



November 2023 | Sosei Group Corporation (TSE:4565)

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References to "FY" in this presentation for periods prior to 1 January 2018 are to the 12-month periods commencing in each case on April 1 of the year indicated and ending on March 31 of the following year, and the 9 month period from April 1 2017 to December 31 2017. From January 1 2018 the Company changed its fiscal year to the 12-month period commencing in each case on January 1. References to "FY" in this presentation should be construed accordingly.

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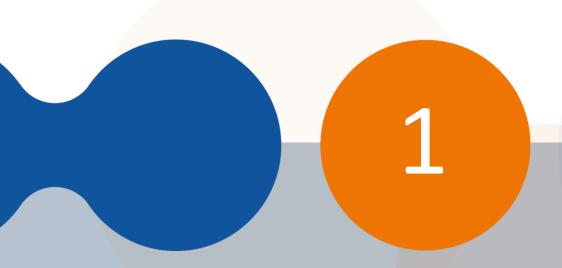


Agenda

- 1 Business Summary
- 2 Latest Consolidated Financial Results
- 3 Our Pipeline
- 4 Our Drug Discovery Platform (StaR®/SBDD)
- 5 Products / Late-stage Development
- 6 FY2023 Strategic Goals
 - 7 Appendix



1. Business Summary	2. Consolidated Results	3. Pipeline	4. Platform	5. Products/ Development	6. FY2023 Goal	7. Appendix
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Business Summary

The vision for Sosei Group

World-Leading Science, Life-Changing Medicines

2. Consolidated Results
2. Consolidated Results
3. Pipeline 4. Platform 5. Products/ Development Goal 7. Appendix





+ APAC (ex-China)

Development, medical affairs and commercial capabilities to deliver medicines to patients

WORLD-LEADING SCIENCE

LIFE-CHANGING MEDICINES

World-class scientific platform, to discover life-changing medicines

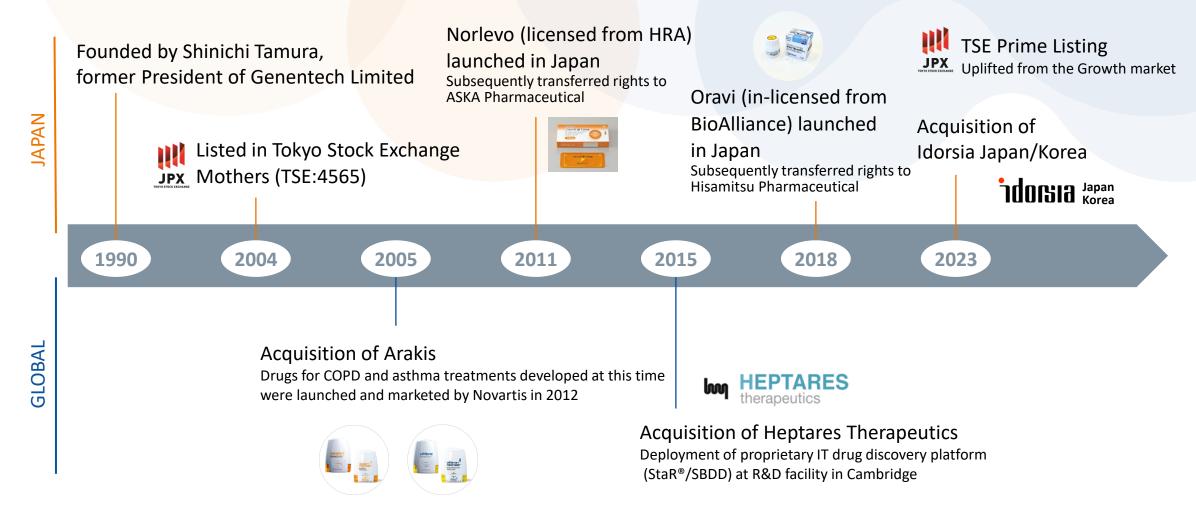




History of Sosei Group

Growth driven by acquisitions of specialist products for Japan, and global drug discovery platforms

1. Business





BOARD OF DIRECTORS

Our leadership





Chris Cargill CEO



Tomohiro Toyama Legal



Rolf Soderstrom **Finance**



David Roblin Clin Dev



Kuniaki Kaga Clin Dev



Eiko Tomita **Reg Affairs**



Noriaki Nagai Compliance



Miwa Seki Tech/ESG m) POWER Morgan Stanley





KPMG J.P.Morgan



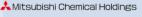






















Kieran Johnson **Chief Accounting Officer**



Candelle Chong

J.P.Morgan

Chief of Staff







EXECUTIVE MANAGEMENT

Group Operations Tokyo / London ~45 people



Chris Cargill Chief Executive Officer



Hironoshin Nomura **Chief Financial Officer**







Kazuhiko Yoshizumi **Chief Compliance Officer**



UK Research & Development Operations



Matt Barnes President of **Heptares Therapeutics**





~180 people

Research & Early Development Discovery / Preclinical / Phase I ~145 people

Development & Commercialization Phase II / III / IV



Japan Development & Commercial **Operations**

Satoshi Tanaka President of Idorsia Pharmaceuticals Japan







Sosei Group's structure

Now accelerating our mission and vision with 370 total employees

Sosei Group

TSE Prime Segment listed (4565-JP)
Group Operations | 46 people



Heptares Therapeutics Cambridge | 177 staff



Sosei Co. Tokyo | 12 staff



IPJ
Tokyo | 130 staff



IPK
Seoul | 5 staff

Research & Drug Discovery

- StaR®-SBDD Platform
- Drug Discovery
- Translational Medicine
- Early Clinical Development
- Business Development

Drug Development & Commercial Operations

- Clinical Development
- Regulatory Affairs
- Marketing Authorisation Holder
- Commercial Sales (direct and via partners)

Japan businesses to be merged post-transaction within 12 months

Drug Development

- Clinical Development
- Regulatory Affairs
- Marketing Authorisation Holder
- Commercial Sales (via partners)

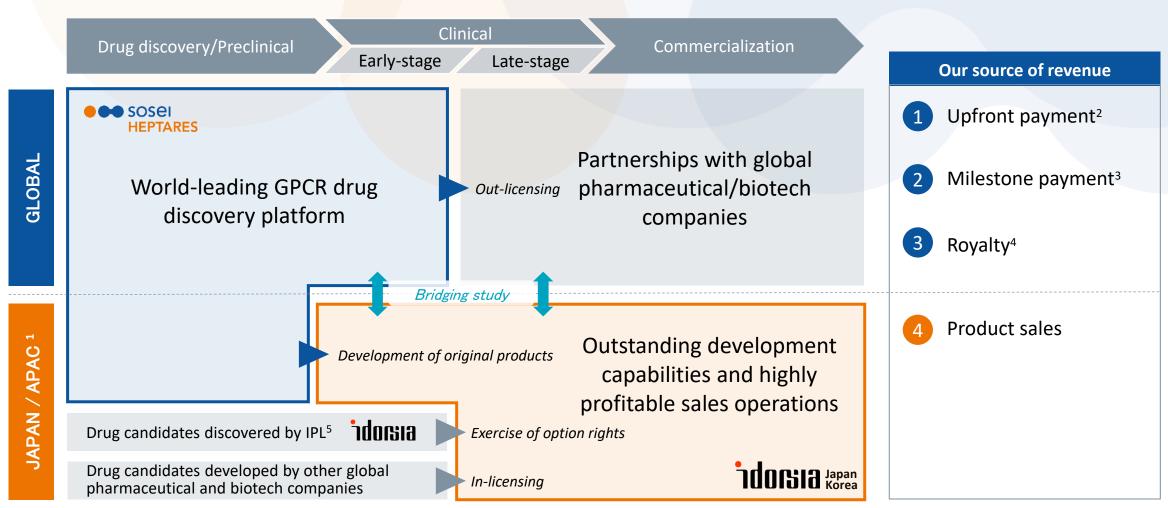
Note: Details as of 1 July 2023



4. Platform

Business model

Expand business globally on the strength of the platform, and commercialization in Japan



¹APAC (ex-China) territory includes South Korea, Australia, Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, New Zealand, Philippines, Singapore, Taiwan, Thailand and Vietnam



² Received upon signing of license agreement ³ Received upon the successful progression of the program – achieve pre-defined development milestones ⁴ Payment on future net sales ⁵ IPL:Idorsia Pharmaceuticals Ltd.(Switzerland)

Our drug discovery platform

World-leading science and platform enables efficient drug discovery against difficult targets

	Conventional drug discovery	Our drug discovery
Approach	Empirical design	Rational design (computer-based)
Method	High Throughput Screening (HTS¹)	Proprietary technology and drug discovery platform (StaR®/SBDD²)
Period ³	4.5 years on average	3.0 years on average
Costs ³	\$15 million	\$5 million
Features ⁴	Difficult to design drugs precisely – high development attrition rate	Execute more precise drug design – lower development attrition rate
Target ⁴	Difficult for GPCRs with unstable structures	Best for GPCRs with unstable structures

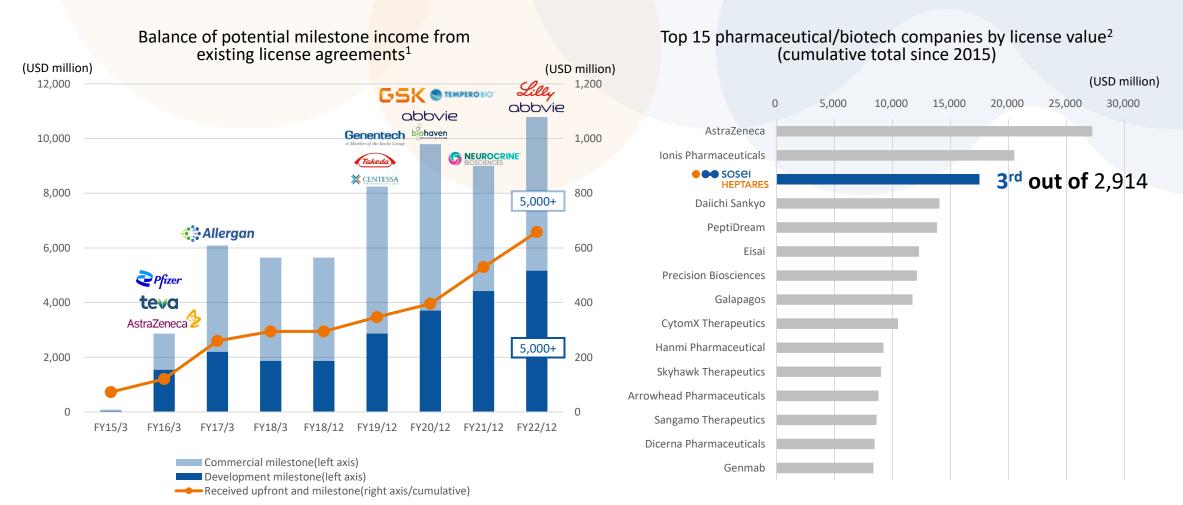
¹ HTS/High Throughput Screening is a method to find drug candidates by reacting tens of thousands to millions of compounds with drug targets using large machines and human hands.

² StaR®: Stabilized Receptor is a method for stabilizing drug targets with unstable structures, such as GPCRs, and using them for structural analysis. SBDD: Structure-Based Drug Design is a method to design and screen compounds on the computer based on structural information (ref: Appendix) ³ The period from target selection to preclinical testing. For conventional drug discovery, figures are taken from NATURE REVIEWS Drug Discovery (MARCH 2010). ⁴ Precise drug design make clear the binding site of target, make easier to improve compound, create backups and redo – potentially increase the success rate. GPCR is most popular drug target which account for 30% of current drug target.(The details are to be mentioned later)



Partners for drug discovery platform

Income from licensing provides a great source of non-dilutive financing to support our growth



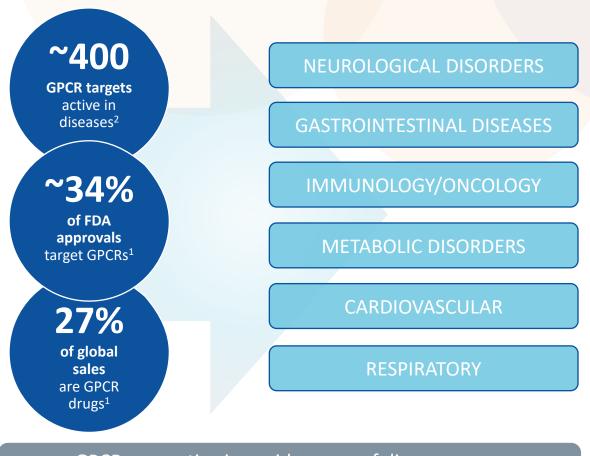
¹ Balance as of the end of the fiscal year of only those currently under contract. TEVA and Abbvie (formerly Allergan), for which compounds were returned, are excluded from the balances from FY2018 and FY2021, respectively. ² The figures are based on 'Licensing' category on third party's (EvaluatePharma's) proprietary database and therefore do not completely match the amounts shown in the LHS chart. Source: Company's data (LHS) and EvaluatePharma (as of 2023/2/6) (RHS)

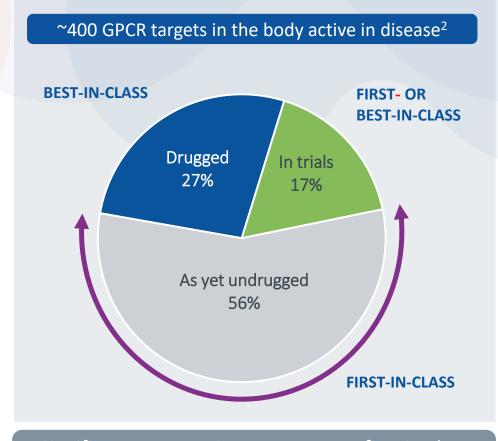


GPCR targets are our core focus

GPCRs are the largest family of drug discovery targets – significant potential that we can address

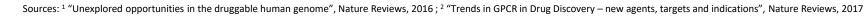
1. Business





GPCRs are active in a wide range of disease areas, and offer broad therapeutic potential

Significant opportunity to target new first-in-class and/or improved best-in-class GPCR medicines





2. Consolidated Results

3. Pipeline 4. Platform

5. Products/ Development 6. FY2023 Goal

List of GPCR targets

As of 2018, 398 GPCRs are potentially druggable and 325 of them are regarded undrugged

Drugged GPCR targets (73)

Undrugged GPCR targets (325)

ADORA1	CHRM1	HCRTR2	PTGER2	ACKR1	ADGRF3	C5AR1	CHRM5	FPR2	GNRHR2	GPR151	GPR21	GPR6	GRM1	LGR4	MLNR	NPY5R	PRLHR	TAAR2	TAS2R30	TSHR
ADORA2A	CHRM2	HRH1	PTGER3	ACKR2	ADGRF4	C5AR2	CMKLR1	FPR3	GPBAR1	GPR152	GPR22	GPR61	GRM2	LGR5	MRGPRD	NPY6R	PROKR1	TAAR3P	TAS2R31	UTS2R
ADORA2B	CHRM3	HRH2	PTGER4	ACKR3	ADGRF5	CALCR	CNR2	FZD1	GPER1	GPR153	GPR25	GPR62	GRM3	LGR6	MRGPRE	NTSR1	PROKR2	TAAR4P	TAS2R38	VIPR1
ADORA3	CNR1	HTR1A	PTGFR	ACKR4	ADGRG1	CALCRL	CRHR1	FZD10	GPR1	GPR156	GPR26	GPR63	GRM4	LPAR1	MRGPRF	NTSR2	PTAFR	TAAR5	TAS2R39	VIPR2
ADRA1A	CXCR4	HTR1B	PTGIR	ADCYAP1R1	ADGRG2	CCKAR	CRHR2	FZD2	GPR101	GPR157	GPR27	GPR65	GRM5	LPAR2	MRGPRG	OPN3	PTGDR	TAAR6	TAS2R4	XCR1
ADRA1B	CYSLTR1	HTR1D	S1PR1	ADGRA1	ADGRG3	CCKBR	CX3CR1	FZD3	GPR107	GPR158	GPR3	GPR68	GRM6	LPAR3	MRGPRX1	OPN4	PTGDR2	TAAR8	TAS2R40	
ADRA1D	DRD1	HTR1F	S1PR5	ADGRA2	ADGRG4	CCR1	CXCR1	FZD4	GPR119	GPR160	GPR31	GPR75	GRM7	LPAR4	MRGPRX2	OPN5	PTH1R	TAAR9	TAS2R41	
ADRA2A	DRD2	HTR2A	SMO	ADGRA3	ADGRG5	CCR10	CXCR2	FZD5	GPR12	GPR161	GPR32	GPR78	GRM8	LPAR5	MRGPRX3	OPRL1	PTH2R	TACR2	TAS2R42	
ADRA2B	DRD3	HTR2B	SSTR1	ADGRB1	ADGRG6	CCR2	CXCR3	FZD6	GPR132	GPR162	GPR33	GPR79	GRPR	LPAR6	MRGPRX4	OR51E1	QRFPR	TACR3	TAS2R43	
ADRA2C	DRD4	HTR2C	SSTR2	ADGRB2	ADGRG7	CCR3	CXCR5	FZD7	GPR135	GPR17	GPR34	GPR82	HCAR1	LTB4R	NMBR	OXER1	RXFP1	TAS1R1	TAS2R45	
ADRB1	DRD5	HTR4	SSTR3	ADGRB3	ADGRL1	CCR4	CXCR6	FZD8	GPR137	GPR171	GPR35	GPR83	HCAR2	LTB4R2	NMUR1	OXGR1	RXFP2	TAS1R2	TAS2R46	
ADRB2	EDNRA	LHCGR	SSTR5	ADGRD1	ADGRL2	CCR6	CYSLTR2	FZD9	GPR139	GPR173	GPR37	GPR84	HCAR3	MAS1	NMUR2	P2RY1	RXFP3	TAS1R3	TAS2R5	
ADRB3	EDNRB	MTNR1A	TACR1	ADGRD2	ADGRL3	CCR7	F2RL1	GALR1	GPR141	GPR174	GPR37L1	GPR85	HRH3	MAS1L	NPBWR1	P2RY10	RXFP4	TAS2R1	TAS2R50	
AGTR1	F2R	MTNR1B		ADGRE1	ADGRL4	CCR8	F2RL2	GALR2	GPR142	GPR176	GPR39	GPR87	HRH4	MC1R	NPBWR2	P2RY11	S1PR2	TAS2R10	TAS2R60	
AVPR1A	FSHR	OPRD1		ADGRE2	ADGRV1	CCR9	F2RL3	GALR3	GPR143	GPR179	GPR4	GPR88	HTR1E	MC2R	NPFFR1	P2RY13	S1PR3	TAS2R13	TAS2R7	
AVPR1B	GABBR1	OPRK1		ADGRE3	AGTR2	CCRL2	FFAR1	GCGR	GPR146	GPR18	GPR42	GPRC5A	HTR5A	MC3R	NPFFR2	P2RY14	S1PR4	TAS2R14	TAS2R8	
AVPR2	GABBR2	OPRM1		ADGRE4P	APLNR	CELSR1	FFAR2	GHRHR	GPR148	GPR182	GPR45	GPRC5B	HTR5BP	MC4R	NPSR1	P2RY2	SCTR	TAS2R16	TAS2R9	
BDKRB2	GLP1R	OXTR		ADGRE5	BDKRB1	CELSR2	FFAR3	GHSR	GPR149	GPR183	GPR50	GPRC5C	HTR6	MC5R	NPY1R	P2RY4	SSTR4	TAS2R19	TBXA2R	
CASR	GNRHR	P2RY12		ADGRF1	BRS3	CELSR3	FFAR4	GIPR	GPR15	GPR19	GPR52	GPRC5D	HTR7	MCHR1	NPY2R	P2RY6	SUCNR1	TAS2R20	TPRA1	
CCR5	HCRTR1	PTGER1		ADGRF2	C3AR1	CHRM4	FPR1	GLP2R	GPR150	GPR20	GPR55	GPRC6A	KISS1R	MCHR2	NPY4R	P2RY8	TAAR1	TAS2R3	TRHR	

GPCRs targeted by Sosei Heptares (Disclosed targets only. In addition, there are ~20 undisclosed targets.)

Sources: GPCRs as targets for approved drugs: How many targets and how many drugs? (2018)



Utilizing Japan's high quality clinical data in development and marketing

Expanding into APAC by leveraging clinical innovations based on Japan's high quality data

Quality Clinical Development









Quality Regulatory Environment







Deep understanding of disease and treatment by Doctors/HCPs High quality data from clinical studies through to Post Marketing Surveillance High
penetration in
of patient
population
during
commercial
phase

Quality excellent access to Doctors/HCPs who evaluate novel drugs

Achieve strong patient uptake

Contribute to reduce drug loss/lag for Japan patients

Reasonable NHI price for reimbursement supported by high quality clinical trial and PMS data

Prolongation of patents via extended clinical development

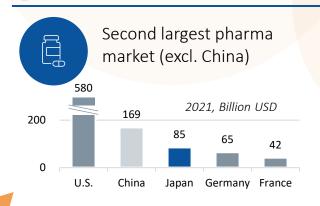
Regional optimization makes clinical trials cheaper and faster to execute



Japan will serve as our base to expand across APAC markets

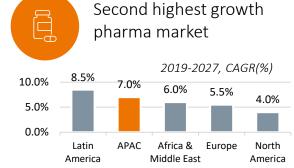
APAC is one of the most rapidly growing markets in the world

Established market with strong volumes



- Universal health care system
- Relatively weak incumbents
- Attractive market for newcomers
- Large, ageing population
- Stable, pro-innovation market

APAC* One of the fastest growing pharma regions globally



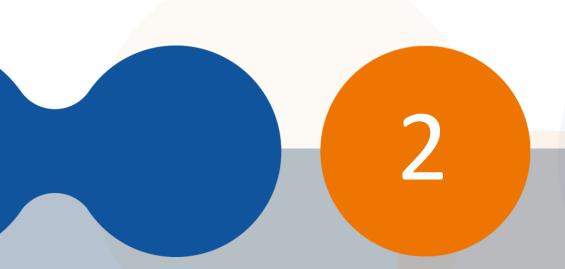
- Significant population growth
- Developing GDP/economies
- Attractive market for newcomers
- Large, ageing population
- Accessible via other regulatory approvals



Source: IQVIA Market Prognosis, Sep 2022; IQVIA Institute, Nov 2022.

^{*}APAC (ex-China) territory includes South Korea, Australia, Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, New Zealand, Philippines, Singapore, Taiwan, Thailand and Vietnam





Latest Consolidated Financial Results

Financial summary for FY2022

Strong revenue & cash generation in 2022 combined with continued investment in R&D



2022 Revenue of ¥15,569m (\$119m) vs. ¥17,712m (\$161m) in the prior year.

2021 revenue included a \$100m upfront fee (Neurocrine) whereas 2022 included two significant but smaller upfront fees of \$35m. This decrease in upfront fee revenue was partially offset by an increase in milestone income.



2022 Operating Profit of ¥3,436m (\$26m) vs. ¥3,775m (\$34m) in the prior year. **2022 Core Operating Profit of ¥5,856m (\$45m)** vs. ¥8,904m (\$81m) in the prior year.

This reflects the decrease in Revenue and an increased Core R&D of ¥1,324m (\$2m), in line with our strategy.



2022 Net Profit of ¥383m (\$3m) vs. ¥1,017m (\$9m) in the prior year.

The current year includes a non-cash charge of ¥1,836m (\$14m) for impairment of the Group's investment in an associated company, MiNA.



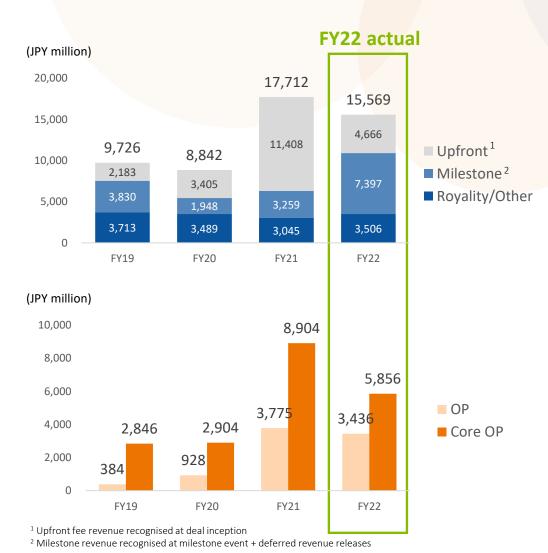
¥67bn cash balance (\$507m) as at Dec 31, 2022

The majority of which is earmarked for acquisitions and in-licenses to accelerate our growth.



Key financial indicators

2022 Revenue lower due to inclusion of one substantial upfront fee in 2021



Revenue

- Revenue can vary significantly year on year depending on the occurrence of milestone events and the signing of new collaborations agreements with upfront fees.
- Revenue decreased by JPY2,143m / \$42m in 2022 vs. 2021 primarily due to inclusion of a substantial upfront fee from Neurocrine (JPY11,408m/\$100m) in 2021.
- 2022 Revenue includes upfronts from:
 - a new partnership with Eli Lilly targeting diabetes and metabolic diseases
 - a new partnership with AbbVie targeting neurological diseases
- 5 milestones events were achieved in 2022 (Takeda, Genentech, AbbVie, Pfizer and Neurocrine) generating a significant increase in this revenue stream.

Operating Profit

- Core R&D costs increased by ¥1,143m vs.2021 primarily due to higher activity on inhouse programs, the impact of a stronger GBP vs. JPY and cost inflation.
- Core SG&A costs increased by ¥345m vs.2021 due to a general increase in business activity during a period of lighter COVID restrictions (including professional fees, travel and training) plus the impact of a stronger GBP vs. JPY and cost inflation.
- One-off restructuring charges totaling ¥ 533m (mainly relating to the retirement of 3
 Executive Officers) were also incurred in Q1 2022.



Full year cost guidance

Incremental investment designed to deliver greater returns over the medium to long term



R&D expenses (IFRS basis)

¥8,000 to ¥10,000m

- Expand platform and grow discovery capacity
- Build a program-centric clinical development focus, and invest in new translational medicine capabilities
- Move priority programs into Phase 1b clinical studies to deliver greater value
- Excluding the impact caused by the acquisition of IPJ/IPK as this is currently being calculated.

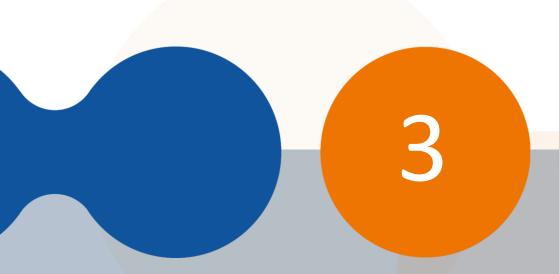
G&A expenses (IFRS basis)

¥4,250 to ¥4,750m

- Invest in functional teams to support great science
- Continue to enhance corporate governance
- Costs associated with TSE Prime listing project
- Excluding the impact caused by the acquisition of IPJ/IPK as this is currently being calculated.



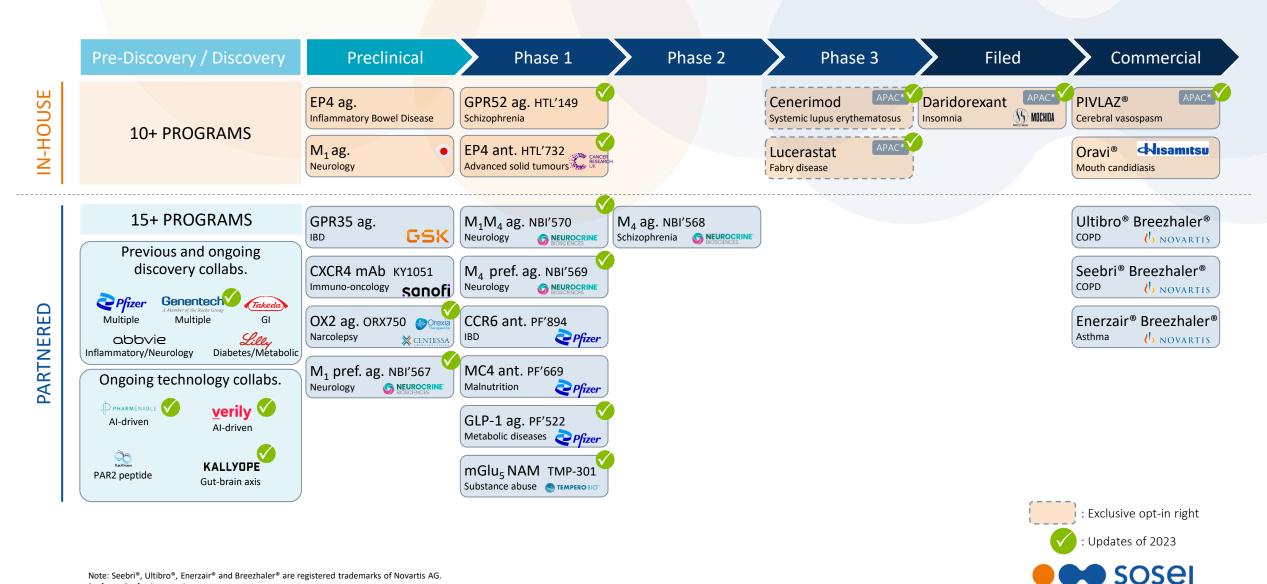




Our Pipeline

HEPTARES

Partners and active pipeline overview



Major licensing transactions

New multi-target collaboration for diabetes and metabolic diseases with Eli Lilly signed

Partner	Execution	Program	Therapeutic Area(s)	Upfront and Initial Milestones	Potential Total Milestone ¹
Lilly	December 2022	Multi-target Collaboration	Diabetes and Metabolic	\$37m	800m
abbvie	August 2022	Multi-target Collaboration	Neurological disorders	\$80m	\$1.2bn
NEUROCRINE' BIOSCIENCES	December 2021	Collaboration and license agreement for M_4 , M_1 and M_1/M_4 dual agonist	Neurological disorders	\$100m	\$2.6bn
GSK	December 2020	Collaboration and license agreement for GPR 35	Gastrointestinal, immunology	\$44m	\$480m
biohaven pharmaceuticals	December 2020	Collaboration and license agreement for CGRP portfolio	Neurology	\$10m	\$380m
abbvie	June 2020	Discovery Collaboration and Option to License ²	Inflammatory and Autoimmune	\$32m	\$400m
Takeda	August 2019	Multi-target Collaboration	Multiple; Initial focus on Gastrointestinal	\$26m	\$1.2bn
Genentech A Member of the Roche Group	July 2019	Multi-target Collaboration	Multiple	\$26m	\$1bn
₹ Pfizer	November 2015	Multi-target Collaboration	Multiple	-	\$1.8bn
AstraZeneca 🕏	August 2015	Collaboration and license agreement for A _{2a} antagonist ³	Immuno-oncology	\$10m	\$500m

¹Potential option fees, development, regulatory and commercial milestone payments. Sosei Heptares is also eligible to receive tiered royalties ranging from high single digit to mid-teen percentage on future net sales of any products developed under the partnership. ² AbbVie has the option to expand the collaboration by an additional three targets. ³ AstraZeneca have removed the A2a program from their clinical pipeline as at Q3 2021



4. Platform 3. Pipeline 7. Appendix Results Development

Clinical stage partnerships (Muscarinic Programs)

Developing novel muscarinic receptor agonists for schizophrenia and other neuropsychiatric disorders

Neurocrine Biosciences Advancing Muscarinic Portfolio

Clinical studies, include:

- ➤ Initiated Phase 2 placebo-controlled study of NBI-1117568*, a selective M4 agonist, as a potential treatment for schizophrenia
 - ✓ NBI-1117568 offers the potential for an improved safety profile:
 - ☐ Without the need of combination therapy to minimize side effects
 - ☐ Avoids the need of cooperativity with acetylcholine when compared to non-selective muscarinic agonists and positive allosteric modulators in development
- ➤ Clinical Trial Application Accepted for NBI-1117570*, a dual M1 / M4 agonist
 - ✓ Initiating Phase 1 study in Q3 2023
- Anticipate advancing additional muscarinic compounds into clinic over time



Sosei Heptares received \$100m upfront, +\$30m @ Ph 2

Sosei Heptares to receive ongoing R&D funding and up to \$2.6bn in potential development, regulatory and commercial milestones, plus tiered double digit percentage royalties on net sales

Sosei Heptares retains rights to develop all M1 agonists in Japan in all indications, with NBIX receiving codevelopment and profit share options

NBI'568 (M4 agonist): Phase II initiated '22

NBI'570 (M1/M4 dual): Phase I to be initiated Q3 '23



Goal

Wholly-owned programs to begin clinical studies

Advancing priority programs into early clinical studies, including our collaboration with CRUK

Indication and target



Immunosuppression in solid tumors



Schizophrenia and Psychosis



Inflammatory **Bowel Disease**

EP4 antagonist

GPR52 agonist

EP4 agonist

Target Product Profile

- Once daily oral small molecule
- To be used in combo with checkpoint inhibitors
- Collaboration with Cancer Research UK

- Once daily oral small molecule
- 24hr target engagement

Oral GI restricted

Good potency and selectivity

Minimal GI systemic exposure

Clinical start

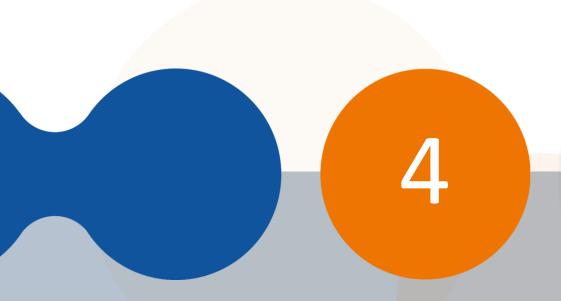
Ph1 initiated: Aug 2023 CANCER CHESEARCH

Ph1 initiated: Jul 2023

Target: H1 2024



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Our Drug discovery platform (StaR®/SBDD)

Stabilized Receptor (StaR®) Platform

We are driving a new era of GPCR Structure-Based Drug Design



DRUG TARGET PROFILE

ITERATIVE MUTAGENESIS

THERMOSTABILITY

PHARMACOLOGY

CHARACTERIZATION



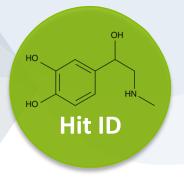
SCREENING

BIOPHYSICS

STRUCTURE

INTERPRETATION

LIGAND OPTIMIZATION



- GPCR drug discovery remains challenging
 - Low expression levels often with complicated expression and secretion pathways
 - Difficult purification lose structural integrity outside the membrane
 - Heterogeneity inherently flexible; changing conformation depending on the bound ligand

- We introduce point mutations into a GPCR which leads to increased thermostability
- The receptor is trapped in a relevant conformation to match the drug product profile
- The Stabilized Receptor (StaR®) can be extracted from the membrane and purified with function retained

70+ Stabilized
Receptors
generated in agonist
and/or antagonist
conformations



Structure-Based Drug Design (SBDD) Platform

StaR® technology plus SBDD is a powerful tool for GPCR drug discovery



DRUG TARGET PROFILE

HOMOLOGY MODEL

STRUCTURE

BIOPHYSICS

HIT SELECTION



PHARMACOLOGY

CADD

STRUCTURE

BIOPHYSICS

OPTIMIZATION



GPCR focused SBDD

- Hit Identification Virtual Screening,
 Biochemical and Biophysical assays
- Structure Determination characterize binding modes
- Pharmacology understanding mode of action and signalling

- Medicinal Chemistry working closely with Computer Aided Drug Design (CADD)
- Establish detailed Screening Cascade and progression criteria
- Typically 2 year process from starting the target screening to entering Candidate Selection phase

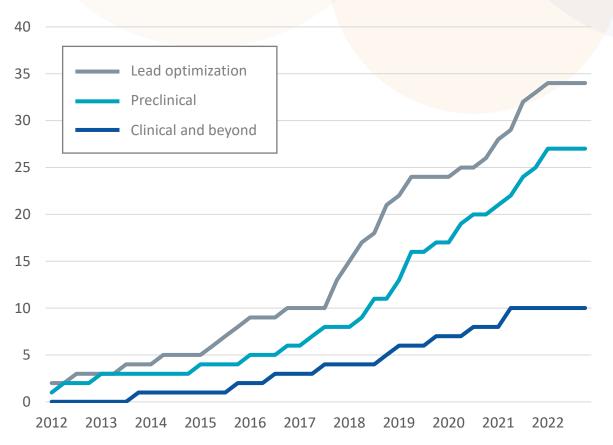
27+ Preclinical
Candidates
identified for
in-house and
collaboration
pipeline



Our strong track record of drug discovery

StaR®/SBDD-based drug discovery platform is more productive than conventional approaches

Trends in the number of programs per stage (cumulative)*



Number of programs* 2021 vs 2022

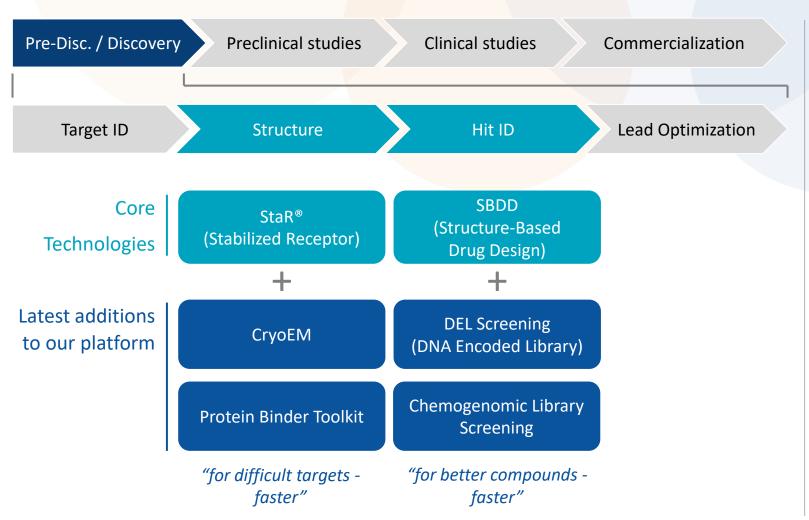
	2021	2022
Drug discovery	10+	20+
Lead optimization	7	7
Preclinical	15	17
Clinical - Phase 1	9	7
Clinical – Phase 2	1	3
Clinical – Phase 3	0	0
Approval application	0	0
Approved	0	0

^{*} The number of programs here represents the number of all drug candidates generated to date from our drug discovery platform (StaR®/SBDD) by stage, and includes programs that are not currently being actively developed by us or our partners due to lower priority.



Platform evolution and new targeted collaborations

World-leaders choose our platform to prosecute complex GPCRs



Multi-target Discovery Collaborations						
	Total Potential Milestones ¹					
Pfizer	\$1.8bn					
Genentech A Member of the Roche Group	\$1.0bn					
Takeda	\$1.2bn					
abbvie	\$1.6bn					
Lilly	\$730m					

¹Potential option fees, development, regulatory and commercial milestone payments at time of signing. Sosei Heptares is also eligible to receive tiered royalties ranging from high single digit to mid-teen percentage on future net sales of any products developed under the partnerships



Technology collaborations to identify new opportunities

Selecting the right target and the right molecule is crucial to success

Key opportunity/Target of Technology collaboration



Choosing the right target

- Will modulating the target affect disease?
- Can a good modulator of the target be found?



Discovering a therapeutic agent

- Identifying a modulator with the appropriate profile
- Differentiating from competitors (if any)



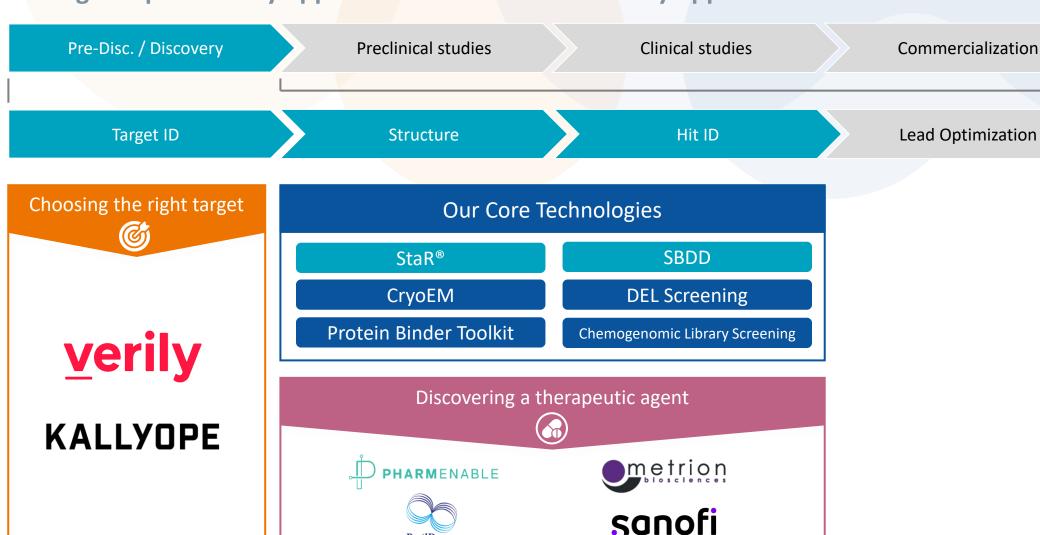
Conducting the right patient studies

- Demonstrating the value of the agent in treating disease
- Utilizing biomarkers to support patient stratification



Technology collaboration landscape

Adding complementary approaches to increase discovery opportunities





Technology collaboration partners

Choosing the right target

Discovering a therapeutic agent

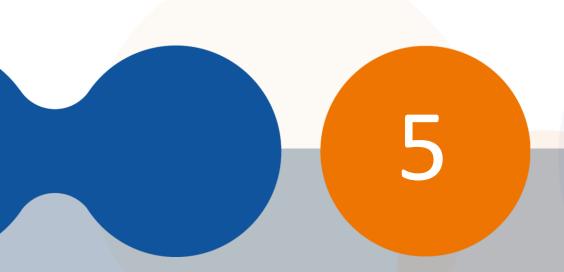


^{2022~} verily	^{2022~} KALLYOPE	2016~ kymab 1	2017~ Pepti Dream	2021~ pharmenable
AI drug discovery (Target)	Gut-brain axis platform (Target)	Antibody	Peptide	Al drug discovery (Compound)
Research collaboration combining Verily's immune profiling capabilities and SH's GPCR SBDD to discover potential drug targets in immune- mediated diseases	Research collaboration leveraging SH's capabilities with Kallyope's gut-brain axis platform	Discovery collaboration for novel antibody therapeutics targeting a number of GPCRs with an initial focus on immuno- oncology - KY1051 is under development	Discovery collaboration for novel therapeutics targeting an undisclosed GPCR with an important role in inflammatory diseases - PAR2 peptide is under preparation for pre- clinical	Technology collaboration to drive novel drug discovery against a challenging peptidergic GPCR target associated with neurological diseases





1. Business 2. C Summary	Consolidated Results	3. Pipeline	4. Platform	5. Products/ Development	6. FY2023 Goal	7. Appendix
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Products / Late-stage Development

Strong And Attractive Fundamentals

Robust product portfolio with innovative clinical development and commercial capabilities

Robust Product/ Pipeline

Top-Tier Portfolio of Medicines and Programs with Excellent Potential





Cenerimod Lucerastat

Summary

+ 5 ROFR/ROFN programs

Strong Organization

Highly Skilled Team with a Proven Track Record of Excellence

- Experienced team created innovative local Phase 3 trials in Japan for PIVLAZ® to address clear unmet need and opportunity
- Leverage in-depth knowledge and expertise across the newly combined Sosei Heptares pipeline, supplemented by business development and in-licensing opportunities

Platform Synergy

Synergy with In-House Programs, plus a Lean Sales Model for Japan and APAC Expansion

- Creates in-house program synergies across the combined Sosei Heptares pipeline
- Enhances operational agility by bringing a lean sales model that can leverage scalable commercial infrastructure
- Established platform to expand into Asia-Pacific region (ex-China), as well as take on new in-licensing opportunities to be developed for the region



¹Including rights to receive future milestones from Mochida

Summary

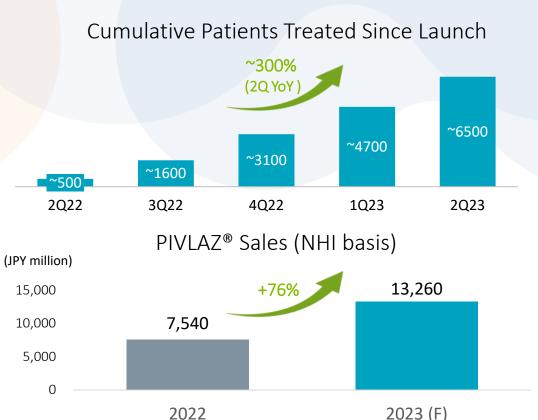
PIVLAZ® – Commercially Available (Launched Japan in 2022)

Strong uptake since launch and growing number of patients treated



PIVLAZ® (clazosentan) is a fast-acting, selective endothelin A (ETA) receptor antagonist for the prevention of cerebral vasospasm (CV) after aneurysmal subarachnoid hemorrhage (aSAH)

- aSAH is a condition involving sudden life-threatening bleeding in the brain, and requires rapid medical treatment
- Japan and South Korea have two of the highest incidence rates of aSAH in the world, at least twice as high as in many countries in the world
- Market exclusivity until 2030 (Japan) and 2029 (South Korea)



Inclusion of PIVLAZ® in Japanese treatment guidelines was confirmed in Q3 2023. Further increases in uptake are expected to strengthen the already successful launch.





PIVLAZ® – Japan Specific Registration Program

Positive top-line results



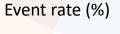
RESULTS OF TWO PIVOTAL PHASE 3 STUDIES IN JAPAN¹

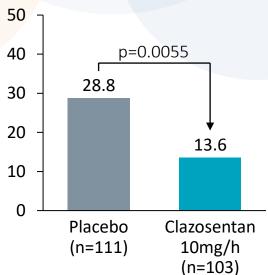
- PIVLAZ® (clazosentan) demonstrated significant reduction of vasospasm-related morbidity and all-cause mortality in patients following aSAH (primary endpoint)
- Clazosentan showed a numerical reduction of all-cause morbidity and mortality in both studies. The effect of clazosentan on this endpoint was significant (p<0.05) in a preplanned pooled analysis
- Encouraging positive trends were observed on long-term measures of clinical outcome (GOSE and mRS) at week 12
- There were no unexpected safety findings
- Results published in the Journal of Neurosurgery: Endo H, et al. April 01, 2022; DOI: 10.3171/2022.2.JNS212914

COILING STUDY

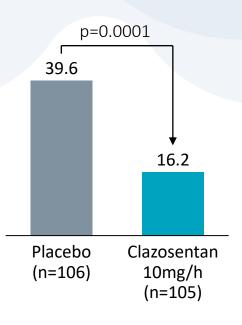
1. Business

Summary





CLIPPING STUDY



PIVLAZ® significantly reduced vasospasm-related morbidity and all-cause morbidity and mortality in domestic Phase 3 trials. It is a highly impactful medicine used to prevent death and disability after aSAH.

Note: ¹Two prospective, multicenter, double-blind, randomized, placebo-controlled, pivotal Phase 3 studies assessing the efficacy and safety of clazosentan in reducing vasospasm-related morbidity and all-cause mortality events in adult Japanese patients post-aSAH, were conducted in parallel in 57 neuro surgical centers in Japan. Patients were randomized 1:1 to receive continuous infusion of either 10 mg/hr of clazosentan or placebo within 48 hours of the onset of aSAH for up to a cumulative maximum of 15 days after aSAH. Protocols were identical, each study enrolling 221 patients, except for the securing intervention, which was either endovascular coiling (JapicCTI-163369; the "coiling study") or surgical clipping (JapicCTI-163368; the "clipping study")



1. Business

Summary

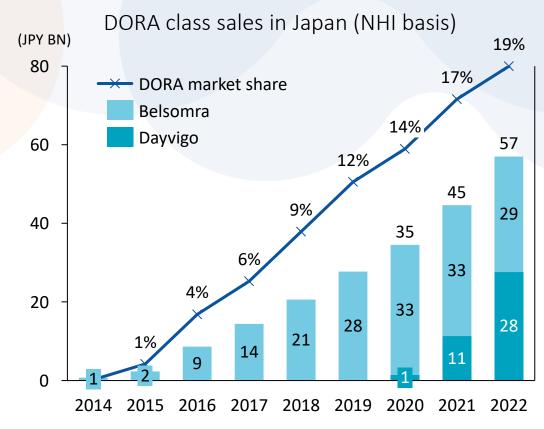
Daridorexant – Best-In-Class Drug With 2H 2023 J-NDA Filing

Expected to launch 2H 2024



Daridorexant is a dual orexin receptor antagonist (DORA) that selectively blocks the binding of the wake-promoting neuropeptides for the treatment of chronic insomnia

- Approved in the US, Europe, Canada (2022) marketed as QUVIVIQ®; Positive results in Japan Phase 3 trial reported in Oct 2022, and NDA filing expected 2H 2023
- Insomnia is highly prevalent in Japan and South Korea and most diagnosed patients are receiving pharmacological treatment
- DORA class is growing rapidly as safer alternatives to benzodiazepines and the "Z-drugs" (e.g., zolpidem) are highly sought
- Market exclusivity until 2038 (Japan and South Korea)
- Co-Promotion with Mochida; all milestones after transaction from Mochida are payable to Sosei Heptares



Daridorexant is a best-in-class medicine for insomnia, and well positioned to meet the unmet needs of patients with sleep disorders in Japan and APAC (ex-China).

Source: Encise, IQVIA



QUVIVIQ® – Global And Japan-Specific Program

Positive Japanese Phase 3 study; in-line with US study as published in The Lancet¹

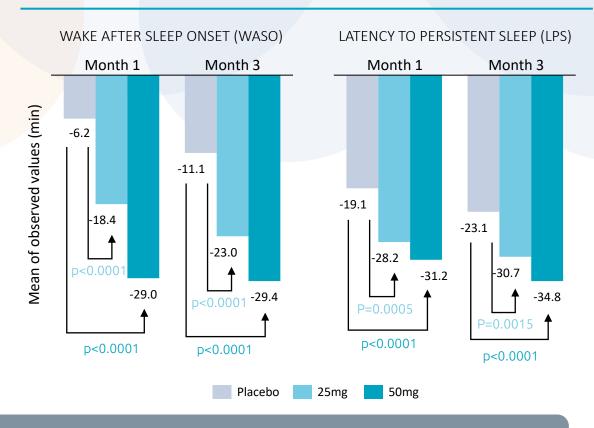


RESULTS OF GLOBAL AND JAPANESE PIVOTAL TRIALS¹

- A Japanese Phase 3 trial¹ in 490 adult and elderly patients met both primary and secondary efficacy endpoints, with similar results to the global study published in Lancet Neurology
- Daridorexant significantly improved total sleep time (sTST, p<0.001 for 50 mg dose) and significantly improved latency to sleep onset (sLSO, p<0.001 for 50 mg) v placebo at 28 days
- The rate of adverse events was comparable between placebo and daridorexant
- In the global trial, daridorexant also demonstrated significant improvement in daytime sleepiness, which means patients reported feeling less mentally and physically tired, less sleepy and more energetic during the day
- Submission to the PMDA based on the global and Japanese data is planned for 2H 2023

TWO PRIMARY ENDPOINTS FULLY MET IN GLOBAL PHASE 3 TRIAL

3. Pipeline



Daridorexant significantly improves wake after sleep onset, latency to persistent sleep, subjective total sleep time, and next-day sleepiness/daytime functioning (as measured by IDSIQ sleepiness domain) compared to placebo

Note: 1 The global study published in the Lancet Neurology is Mignot E, et al. Lancet Neurol 2022; 21: 125–39. The Japanese study (JRCT2031200452) was a randomized, double-blind, placebo-controlled, Phase 3 study to investigate the efficacy and safety of daridorexant. 490 randomized adult and elderly patients (30.1% \geq 65 years) with insomnia disorder received receive 50 or 25 mg doses of daridorexant or placebo once daily for 28 days.



Cenerimod and Lucerastat

Exclusive opt-in rights for two potentially exciting product opportunities

	Cenerimod					
Indication MoA Stage	Systemic Lupus Erythematosus (SLE) Selective S1P ₁ receptor modulator Global Ph3 studies ongoing					
Number of Patients	~120,000 in Japan					
Major therapies* (Japan)	 Total Market Size: c.300 Oku JPY Benlysta (GSK, 50~100 Oku JPY est. peak sales) Saphnelo (AZ, 50~100 Oku JPY est. peak sales) Plaquenil (Sanofi, ~50 Oku JPY) 					
Value proposition	 Potential to be the first oral, disease-modifying SLE therapy that acts by reducing circulating T and B cells early in the immune cascade S1P₁ modulation is a well-established mechanism in other diseases, such as MS (Gilenya, Zeposia) Broadly-applicable mechanism means potential to expand to other autoimmune diseases 					

	Lucerastat							
Indication	Fabry Disease							
MoA	Glucosylceramide synthase inhibitor							
Stage	 Phase 3 (MODIFY) study primary endpoint (neuropathic pain) not met, however, renal function and echocardiography secondary endpoints were positive 							
	 Open Label Extension (OLE) study ongoing 							
Number of Patients	~1,000 in Japan							
Major therapies [*] (Japan)	Total Market Size: c.300 Oku JPY Replagal (ERT, Takeda, ~140 Oku JPY) Fabrazyme (ERT, Sanofi, ~100 Oku JPY) Galafold (PCT, Amicus, ~46 Oku JPY)							
Value proposition	 Potential to provide a broadly-applicable oral monotherapy option as an alternative to IV enzyme replacement therapy (Galafold is currently the only available oral therapy, and applicable to patients with certain rare mutations) 							

Small opt-in fee to license each program, with Sosei responsible for all development plans and future costs in the territory.

If successfully commercialized, Sosei is obligated to pay tiered single digit royalties to Idorsia for each product.

Source: *Estimate from Evaluate Pharma; JMDC; Datamonitor ERT: Enzyme replacement therapy; PCT: Pharmacological chaperone therapy



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Objectives for FY2023

Priority objectives for FY2023

Continue to promote future growth by focusing on four strategic pillars

FY2023 OBJECTIVES

1. Business

Summary

Consolidated

Results

3. Pipeline

ACHIEVEMENT

- **WORLD-LEADING DRUG DISCOVERY**
- **Invest to enhance GPCR SBDD platform** capability



- **MAJOR CASH** FLOW GENERATING **PARTNERSHIPS**
- Execute at least one new high value collaboration, and progress existing partnerships



- **EVOLVE IN-HOUSE R&D**
- Advance at least two new in-house programs into first-in-human clinical trials
- **GPR52 Ph1 start** EP4 Ant Ph1/2a start

- **JAPAN COMMERCIAL** PHARMA UNIT
- Take <u>clear steps to build</u> a Japan **Commercial Pharma Unit**



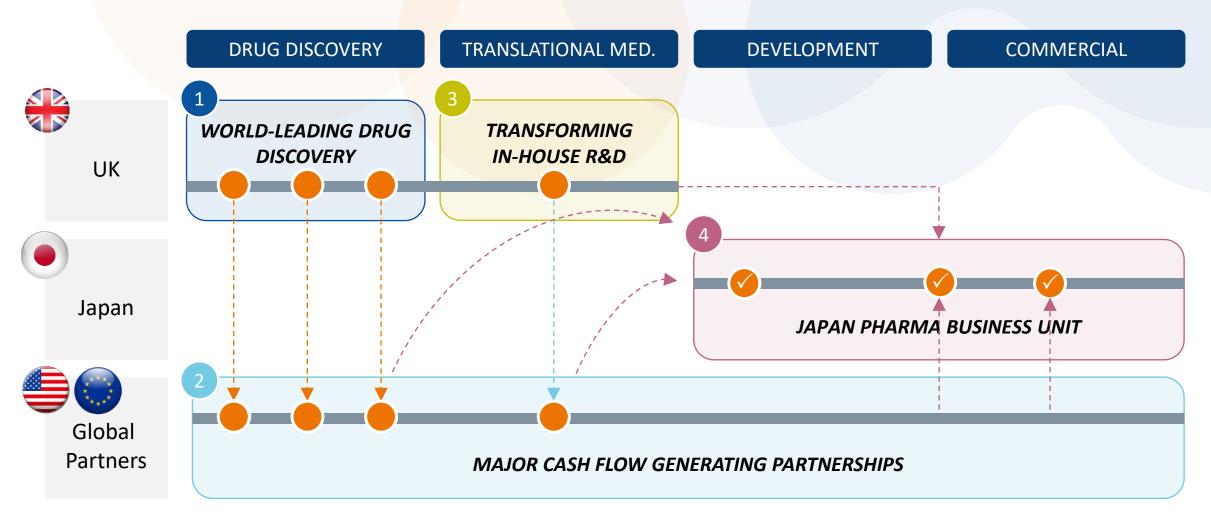


1. Business

Summary

Clear strategy to drive the business forward

Four pillars of strategic focus





Four strategic pillars to increase corporate value



1. Business

Summary

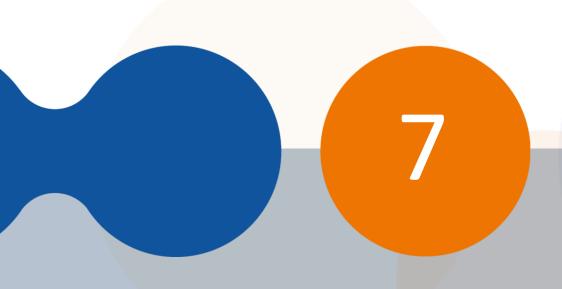
2. Consolidated

Results

3. Pipeline



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Appendix

1. Business

Summary

Potential revenues from existing partnerships

Securing stable revenues in the short to medium term from existing partnerships

Potential milestones from existing partners Potential royalties from existing partners ~\$299bn/year Total market size of (Total drug market for target indication) our target diseases (maximum) In addition to \$5.0bn+ below ~\$56bn/year \$5.0bn +1 (Sum up for peak sales of product) (potentially receive after commercialized) **Product Market potential** (maximum) **Commercial milestones Product Market potential (maximum)** (from existing partners) \$5.0bn+1 ×~mid-teen percentage¹ (potentially receive after commercialized) (potentially receive in next c.10 years) **Development Potential royalty** milestones (from existing (maximum) partners) Short to medium term revenue Mid to long term revenue potentially Expand by executing potentially received in next 10 years received after commercialization new collaborations

¹ All of these are the maximum values if all existing programs are successful. Note that the probability of success in drug discovery is not relatively high, and realistically not all programs will be successful. Source: Total market size of our target diseases and Product Market potential is stated in the previous page



Estimation of potential market size

Multi-billion USD annual peak sales potential for our post-pre-clinical pipeline

Catagoni	In disation?	Number of	Peak Sale	es(USD million)	Our Condidates
Category	Indication ²	Patients	Market Size	Individual Products	Our Candidates
	Dementia	~55 million	\$7.3 billion (2010)	\$3.9 billion (2009/Aricept)	M1 agonist, M1/M4 agonist
	Schizophrenia	~20 million	\$20.7 billion (2011)	\$5.7 billion (2013/Abilify)	M4 agonist, M1/M4 agonist
Neurological disorders	Substance use disorders	~10.4 million ¹			mGlu5 NAM
	Narcolepsy	~3 million	\$2.3 billion (2022)	\$1.7 billion (2020/Xyrem)	OX2 agonist
	Other	-			CGRP antagonist, GPR52 agonist
	Cancer	~42 million	\$178.9 billion (2022)	\$21.0 billion (2022/Keytruda)	A2a antagonist, EP4 antagonist, CXCR4 mAb
Immunological disorders	IBD	~10 million	\$23.5 billion (2022)	\$7.5 billion (2022/Humira)	CCR6 antagonist, GPR35 agonist, EP4 agonist
	Atopic Dermatitis	~13.3 million	\$8.1 billion ³ (2022)	\$7.0 billion (2022/Dupixent)	H4 antagonist, PAR2 mAb
Othor	T2DM/Obesity	~420 million	\$58.3 billion (2022)	\$8.8 billion (2022/Ozempic)	GLP1 agonist
Other	Anorexia	~10 million			MC4 antagonist
	Total		~\$299 billion/year	~\$56 billion/year	

Source (Number of patients): World Health Organization, Evaluate Pharma, The European Federation of Crohn's & Ulcerative Colitis Associations (EFCCA), Narcolepsy Network, Inc., GBD 2015 Disease and Injury Incidence and Prevalence Collaborators (October 2016). "Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015". Lancet. 388 (10053): 1545–1602 ¹ The number of patients with drug addiction

Source (Peak Sales):Sales of each indications are extracted form Evaluate Pharma's data of sales by disease and sales by individual products (as of 30 June. 2022). ² Sosei Heptares may target one segment in

the market for specific diseases. ³ Since there is no applicable indication category, the market size of "Eczema" is stated. Current market size for Atopic Dermatitis may be larger than stated above.



GPCR targeting startups

	Year			1			Tech	nology	.	N	Nost Advanced	Program		w	
Company	Founded	Country	Employee	Listed/Private ¹	SBDD	X-ray	Cryo-EM	Others	Modality	Stage	Program(s)	MoA	Major Partners		
Sosei Heptares	2007 (Heptares)	UK	202	Listed (\$1.5bn)	✓	✓	✓	StaR® Platform (Stabilized GPCR by point mutations)	SME mAb	Phase2	PF-07081532 NBI-1117568	_	10+	Pfizer, Genentech, Takeda, AZ, AbbVie, Neurocrine, Eli Lilly, GSK, Sanofietc	
Structure Therapeutics	2017	US	68	Listed (\$0.9bn)	√		√	DEL/ASMS hit finding. Virtual screening structures	SME	Phase1	GSBR-120 ANPA-0073	APJ Ag GLP-1 Ag	-	-	
Septerna	2022	US	13	Private (2022/\$100m)	V		√	Native Complex [™] (GPCR-G protein complexes for screening)	SME	PCC	-	PTH1 Ag TSHR NAM	-	-	
Confo Therapeutics	2015	Belgium	59	Private			✓	ConfoBodies® to stabilize GPCRs for fragment screen	SME	PCC	CFTX-1554	AT2 Ant	4	Eli Lilly, Lundbeck, Roche, DaiichiSankyo	
Escient Pharmaceuticals	2017	US	14	Private (2022/\$120m)				Drug discovery targeting MRGPR	SME	Phase2	EP547	MRGPRX4 Ant	-	-	
Teon Therapeutics	2017	US	9	Private				Targeting metabolic pathways for IO approach	SME	Phase1	TT-816 TT-702	CB2 Ant A2B Ant	1	Merck, CRUK	
Domain Therapeutics	2008	France	105	Private				Target ID. bioSens-Al ^{I®} BRET signalling	SME	Phase1	M1069 DT-9081	A2a/A2b Ant EP4 Ant	4	Merck, Pfizer, Ono, BI,	
Tectonic Therapeutic	2019	US	32	Private (2021/\$80m)				GEODe™Platform (GPCR Engineering and Optimization Domain)	mAb	Disc	-	-	-	-	
Maxion Therapeutics	2020	UK	11	Private (2023/\$416m)				KnotBody® (Fuse knottins into the CDRs of antibodies)	mAb	Disc	-	-	-	-	
Receptos ² (Now Celgene)	2009	US	68 (Dec '14)	Acquired (2015/\$7.2bn)	√	√		Crystal structures know how from TSRI	SME	Phase3	Ozanimod	S1P modulator	-	-	
Arena ² (Now Pfizer)	1997	US	448 (Dec '21)	Acquired (2022/\$6.7bn)				Constitutively Activated Receptor Technology(CART)	SME	Phase3	Etrasimod	S1P modulator	3	Eli Lilly, Fujisawa, Taisho	

Business

Summary

¹ Market caps for the listed companies are as of the end of April 2023. For private companies, the most recently raised funds are shown; for acquired companies, the acquired value is shown.² Information on acquired companies is at the time of being acquired.

Source: Factset, Pitch Book, Company's Web



Summary

Exclusive Opt-in Rights And ROFN/ROFR¹

Option to develop up to seven clinical programs for Japan and APAC (ex-China) from Idorsia

	Program	Mechanism of Action	Indication	Stage	Region
Exclusive	Cenerimod	S1P ₁ receptor modulator	Systemic lupus erythematosus	Phase 3	
Opt-in Right	Lucerastat	Glucosylceramide synthase inhibitor	Fabry disease	Phase 3	
	Selatogrel	P2Y ₁₂ antagonist	Suspected acute myocardial infarction	Phase 3*	
	ACT-1004-1239	ACKR3 / CXCR7 antagonist	Multiple sclerosis and other demyelinating diseases	Phase 2*	APAC (ex-China) ²
ROFR /ROFN ¹	ACT-1014-6470	C5aR1 antagonist	Immune-mediated disorders	Phase 1*	
	IDOR-1117-2520	Undisclosed	Immune-mediated disorders	Phase 1*	
	ACT-777991	CXCR3 antagonist	Recent-onset Type 1 diabetes	Phase 1*	



¹ ROFN/ROFR - Right of first negotiation / Right of first refusal

² Territories include Japan, South Korea, Australia, Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, New Zealand, Philippines, Singapore, Taiwan, Thailand and Vietnam

^{*} Global Phase

Financial Impact of IPJ/IPK transaction

JPY 10 Bn+

Transaction expected to be cash flow positive in the first full calendar year

From existing Long-term corporate loan: **Transaction** cash: **Purchase Price** ~JPY65 Bn1 (CHF400 Mn) JPY40 Bn **Funding** JPY25 Bn 7 year, low-rate loan from Mizuho Bank Impact on **Closing Date Purchase Price Payment Date** Post-closing, financial results of the acquired entities will **Key Dates** within a week post-closing 20 July 2023 (JST) be reflected in the Group's consolidated financial results **FY23 Financials** • The amounts of intangible assets and goodwill arising in the consolidated balance sheet are currently under review by Management / Auditors. Impact on • Goodwill will not be amortized in accordance with IFRS standards, whilst intangible assets will be amortized over the expected sales period. Consolidated • SGC's carried forward tax losses will be utilized against future taxable profits. **Financial Results** Post-closing, the Group will have approximately JPY42 billion cash on balance sheet. • Peak forecasts based on PIVLAZ® and Daridorexant performance in Japan, Korea and Taiwan only Peak Sales (E) • Potential upsides to forecasts include: Mid- to JPY 35 Bn+ ✓ Launch of PIVLAZ® and Daridorexant in additional APAC (ex-China) regions Long-Term ✓ Exercise of opt-in right and launch of Cenerimod and Lucerastat Impact ✓ Exercise of ROFR/ROFN rights and launch of up to additional five products Peak EBITDA (E) (Guidance) ✓ Launch of existing in-house programs, incl. GPR52 agonist and M1 agonist

1. Business

Summary

✓ Launch of potential other in-licensed products in the future



¹ Based on FX rate 1 CHF = 163 JPY as at 19 July 2023

Key financial figures of Q3 FY2023 result

Because of M&A, Non-cash/Non-recurring cost impacted 3rd quarter results

(JPY million)	Sosei Heptares*	IPJ/IPK* (7/20-9/30 : c.2.4month)	Consolidated P/L (Core)	Non-cash cost Non-cash cost Costs	Consolidated P/L (IFRS)					
Revenue	3,130	2,344	5,474		5,474					
CoS + SG&A	(2,501)	(1,379)	(3,880)	B (226) Amortization of products (684) Current PIVLAZ® stock (1,272) M&A-related fee (1,302) Others	(7,364)					
R&D	(6,112)	(313)	(6,425)	(588)	(7,013)					
Other income	906	6	912		912					
OP/Core OP	OP/Core OP (4,577) 658 Core OP (3,920) OP (7,992)									
M&A related Adjustments (total. JPY 2,182 mil.) A Additional CoS charge only for current PIVLAZ® stock. This impact will continue until around Apr 2024. B Amortization of intangible assets (relating to PIVLAZ® and Daridorexant). Plan to be c. JPY 1,800 million / year from 2025. C One time M&A related fee covering the IPJ/IPK transaction and evaluation of other potential opportunities was basically fully charged in Q3 2023.										
Others	Amortization of other			atory equipment) and share-based payment	22 50501					

1. Business

Summary



^{*} Sosei Group, Sosei Co. Ltd. and Heptares Therapeutics Ltd., IPJ: Idorsia Pharmaceuticals Japan, IPK: Idorsia Pharmaceuticals Korea

1. Business

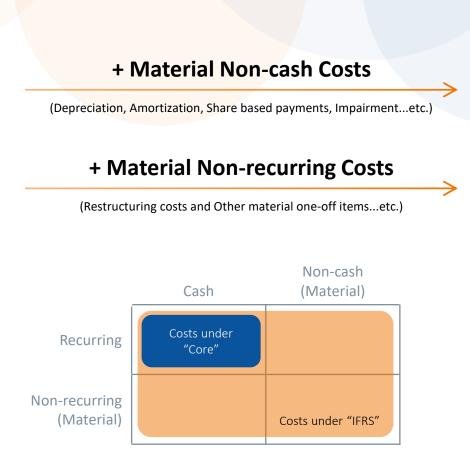
Summary

Introduction of 'Core Operating Profit'

Core Operating Profit – the financial indicator closer to the reality of our business

"Core"

- Core Operating Profit is a new key financial indicator that highlights the underlying recurring cash generating capability of the business.
- Core Operating Profit is defined as IFRS
 Operating Profit + material Non-cash costs
 + material non-recurring costs
- Material Non-cash Costs include depreciation, amortization, share based payments and impairment.
- Material Non-recurring Costs include restructuring costs and other material one-off items.
- Core Operating Profit = Cash Earnings + material Non-recurring Costs



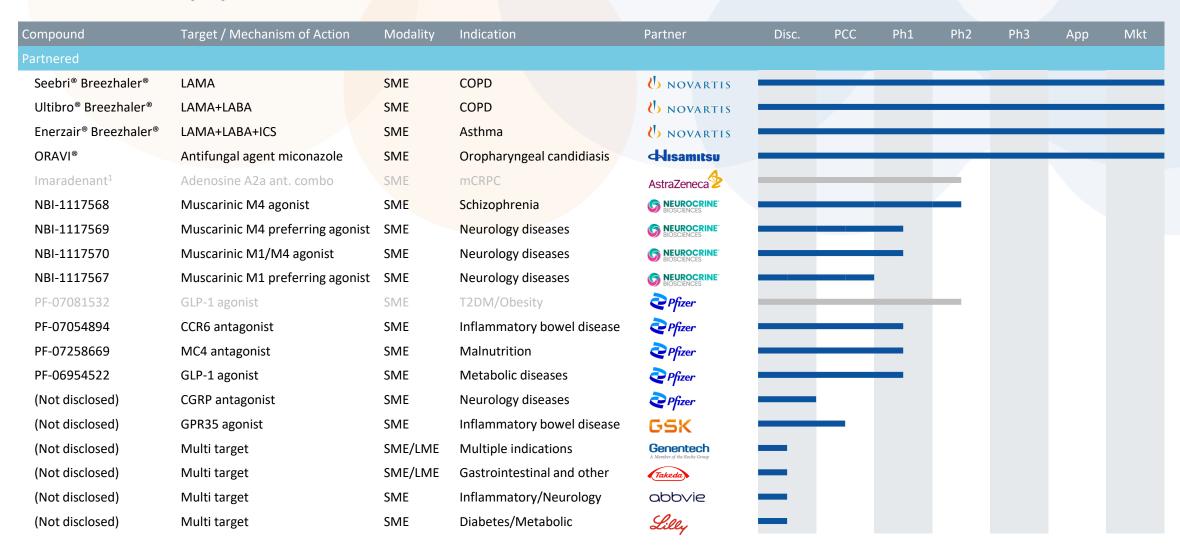
Operating Profit "IFRS"

7. Appendix

 Financial results recorded and prepared in accordance with International Financial Reporting Standards (IFRS)



Partnered pipeline



Summary



Partnered pipeline (cont'd)

Compound	Target / Mechanism of Action	Modality	Indication	Partner	Disc.	PCC	Ph1	Ph2	Ph3	Арр	Mkt
Co-development											
KY1051	CXCR4 mAb	mAb	Immuno-oncology	sanofi							
(Not disclosed)	PAR-2	Peptide	Inflammatory diseases	PeptiDream							
(Not disclosed)	Al-Augmented Drug Discovery	SME	Neurology diseases	PHARMENABLE	_						
(Not disclosed)	Multi target Al-powered	SME/LME	Immune diseases	<u>v</u> erily							
(Not disclosed)	Gut-brain axis drug discovery	SME	Gastrointestinal disorders	KALLYOPE	_						
Co-owned compani	es										
TMP301	mGlu5 NAM	SME	Substance use disorders	S TEMPERO BIO™							
ORX750	OX2 agonist (Oral)	SME	Narcolepsy	CENTESSA Therapeutics							



7. Appendix

In-house pipeline

Compound	Target / Mechanism	Modality	Indication	Originator	Disc.	PCC	Ph1	Ph2	Ph3	Арр	Mkt
In-house Programs											
PIVLAZ®	ETA antagonist	SME	Cerebral vasospasm	SOSEI HEPTARES							
Daridorexant	Dual Orexin antagonist	SME	Insomnia	SOSEI HEPTARES							
HTL'149	GPR52 agonist	SME	Neurology diseases	SOSEI HEPTARES							
HTL'732	EP4 antagonist	SME	Immuno-oncology	SOSEI HEPTARES							
(Not disclosed)	EP4 agonist	SME	Inflammatory bowel disease	SOSEI HEPTARES							
(Not disclosed)	Muscarinic M1 agonist (JP)	SME	Neurology diseases	SOSEI HEPTARES							
(Not disclosed) ¹	H4 antagonist	SME	Atopic Dermatitis	SOSEI HEPTARES							
(Not disclosed)	SARS CoV-2 Mpro	SME	Coronaviruses	SOSEI HEPTARES	_						
Multiple programs	Not disclosed	SME/LME	Neurology diseases	SOSEI HEPTARES	_						
Multiple programs	Not disclosed	SME/LME	GI and Inflammatory diseases	SOSEI HEPTARES	_						
Multiple programs	Not disclosed	SME/LME	Immunology diseases	SOSEI HEPTARES	_						
In-house Programs (No	longer internally funded. Targ	eting academic / in	dustrial partnership)								
HTL'310	SSTR5 agonist	Peptide	Hypoglycaemic disorders	SOSEI HEPTARES							
HTL'097	GLP-1 antagonist	Peptide	Hypoglycaemic disorders	SOSEI HEPTARES							
HTL'023	Dual GLP-2/GLP-1 agonist	Peptide	Intestinal failure/NASH	SOSEI HEPTARES							
(Not disclosed)	Apelin agonist	Peptide	Pulmonary Arterial Hypertension	SOSEI HEPTARES							
HTL'641	Dual orexin antagonist	SME	Insomnia and sleep disorders	SOSEI HEPTARES							
(Not disclosed)	PAR-2 mAb	mAb	Atopic Dermatitis/Pain	SOSEI HEPTARES							



7. Appendix

		Basic Terminology/Technology
GPCR	G Protein-Coupled Receptor	There are about 800 types of GPCRs in the human body. While 400 of them are known to be potential drug targets, about 300 of them are not yet drugged
StaR	Stabilized Receptor	Sosei Heptares' proprietary technology to stabilize a GPCR by engineering a small number of single point mutations outside of the ligand-binding site. It enables to identify the structure of GPCRs to be used for SBDD drug discovery as well as antibody drug discovery as antigens
SBDD	Structure-Based Drug Design	A method to design drugs on a computer base based on the analysis of the three-dimensional structure of the drug target (e.g., protein receptor)
TPD	Targeted Protein Degradation	Drugs that promote the degradation of target proteins (e.g., receptors) in cells and aim for therapeutic effects by reducing disease-causing proteins
PAM	Positive Allosteric Modulator	A regulator that binds to unusual active sites (allosteric sites) on the receptor to increase the affinity and effect of the agonist
NAM	Negative Allosteric Modulator	A regulator that binds to an unusual active site on the receptor (allosteric site) and reduces the affinity and effectiveness of the agonist
Αg	Agonist	A therapeutic drug that binds to a receptor and activates an intracellular signaling system similar to biological substances
Ant	Antagonist	A therapeutic drug that suppresses biological reactions by binding to receptors and preventing them from binding to biological substances
PK	Pharmacokinetics	Research and testing on the relationship between drug dosage and blood concentration. Mainly describes the rate process of ADME
PD	Pharmacodynamics	Research and testing on the relationship between drug concentration and pharmacological effects
ADME	Absorption, Distribution, Metabolism and Excretion	A series of process in the absorption of drugs into the body, distribution within the body, metabolism in the liver and other organs, and excretion in the kidneys and other organs
РОМ	Proof of Mechanism	Proof of mechanism of action, mainly through biomarkers. It can suggest the possibility of efficacy in fewer cases than POC
ос	Proof of Concept	Proof of a therapeutic concept, primarily through clinical efficacy and safety
Ach	Acetylcholine	A neurotransmitter released from the peripheral parasympathetic and motor nerves to transmit nerve stimuli
ND	Investigational New Drug	Information packages for development candidates to be submitted to the U.S. Food and Drug Administration (FDA) at the time of initiation of clinical trials
Ph1	Phase1	A study in humans. The main purpose is to confirm the safety of the drug candidate mainly by healthy volunteers.
h2	Phase2	A study in humans. The main purpose is to confirm the efficacy of the drug candidates on a small scale (however, the number of patients varies greatly depending on the disease)
Ph3	Phase3	A study in humans. The main purpose is to determine the efficacy of the drug candidates on a large scale (however, the number of patients varies greatly depending on the disease)
NDA	New Drug Application	An application to the U.S. Food and Drug Administration (FDA) for approval to market a new drug
		Disease/Drug
_AMA	Long Acting Muscarinic Antagonist	An inhalant that dilates bronchial tubes and improves respiratory function by inhibiting the action of acetylcholine receptors (M3), which increase parasympathetic nerves.
ABA	Long Acting Beta2-Agonist	An inhalant that improves respiratory function by stimulating sympathetic beta2 receptors to dilate the bronchi.
CS	Inhaled Corticosteroid	An inhalant that suppresses airway inflammation to prevent coughing attacks and other symptoms caused by asthma, also promotes the action of beta 2 stimulants and improve airway hyperresponsiveness.
nCRPC	Metastatic Castration–Resistant Prostate Cancer	Cancer that has spread (metastasized) beyond your prostate gland and for which hormone therapy is no longer effective in stopping or slowing the disease.
OPD	Chronic Obstructive Pulmonary Disease	A group of diseases that causes damage to the bronchi and lung due to smoking or inhalation of toxic substances, resulting in breathing problems.
AD.	Alzheimer's Disease	Alzheimer's disease is a progressive neurologic disorder that causes the brain to shrink (atrophy) and brain cells to die, the most common cause of dementia.
DLB	Dementia with Lewy Bodies	Protein deposits, called Lewy bodies, develop in nerve cells in the brain regions involved in thinking, memory and movement (motor control), the second most common type of dement

1. Business

Summary

Results



Locations

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