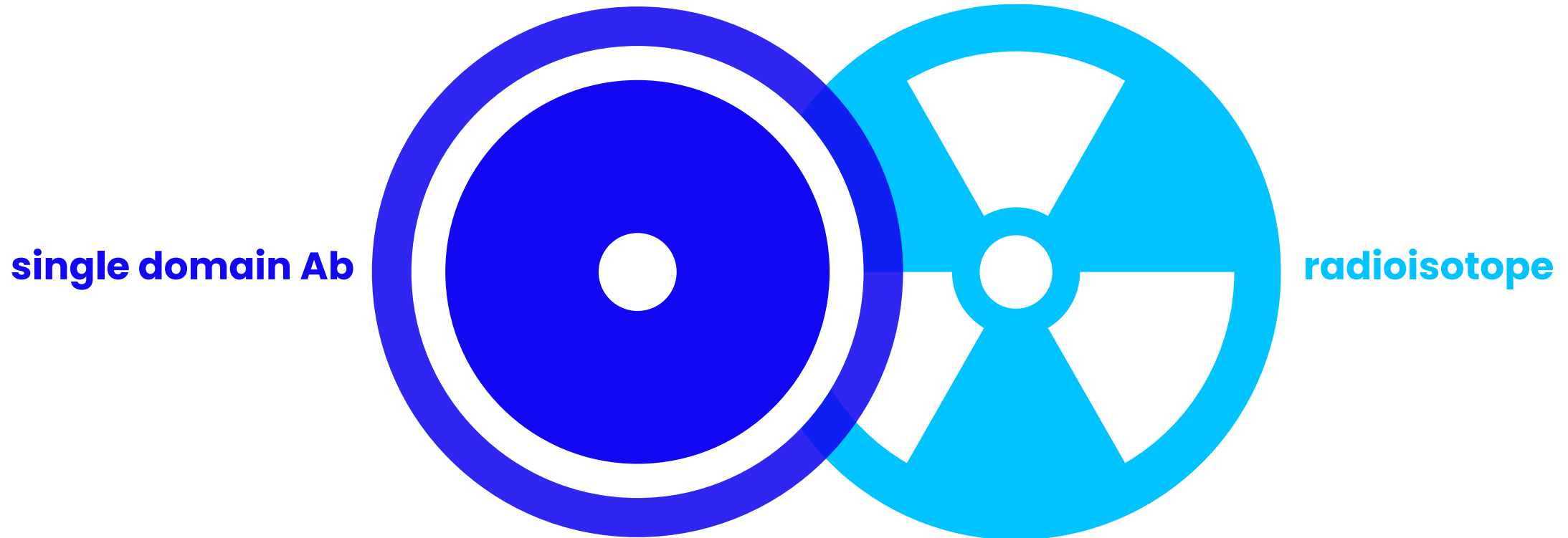
EUR 37m Series A in 2018  
EUR 80m Series B in 2022

Clinical-stage oncology company  
developing precision  
radiopharmaceuticals

Rich preclinical pipeline and  
discovery platform

IND approved Phase I/II ongoing with  
lead compound CAM-H2 targeting  
HER2-positive metastatic breast &  
gastric cancer with or without brain  
metastases

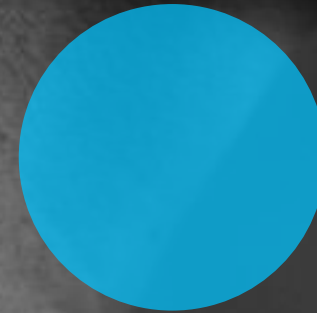
# Precirix precision radiopharmaceuticals

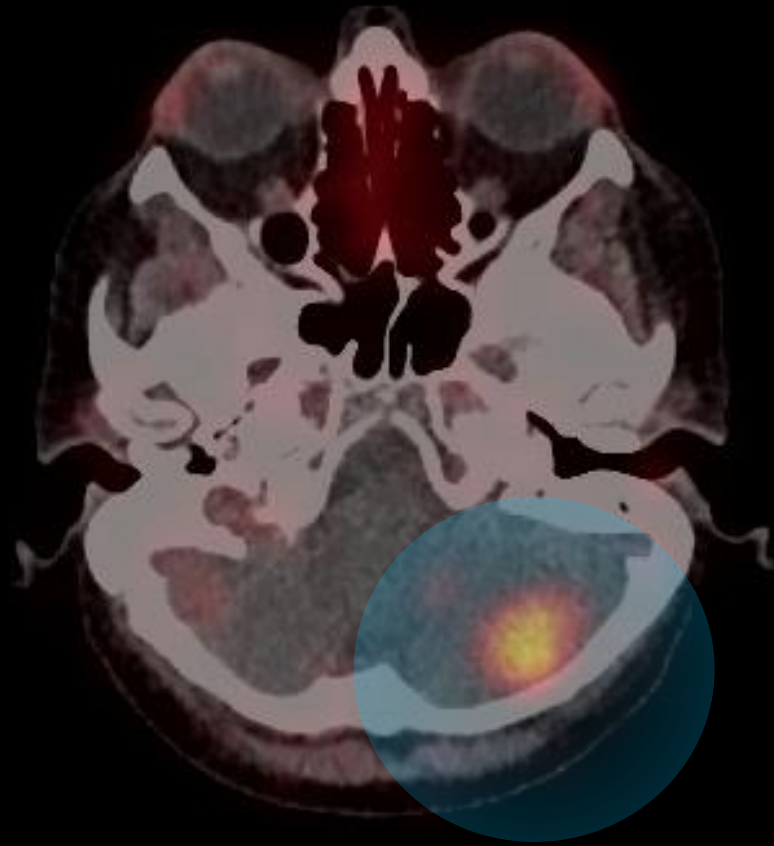




**We know  
it works**

Radioactive iodine  
treatment for thyroid  
cancer was **the first  
targeted therapy**  
ever to be developed  
for any cancer



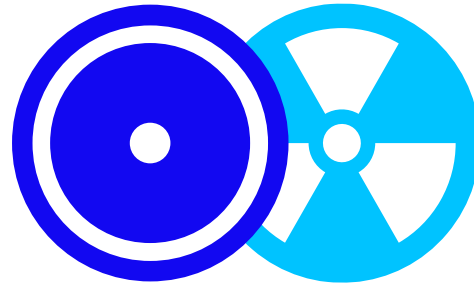
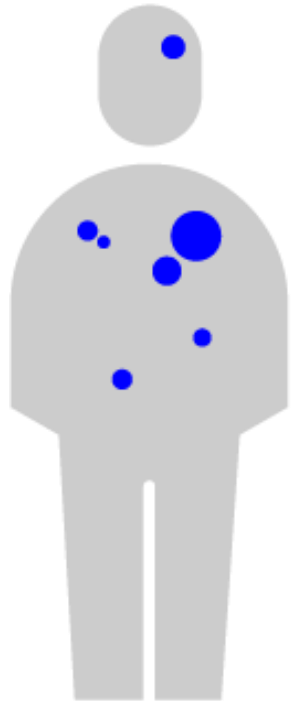




It's a  
platform



# Unique



**Radioisotope kills through DNA breaks**

Direct cell killing and bystander effects

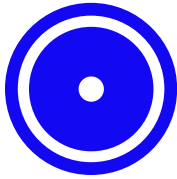
**Single domain antibody targets the cancer**

On target in minutes after IV infusion anywhere in the body

Deep tumor penetration and prolonged tumor retention

Rapid renal clearance of unbound product

# Flexible



## Multiple targets

cancer cells  
specific epitopes  
tumor microenvironment



## Different isotopes

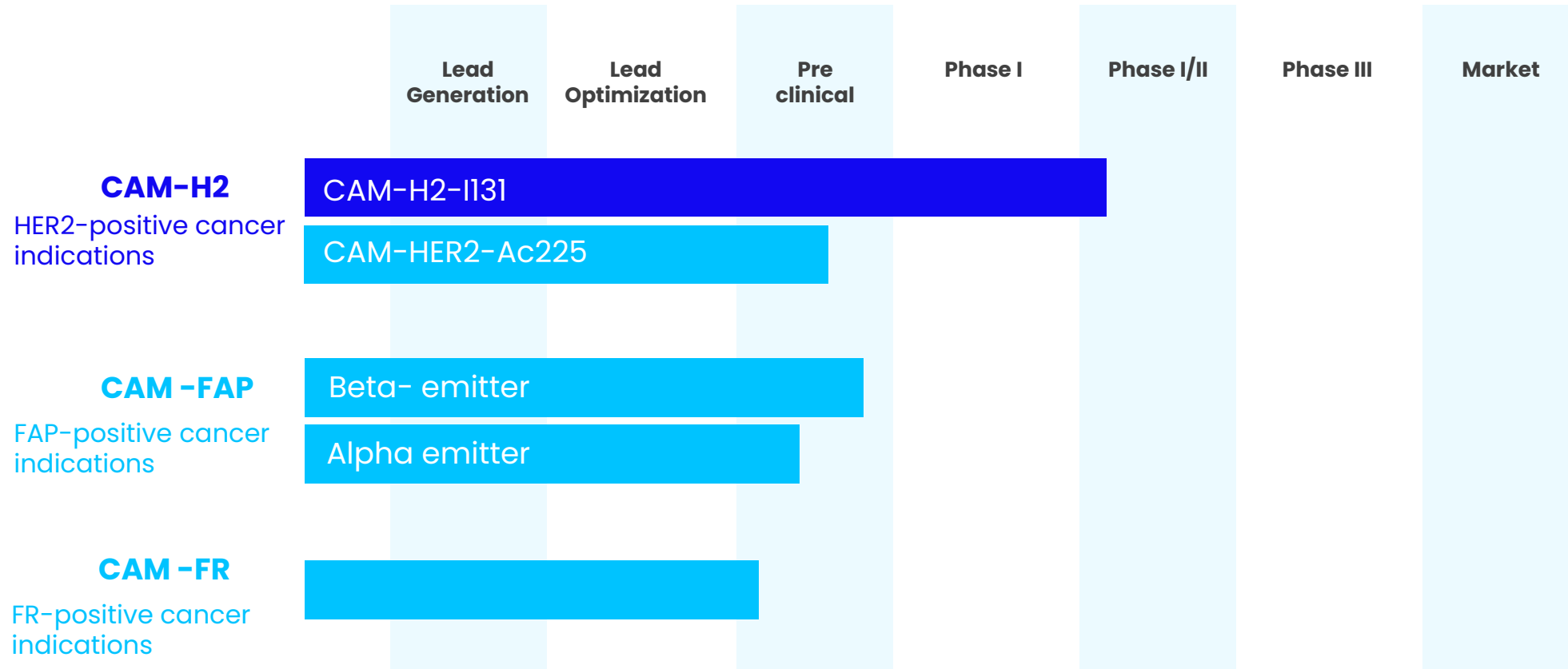
alpha emitters  
beta emitters



## Various applications

therapeutic  
patient selection  
combination therapy

# Broad



**H2:** HER2; **FAP:** Fibroblast Activation Protein; **FR:** Folate Receptor Alpha

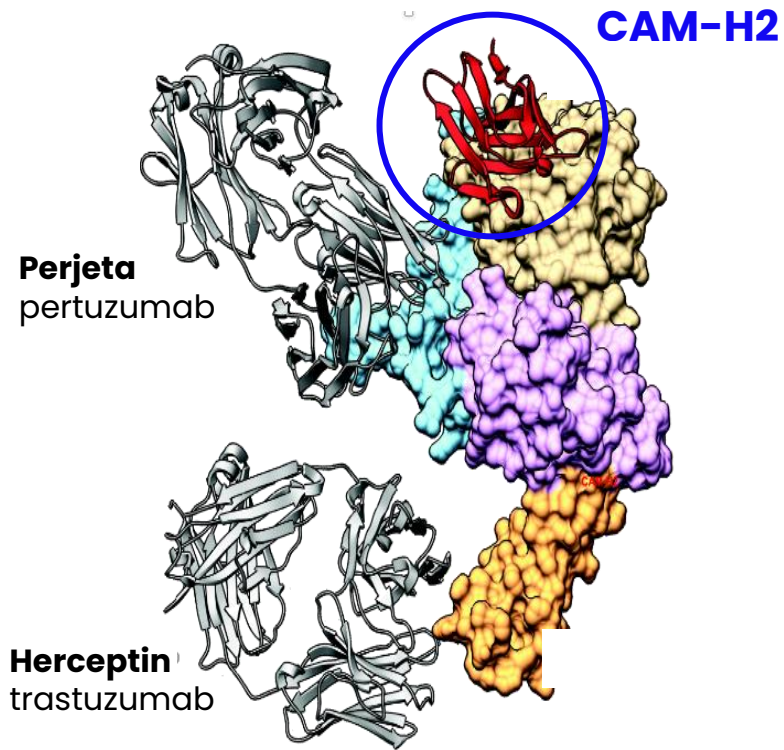
It's  
real



PRECIRIX®

# HER2

## CAM-H2 clinical candidate



**Resistance to HER2 therapy** is an issue for approved drugs, CAM-H2 targets a different epitope and brings a new mechanism of action

**Intra-tumoral HER2 heterogeneity** is associated with poor survival, CAM-H2 has crossfire effect that can target heterogeneous HER2-positive tumors

**Tissue penetration** is an issue for approved mAbs, CAM-H2 penetrates cancer tissues within minutes, including brain lesions

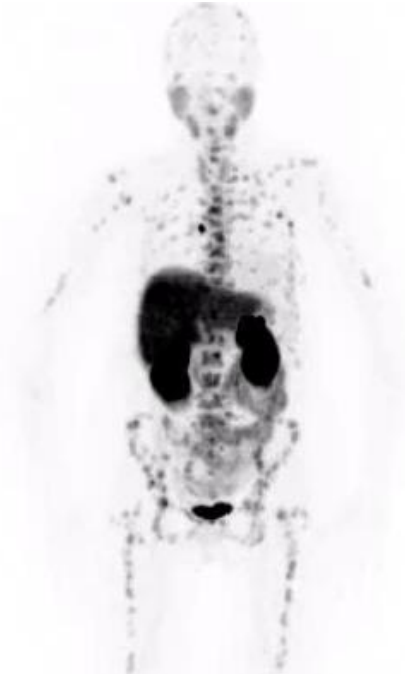
# PET imaging analogue supports development

## Gallium-68 labeled CAM-H2 in HER2-positive breast cancer

**Primary**



**Metastatic**



**Brain**



Keyaerts et al. (VUB Brussels)

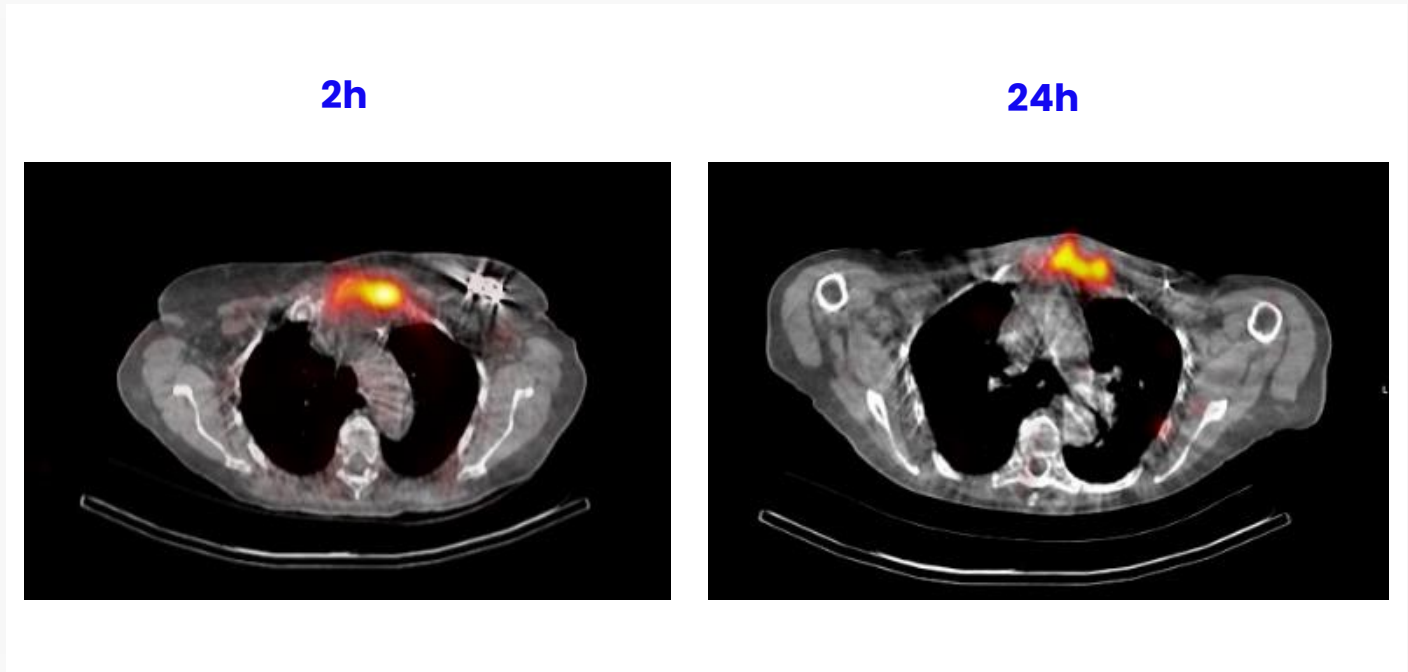
# Successful Phase I study

## CAM-H2-1131

6 healthy subjects, 3 patients  
biomarker dose

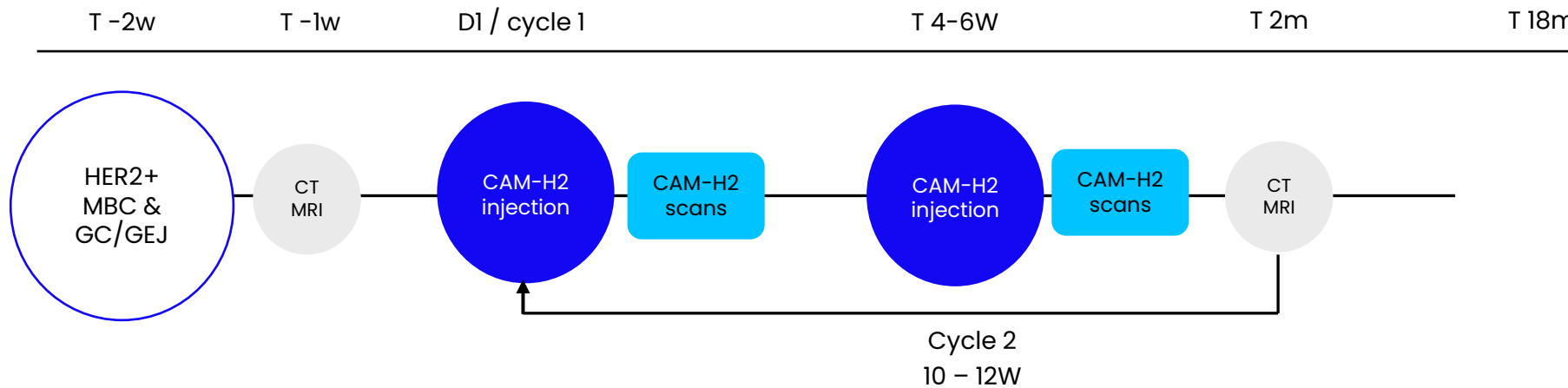
No drug-related adverse events  
Short biological half-life (7.7 hours)  
Kidney is the dose-limiting organ  
No accumulation in other organs

**Confirmed cancer targeting**





# Ongoing CAM-H2 Phase I/II study



## Phase I Dose Escalation Phase – Open label 3+3 design

4 cohorts = 1<sup>st</sup> cycle: 2 IV injections of 50/100/150/(200) mCi each, 4-6 wks apart

2<sup>nd</sup> cycle: 10-12 wks apart

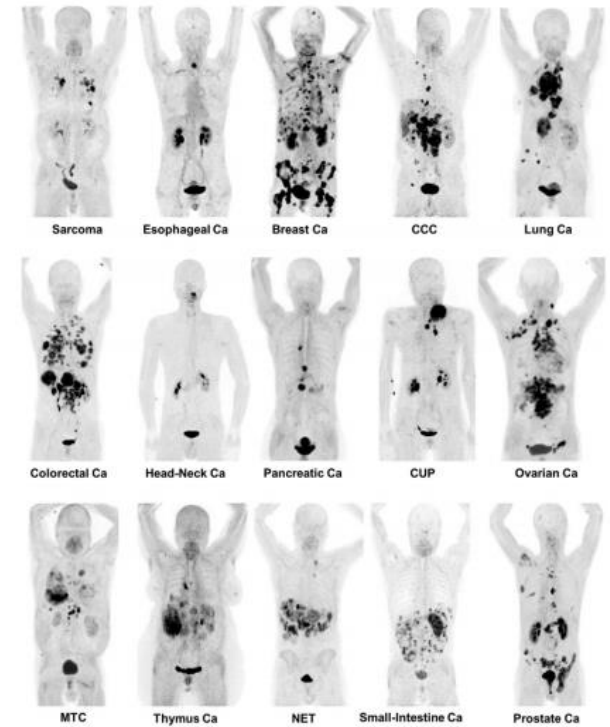
## Phase II Dose Expansion Phase

- CAM-H2 scan at tracer dose for inclusion
- n= 50 patients

# Fibroblast Activation Protein

## Targeting the tumor microenvironment

- FAP $\alpha$  is detectable in multiple cancer types, while rarely expressed in healthy adult tissues
- Its expression on cancer-associated fibroblasts makes it an ideal candidate to target the tumor microenvironment
- Some cancer cell types also overexpress FAP $\alpha$  (e.g. glioma)



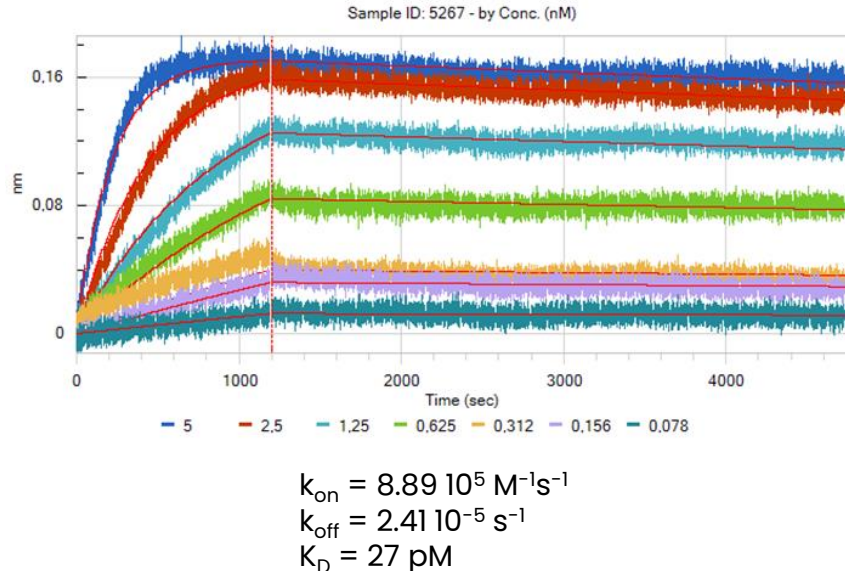
Kratochwil et al. *The Journal of Nuclear Medicine* 2019

# CAM-FAP – Characteristics

## FAP $\alpha$ -targeting sdAb: CAM-FAP

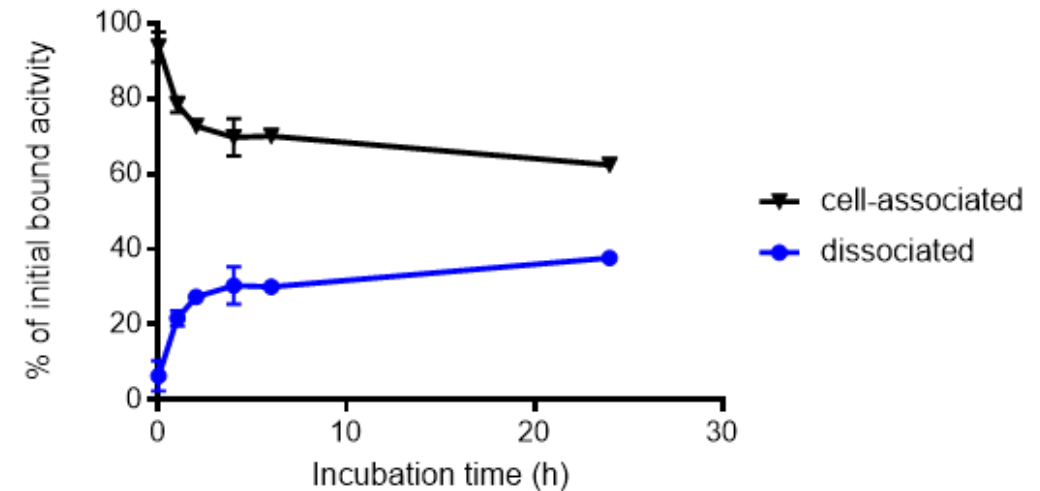
- Picomolar affinity for FAP $\alpha$
- Targets an epitope distinct from the enzymatic active site
- Binding does not interfere with FAP $\alpha$  dimerization

### Binding on recombinant FAP



Biolayer interferometry

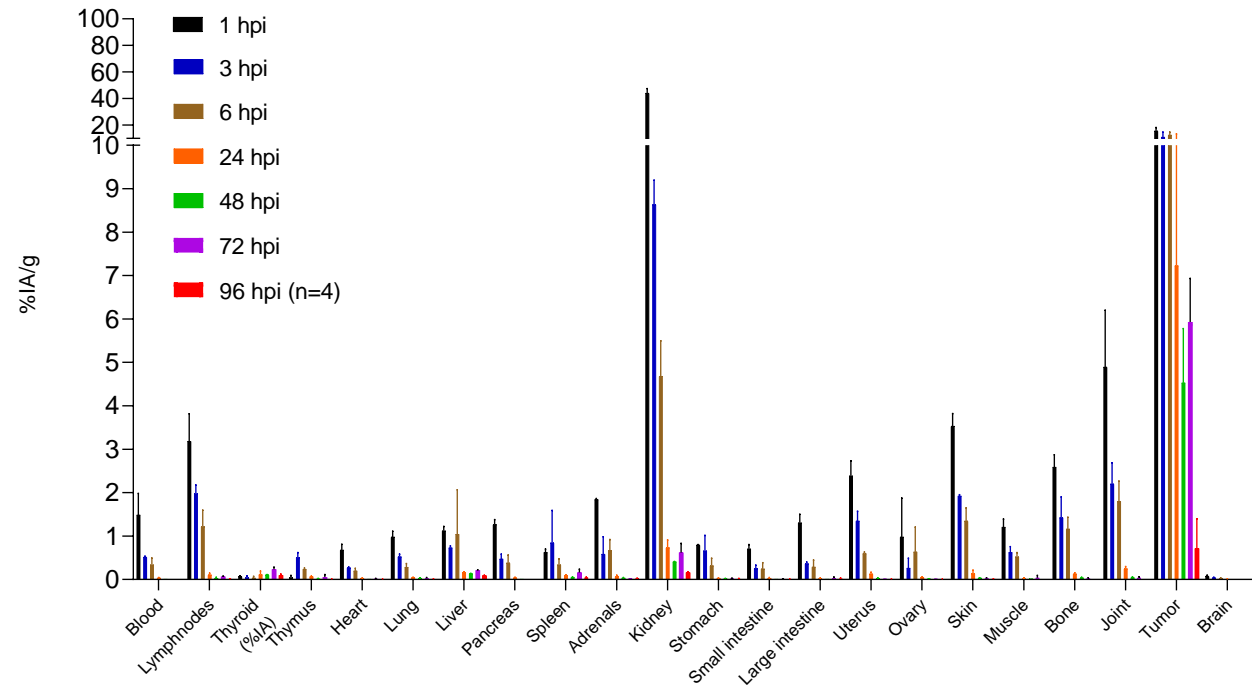
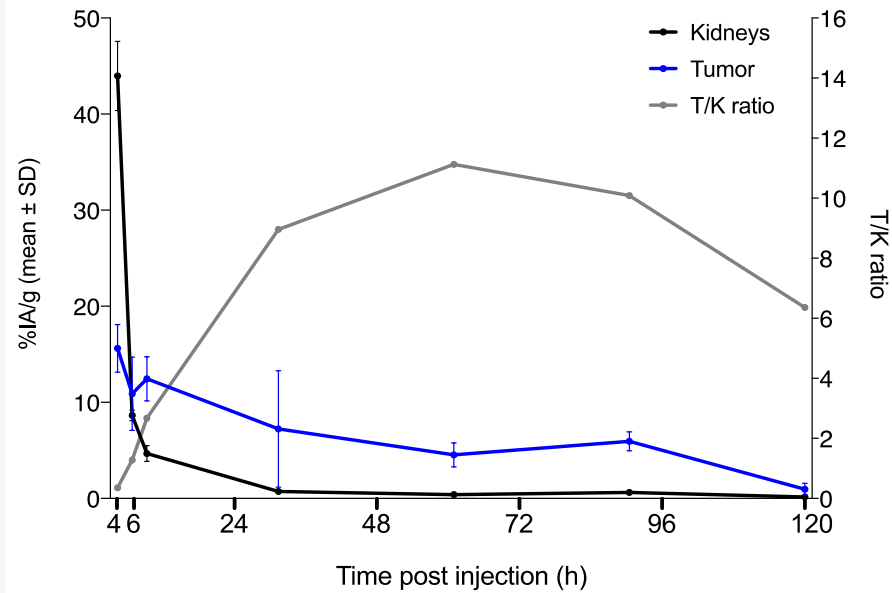
### Binding on FAP-expressing cells



Radioactive cell binding assay

# CAM-FAP – Biodistribution

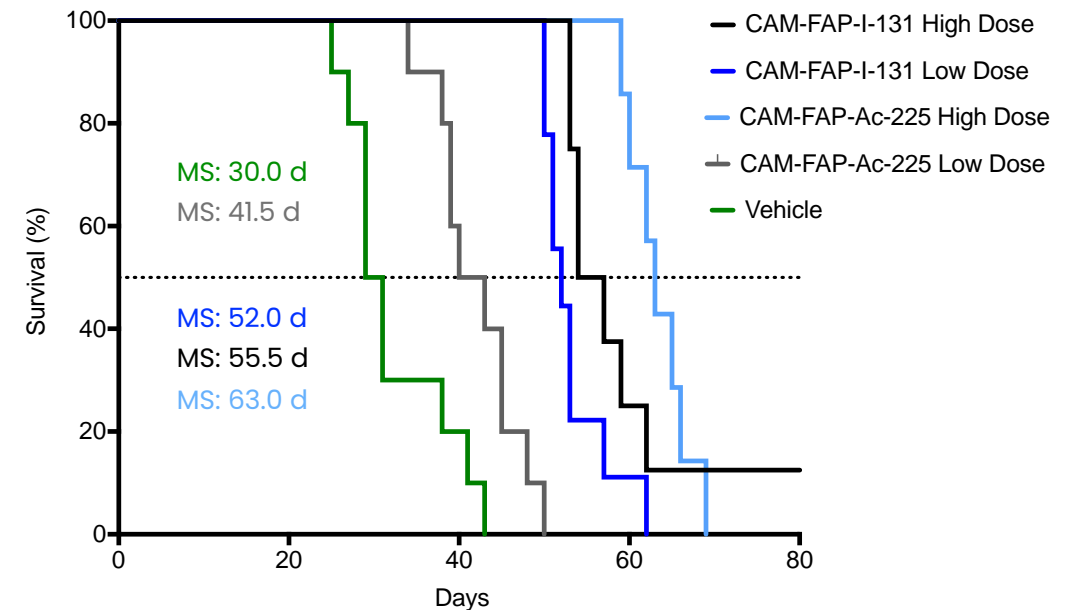
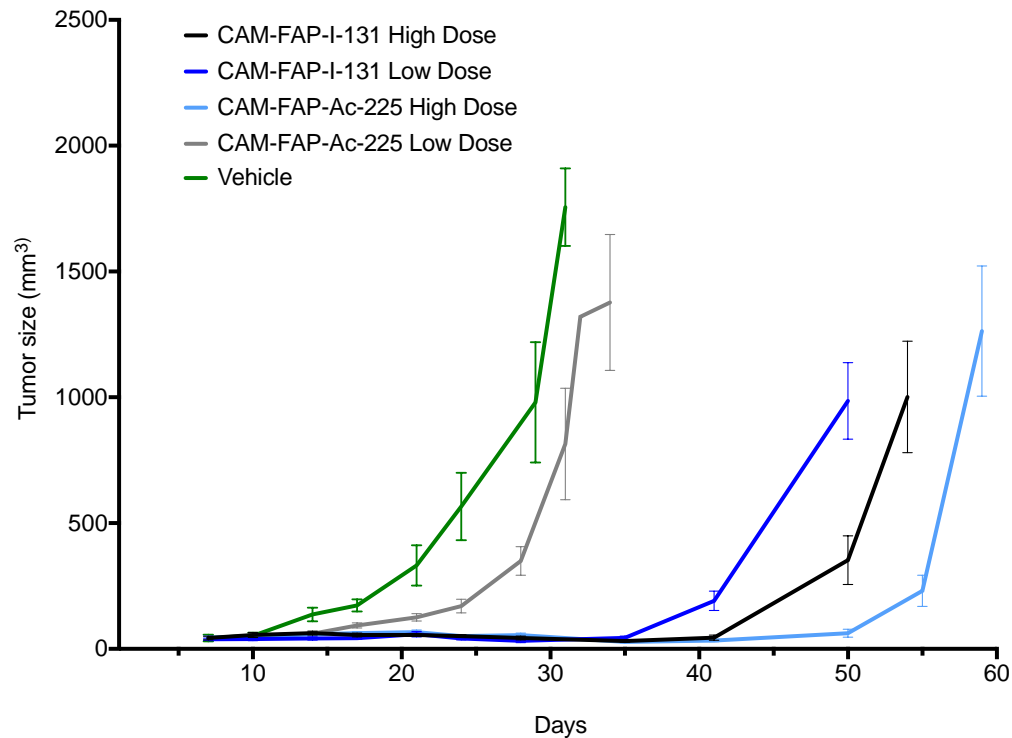
- Superior T/K ratio with CAM-FAP-I-131
- Fast kidney clearance and sustained tumor retention



# CAM-FAP – Therapeutic potential

## CAM-FAP-Ac-225 and CAM-FAP-I-131 are potent in FAP<sup>+</sup> U87 GM tumor xenografted mice

- Dose-dependent responses
- No signs of acute toxicity in mice



# It's Precirix



# Leadership team



## Ruth Devenyns CEO

25+ yrs healthcare investment banking and VC  
Prior Ogeda CFO until acquisition by Astellas  
Master in Applied Economics



## Tony Lahoutte CSO

15+ yrs in Nuclear Med Research  
Scientific Founder Precirix  
MD, PhD in Nuclear Medicine



## Niva Almaula CBO

20+ yrs business development  
Prior Head Business Development AAA  
PhD Biochemistry and Molecular Biology



## Dimitrios Mantzilas CTO

Former Head of Radiopharmaceuticals Development Bayer  
Prior Director Technology Development Algeta  
Prior Tech Transfer Leader Clinical Manufacturing GE Healthcare

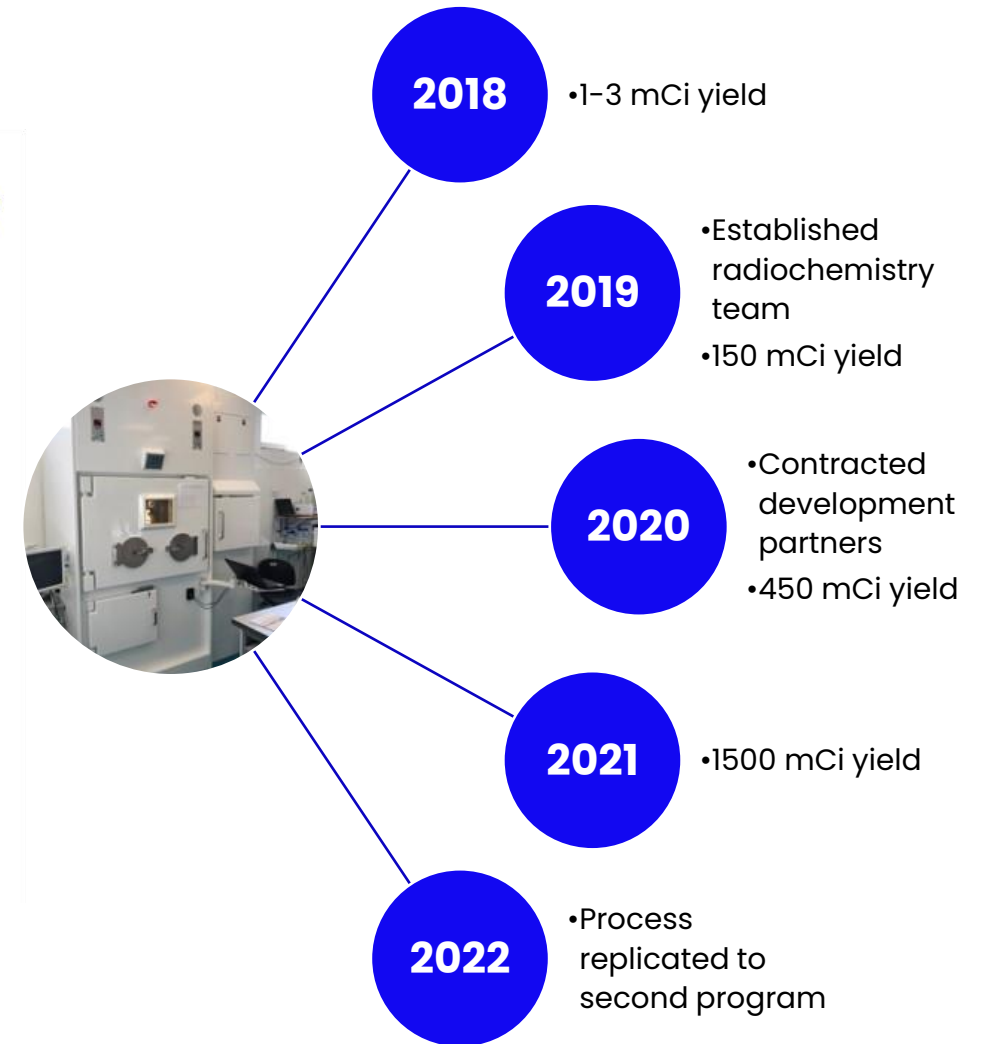
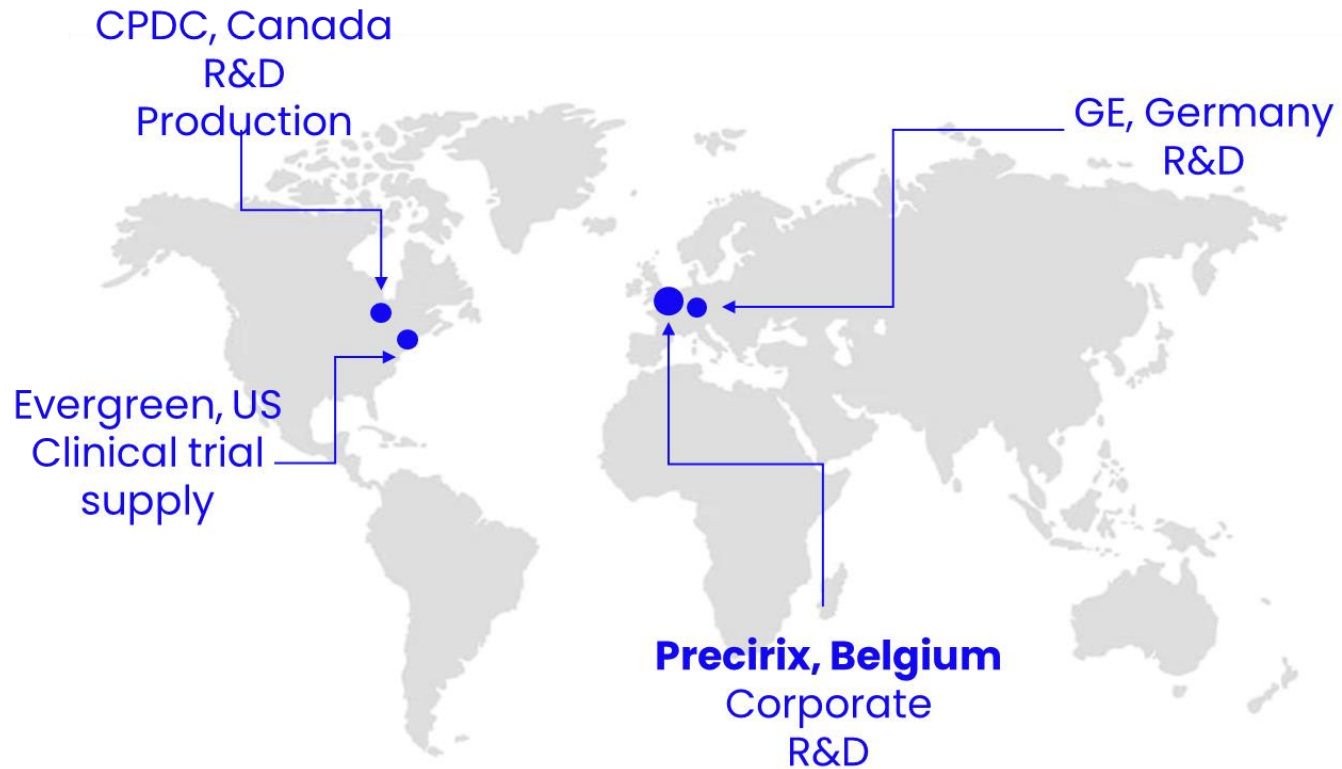


## Jennifer Wheler Consulting CMO

20+ yrs experience as oncologist  
Prior associate professor MD Anderson, Clinical Program Leader Novartis and biotech CMO  
Medical Oncology fellowships at MSKCC and Yale Cancer Center



# Cracking the manufacturing process





# Strong in-house skills



sdAb discovery



Radiochemistry



Preclinical testing



CMC



Clinical  
development



Corporate



# IP Portfolio

## HER2 – Therapy

WO 2016/016021

Protection of sdAb targeting HER2 linked to radionuclide, and its use for treatment of cancer expressing HER2

Patent granted in US

(US 9,855,348), Japan, S. Korea, Canada, Australia, Mexico, China

Patent pending in Europe, Hong Kong, Brazil.

## HER2 – Theranostic

WO 2017/013026

Protection of a method wherein a sdAb targeting HER2 linked to a radionuclide is used as a theranostic (diagnostic, then therapy), for the treatment of cancer expressing HER2

Notification of allowance received in US and EU

Patent pending in China, Brazil, Mexico, S. Korea, Japan, Canada, Australia, Hong Kong.

## Preclinical programs

WO 2022/053651

WO 2022/013225

Protection of sdAb as such

Protection of sdAb with any radiolabel for Dx and Rx use in any target-related cancer

Protection of sdAb in non-cancer indications

## CMC

First filings in 2020–2021

Protection of methods for radiolabeling