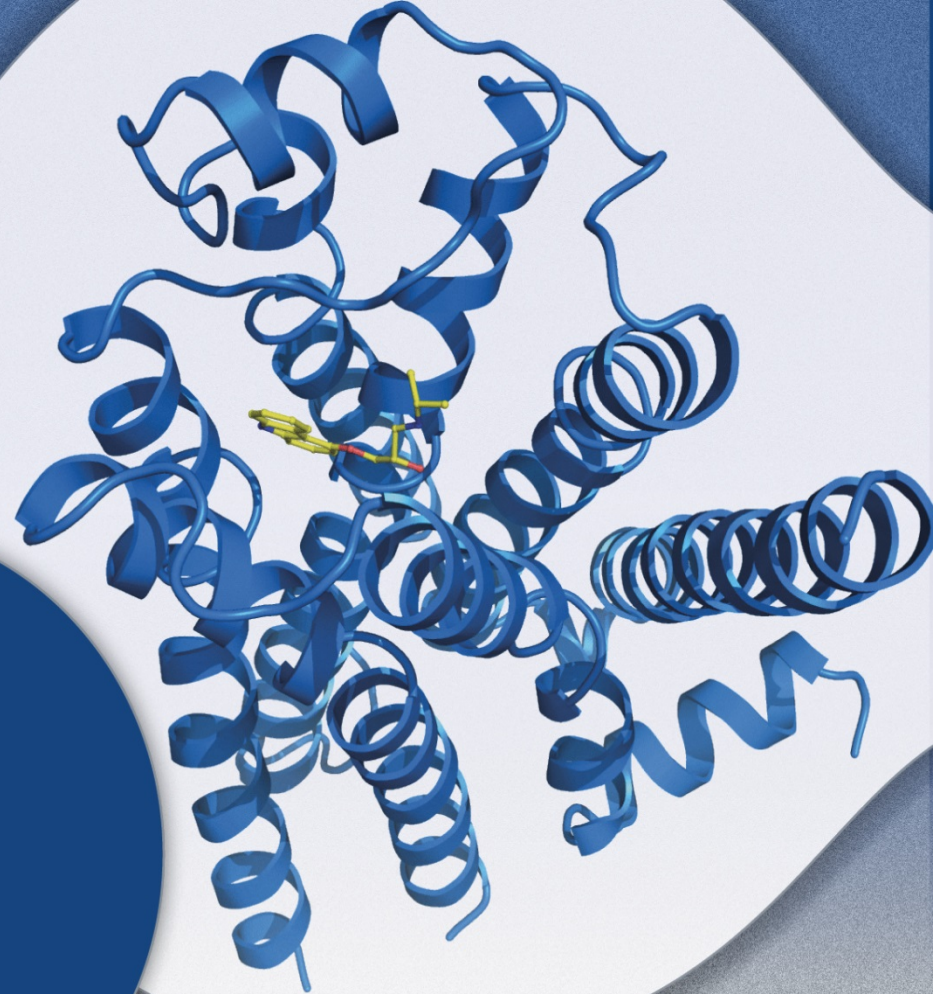


INTRODUCTION TO SOSEI GROUP

July 2017



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References to "FY" in this presentation are to the Company's fiscal years, namely the 12-month periods commencing in each case on April 1 of the year indicated and ending on March 31 of the following year, unless specifically otherwise indicated.

A global biopharmaceutical company

DISCOVERY ENGINE
StaR¹® & SBDD²



Milestones & Royalties

Risk / Profit share

Full value capture

TRADITIONAL OUT-LICENSING

CO-DEVELOPMENT

SELF COMMERCIALIZATION

Development and commercialization by partners



Technology alliances on over 20 GPCRs³



Selected Wave 2 assets

Selected disclosed partners



Selected Wave 2 assets

Minority equity investment⁴



Sosei Group discovers and develops innovative biopharmaceuticals for multiple disease areas, utilizing a proprietary structure-based drug design platform technology

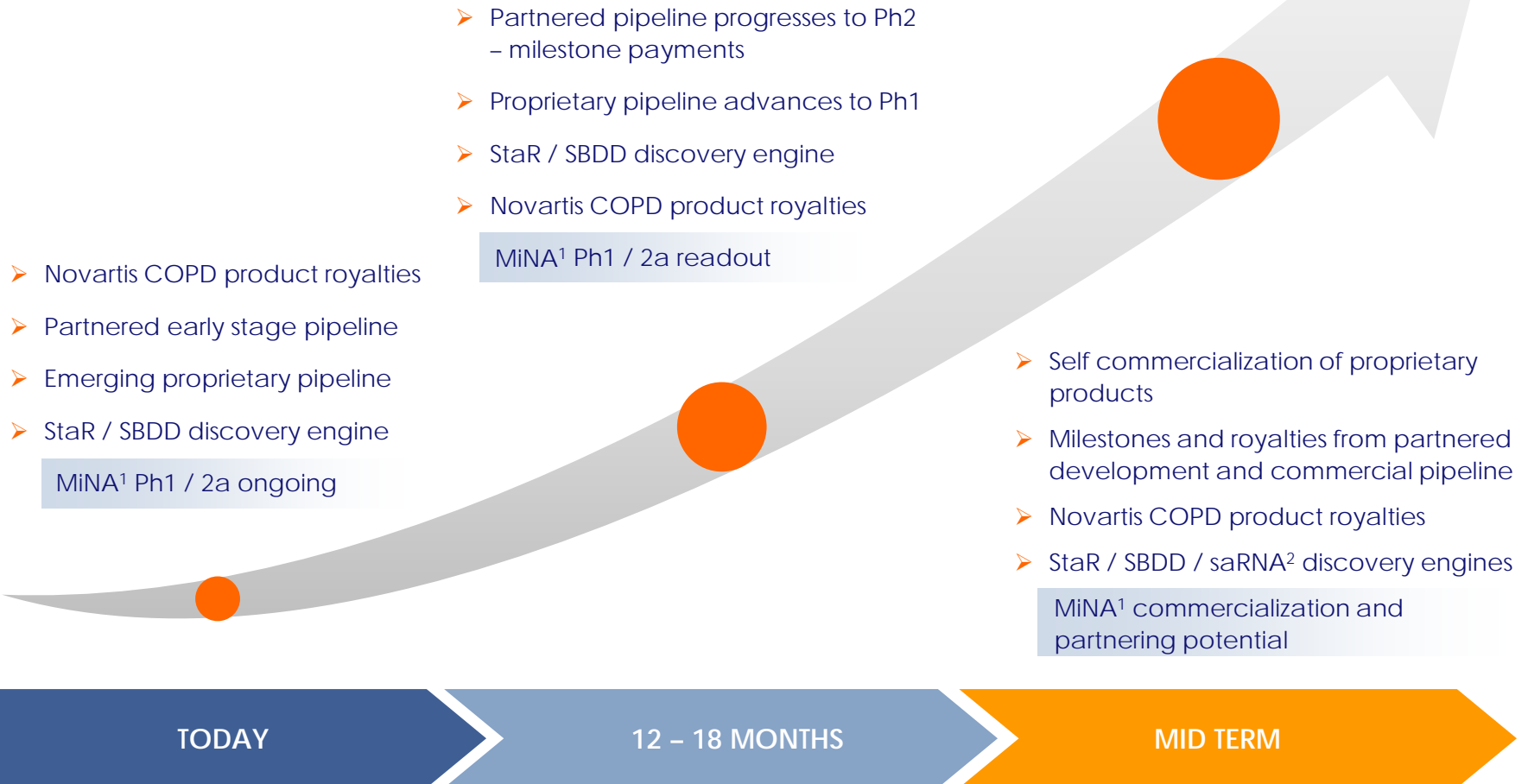
¹ Stabilized receptor technology

² Structure-based drug design

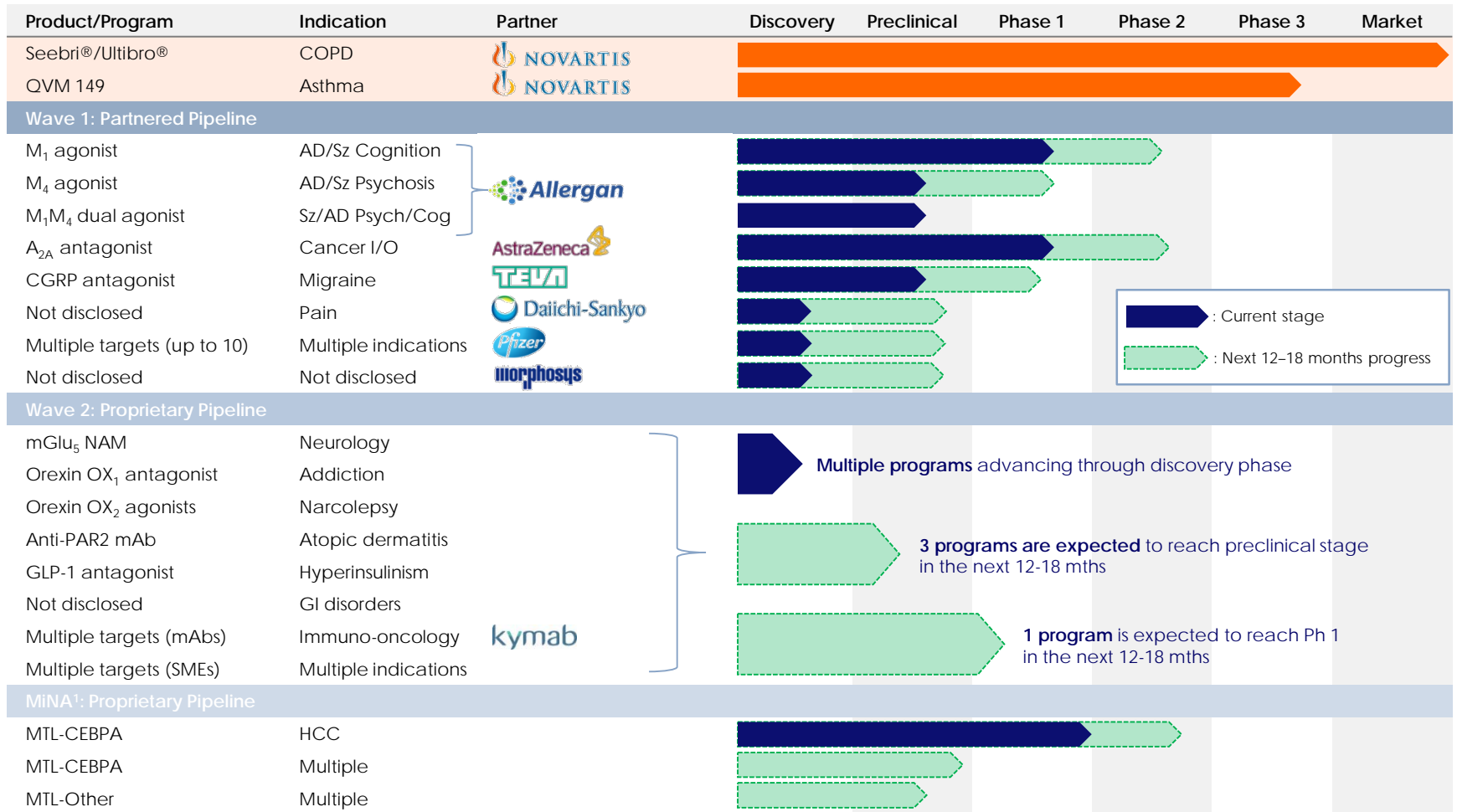
³ G Protein-Coupled Receptors

⁴ MiNA, currently 25.6% owned by Sosei with an exclusive option to move to 100%

Strong foundations and positioning for further growth



Attractive pipeline evolution over the next 12 – 18 months



Experienced management team with a strong track record

Peter BAINS

CEO

- Former Senior VP of International Commercial Development at GSK
- Former CEO of Syngene

Andrew OAKLEY

CFO

- Former CFO of Actelion Pharmaceuticals Ltd
- Former CFO at Vectura plc

Malcolm WEIR

Chief R&D Officer

- Heptares CEO and Co-Founder
- Former Head of Molecular Science Division at Glaxo Wellcome

Fiona MARSHALL

CSO

- Heptares CSO and Co-Founder
- Former Head of Molecular Pharmacology Department at Glaxo Wellcome

Tim TASKER

CMO

- GSK and Former Executive VP of Clinical Development at Evotec

Investment highlights

1

Unique and strategically scalable drug discovery engine

- GPCR structure-based drug design technology
- Small molecules, peptides and antibodies

2

Multiple pipeline/technology deals with global leaders

- Potential to generate >USD 6bn in future milestones plus royalties on product sales

3

Emerging proprietary pipeline from GPCR discovery engine

- Multiple programs including a number that Sosei could take to market

4

Opportunity to acquire orphan drug in Phase 1/2a with MiNA¹

- saRNA technology – potential for a second discovery engine

5

Existing and growing revenue stream from COPD franchise

1

**UNIQUE AND SCALABLE
DISCOVERY ENGINE**

G Protein-Coupled Receptor (GPCR) Super Family

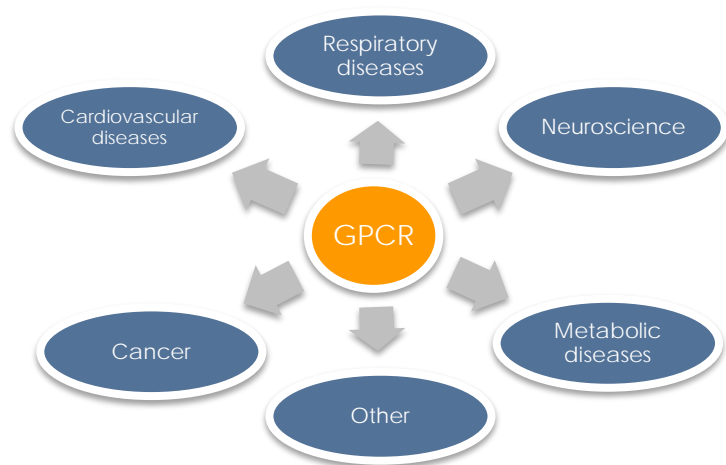
➤ Most important family of drug targets in industry

- Source of >40% approved drugs¹
- >27% of all drug sales²
- c.USD 890bn sales generated (2011–2015)²

➤ Clinical validation & compelling biology across a wide range of diseases



EXAMPLES OF GLOBAL BEST-SELLERS THAT ACT BY TARGETING GPCRs

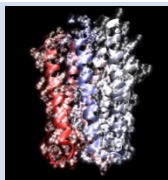


Respiratory	Neuroscience	Cardiovascular
Advair®	Zyprexa®	Opsumit®
Zyrtec®	Abilify®	Diovan®
Breo™ Ellipta™	Seroquel®	Benicar®
Anoro®	Suboxone®	Tracleer®
Seebri®		Zioptan™
Ultibro®	Metabolic	Plavix®
Ventolin® HFA	Belviq®	Cancer
Singulair®	Byetta®	Eriedge®
Spiriva®	Myrbetriq®	
Tudorza® Pressair®	Signifor®	

Significant opportunity targeting GPCRs

1 GPCRs ARE NOT OPTIMALLY DRUGGED

- Limited potency and selectivity
- Metabolic and safety liabilities
- Inadequate route of administration



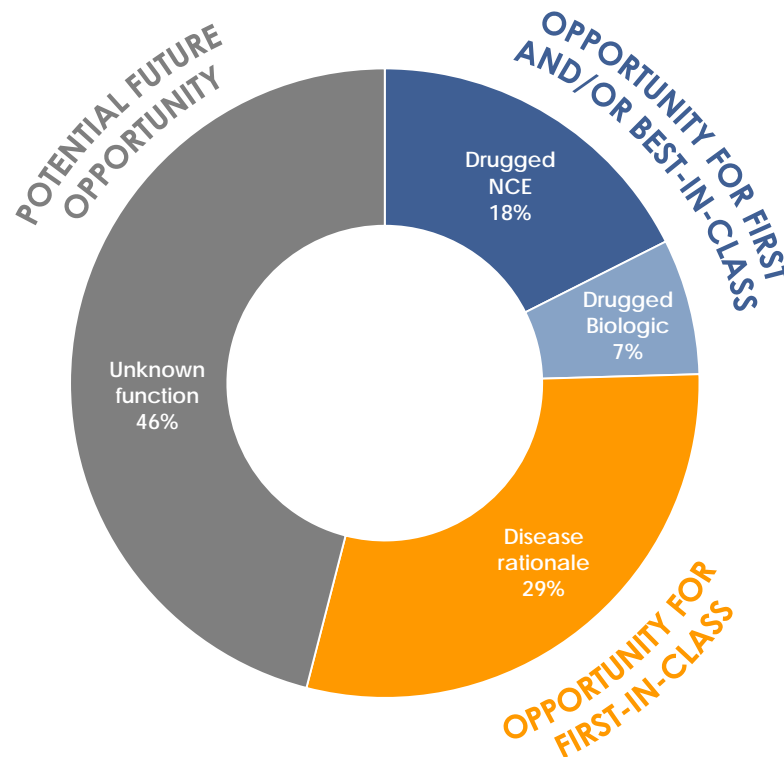
2 MANY HIGH-VALUE TARGETS REMAIN UNTAPPED OR INTRACTABLE

- First-in-class and superior medicines required
- Dynamic area with new biology constantly emerging
- Small molecules and biologics

3 GPCRs INACCESSIBLE TO MANY CONVENTIONAL DISCOVERY APPROACHES

- Native GPCR spans cell membrane – highly unstable when removed

STABLE GPCRS AND 3D STRUCTURES ARE THE KEY TO UNLOCKING GPCR DISCOVERY

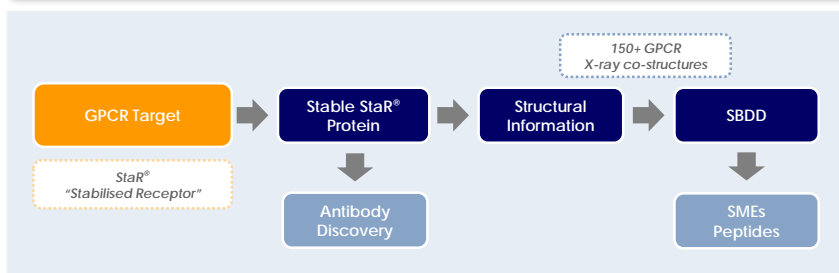


Source: Categorization of types of GPCR families and future opportunities based on Heptares' internal analyses and assessments

HEPTARES STAR® TECHNOLOGY MAKES GPCRS ACCESSIBLE TO SBDD AND OTHER CONVENTIONAL APPROACHES

Revolution in Structure-based Drug Discovery (SBDD)

HEPTARES' StaR® TECHNOLOGY PLATFORM



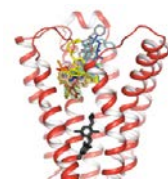
➤ **StaR® GPCRs and their 3D structures are the keys to unlocking discovery – generating differentiated molecules to difficult targets**

- Enables crystallization for X-ray structure determination and provides antigen for mAb discovery

➤ **SBDD advantage validated by proprietary pipeline and partnering deals**

- SBDD gives smaller, more polar, more selective and lower dose drugs that typically have better safety/efficacy and lower preclinical/clinical attrition
- Minimal attrition in HTL pipeline and 20+ other targets leveraged in Pharma technology SME or mAb partnerships

HEPTARES APPROACH

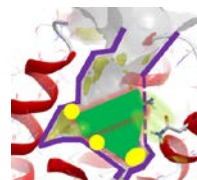


High hit rate – precise information on ligand/protein interactions

Screen 200-500 compounds (chosen from 10m compounds checked *'in silico'* to fit protein pocket)



Structure-based design rapidly generates optimized candidates



Optimized drug candidates 'perfect fit' reduced attrition

TRADITIONAL APPROACH

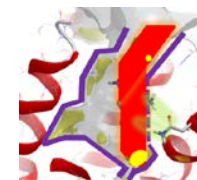


Low hit rate – poor quality No information on mechanism

1m compounds randomly screened by HTS



Resource-intensive empirical chemistry program



Sub-optimal drug candidates

C O M P O U N D S






D E S I G N

C A N D I D A T E S

2

MULTIPLE PIPELINE AND TECHNOLOGY DEALS

Wave 1 – substantial economic returns

Partner	Program / Indication	Upfront received (US\$m)	Total Development Milestones (US\$m)	Total Sales Milestones (US\$m)	Total UF + Milestones (US\$m)	Royalty (US\$m)	Additional Details
 (April 2016)	M ₁ agonist AD/Sz Cognition M ₄ agonist AD/Sz Psychosis M ₁ M ₄ dual agonist Sz/AD Psych/Cog	125	665	2,575	3,365	Tiered, double-digit	<ul style="list-style-type: none"> ■ Exclusive global rights to develop, manufacture and commercialize products ■ Allergan committed up to USD 50m to a joint R&D program and will be responsible for development upon Ph 2b initiation
 (August 2015)	A _{2A} Antagonist Cancer I/O	10	500		510	Tiered, double-digit	<ul style="list-style-type: none"> ■ Exclusive global rights to develop, manufacture and commercialize HTL1071 (AZD4635) ■ Collaboration to discover further A_{2A} receptor blocking compounds for development
 (Nov 2015)	CGRP Antagonist Migraine	10	400		410	Tiered, double-digit	<ul style="list-style-type: none"> ■ Exclusive global rights to develop, manufacture and commercialize novel CGPR antagonists ■ Received research funding and USD 5m milestone following nomination of preclinical candidate
 (March 2017)	Not disclosed Pain	4	Not disclosed		Not disclosed	Yes, but not disclosed	<ul style="list-style-type: none"> ■ Exclusive global rights to develop, manufacture and commercialize novel GPCRs nominated by Daiichi Sankyo for pain indications
 (Nov 2015)	Strategic R&D collaboration directed at up to 10 GPCR targets	Nil	~189 per target	Not disclosed	1,890	Tiered	<ul style="list-style-type: none"> ■ Heptares to support discovery of potential novel GPCR agents selected by Pfizer ■ Pfizer will be responsible for developing and commercializing any agents discovered ■ In connection with the agreement, Pfizer purchased USD 33m of newly issued Sosei common stock at a 25% premium
TOTAL		149			>6,175		

Muscarinic programs

M₁ AGONISTS – COGNITIVE IMPAIRMENT IN AD AND SZ

- Novel first-in-class oral agents advancing through Phase 1
- M₁ agonist rationale confirmed – increased brain activity without adverse events linked to M₂/M₃ binding
- M₁ selectivity, therapeutic window and safety shown in Phase 1a and 1b studies (healthy volunteers)
- Planning underway for patient studies

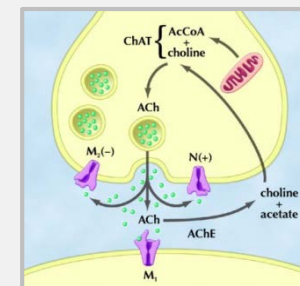
M₄ AGONISTS – PSYCHOSIS AND BEHAVIOURAL DISTURBANCE

- Potential in AD and SZ
- Highly selective for M₄, optimised pharmacology
- IND-enabling studies underway

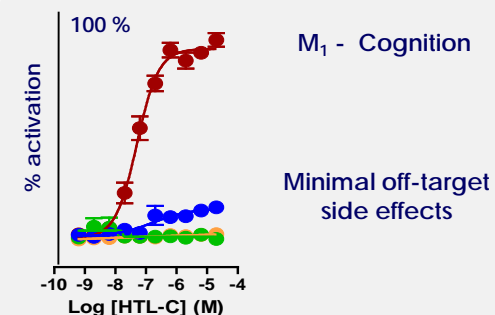
DUAL M₁/M₄ AGONISTS – COGNITIVE IMPAIRMENT & PSYCHOSIS

- In preclinical stage

M₁ IS KEY CHOLINERGIC POST-SYNAPTIC RECEPTOR



HEPTARES MUSCARINIC M₁ AGONIST



Strong selectivity targeting M₁

Source: Heptares' internal analyses and assessments

A_{2A} antagonist for cancer immunotherapy

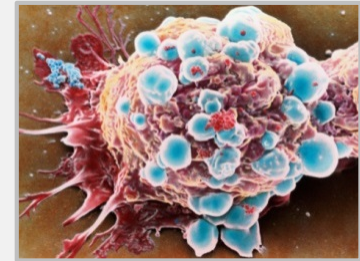
1 Potential breakthrough in cancer immunotherapy

- HTL1071 (AZD4635) – a novel adenosine A_{2A} antagonist in Phase 1 trials
- Potential for tox and PK advantages due to differentiated chemotype
- Best-in-class qualities with good chance of being first in class for cancer

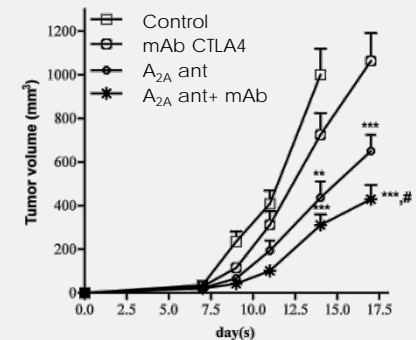
2 Adenosine production is one of the ways tumor cells evade the immune system

3 A_{2A} antagonists block action of adenosine on T cells and have potential to increase efficacy of immunotherapies

- Potential to combine with multiple approaches: checkpoint inhibitors, cancer vaccines, CAR-T
- Opportunity in a wide range of tumor types
- Ability to select patients based on biomarkers of elevated adenosine, e.g. CD73



T cell killing a cancer cell. Blocking A_{2A} receptors on T cells prevents tumors evading the immune system



A_{2A} antagonists enhance the efficacy of other immunotherapies, e.g. CTLA4 and PD1 mAbs¹

Small molecule CGRP antagonists for migraine

1 Highly potent, small molecule CGRP antagonists

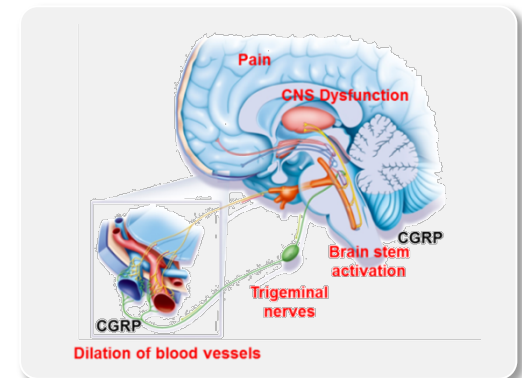
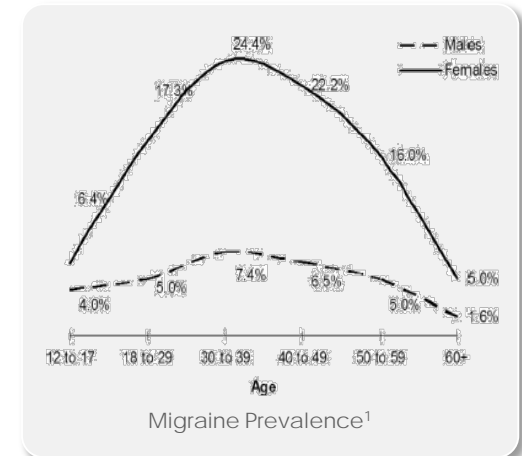
- In preclinical stage; first clinical studies being planned
- Molecules designed to minimise risk of drug- induced liver injury seen with competitor chemotypes

2 CGRP antagonism is a clinically validated approach in migraine

- CGRP antibody programs advancing to market for chronic migraine
- Need for well tolerated, high potency small molecule drug – non-invasive, easily reversible, broad utility

3 Addressing significant unmet medical needs

- Novel modality offers treatment option to larger patient population (incl. triptan-refractory or intolerant, or CV risk)
- Opportunity to develop agents for prophylaxis, rescue and acute therapy



3

**EMERGING PROPRIETARY
PIPELINE FROM GPCR
DISCOVERY ENGINE**

Representative candidates from Wave 2 pipeline

1

mGlu5 NEGATIVE ALLOSTERIC MODULATORS FOR CNS DISEASES

- **Potential best-in-class mGlu5 small molecule NAMs**
 - 10-fold more potent than the most advanced clinical agent
 - Predicted low dose and once daily oral PK profile
 - Smooth PK profile reduces risk of C_{max} driven adverse events
 - Preclinical package assembled including 7-day toxicity
- **Development program in progress**
 - 2017 Phase 1 SAD/MAD and PET receptor occupancy
 - Evolving Phase 2a proof-of-concept strategy
- **Mechanism validated in multiple CNS areas**
 - Focus on dystonia
 - All areas of unmet need and potential opportunities

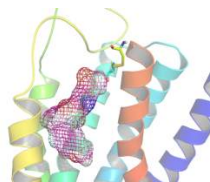


Heptares X-ray structures of mGlu₅ – novel binding sites identified and defined

2

SELECTIVE OREXIN OX1 ANTAGONISTS FOR ADDICTION

- **Highly potent & selective OX₁ antagonist leads**
 - Novel GPCR mechanism to directly inhibit craving and relapse in addiction (e.g. cocaine, nicotine, alcohol, Rx drugs)
 - Derived using unique information from crystal structures of OX₁ and OX₂ receptors
 - Potential first treatment for various compulsive disorders (binge eating, gambling)
- **USD 5.5m grant from US NIDA to develop OX₁ antagonists for treating cocaine addiction and dependence**
- **High unmet need for agents that are not replacement therapies**
 - High relapse rate with current therapies
- **Potential in PTSD, Panic and Anxiety**



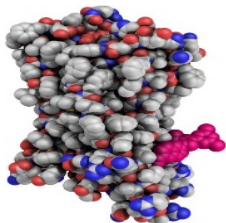
OX₁ structure with novel Heptares lead agent

Representative candidates from Wave 2 pipeline (cont'd)

3

GLP-1 ANTAGONISTS FOR RARE METABOLIC DISEASES

- **First-in-class GLP-1 antagonists for treatment of severe hypoglycemia in rare diseases including congenital hyperinsulinism (CHI)**
 - Peptide leads with low nM affinity designed from GLP-1 and other Class B GPCR StaR® structures
 - Clinically validated MoA (via exendin)
 - Supported by Biomedical Catalyst/Innovate UK grant
- **CHI is an orphan disease with very high unmet need and poor standard of care**
 - Characterized by inappropriate and unregulated insulin secretion
 - Scope to broaden into other hypoglycemias, e.g. those associated with bariatric surgery, insulinomas, dumping syndrome
 - Associated with poor clinical outcomes including long-term nerve and brain damage

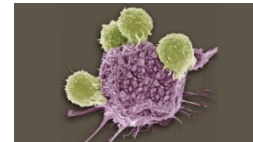


Class B GPCR structure with bound antagonist

4

THERAPEUTIC ANTIBODIES IN IMMUNO-ONCOLOGY

- **Risk-Share collaboration**
- **Kymab is a world leader in humanized mouse technology for the production of mAbs**
 - Greatly increased diversity, rapid generation of high-affinity mAbs with optimized drug properties
 - Suitable for development without further modification
 - Synergistic with StaR® technology, which generates stable GPCR immunogen
- **Focus on multiple GPCR immuno-oncology targets**
 - Co-development partnership, shared ownership of mAb pipeline resulting from the collaboration
- **GPCRs widely expressed on immune cells**
 - Key roles in modulating recruitment to tumor, proliferation, survival and differentiation
 - Act at critical checkpoints so can be targeted with immunotherapy mAbs



Immune cells killing a cancer cell

4



**OPPORTUNITY TO ACQUIRE
ORPHAN DRUG IN PHASE 1/2A
WITH MiNA**

MiNA Therapeutics

MiNA OVERVIEW



- Private UK biotech company pioneering **RNA activating therapeutics (saRNAs)**¹ – a new therapeutic class
 - saRNAs are designed to activate key genes, restoring levels of protein whose reduction is driving disease
- **MiNA's lead asset, MTL-CEBPA**², targets a master gene regulator of liver function, and until now an 'undruggable' target
- MiNA's platform has potential to deliver **novel saRNA therapeutics** across multiple indications

SOSEI'S INVESTMENT OVERVIEW



- Sosei has made a strategic investment of GBP 35m (USD 44m)³ for a **25.6% equity share in MiNA**
- **Exclusive option** to acquire the remaining stake at a value of GBP 140m (USD 175m)³
- **Phased options** will be based on clinical milestones of OUTREACH study with MTL-CEBPA in advanced liver cancer
- MiNA will continue to develop and enhance its **RNA activation platform**

POTENTIAL RAPID MID TERM GO-TO-MARKET OPPORTUNITY
PHASE 1 / 2a DATA WITHIN 12-18 MONTHS

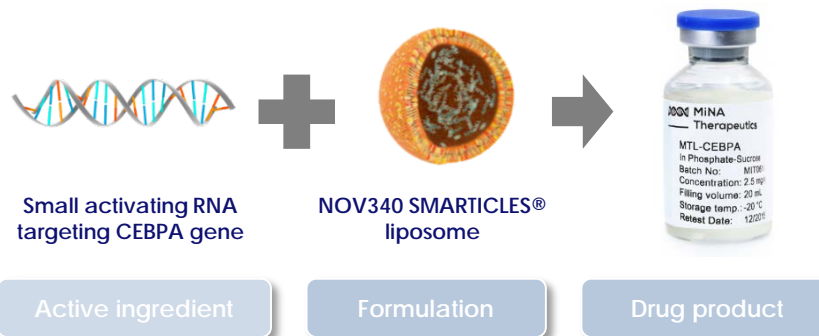
MTL-CEBPA OUTREACH

The first-in-human clinical study of a saRNA therapeutic

FIRST SMALL ACTIVATING RNA TO REACH THE CLINIC

- Currently in OUTREACH Phase I study in liver cancer
- 10 centers in UK, Singapore, Taiwan
- Dose-escalation Phase 1 study
- Assessing the safety and tolerability of MTL-CEBPA
- In patients with advanced primary or metastatic liver cancer

DEVELOPED FOR TREATMENT OF MULTIPLE LIVER DISEASES

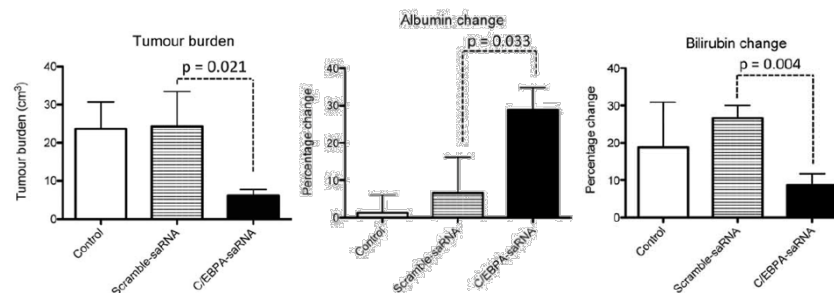


SELECT LOCATIONS OF CLINICAL TRIAL CENTERS



VALIDATED BY PROOF OF CONCEPT ANIMAL STUDY

- Study validated ability of CEBPA up-regulation to treat features of liver cancer and liver cirrhosis¹



CEBPA¹ is an attractive, previously 'undruggable' target in liver disease

CEBPA REGULATES MULTIPLE PATHWAYS IN LIVER

- **Master regulator** of liver function
- Increases energy generation, energy utilisation, amino-acid metabolism, glucose uptake
- **Inhibitor of oncogenic signaling pathways:** mTOR, MAPK and YAP1
- **Knock-out mice** have impaired liver function
- **Knock-in mice** have reduced susceptibility to HCC and cirrhosis without observable toxicity

saRNA IS A UNIQUE MODALITY FOR TARGETING CEBPA

- **Extremely low drugability score** of 0.01 (c.f. PPAR γ 3.52) for small molecule therapeutics
- **Reversible mode of action** eliminates long term risks of gene therapy / CRISPR
- **1hr protein half-life** combined with short PD limits mRNA therapies
- **Liposomal formulation** minimises non-liver toxicity

MTL-CEBPA PROGRAM POTENTIALLY PRESENTS A UNIQUE OPPORTUNITY TO IMPROVE OR RESTORE NORMAL LIVER FUNCTION IN A BROAD RANGE OF PROGRESSIVE LIVER DISEASES

saRNA Technology offers potential for new discovery engine

1

Pioneering RNA activation

- Novel platform to selectively increase RNA expression
- Comprehensive IP estate incl ex-Alnylam portfolio

2

saRNAs are a new therapeutic class

- saRNAs reversibly activate gene expression
- Highly specific activation of target gene
- Unique opportunity to address undruggable targets e.g. transcription factors
- Leverages advances of saRNA therapeutics, including clinically validated delivery platforms

3

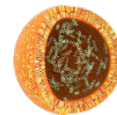
RNAa represents a platform technology that can rapidly generate a portfolio of programs

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TCAACATGGTCAACATTGTTTCTAGA
ACATGTCCTGGGATTGTGGGAAGG
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AAAGCTTCTGGGTTCCAGAGCCA
GCTACTTTGGGAACCTCAGCAACC
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AGA CCGGATGCCCCCAGGGGA
GGTGTCCGGAGCCCAACCCTTTC
CCAGATAGCA GGTCCGGAATCC
TCAACATGGTCAACATTGTTTCTAGA
ACATGTCCTGGGATTGTGGGAAGG
```

Bioinformatics
+ in vitro screening



Sequence
optimisation
+ chemical
modification



Formulation



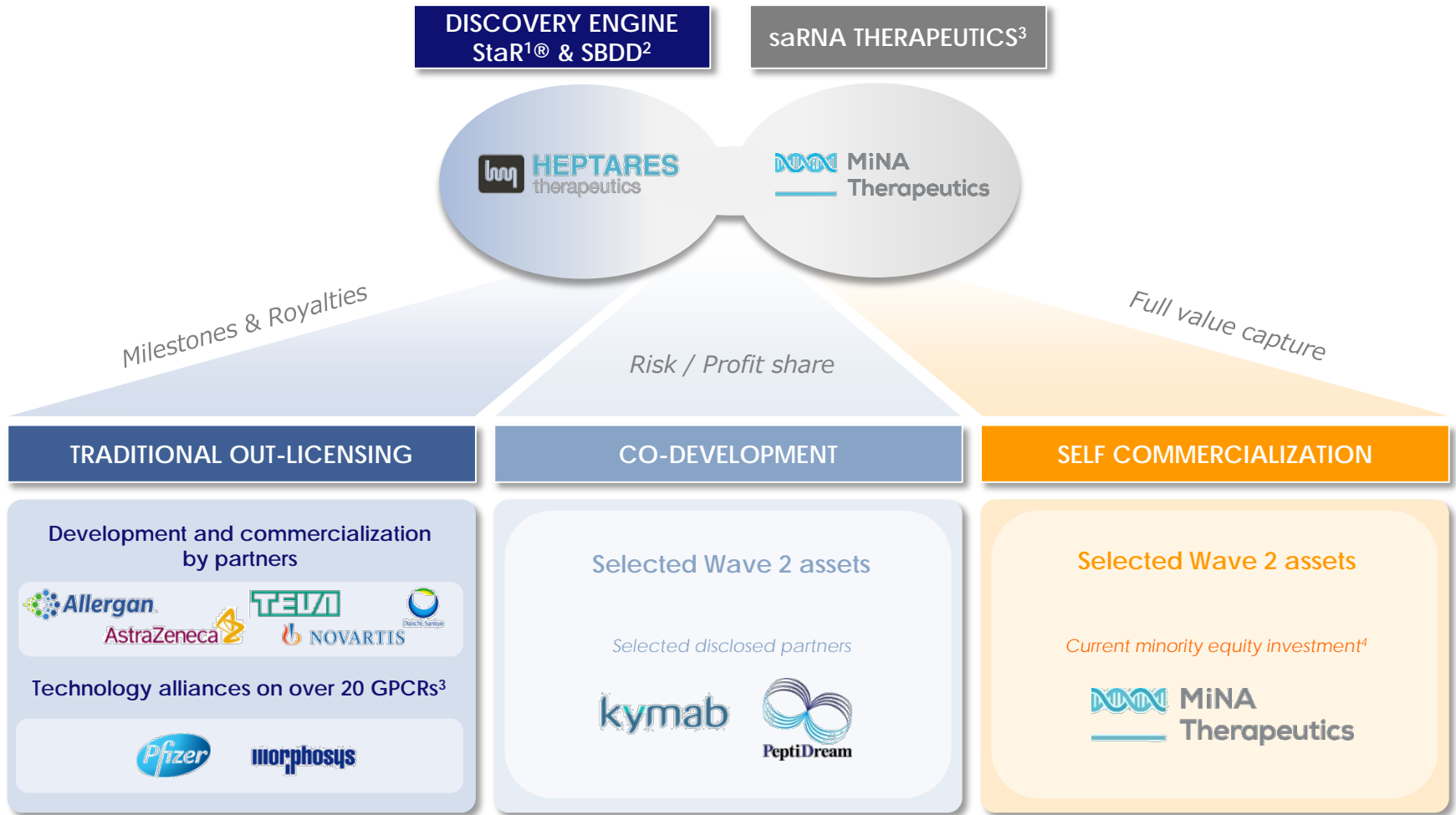
Characterisation



Development
candidate

12 months from target
selection to development candidate

Potential to have two discovery engines



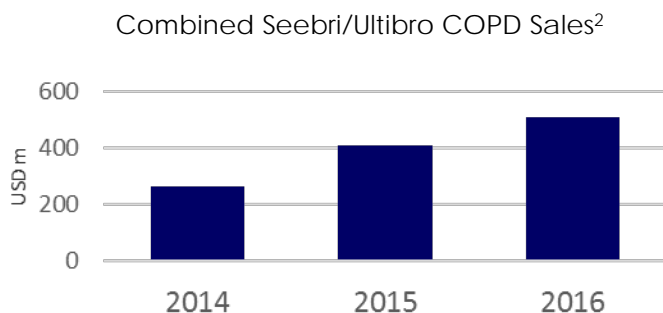
¹ Stabilized receptor technology
² Structure-based drug design
³ Small activating RNA (saRNA) platform is MiNA's technology, 25.6% of the shares of which is owned by Sosei
⁴ MiNA, currently 25.6% owned by Sosei with an exclusive option to move to 100%

5

GROWING REVENUE STREAM FROM COPD FRANCHISE

COPD franchise provides growing revenue source

COPD FRANCHISE SALES



	2014 USD m	2015 USD m	2016 USD m
Ultibro® Breezhaler® ¹	118	260	363
% change (USD/cc)	(nm / nm)	(120% / 157%)	(40% / 38%)
Seebri® Breezhaler® ¹	146	150	149
% change (USD/cc)	(152% / 159%)	(3% / 21%)	(-1% / 2%)

CURRENT STATUS

- Ultibro® Breezhaler® is approved in over 90 countries, incl. EU, US and Japan
- Utibron™ Neohaler® - US launch in April 2017 by Sunovion
- Extensive publication support from FLAME study data
- GOLD guidelines call for Dual Bronchodilation (Ultibro® Breezhaler®; Utibron™ Neohaler®)

FUTURE POTENTIAL GROWTH DRIVERS

- US launch by Sunovion of Seebri™ Neohaler® and market uptake of Utibron™ Neohaler®
- China approval of Ultibro® Breezhaler®
- Filing of QVM 149 in asthma in 2019

* cc represents constant currency

¹ Seebri®, Ultibro®, Breezhaler® and Neohaler® are registered trademarks of Novartis AG. Seebri™, and Ultibro™ are trademarks of Novartis AG.

² Based on Novartis Annual Report 2016

³ FLAME is a randomized, double-blind, double-dummy, parallel-group, non-inferiority, active-controlled 52wk study involving 3,362 COPD patients and conducted at 356 sites across 43 countries

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FINANCIAL SNAPSHOT

Strong financial year – boosted by Allergan upfront payment

(USD m)	FY2015	FY2016	% change	% cc* change
Revenue	67.8	176.4 ⁽¹⁾	160%	143%
Operating income	8.9	114.3	1,184%	986%
Net Income	(12.9)	90.4	nm	nm
Earnings Per Share (EPS)	(0.78)	5.35	nm	nm
Cash & cash equivalents	83.8	128.3	na	na
Interest-bearing debt	73.5	63.7	na	na

(JPY m) ²	FY2015	FY2016	% change	% cc* change
Revenue	8,151	18,901 ⁽¹⁾	132%	143%
Operating income	1,075	12,389	1,152%	986%
Net Income	(1,547)	9,638	nm	nm
Earnings Per Share (EPS)	(93.60)	579.97	nm	nm
Cash & cash equivalents	10,068	13,899	na	na
Interest-bearing debt	8,837	6,900	na	na

* cc represents constant currency

¹ Includes USD 125m upfront payment from Allergan to Heptares

² Converted at JPY:USD FX rate of 108.33 (FY2016) and 120.15 (FY2015)

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CONCLUSION

Investment highlights

1

Unique and strategically scalable drug discovery engine

- GPCR structure-based drug design technology
- Small molecules, peptides and antibodies

2

Multiple pipeline/technology deals with global leaders

- Potential to generate >USD 6bn in future milestones plus royalties on product sales

3

Emerging proprietary pipeline from GPCR discovery engine

- Multiple programs including a number that Sosei could take to market

4

Opportunity to acquire orphan drug in Phase 1/2a with MiNA¹

- saRNA technology – potential for a second discovery engine

5

Existing and growing revenue stream from COPD franchise

Locations

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