H1 FY2017 Financial results and corporate update

9 November 2017





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1	Highlights Peter Bains, CEO
2	H1 FY2017 Financial Results Andrew Oakley, CFO
3	Strategic and Operational Update Peter Bains, CEO
4	Q&A



Significant strategic and operational progress across multiple fronts

- Partnered GPCR pipeline developing well, with zero clinical attrition to date further validates our Structure-based Drug Design (SBDD) approach
- Multiple development milestones received (Allergan M₄, Teva CGRP, AstraZeneca A_{2A}) evidence of our partners' progress
- Entered high potential field of RNA Therapeutics with strategic investment in MiNA Boehringer Ingelheim deal supports the promising potential of MiNA's saRNA technology
- Integration of G7 Therapeutics complete, now Heptares Zurich modest investment has significantly increased our annual StaR® GPCR structure output
- Investment in StaR® technology driving Proprietary pipeline progress Up to 3 novel drug candidates to enter Phase 1 every year commencing CY2018
- Heptares Co-founder Dr. Richard Henderson awarded 2017 Nobel Prize for Chemistry

 Cryo-EM knowledge now being applied to our SBDD approach
- Amendment to global agreement with Allergan for commercial rights to M₁ for DLB in Japan – first go-to-market opportunity in area of significant unmet medical need

StaR® and SBDD is consolidating our position as the world leader in GPCR medicine discovery and design – we are building Japan's first global biotech champion

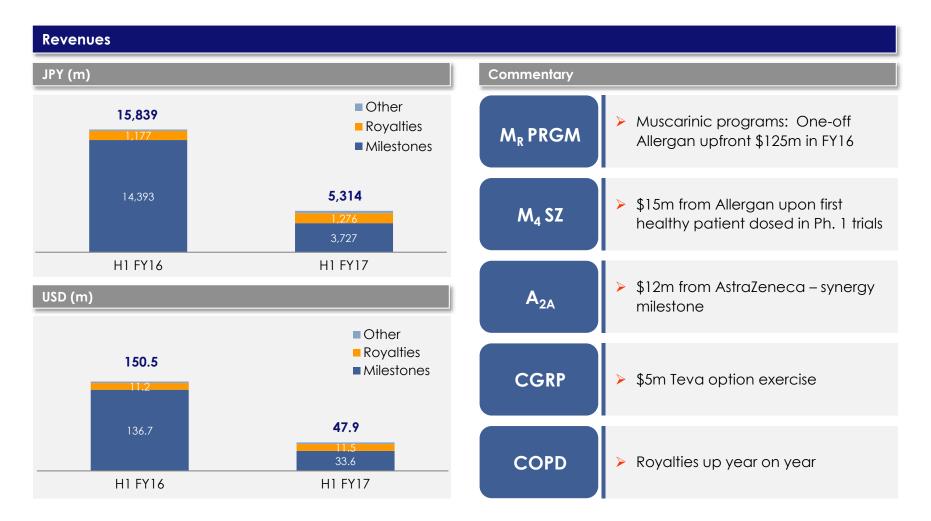


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Allergan upfront milestone in FY16 drives variance



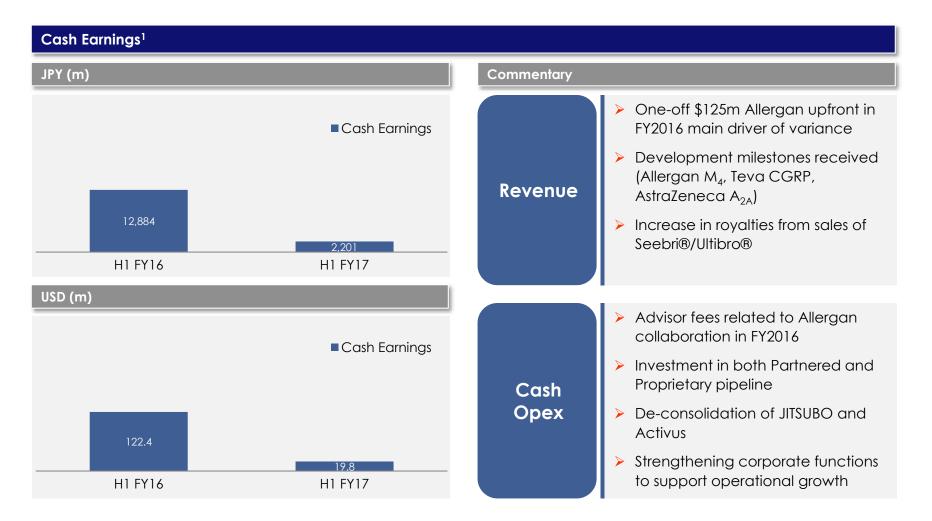


Cash Operating Expenditure linked to investments to advance and support progress across the Proprietary GPCR pipeline





Cash Earnings¹





Allergan upfront milestone in FY2016 drives variance

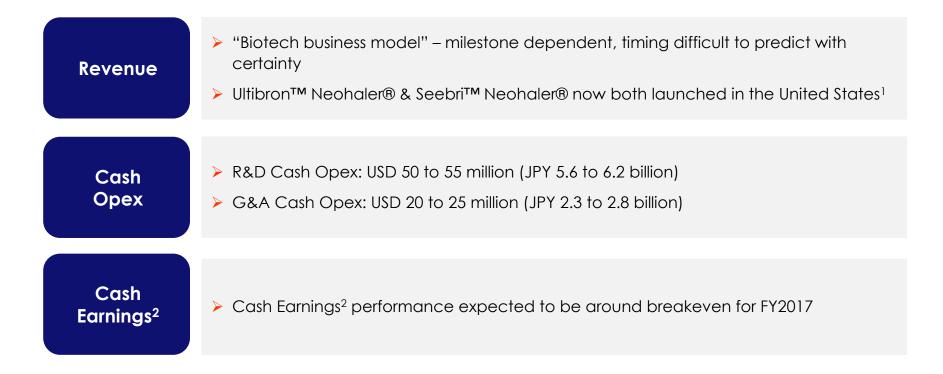
Summary Income Statement

	JP	Y	USD		Commentary
Sep-17 Revenue	H1 FY17 JPY mm 5,314	H1 FY16 JPY mm 15,839	H1 FY17 USD mm 47.9	H1 FY16 USD mm 150.5	Non-cash costs: increase in amortization of intangibles due to acquisition of G7 Therapeutics and stock comp
Other Income	429	13,837	3.9	1.0	FX: Losses in FY2017 vs. Brexit-related gains in
Cash Opex	3,543	3,065	31.9	29.1	FY2016
Cash Earnings ¹	2,201	12,884	19.8	122.4	 Contingent consideration: Represents additional purchase
Non Cash Costs	757	661	6.8	6.3	consideration related to Heptares
Fin, FX & Cont. Consid.	1,743	(1,023)	15.7	(9.7)	 Charge related to \$125m Allergan upfront included in FY2015
Equity Results & MI	235	(124)	2.1	(1.2)	Annual charge is an accounting based
Tax Expense	(37)	2,653	(0.3)	25.2	methodology - not in line with underlying business performance
Net Income	(498)	10,717	(4.5)	101.8	> Tax charge (benefit) driven by UK tax position

We are continuing to invest and scale which is driving significant progress across the pipeline



Guidance for FY2017 (March 2018)



Risk-balanced capital allocation framework will drive long term growth and value creation. Company to change its year end to December effective December 2018



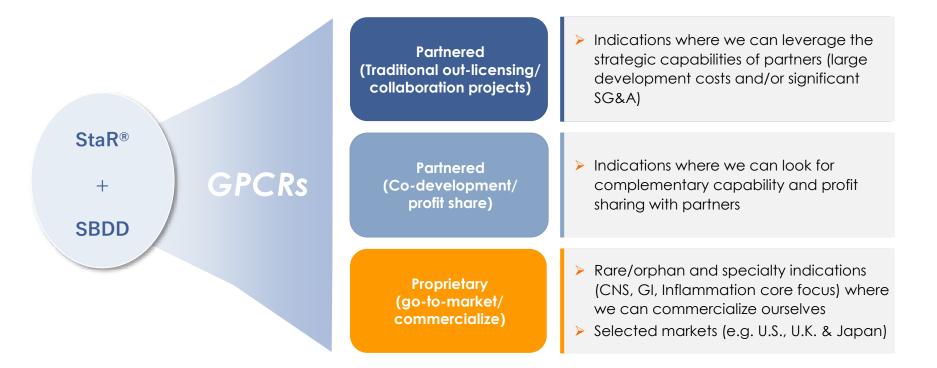
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Risk-balanced capital allocation framework

Optimizes value capture



Reserving the right to choose which strategy is most appropriate for each drug candidate, with a goal to increasingly commercialize ourselves in selected indications and markets





Sosei to advance clinical development in Japan of HTL0018318 in patients with dementia with Lewy Bodies (DLB)

Amendment to our 2016 global R&D and commercialization partnership with Allergan

- Amendment sees Sosei gain a license to develop and commercialize HTL0018318, a novel muscarinic M₁ receptor agonist, in Japan as a potential new treatment for patients with dementia with Lewy bodies (DLB)
- Initially, Sosei will undertake a Phase 2 proof-of-concept monotherapy study, expected to begin in Japan in 2018
 - Intention to advance HTL0018318 through Phase 2b/3, registration and onto the market in Japan
- > Enables HTL0018318 clinical programs to run in parallel in dementia patients in AD and in DLB
- > DLB is the second largest dementia population after AD, and a major healthcare issue globally
- Strong go-to-market opportunity for M₁ program in Japan
 - Leverages our expertise in DLB clinical capabilities, and broader track record of successful product development in Japan
 - Satisfies a key element of growth strategy manageable indication treated in specialist centres, with sizeable market opportunity to build and retain more value for shareholders
- > Allergan has retained the right to development HTL0018318 in DLB globally

Strong go-to-market opportunity for our lead M₁ program in Japan which is consistent with our growth strategy, and demonstrates our commitment to tackling a major Japanese health issue (dementia)





What is dementia with Lewy Bodies (DLB)? Significant unmet need for new therapeutic approach

Overview of DLB		Up to 920,000 in Japan (c.20% ¹ of 4.6
Dementia with Lewy Bodies (DLB) is the second most prevalent cause of dementia in elderly patients, and one of three major types of dementia	Patient population	 million² currently living with dementia) Sizeable DLB population in the US³
Progressive neurodegenerative dementia characterized by significant cognitive fluctuations, distressing neuropsychiatric symptoms (e.g. visual hallucinations), and parkinsonism	Significant unmet need	 Aricept® only conditionally approved in Japan for the treatment of DLB in 2014⁴ No drugs approved in the US or EU
 <u>Recent advances in DLB diagnosis have increased</u> <u>awareness and opportunity to evaluate new</u> <u>treatments</u> – in part due to approval of Aricept® for DLB and activities of Eisai to develop specialist centres Dementia is a <u>social and 'political' priority in Japan</u> 	Cholinergic deficits	 Cholinergic deficits a prominent feature of DLB patients Cholinergic neurotransmission more dysfunctional in DLB than AD

Potential Muscarinic M₁ agonist for DLB

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- Post-synaptic neurons (and muscarinic M₁ receptors) preserved in DLB
- Direct post-synaptic activation via M₁ receptors is independent of acetylcholine levels which decline as disease progresses
- An M₁ agonist that directly stimulates post-synaptic receptors would offer broad therapeutic potential in treatment of neurodegenerative conditions such as DLB

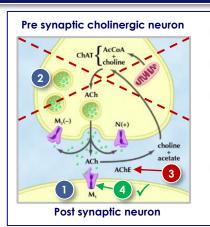


HTL0018318 is a potential first-in-class therapy for DLB

A selective M_1 agonist

Overview of the HTL0018318 muscarinic M₁ receptor agonist approach for DLB

- Cognitive benefits of M₁ agonist supported by clinical studies of xanomeline ¹
- However, xanomeline clinical development stopped due to unacceptable CV and GI side effects linked to stimulation of M₂ & M₃
- StaR® & SBDD to "design out" unwanted selectivity over the M₂ & M₃ receptors
- HTL0018318 is a potent muscarinic M₁ agonist with limited M₂/M₃ agonism



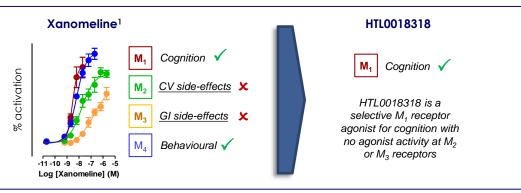
- M₁ receptors in cortex and hippocampus are key in mediating cognitive effects of acetylcholine (ACh)
- The loss of cholinergic neurons in dementia patients leads to decline in cognitive functions

NEW

M₁ DLB

Phase 2a ready

- Acetyl-cholinesterase (AChE) inhibitors (e.g. Aricept®) prevent the breakdown of ACh
 - Effects are limited however, due to dose-limiting sideeffects and the loss of endogenous ACh levels as the disease progresses
- M1 agonist activates receptor independently of ACh levels
- HTL0018318 derived from StaR® and SBDD, potentially driving comparable pre-clinical effects and a potentially differentiated profile to Aricept®



HTL0018318 has a differentiated mechanism of action with the potential to optimise symptomatic benefits in DLB patients

Source: Internal analysis



Significant progress across partnered programs and collaborations

	Program	Partner	ТА	Indication	Progress last 6 months
	Partnered progra	ims and collabor	ations		
NEW	M ₁ AD	🎨 Allergan	CNS	Alzheimer's disease	 Start of new Ph 1b clinical trial with selective M1 agonist HTL0018318 selected based on its superior profile
H1 17	M ₄ SZ	🎨 Allergan	CNS	Neurobehavioral symptoms of Alzheimer's disease	 First healthy subject dosed with the first-in-class, selective M₄ agonist HTL0016878 in a Phase 1 clinical study US\$15m milestone payment triggered
NEW	A _{2A}	AstraZeneca	ONC	Immuno-oncology Mult. tumor types	 <u>AZD4635 Ph 1 trial progressing to signal seeking Ph 1b</u> studies by year end CY2017¹ Currently in a Ph. 1 clinical trial as a single agent and in combination with AstraZeneca's IMFINZI™ (durvalumab)
H1 17	CGRP	72377	CNS	Migraine	Candidate nominated in 2Q17 is in preclinical with the aim of taking it into Ph. 1 clinical studies at the earliest opportunity – emerged from rigorous selection process
NEW	©_©	Pfizer		Mult. Targets (SME/mAb)	<u>11 pre-clinical milestones delivered to Pfizer (including StaR®, X-ray structures, and lead molecules), plus new intellectual property generated</u>
NEW	C C	MiNA Therapeutics Boehringer Ingelheim	LIVER	Mult. Targets (saRNA) Fibrotic Liver Diseases	 <u>MiNA² deal with BI to develop novel treatment</u> <u>approaches for fibrotic liver diseases</u> Upfront, R&D funding, plus milestones up to EUR 307m³

¹ Signal seeking phase 1b expansion cohorts in a number of tumor types with monotherapy and/or in combination with IMFINZI™ are planned to open by end CY2017 **16** ² MiNA is 25.6% owned by Sosei

³ MiNA also entitled to double-digit royalties on sales of selected products resulting from the partnership



<u>Proprietary programs</u> now <u>led by M₁ DLB opportunity in Japan</u>

Focus on selected rare/orphan and specialty indications or markets

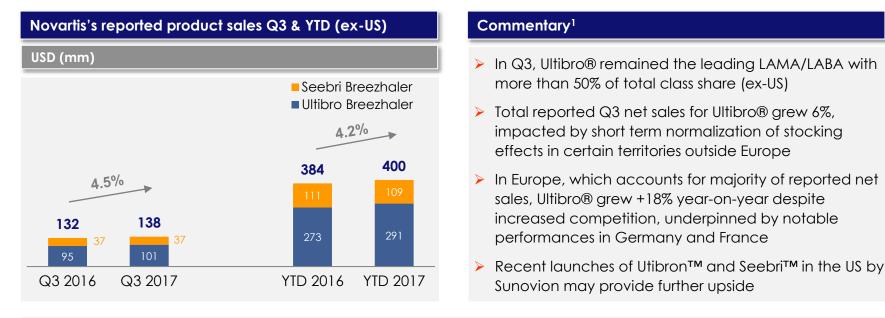
	Program	Partner	TA	Indication	Progress last 6 months			
	Proprietary progr	ams						
NE	M ₁ DLB	● ●● SOS@I	CNS	Dementia with Lewy Bodies (Japan)	 License to develop and commercialize HTL0018318 for DLB in Japan – a novel muscarinic M₁ receptor agonist Ph. 2a POC monotherapy study starting CY2018 Intention to advance HTL0018318 through Ph.2b/3, and registration and onto the market in Japan 			
NEV	mGlu₅	• •• 5050I	CNS	Neurological diseases	 Preclinical work progressing well, potential best-in-class mGlu₅ NAM for CNS diseases 10-fold more potent than the most advanced clinical agent Mechanism validated in multiple CNS areas of high unmet need Ph. 1 clinical studies starting CY2018 			







Strong and growing royalty from respiratory disease products Seebri®/Ultibro®



Product/Program	Indication	Partner	Discovery	Preclinical	Phase 1	Phase 2	Phase 3	Market
Other Medicines Partner	ed Pipeline (Traditional	out-licensing)						
Seebri®/Ultibro®	COPD	🔱 NOVARTIS						
QVM 149	Asthma	U NOVARTIS						

Ultibro® remains the leading LAMA/LABA with more than 50% of total class share (ex–US), with notable strong performance in Europe. Recent US² launches by Sunovion provide further upside



MiNA¹ partnered with:

Boehringer Ingelheim



MiNA¹ agreement with BI further supports the potential for saRNA

Leading position in saRNA	 Demonstrates MiNA's leading position in saRNA therapeutics MiNA's lead saRNA candidate, CEBPA, currently in Ph. 1/2a clinical studies
Validates the technology	Validates the saRNA technology, and enables the potential acceleration of the platform, which represents significant potential upside for Sosei
Expands capability, capacity and pipeline	Enables MiNA to build-up capability (and capacity) ahead of any future decision regarding our strategic investment
Additional source of diversified non-dilutive financing	 Upfront payment, committed R&D funding plus potential research, development and regulatory milestone payments up to EUR 307 million Double-digit royalties on sales of selected products from the partnership

Product/Program	Modality	Indication	Partner	Discovery Preclinical	Phase 1	Phase 2	Phase 3	Market
Partnered saRNA Pipel	line (Traditional out-l	icensing)						
Multiple targets	saRNA	Multiple	Boehringer Ingelheim					
Proprietary saRNA Pipe	eline (Go-to-market	/commercialize)						
MTL-CEBPA	saRNA	Liver cancer				>		
MTL-CEBPA	saRNA	Multiple						urrent stage ext 12–15
MTL-Other	saRNA	Multiple						ns progress

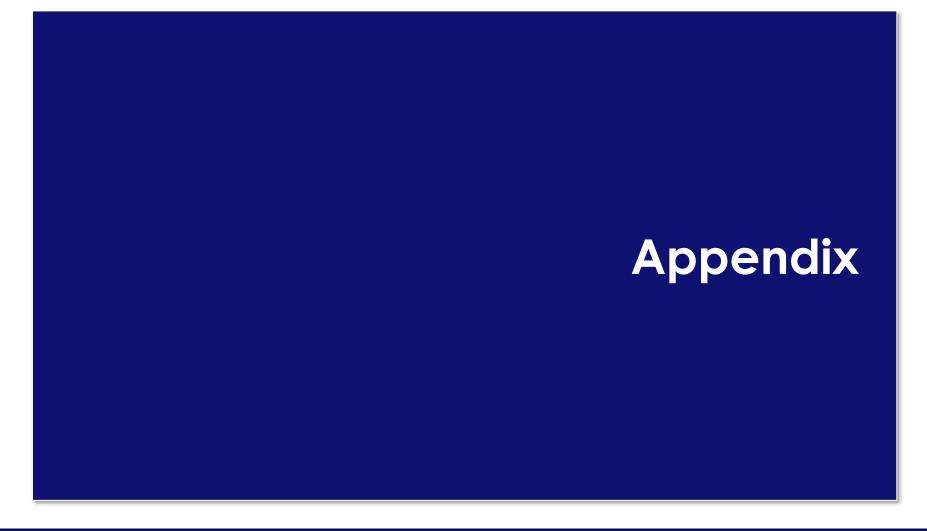
MiNA is collaborating with Boehringer Ingelheim, a world-leader in fibrotic liver diseases, to develop expertise in chronic administration, in addition to its potential acute treatment CEBPA for liver cancer



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Building Japan's first global biotech champion

World-leader in GPCRs	 Exploiting the vast untapped opportunity to design drugs that target GPCRs Cancer Other
Patent-protected StaR® & SBDD platform	Unique, scalable patent-protected StaR® technology building a deep pipeline with potential for lower attrition due to SBDD approach
Risk-balanced capital allocation framework	 Strategically advancing to include greater focus on go-to- market/profit share opportunities in selected indications (e.g. rare/orphan and specialty)and markets (US, UK, Japan)
Pharma partnerships in multiple therapeutic areas	 Partnered GPCR pipeline in neurology, immuno-oncology, CNS & other diseases – validates technology c.\$6bn in potential development, regulatory & commercial milestones to come, plus revealties on sales
Emerging proprietary GPCR pipeline	 Commercial milestones to come, plus royalties on sales Accelerate our Proprietary GPCR pipeline into clinical development and through to commercialization, with ability to enter up to 3 novel candidates into Ph. 1 every year

Plus continued growth from legacy Seebri®/Ultibro® royalties and our strategic investment in the exciting field of RNA Therapeutics with MiNA



World leader in GPCR medicines Balanced and diversified pipeline

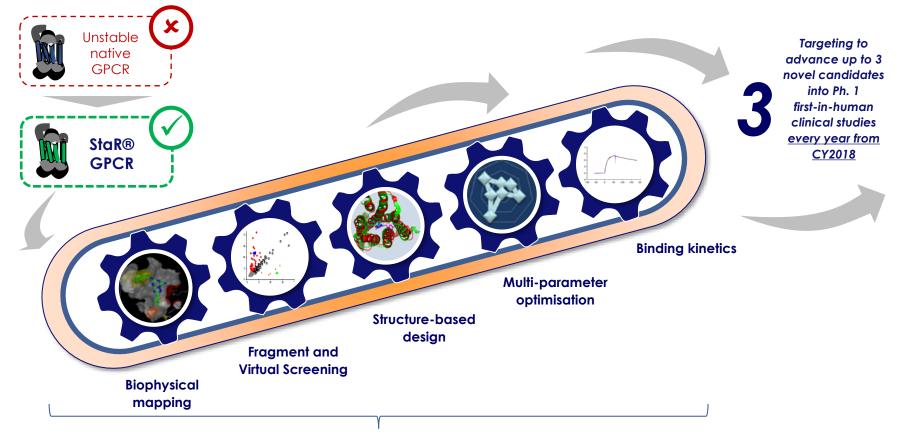


Product/Program	Modality	Indication	Partner	Discovery	Preclinical	Phase 1	Phase 2	Phase 3	Market
Partnered Pipeline - Le	gacy Respirat	ory Products (Traditional o	ut-licensing)						
Seebri®/Ultibro®	SME	COPD	U NOVARTIS						
QVM149	SME	COPD	🔱 NOVARTIS						
Partnered GPCR Pipeli	ne (Traditional	out-licensing/collaboratic	on projects) – formerly know	wn as "Wave 1'	,				
M ₁ agonist	SME	AD/Sz Cognition	🤹 Allergan				>		
M ₄ agonist	SME	AD/Sz Psychosis	🤹 Allergan				\longrightarrow		
M ₁ /M ₄ dual agonist	SME	AD/Sz Psych. /Cog.	🦚 Allergan						
A _{2A} antagonist	SME	Cancer I/O	AstraZeneca				>		
CGRP antagonist	SME	Migraine	57377			>			
Not disclosed	SME	Pain	🔘 Daiichi-Sankyo		>				
Multiple targets	SME/mAb	Multiple indications	Pfizer		>				
Not disclosed	SME	Not disclosed	morphosys		>				
Partnered GPCR Pipel	ine (Co-devel	opment/profit share)							
Not disclosed	PEP	Inflammation	PytiOrean						
Multiple targets	mAb	Immuno-oncology	kymab						
Proprietary GPCR Pipe	eline (Go-to-m	arket/commercialize) - fo	rmerly known as "Wave 2"						
M ₁ agonist	SME	DLB (Japan)					\longrightarrow		
mGlu₅ NAM	SME	CNS				>			
Molecule 1	SME	Undisclosed				>			
Molecule 2	SME	Undisclosed				>			
Molecule 3	SME	Undisclosed			>				
Molecule 4	SME	Undisclosed							
Molecule 5	SME	Undisclosed			>				



SBDD underpinned by StaR® enables us to build a deep pipeline

Unique and scalable platform



Structure-Based Drug Design (SBDD) engine – Multiple High Quality Chemotypes

Our proprietary StaR® GPCR technology allows us to utilize a variety of SBDD approaches. Up to 3 novel drug candidates entering Ph. 1 clinical studies every year from CY2018



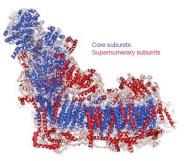
Message from Dr. Richard Henderson 2017 Nobel Prize winner in Chemistry



Dr. Richard Henderson

- Born 1945 in Edinburgh, Scotland.
- Ph.D. 1969, Cambridge University, UK.
- Programme Leader, MRC Laboratory of Molecular Biology, Cambridge, UK
- Co-founder of Heptares Therapeutics
- Scientific Advisor to Sosei/Heptares



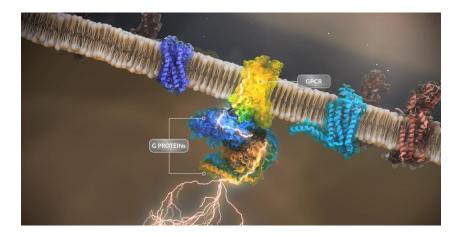


"I am proud to have co-founded Sosei's subsidiary Heptares where I continue to act as a scientific advisor to the company – a leader in GPCR medicine design and development. My work in the area of cryo-EM, for which I was jointly awarded the 2017 Nobel Prize in Chemistry, is a pioneering area of structural biology. Cryo-EM can reveal the structure of complex molecular assemblies to near atomic level. Together with the MRC Laboratory, where I am programme leader, Heptares is applying the techniques of cryo-EM to advance the discovery of new GPCR medicines. I look forward to speaking to Sosei shareholders in March 2018." – Dr. Richard Henderson, Co-founder of Sosei's subsidiary Heptares Therapeutics

Special Nobel Prize honorary event for Sosei shareholders in March 2018 in Tokyo with Dr. Richard Henderson as keynote speaker. More details in early 2018 – see IR website

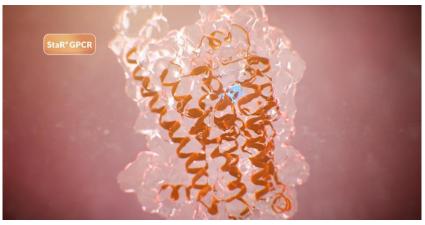


Check out our new StaR® GPCR & SBDD video!



English link:

https://www.youtube.com/watch?v=3lcoweP_z4M



日本語 (Japanese) link: https://www.youtube.com/watch?v=E4KCDIZfdzg

StaR® GPCRs and SBDD is consolidating our position as the world leader in GPCR medicine discovery, design and development – we are building Japan's global biotech champion