

## **B. Riley Securities Radiopharma Investor Conference presentation**

Sydney, Australia – 4 March 2024 – Radiopharm Theranostics (ASX:RAD, “Radiopharm” or the “Company”), a clinical-stage biopharmaceutical company focused on developing innovative radiopharmaceuticals for areas of high unmet medical need, is pleased to share its presentation as delivered at the B. Riley Securities Radiopharma Investor Conference held on 1 March 2024 in New York.

The event featured 15+ small-to-mid cap public and private biotech, medtech, medical services, CDMO (contract development & manufacturing organisation), and industrial companies focused on bringing life-saving radiotherapeutics and imaging agents to the market.

### **About Radiopharm Theranostics**

Radiopharm Theranostics is a clinical stage radiotherapeutics company developing a world-class platform of innovative radiopharmaceutical products for diagnostic and therapeutic applications in areas of high unmet medical need. Radiopharm has been listed on ASX (RAD) since November 2021. The company has a pipeline of six distinct and highly differentiated platform technologies spanning peptides, small molecules and monoclonal antibodies for use in cancer, in pre-clinical and clinical stages of development from some of the world’s leading universities and institutes. The pipeline has been built based on the potential to be first-to-market or best-in-class. The clinical program includes one Phase II and three Phase I trials in a variety of solid tumour cancers including breast, kidney and brain. Learn more at [Radiopharmtheranostics.com](https://radiopharmtheranostics.com).

**Authorized on behalf of the Radiopharm Theranostics Board of Directors by Executive Chairman Paul Hopper.**

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### **Follow Radiopharm Theranostics:**

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InvestorHub – <https://investorhub.radiopharmtheranostics.com/>





B. Riley Radiopharm Day – March 1<sup>st</sup>, 2024



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Any opinions expressed reflect the Company’s position at the date of this presentation and are subject to change.

# DEVELOPING A WORLD-CLASS PLATFORM OF NEXT-GENERATION RADIOPHARMACEUTICAL PRODUCTS TO FIGHT CANCER

## Pipeline of Novel Candidates

- Two Imaging clinical-stage programs (one completed Phase 2a; one currently in Phase 1)
- One Therapeutic clinical-stage program, currently in Phase 1
- Platform of molecules in late-stage preclinical (6-18 months to Phase I)
- Differentiated Targeting Molecules leveraging peptide, single domain mAb, and mAb in solid tumors (no presence in areas like PSMA, SSTR2, FAPI)

## In-licensing strategy and IP

- Late-stage preclinical molecules licensed from Top Universities (i.e. Imperial College of London, UCLA, MD Anderson, Technical University of Munich)
- Joint Venture with  to develop four proprietary novel technologies for radiopharmaceutical use

## Deep Expertise in Radiopharmaceuticals

- All team members with previous Imaging or Therapeutic radiopharmaceutical experience
- Extensive Scientific Advisory Board of accredited multinational researchers

## Public Company (RAD : ASX) created in mid 2021

- Lean organization of 10 FTEs with low resource allocation to G&A
- AUD\$ 84m raised from July 2021 until today (AUD\$ 50m IPO in Nov 2021);

# KEY MANAGEMENT TEAM



**Paul Hopper**  
Executive Chairman

- Founder of Radiopharm Theranostics LTD.
- 25 years experience as a life-sciences entrepreneur
- Founder, Chairman, non-executive director or CEO of more than fifteen companies in the US, Australia and Asia
- Previous and current Boards include Imugene, Chimeric Therapeutics, Viralytics, Prescient Therapeutics, Polynoma and Arovella Therapeutics



**Riccardo Canevari**  
Chief Executive Officer

- Radiopharm Theranostics CEO since September 2021
- Previously, Chief Commercial Officer of Novartis Company Advanced Accelerator Applications S.A.
- Lead for Lutathera in-market growth strategy & Pluvicto launch strategy
- Senior Vice President & Global Head, Breast Cancer Franchise, for Novartis Oncology since 2017



**Vittorio Puppo**  
Chief Operating Officer

- Has served as Chief Operating Officer since June 2022.
- Previously, Chief Marketing Officer at Bracco Imaging, a world leader in diagnostics
- Managed businesses in Europe and Asia for Accuray, Covidien, Mallinckrodt and Amersham
- Board member of Life Sciences Capital



**Dr. Sherin Al-Safadi**  
VP, Medical Affairs

- Served in the role since Aug 2023.
- Previously, VP Medical Affairs at Point Biopharma
- Lead Strategic & Tactical planning radiopharmaceutical Phase III programs
- Global Director, Medical Affairs at Bayer



**Vimal Patel**  
VP, CMC

- Served in the role since September 2023
- Previously Vice President, Head of CMC and Supply Chain at Orum Therapeutics
- Led the successful manufacture of two ADCs and contributed to filing an IND leading to a Phase-I trial.
- Director of Process Sciences and Manufacturing at Actinium Pharmaceuticals

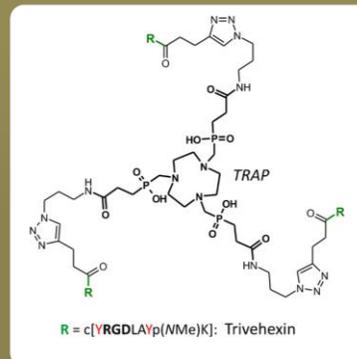
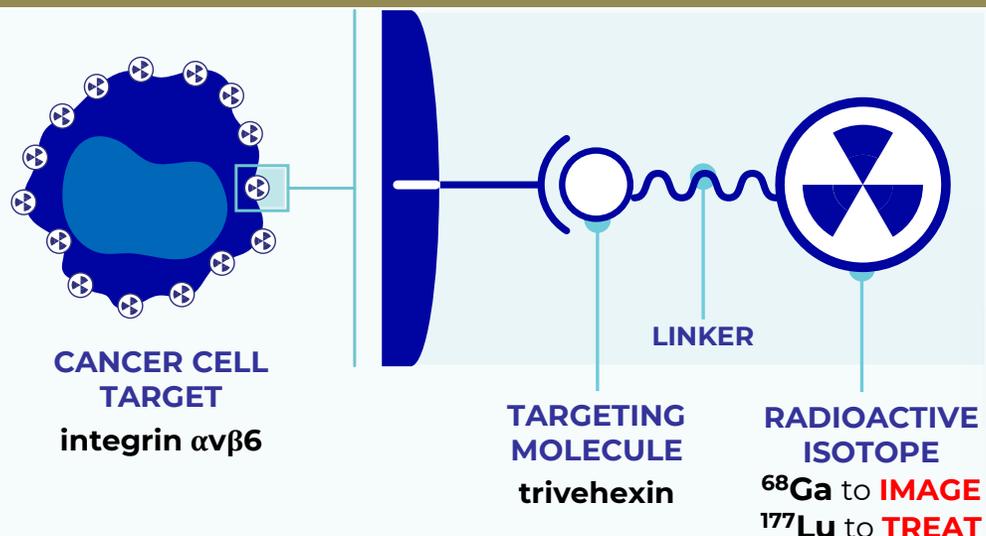
# COMPANY PIPELINE (WITH CLINICAL STAGE PRIORITIES \*\*\*)

RAD CODE	TARGET & MOLECULE	INDICATION	Dx/Tx	ISOTOPE	PRECLINICAL	PHASE I	PHASE II	NOTES
<b>RAD301</b>	<b>Integrin <math>\alpha V\beta 6</math></b> <b>Peptide</b>	<b>PANCREATIC CANCER</b>	<b>Imaging</b>	<b>Ga68</b>		<b>***</b>		FDA Orphan Drug Designation Phase 1* enrolling in the USA 1st participant dosed Feb 29th, 2024
<b>RAD302</b>			<b>Therapy</b>	<b>Lu177</b>				Preclinical package to be completed by 2024
<b>RAD101</b>	<b>Fatty Acid Oxidation</b> <b>Small Molecule</b>	<b>BRAIN METS</b>	<b>Imaging</b>	<b>F18</b>			Phase 2a   Phase 2b <b>***</b>	IND preparation for Phase 2b multicenter trial in USA in 30 patients
<b>RAD102</b>			<b>Therapy</b>	<b>1123</b>				Candidate selection is ongoing at Imperial College of London
<b>RAD204</b>	<b>PDL-1</b> <b>Nanobody</b>	<b>NON-SMALL CELL LUNG CANCER</b>	<b>Therapy</b>	<b>Lu177</b>		<b>***</b>		Phase 1** enrolling in Australia
<b>RAD202</b>	<b>HER 2</b> <b>Nanobody</b>	<b>BREAST / GASTRIC CANCER</b>	<b>Therapy</b>	<b>Lu177</b>				Preclinical & CMC completed Phase 1 trial planned in late 2024
<b>RV01</b>	<b>B7H3</b> <b>mAb</b>	<b>PROSTATE, LIVER PANCREAS, COLON</b>	<b>Therapy</b>	<b>Lu177</b>				From Joint Ventures MD Anderson-RAD CMC production ongoing  Preclinical package to be completed in late 2024

\* [NCT05799274](#)

\*\* [ACTRN12623000959673](#)

# Integrin $\alpha V\beta 6$ : Imaging and Therapy for Pancreatic Cancer



## TRIVEHEXIN

RGD peptide (arginylglycylaspartic acid)

Integrin  $\alpha V\beta 6$  receptor antagonist

Marker for tumour invasion and metastatic growth

Expression correlates with decreased survival in numerous carcinomas

## IMAGING WITH PET TECHNOLOGY

- High unmet need in detecting and monitoring pancreatic cancer metastasis
- Orphan Drug Designation granted (5/2023)
- 66 patients already dosed under compassionate use in Germany
- 33 patients already doses in IIT, showing superiority to FDG

## THERAPY FOR $\alpha V\beta 6$ INTEGRIN EXPRESSING TUMORS

- Pancreatic cancer is the first targeted indication
- Multi-indication potential beyond PDAC (Head & Neck, NSCLC, TNBC, Colorectal)

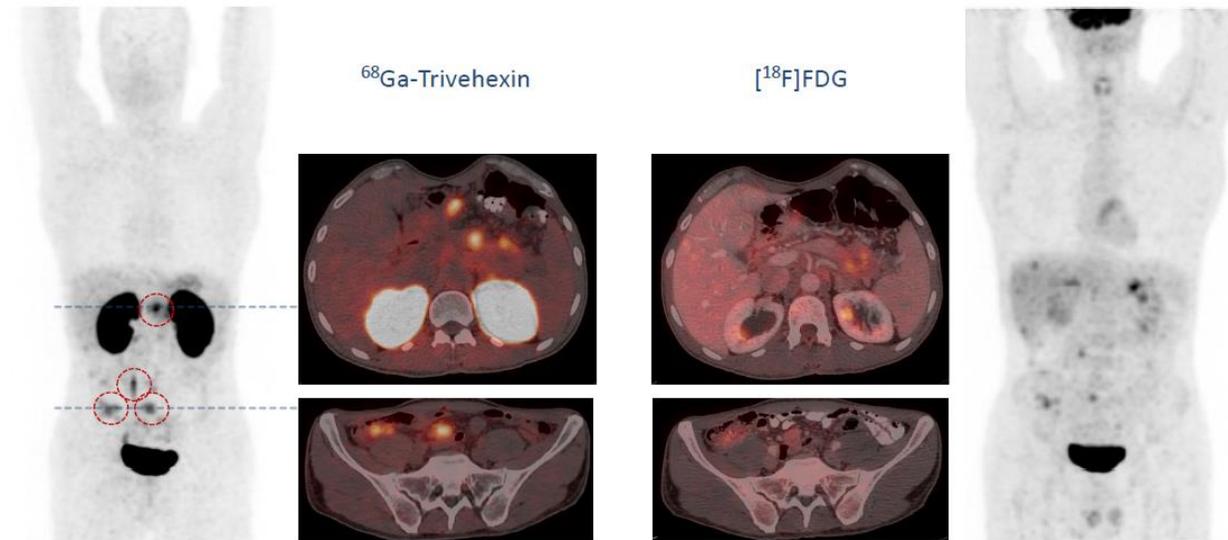
# RAD301 Clinical Development: Investigator Initiated Trial at Fortis Medical Center, supported by TRIMT

## Results Indicate that RAD301 shows incremental value over F18-FDG in PDAC & HNSCC

- Favorable tumour-to-background contrast vs F18-FDG
- Sharper images and negligible uptake in the surrounding normal tissue

**68Ga-trivehexin PDAC imaging shows superior resolution vs F18-FDG**

<sup>68</sup>Ga-Trivehexin vs. [<sup>18</sup>F]FDG—Metastatic PDAC in the Pancreatic Tail



Images courtesy of Dr. Ishita Sen, Fortis Medical, New Delhi, India

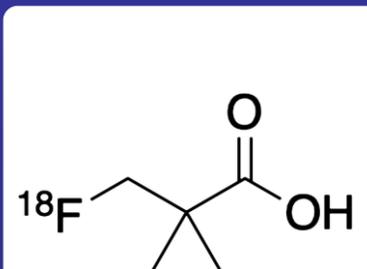
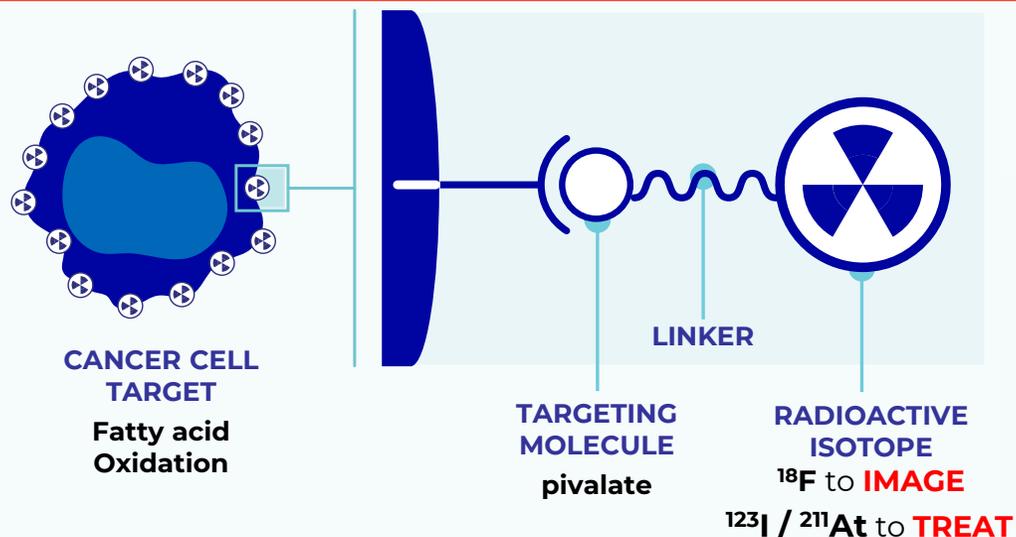
68Ga-trivehexin PET/CT Imaging vs F18-FDG

### TRIAL ANALYSED:

- Selective detection of  $\alpha v \beta 6$  integrin-expressing tumour lesions in patients with PDAC & HNSCC
- 33 patients administered RAD301

*Data presented at World Theragnostic Congress 2022 (Wiesbaden, Germany) & follow up presented at EANM 9/2023 (Vienna)*

# Fatty Acid Oxidation: Imaging and Therapy for Brain Metastases



## F18-PIVALATE

Selectively targets fatty acid synthetase which is overexpressed in tumours but not normal brain cells

## IMAGING with PET TECHNOLOGY

- 300,000 new patients every year in USA only
- MRI current standard of care, but has limitations in patients post-surgery or post-stereotactic radiation surgery (pseudo-progression)

## THERAPY

- R&D stage for candidate selection at Imperial College of London
- Isotope selection based on chemical stability
- Potential use beyond Brain Mets (i.e Gliomas)

# Pivalate Delivers Positive Phase II Data in Brain Metastasis Trial

## RAD101 Phase IIa Clinical Trial: F18-pivalate PET/MRI Imaging

Patients with one or more cerebral metastases from primary tumours of different origin; breast, lung, melanoma & colorectal cancer

### TRIAL ANALYSED:

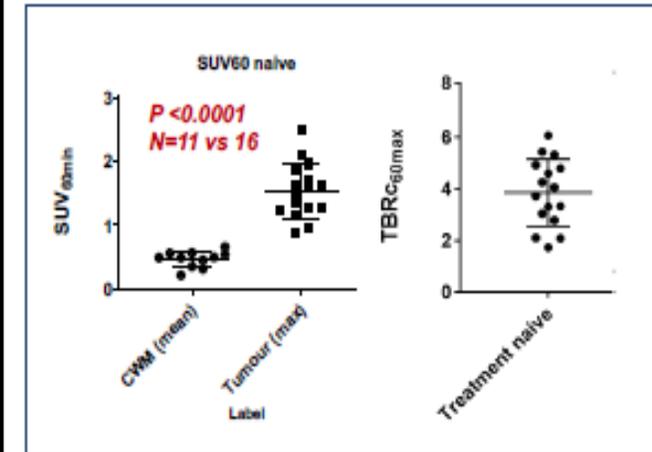
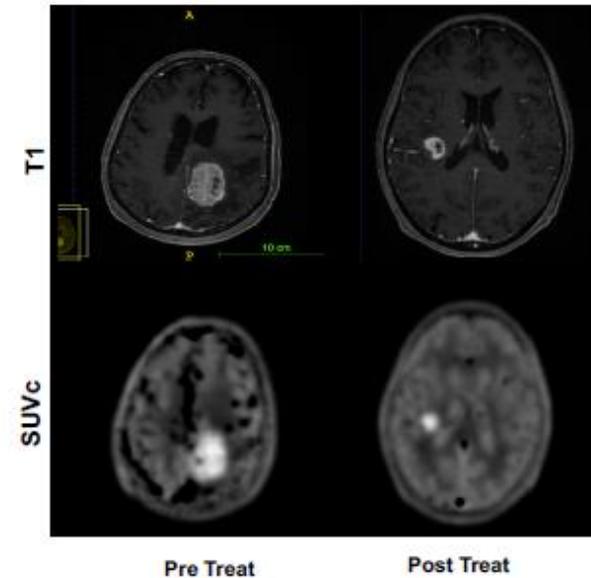
- Selective F18-pivalate uptake in cerebral metastases
- Impact of Stereotactic Radiosurgery (SRS) on F18-pivalate uptake at early time points (4-8 weeks)
- 2 cohorts of patients: 11 treatment naïve & 6 SRS treated (4-8 weeks post treatment)

## RESULTS

F18-pivalate PET showed high uptake independent of origin of primary tumour

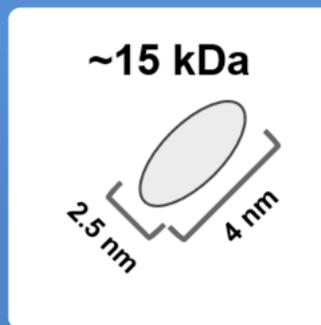
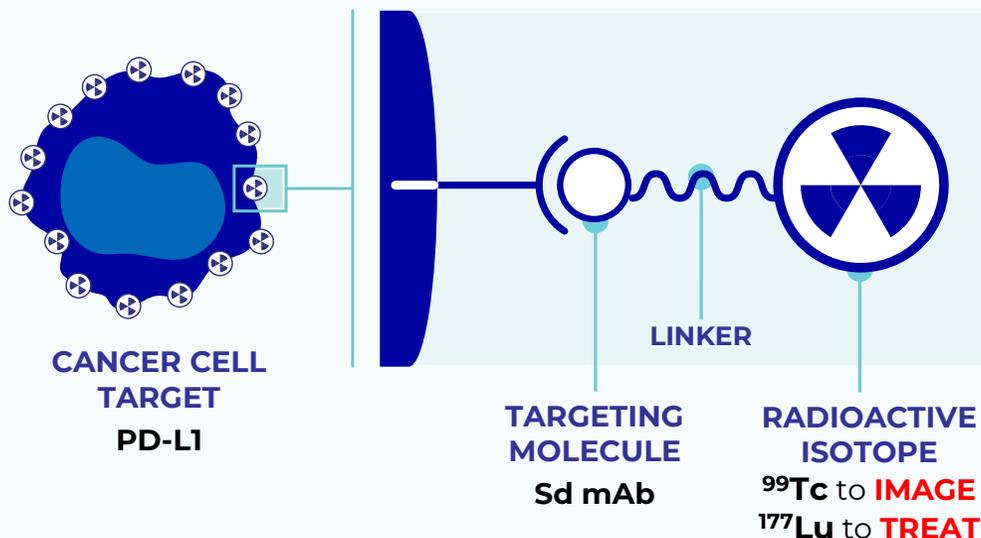
Indicates that pivalate can be used to detect & monitor cerebral metastases

- Patients without previous external beam radiation showed higher tumour uptake of RAD 101
- Previously treated patients show trend towards lower RAD 101 uptake



The RAD 101 Phase II results were presented at a Joint Meeting of the European Organisation for Research and Treatment of Cancer (EORTC), the (USA) National Cancer Institute (NCI), and the America Association for Cancer Research (AACR) in Barcelona, Spain, 26-28 Oct 2022

# PD-L1 NANOBODY: COMBO-THERAPY FOR LUNG CANCER



## PD-L1 NANOMAB

Single domain monoclonal antibody (Sd mAb)

PD-L1 Immune Checkpoint Protein

Overexpression mediates evasion of immune responses by cancer cells

Blockade by antibodies leads to tumour regression

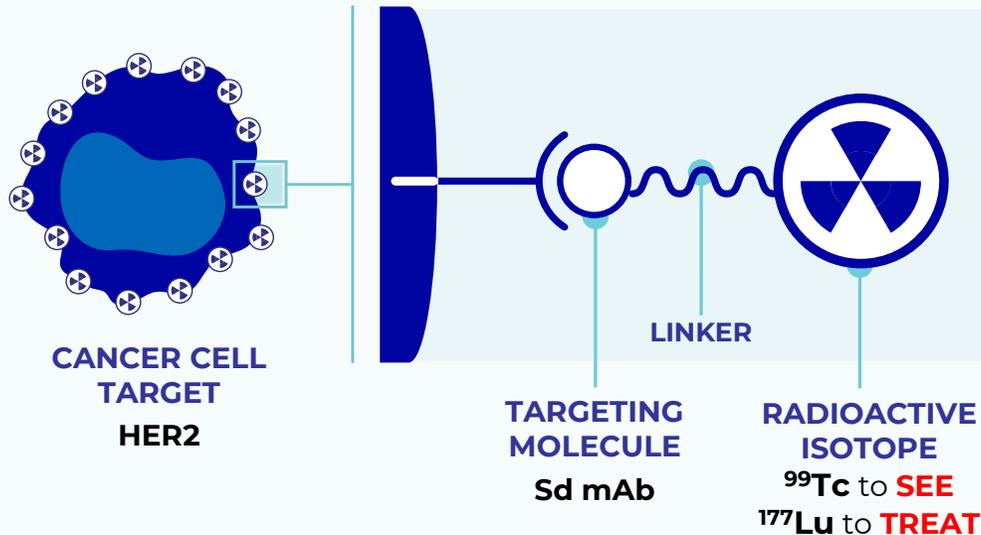
## IMAGING WITH SPECT TECHNOLOGIES

- Phase II imaging ongoing in non-small cell lung cancer
- Lantheus licensed Worldwide Rights (ex-China)
- RAD owns China rights
- RAD-LANTHEUS agreement signed for data sharing

## THERAPY

- 200,000 new patients with NSCLC every year in USA
- ~70% of patients refractory to Check Point Inhibitors therapies
- Strong potential as a preferred combination partner with Checkpoint Inhibitors (abscopal effect + immunostimulation + “cold to hot” to rechallenge with ICI)

# HER 2 NANOBODY: POST-ADC THERAPY



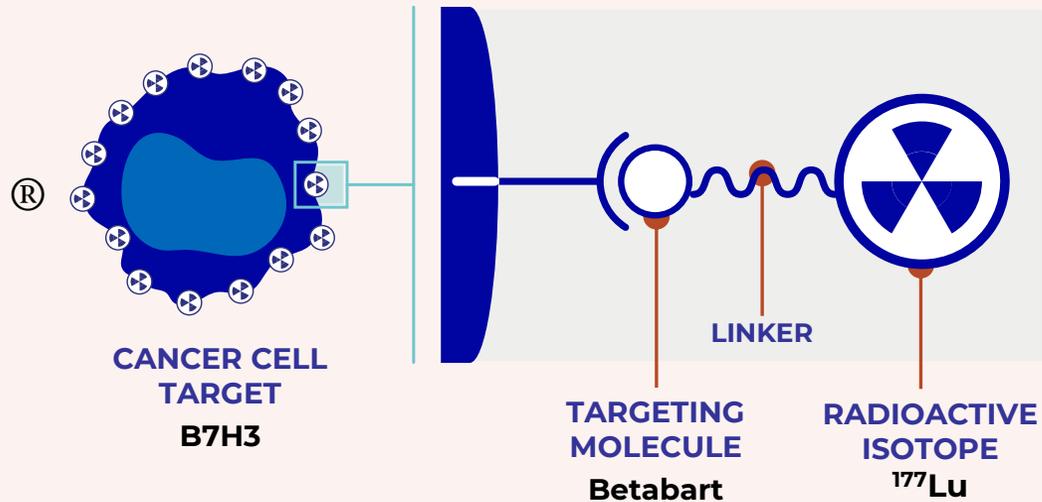
**HER 2 NANOMAB**  
 Single domain monoclonal antibody (Sd mAb)  
 HER 2 pathway proven in Oncology  
 Overexpression in Breast Cancer and Gastroesophageal cancers

## BREAST & GASTRIC HER2+ THERAPY FOR PATIENTS REFRACTORY to ADC TRASTUZUMAB DERUXTECAN (Enhertu)

	Expected Peak Sales	% addressable market for next-line therapy	Total addressable market	Radiopharma products & Companies	# products
Radiopharmaceuticals opportunity <b>post ADC</b>					
<b>ENHERTU</b>	<b>~\$12B</b>	<b>~30%</b>	<b>Post-Enhertu &gt; \$4B</b>	Lu177-HER2 ( <b>RAD 202</b> )  I131-HER2 (Precirix)	2

# FROM JOINT VENTURE WITH MD ANDERSON:

## FIRST AND ONLY B7-H3 RADIOPHARMACEUTICAL IN DEVELOPMENT

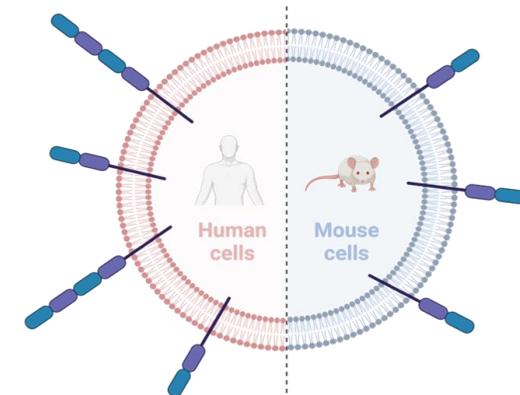
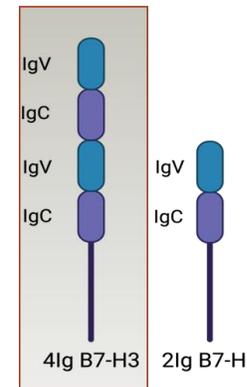


### BETABART®

Isoform-Selective Targeting of 4Ig-B7-H3  
for PET Imaging and Beta-Radioligand Therapy

### THERAPY

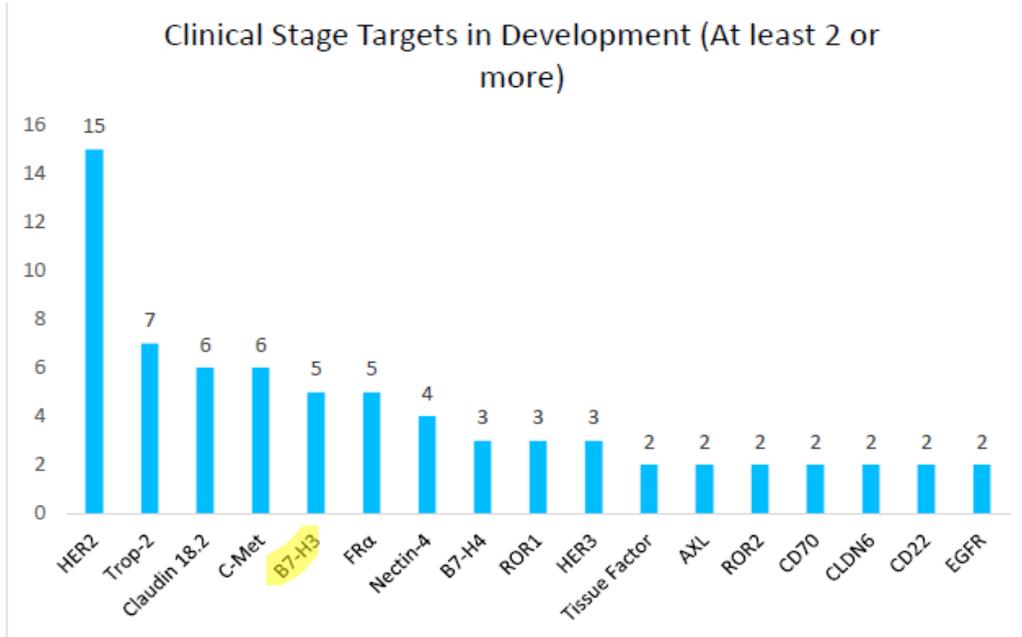
- Multi-indication potential in B7H3+ solid tumors (Prostate, Pancreatic, Hepatocellular Carcinoma, Colorectal, Breast, Ovarian, ...)
- Phase I planned in early 2025



- A soluble 2Ig-B7-H3 isoform circulating in the blood is a potential pseudo-target decoy (sink) not widely appreciated as a confounding factor in therapy.

# FIVE B7H3 ANTIBODY DRUG CONJUGATES IN DEVELOPMENT

## PHASE 2 READOUT WITH B7H3 ADC IN PROSTATE CANCER EXPECTED SOON



Source: BioMedTracker, Leerink Partners Research



Ph2 TAMARAK B7H3 study in mCRPC

***Read-out around ASCO 2024***

### MacroGenics Inc

MGNX:NASDAQ

RT Quote | Last NASDAQ LS, VOL From CTA | USD

After Hours: Last | 02/09/24 EST

**17.47** ▲ +0.15 (+0.87%)

Volume

22,157

Volume

1,829,006

52 week range

4.29 - 18.85

1D 5D 1M 3M 6M YTD 1Y 5Y ALL

+ Comparison

1D

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# PROSTATE CANCER: FIRST POTENTIAL VALIDATION FOR B7H3:

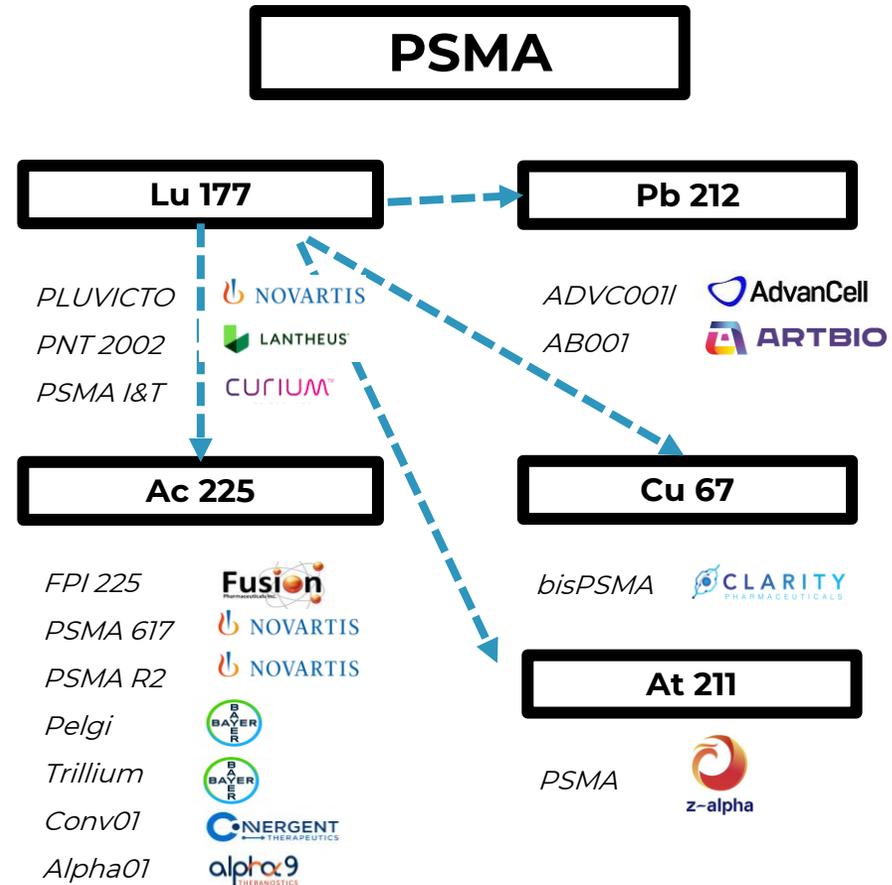
Prostate Cancer management needs for new pathways/targets to improve clinical outcomes, quality of life, and reduce off-tissue toxicities

*Current standard with AT, PARP, PSMA Radioligand*

*NEW Mechanism of Actions*

## ANDROGEN THERAPIES / PARP

- Abiraterone
- Apalutamide
- Darolutamide
- Enzalutamide
- Nilutamide
- Olaparib
- Rucaparib



## B7-H3

MACROGENICS  
 Most advanced B7H3 ADC in development

RAD RADIOPHARM THERANOSTICS  
 RADIOPHARM VENTURES

**First and only B7-H3 radiopharmaceutical in development**

## CD46

ADC mAb (FORTIS THERAPEUTICS)

## STEAP1

T-cell engager (AMGEN)



THANK YOU

