

# Corporate Overview October 2024



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These factors include, but are not limited to: (1) risks of delays, interruptions or failures associated with drug discovery and development; (2) risks of unexpected program disruptions or terminations due to changes in client policies; (3) risks associated with manufacturing products and the procurement of raw materials; (4) the impact of reduced competitiveness due to the competitors and competing technologies; (5) declining product sales capabilities; (6) adverse rulings in infringements or significant litigation against our Group's intellectual property rights; (7) adverse changes in economic conditions and related laws and regulations; and (8) fluctuations in interest rates and currency exchange rates. The information in this material with respect to drugs (including those under development) is not intended to provide advertising or medical advice.

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### **The PeptiDream Group**

PeptiDream and PDRadiopharma



#### The Largest Biotech Company in Japan

- The PeptiDream Group is a drug discovery company (*PeptiDream*) with a vertically integrated radiopharmaceutical company (*PDRadiopharma*) focused on the discovery, development, and commercialization of peptide-based therapeutics, peptide-drug conjugates, and radiopharmaceuticals (*radiotherapeutics/radiodiagnostics*)
- Combined company has 750+ employees, spanning discovery, development, manufacturing, regulatory, and sales in Japan
- Growing revenue and profitability since 2011



#### The Global Leader in the Discovery of Peptide Therapeutics

- PeptiDream (established in 2006) is largely credited with establishing the macrocyclic peptide field – high global reputation across the pharma industry.
- Collaborations with the majority of the worlds pharmaceutical companies



#### Leading Targeted-radiopharmaceutical Position in Japan

- PDRadiopharma (established in 1968) is one of two radiopharmaceutical companies licensed to operate in Japan (currently sells 8 radiotherapeutic and 21 radiodiagnostic products in Japan)
- Ideally positioned to capture a large share of the radiopharmaceutical field in Japan, while contributing through partnerships globally



- PeptiDream Inc.
- PDRadiopharma Inc.







PeptiDream headquarters (Kawasaki)

### **Peptide Therapeutics – Next Generation Modality**



#### **Evolution of Peptide Drug Discovery**



Note: 1) GEP-NETs: Gastroenteropancreatic-neuroendocrine tumors, 2) mCRPC: metastatic Castration-resistant Prostate Cancer Merck & Co., Inc., Rahway, NJ, USA

### **PeptiDream – The Epicenter of Peptide Drug Discovery**



#### **PeptiDream's Evolving Proprietary PDPS Drug Discovery Platform**



### PeptiDream has played a significant role in advancing Peptide Drug Discovery

### **Our Key Areas of Focus**





### Radiopharmaceuticals

Targeted Radiotherapies – Revolutionizing How We Treat Cancer

(single strand breaks)

 $\checkmark$ 

Longer range (2-11.5mm)



### **Concept of Targeted Radiotherapy**



 ✓ Higher LET\* (80-100 kEv/µm) (double strand breaks)
 ✓ Shorter range (20-80µm)

Source: 1) PeptiDream's in-house analysis. 2) F. Zhuravlev. Curr Radiopharm., 2021, 14, 374-393. B.M. Privé, et al., Eur J Nucl Med Mol Imag., 2023, 50, 1906-1918. 3) J. Karlsson, et al., Front. Med., 2022, 1071086. M. Barok, et al., Breast Cancer Res., 2014, 16: 209. M.E. Autenrieth, et al., Eur J Nucl Med Mol Imaging. 2018, 45, 1364-1371. C.A. Kunos, et al., Front. Oncol., 2019, 9: 00180. 4) N.A. Ridge, et al., Adv Radiat Oncol., 2022, 7, 100936; R.B. Patel, et al., Sci Transl Med., 2021, 13(602), eabb3631. 5) Clarivate, Evaluate, GlobalData, company websites.

Address by

Immuno-Oncology

Versatility and Ease of

**Synthesis/ Modification** 

 $\{\bigcirc$ 

Lung, Prostate, etc.

### **Power of Combining Diagnostic and Therapeutic**





allows for the quickest path to human ePoC, accelerating overall product development

just changing the RI

### **Rapidly Growing Targeted Radiotherapy Field**





**Compelling Therapeutic Approach** 

Limited treatment resistance

### **PeptiDream – The Center of Innovation in RI Targeted Therapy**

Accelerating entry of biopharma into RI therapies field, through a sequence of acquisitions

PeptiDream has been chosen as key collaboration partner by a multitude of leading players in this field and continues to build extensive partnered and internal pipeline programs



True Precision Medicine

Simple, Powerful MoA

• "See it & Treat it" by Theranostics

Overcoming tumor heterogeneity

• Efficient & accurate screening of patients

### Clinical & Commercial Success Driving Further Excitement, Investment and Market Entry

**Lutathera**<sup>®</sup> Approval (2018): Neuroendocrine Tumors (First key Targeted RI therapy that established the market)

**Pluvicto**<sup>®</sup> Approval (2022): Prostate Cancer (Annualized \$1bn+ Sales in 2024<sup>2)</sup>; aims multibillion blockbuster in mid-to-long term)

Note: 1) Market size estimates based on Fortune Business Insights (Nuclear Medicine Market Size, Share & COVID-19 Impact Analysis 2023-2030), 2) 2024 Q1 Sales of \$310mm (+47% in Q1) and 2024 Q2 Sales of \$345mm (+44% in Q2), annualized sales estimate of \$1bn plus sales range, 3) Including potential milestone payments

### Radiopharmaceuticals – PeptiDream Group

Uniquely Positioned with Multiple Paths to Drive Value Creation





### **PDRadiopharma: Current Key Products Overview**





### **Pipeline Overview (Radiopharmaceuticals)**



Disease Area	Pipeline	IND-enabling / Ph0	Ph1	Ph2	Ph3	Partner	Developn (Japan)	nent Stage (Overseas)
Malignant Brain Tumors	<sup>64</sup> Cu-ATSM					LM	Ph3 Ongoing	_
Prostate Cancer	<sup>177</sup> Lu/ <sup>64</sup> Cu-PSMA I&T	Japan (Bridging Study (Planning))					Bridging Study Prep.	(Curium) Ph3 Ongoing
Malignant Glioma	<sup>177</sup> Lu/ <sup>68</sup> Ga-Integrin (FF58)					U NOVARTIS	_	Ph1 Ongoing
Hepatocellular Carcinoma	<sup>225</sup> Ac/ <sup>68</sup> Ga-GPC3 (RYZ801/811)					RayzeBlo A Bristol Myers Squibb Company	Global Study Prep.	Ph0 / IND-filing
Renal Cell Carcinoma	<sup>225</sup> Ac/ <sup>64</sup> Cu-CA9 (PD-32766)					(In-house)	Ph0 / IND- enabling	_
Oncology	Novartis Program #2					U NOVARTIS	_	IND-enabling study
Solid Tumor	<sup>225</sup> Ac-Cadherin3						Ph1 back to Pre-clinical	_
Oncology	RayzeBio Program #2					RayzeBlo A Bristol Myers Squibb Company	_	Selected Clinical Development Candidate
Oncology	Novartis Program #3					<b>U</b> NOVARTIS	-	IND-enabling study
Alzheimer's Disease	<sup>18</sup> F-flortaucipir (Tauvid <sup>®</sup> )					Lilly	Ph3 Completed	Marketed
Various Cancers	<sup>18</sup> F-PD-L1 (BMS-986229)			$\rangle$		( <sup>( )</sup> Bristol Myers Squibb"	_	Ph1 Completed

Note: Above list only includes major pipeline programs in IND or later stages. PeptiDream is engaged in various pre-clinical programs as well

### Non-Radiopharmaceuticals – Program Overview





### **Pipeline Overview (Non-Radiopharmaceuticals)**



	Disease Area	Pipeline	IND-enabling	Ph1	Ph2	Ph3	Partner	(Japan)	(Overseas)
Clinical Programs	Acromegaly	GhR Antagonist (AZP-3813)					AM CLYT AstraZeneca	_	Ph1 Completed
	Oncology	PD-L1 Inhibitor					ر <sup>ال</sup> ا Bristol Myers Squibb <sup>،،</sup>	_	Ph1 Completed
	Multiple Myeloma	<b>CD38-ARM™</b> (BHV-1100 + NK)					Biohaven	_	Ph1a/1b Ongoing
	Not Disclosed	Merck Program #1						Not Disclosed	Ph1 Ongoing
	Inflammatory Diseases	Merck Program #2						Not Disclosed	Ph1 Ongoing
	COVID-19	<b>S2-protein Inhibitor</b> (PA-001)					PeptiAID	Clinical Research Completed	IND-filed
C Programs	Obesity/ SMA/DMD/ Muscle Disorders	Myostatin Inhibitor					(In-house)	Pre-clinical Obesity & Bioavailability	_
elected P	Allergic Diseases	KIT Inhibitor (MOD-B)					Contraction of the future of medicines	IND-enabling study	_

Note: Above list only includes major pipeline programs in clinical stage and selected pre-clinical stage; 1) Merck & Co., Inc., Rahway, NJ, USA

### **PeptiDream Financial Performances and Future Catalysts**



#### **Financial Performance**

- Consistent revenue and profit growth
- Reinvesting profits to further grow the business and pipeline
- Goal of JPY 100bn in revenue by 2030



JPY 350.1 bn

Market Capitalization<sup>1)</sup> (As of Sep 30, 2024)



### **Future Catalysts**

- Achievements Made Year-to-date
- Progress of On-going & New Clinical Programs



ATSM (PeptiDream/LM) into Ph3 (Jun. 2024)



- PeptiDream's **CA9** into Ph0 (Jun. 2024)
- **Novartis RI-PDC Program #3** into IND-enabling Studies (Jul. 2024)
- Merck Non-RI Program #2 into Ph1 (Jun. 2024)
- AZP-3813 (Amolyt/AZ) into Ph2
- **GPC3** (RayzeBio/BMS) into Ph1
- **RI-PDC Program #2** (Novartis) into Ph1
- Additional RI-PDC programs New Clinical Candidates (RayzeBio/BMS, and PeptiDream)
- Myostatin Inhibitor (in-house): Obesity Study Readouts
- Other Catalysts
  - New deals and partnerships:



 Development of new radiopharmaceuticals in Japan, new partnering and in-licensing of late-stage clinical assets

Curium<sup>177</sup>Lu/<sup>64</sup>Cu-PSMA I&T on Oct 1<sup>st</sup>, 2024

## Appendix

### **Macrocyclic Peptides as an Expanding Drug Class**



### Macrocyclic Peptides Have Positive Features of Both Small & Large Molecules



### Leadership Team at PeptiDream





#### **Representative Director, President, CEO** Patrick C. Reid, Ph.D.

- Co-founder of PeptiDream, after working as Associate Professor at University of Tokyo
- CSO, Head of R&D until 2017
- CEO at PeptiDream 2017 to current
- Ph.D. in Biochemistry from Dartmouth Medical School



#### **Director, COO**

#### Keiichi Masuya, Ph.D.

- Joined PeptiDream in Jul 2014, previously Head of PPI Drug Discovery at Novartis International AG
- Director at PeptiGrowth, Representative Director and President at PeptiAID
- Ph.D. in Chemistry from Tokyo Institute of Technology



#### **Director, CFO**

Kiyofumi Kaneshiro, Ph.D.

- Joined PeptiDream in Jan 2018, previously Partner and Managing Director at the Boston Consulting Group
- Director of PDRadiopharma
  - Ph.D. in Oncology from University of Tokyo





- Joined PeptiDream in Jan 2022, previously Vice President of the Global Precision Medicine Department at Daiichi-Sankyo
- M.D. from Tokai University School of Medicine (trained pathologist)
- Ph.D. in Medicine from University of Tokyo

#### **Chief Scientific Officer**

#### Christian Cunningham, Ph.D.

- Appointed as Chief Scientific Officer of PeptiDream in Apr 2024, previously Distinguished Scientist & Director of the Department of Peptide Therapeutics at Genentech
- Ph.D. from the University of California, San Francisco, and completed a postdoc at Stanford University



### **Head of Business Development**

- Joined PeptiDream in May 2022, previously Vice President at Locust Walk Japan
- Ph.D. in Chemistry from Brown University



#### Head of IR & Public Affairs Yuko Okimoto, Ph.D.

- Joined PeptiDream in May 2020, previously Director at Global **Investment Banking Division of Mizuho Securities**
- Ph.D. in Chemistry from University of Tokyo



### **External Directors at PeptiDream**





#### Independent External Director (Auditing Committee Member) Michio Sasaoka, Ph.D.

- Joined PeptiDream in May 2012, after working at Massachusetts Institute of Technology as Postdoctoral Research Associate, Otsuka Chemical Co., Ltd. as Director of Explorative Laboratory
- Currently Independent Outside Director (Auditing Committee Member) at PeptiDream



- Joined PeptiDream in Mar 2021, after working at Nagashima Ohno & Tsunematsu, Utsunomiya Shimizu & Haruki Management Legal Office as a founding partner
- Currently Independent Outside Director (Auditing Committee Member) at PeptiDream



#### Independent External Director (Auditing Committee Member) Toshio Nagae

- Joined PeptiDream in Sep 2015, after working at Shionogi & Co., Ltd., Sanofi K.K. as Executive Officer of Aventis Pharma, York Pharma K.K as President and Representative Director
- Currently Independent Outside Director (Auditing Committee Member) at PeptiDream



#### Independent External Director (Auditing Committee Member) Yukinori Hanafusa (Certified Public Accountant)

- Joined PeptiDream in Mar 2016, after working at Aoyama Audit Corporation, Accounting Works Co., Ltd. as Founding Representative Director, ARCLAND SERVICE HOLDINGS CO., LTD as Director
- Currently Independent Outside Director (Auditing Committee Member) at PeptiDream



### **Mission of PeptiDream Group**

Discovering the next generation of

transformational medicines