



Immunofilaments as novel cancer therapeutics



- Spin-off company from Radboudumc & Oncode Institute
- Strong IP position: exclusive licenses on 3 granted and 2 nationalized patents
- Extensive literature backup: over 15 publications in peer-reviewed top journals

- Team:



Henri Theunissen, CEO

- Extensive science business experience in biotech and pharma; started and grown 30+ companies



Carl Figdor, CSO

- Professor of Tumor Immunology, Spinoza prize winner, multiple ERC laureate, member Royal Dutch Academy of Sciences



Roel Hammink, Senior Scientist

- 10 years experience in developing polymer bioconjugates and immunofilament technology



Ruud Peters, Senior Scientist

- 10 years experience in CMC development and GMP manufacturing of polymer and antibody-based injectables



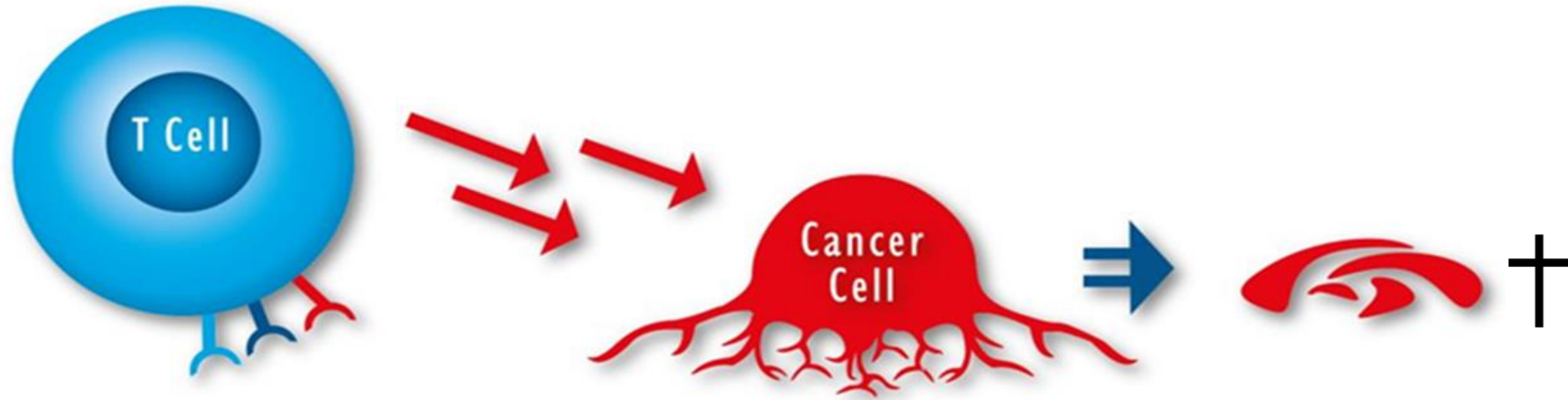
Cristianne Rijcken, CMC and strategy advisor

- 15+ years experience in translational innovative drug development and strategic input in life science startups

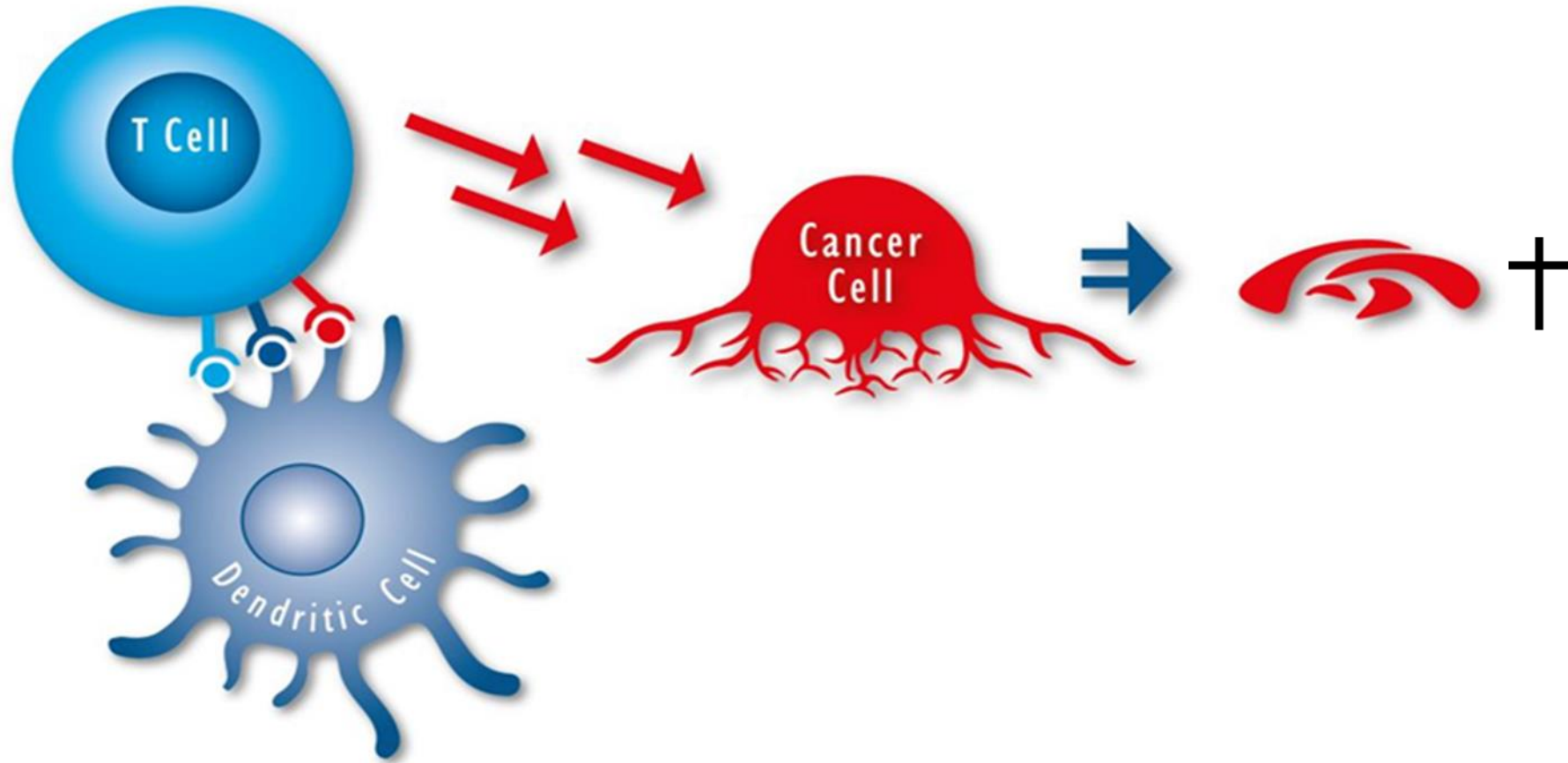
- Partners:



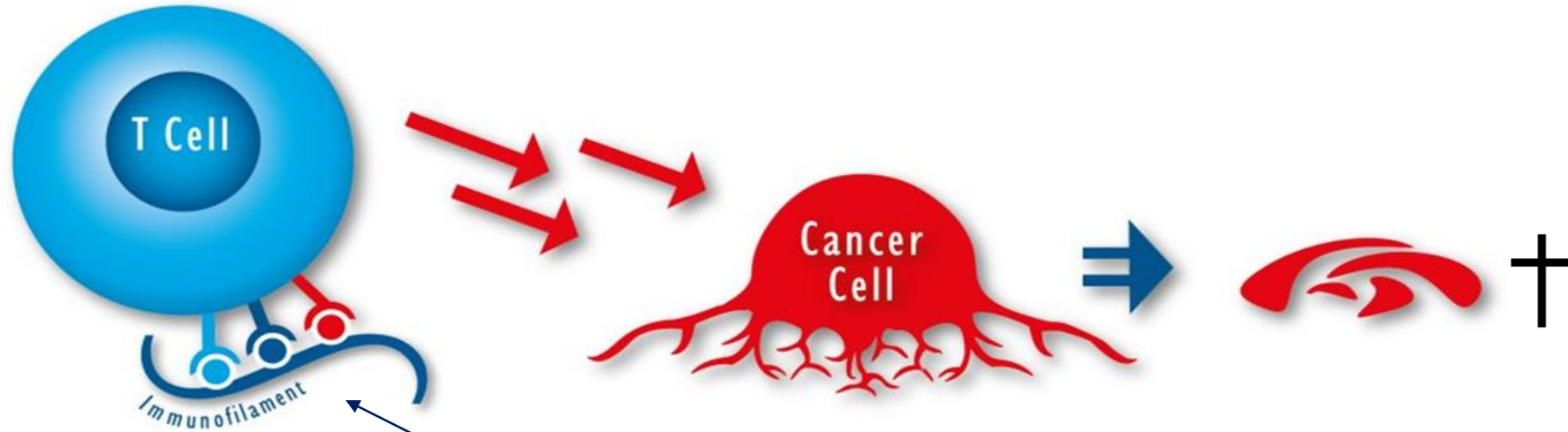
Immuno-oncology: T cells can kill cancer cells



T cells are instructed by dendritic cells to kill cancer cells

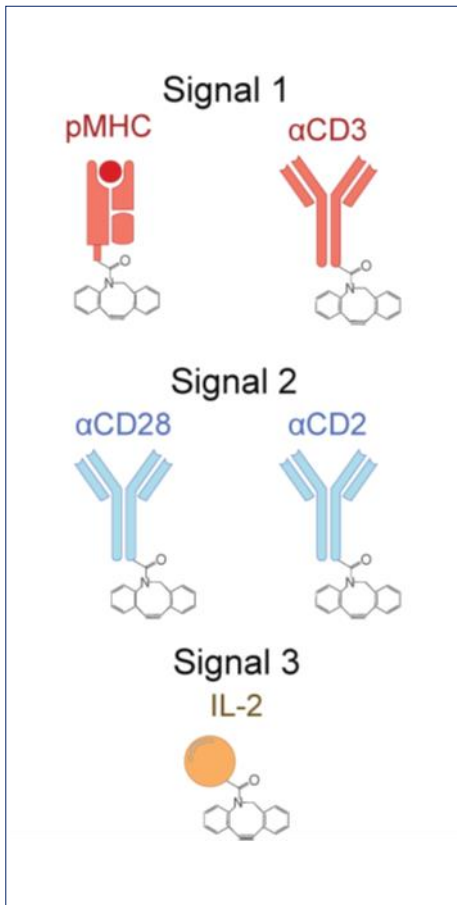


Immunofilaments act as synthetic dendritic cells

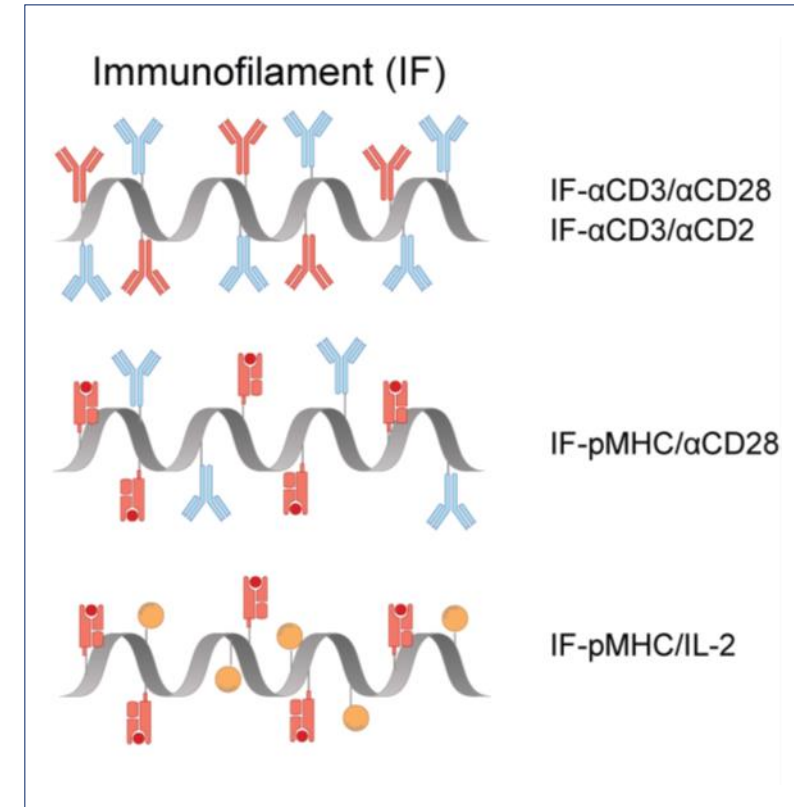
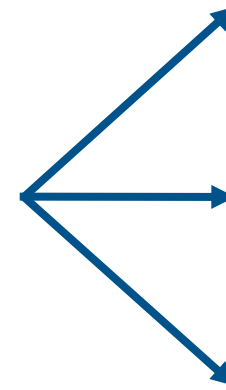
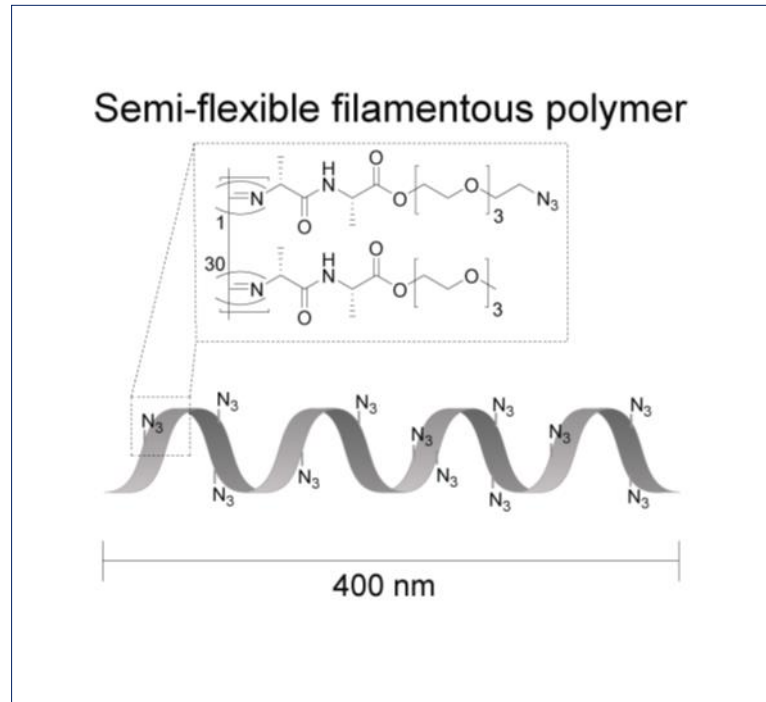


*activation signals coupled to
a unique synthetic semiflexible
filamentous polymer*

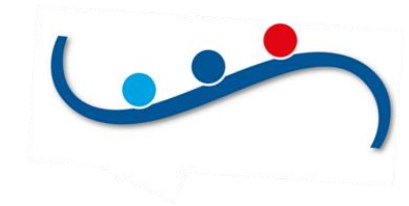
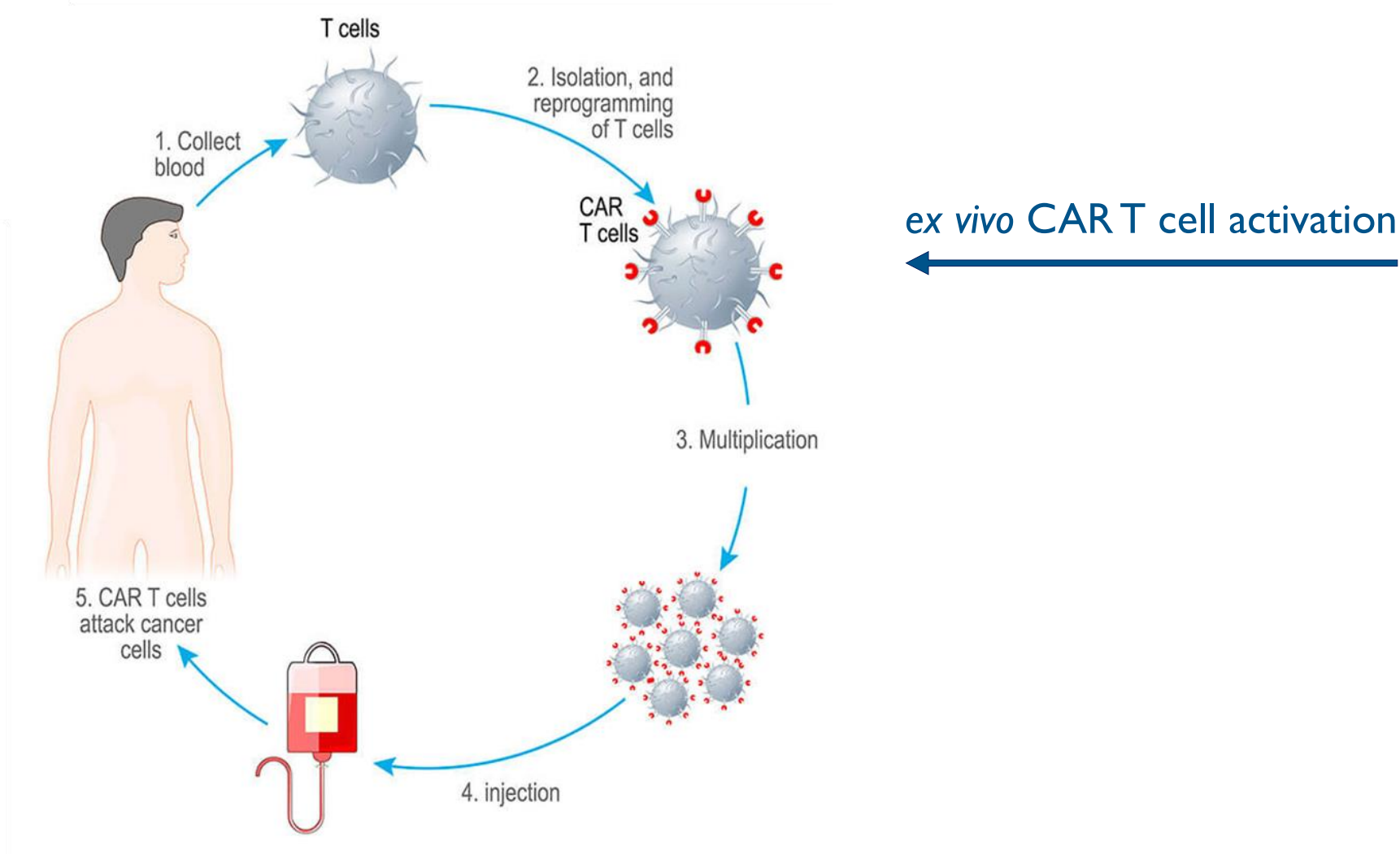
Immunofilaments constitute a versatile, modular technology platform



+



Application (1): support CAR T cell therapy

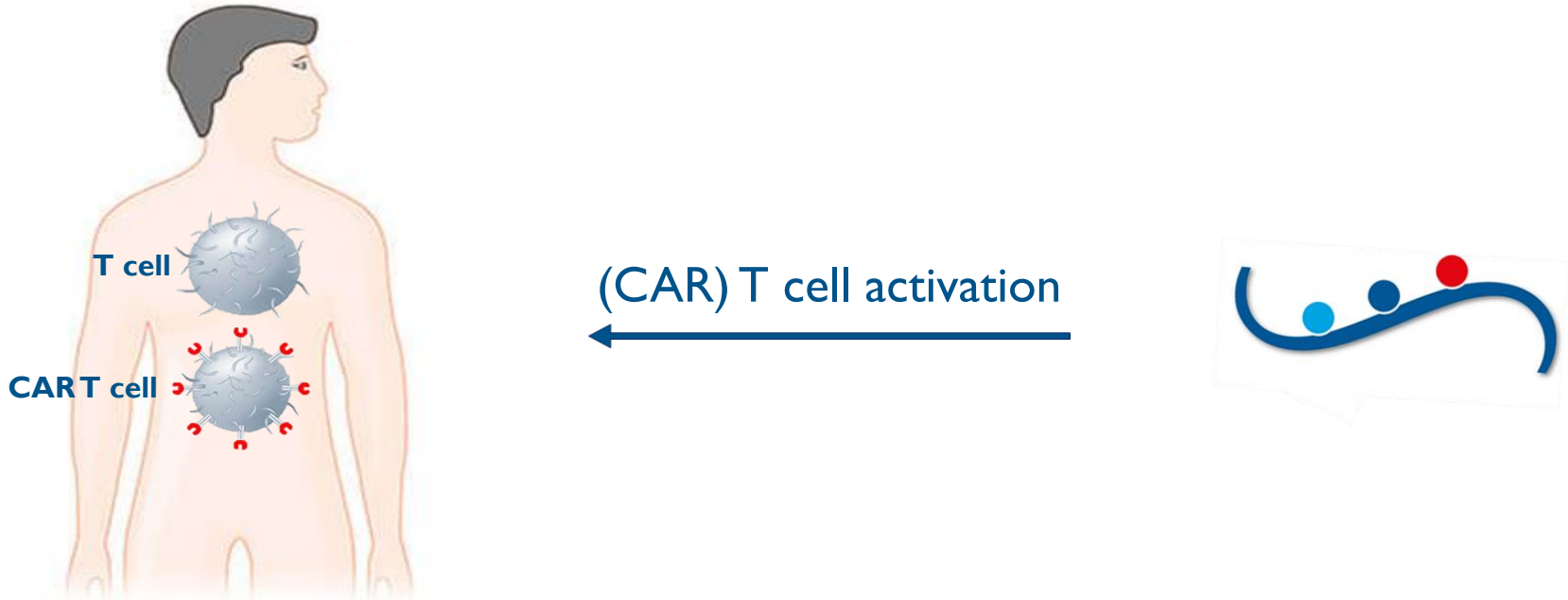


Immunofilaments outperform marketed products*

	Activation	Expansion	Cytotoxicity	Phenotype**	Exhaustion***
Immunofilaments	✓	✓	✓	✓	✓
Dynabeads™	✓ ✗	✗	✗	✗	✗
TransAct™	✓ ✗	✗	✗	✗	✗

- ➔ Global CAR T cell therapy market grows to \$20B in 2030 (Biospace, 2022)
- ➔ There is room for alternatives to existing technologies in the market
- ➔ Feasibility studies ongoing with major players in CAR T cell therapy

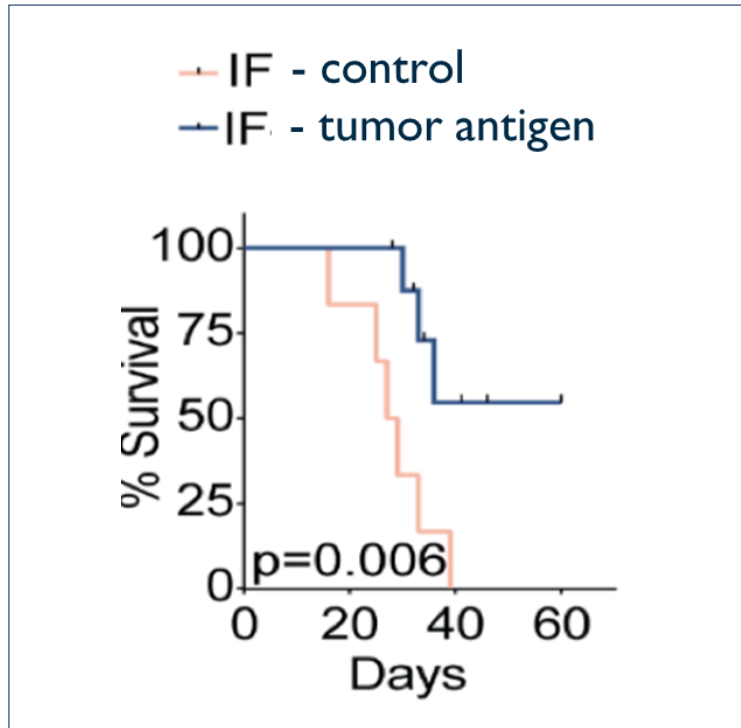
Application (2): direct administration to patients



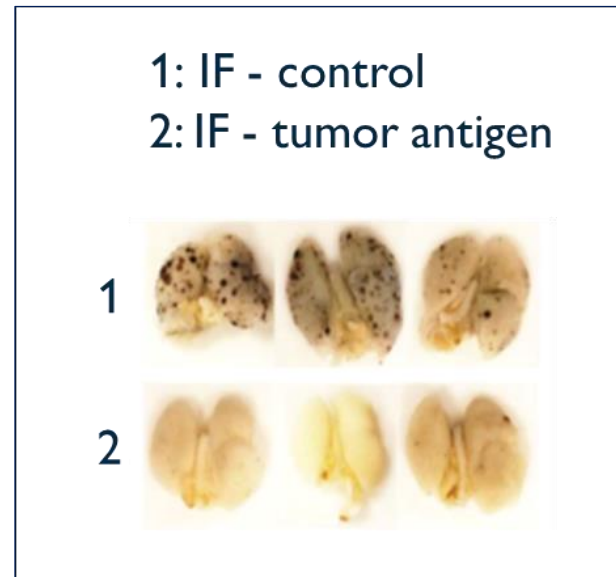
FIH study: intratumoral injection (solid tumors)



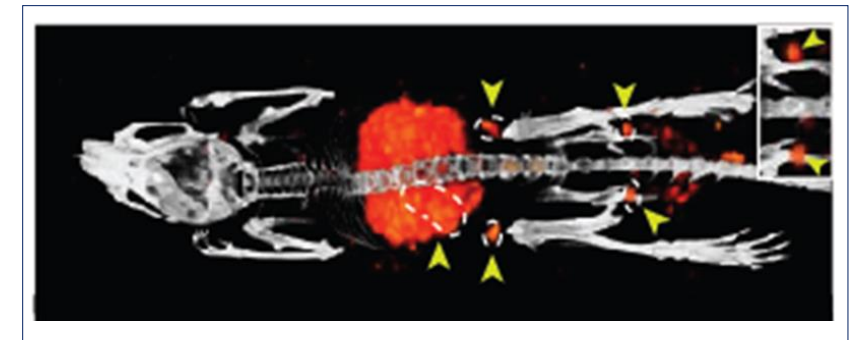
Immunofilaments show *in vivo* activity in animal models*



- *Inhibition of tumor growth*
- *Increased survival*



- *Inhibition of metastasis*

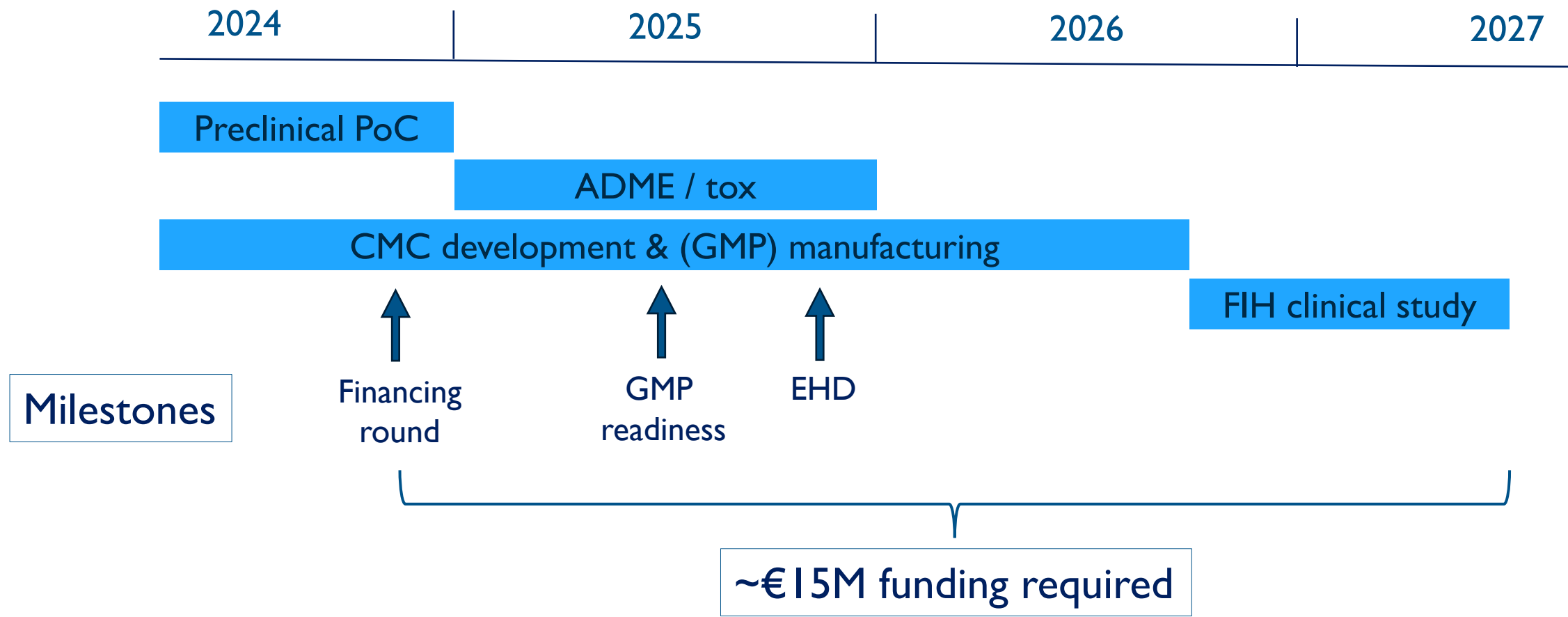


- *Migration to lymphoid organs*
- *No toxicity observed*

Preliminary Target Product Profile SNXT001

Parameter	Target Product Profile
Therapeutic modality	PIC-aCD3/aCD28 immunofilament
Route of administration	Intratumoral / TME injection
Patient population	Adults of all sex/age with prior immunotherapy/ICI
Mechanism of action	CD3/CD28-induced activation of TILs; abscopal effects?
Clinical indication	Injectable solid tumors, relapsed/refractory; FIH basket trial
Clinical endpoints	FIH study: favorable safety profile; efficacy biomarkers, itRECIST*
Dosing regimen	Low dose, single or multiple dosing
Formulation	Liquid (frozen) solution or lyophilised
Stability	Shelf life >1-2 yrs @ -20°C

Development plan SNXT001



Milestones



*IF-aCD3/aCD28, intratumoral

Pipeline*

Program	Application	Indication*	Targets	Discovery	Preclinical	Phase I	Milestones
SNXT001	Intratumoral	Solid tumors	CD3/CD28				PoC
SNXT002	Ex vivo	CAR T support	CD3/CD28				PoC
SNXT003	Ex vivo	CAR T support	undisclosed				Feasibility
SNXT004	Intratumoral	Solid tumors	CD16/IL12				Validation
SNXT005	Systemic	BCL	multiple				Validation

**Oncology only; options for (auto)immune disorders and infectious diseases not yet shown*





Thanks for your attention!

Contact:

Henri J.M.Theunissen, CEO

henri@simmunext.com

