

World-leading drug discovery targeting GPCRs

40th Annual J.P. Morgan Healthcare Conference

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We are a world-leading team of GPCR drug hunters

World leader in GPCR drug discovery and early development

Proprietary GPCR-targeted **StaR® technology** and SBDD platform capabilities

Japan-anchored biotech, with state-of-the-art R&D centre in Cambridge, UK

Listed on Tokyo Stock Exchange (4565-JP). US\$1.2bn Mkt. Cap.



EVOLVING WITH A SPECIALIST THERAPEUTIC FOCUS

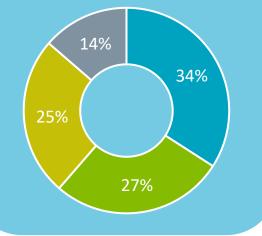
Advancing a broad and deep pipeline of **over 40** partnered and in-house programs across multiple therapeutic areas:

- Neurology
- Immunology
- Gastroenterology
- Other

\$500M+

CASH ON

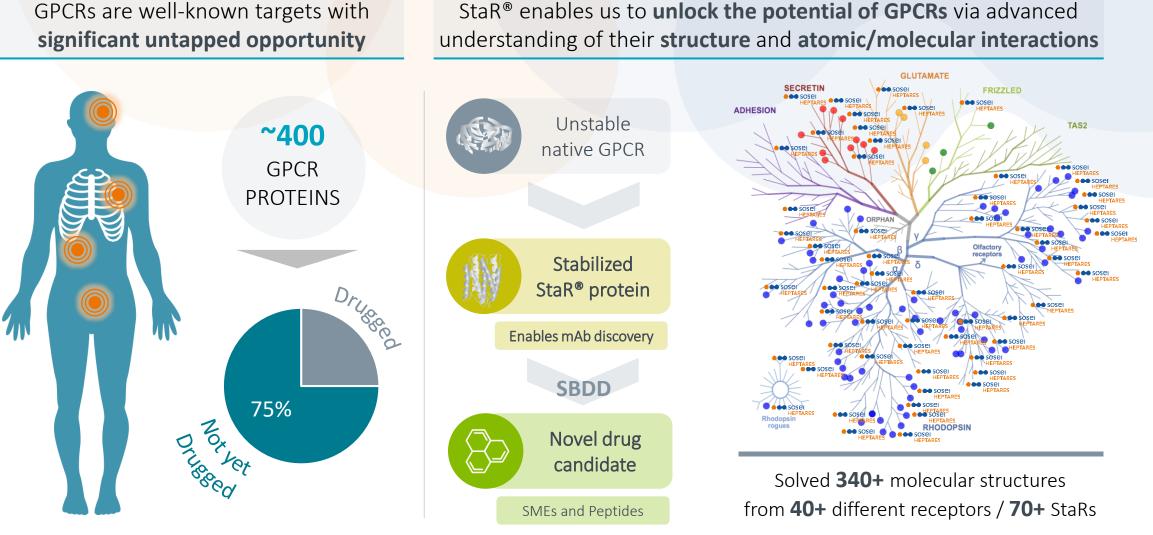
BALANCE SHEET







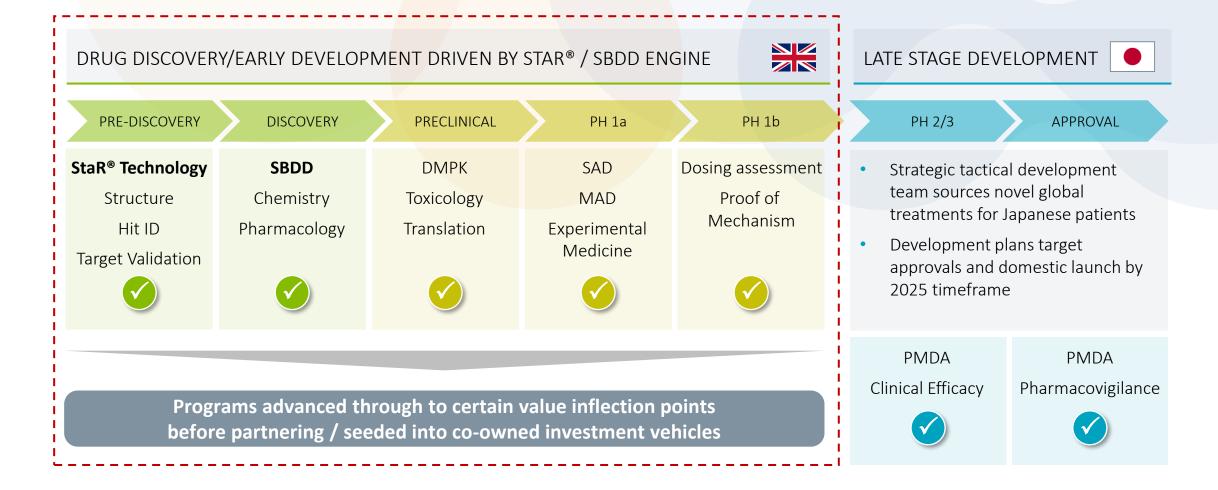
We unlock the potential of GPCRs with our StaR® technology



Sources: "Unexplored opportunities in the druggable human genome", Nature Reviews, 2016; "Trends in GPCR in Drug Discovery – new agents, targets and indications", Nature Reviews, 2017; Management analyses Receptors for which a structure has been released in Protein Data Bank (public domain) ••• sosei HEPTARES has developed a StaR®



Core capabilities in drug discovery and early development





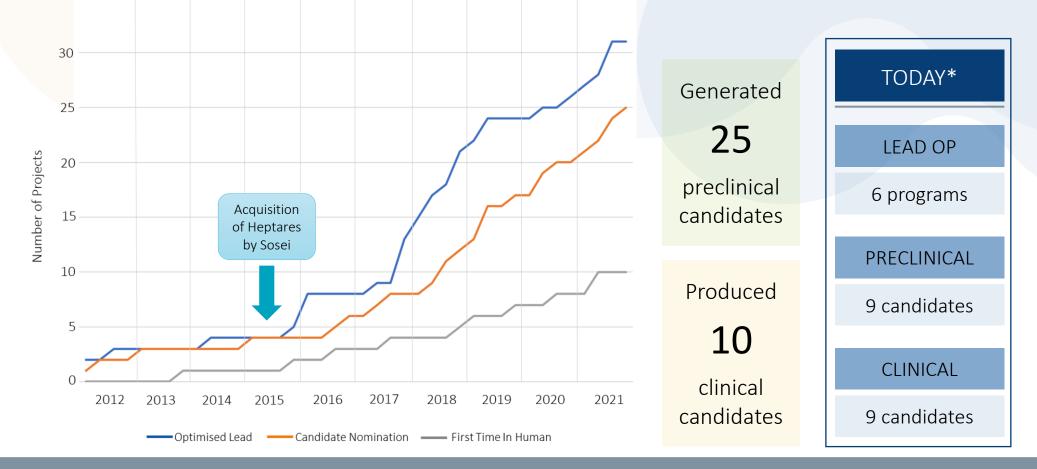
Our **approach is validated** through **20+ active GPCR programs** with world class partners



¹ Encompasses payments received from active, inactive and completed partnerships from 2005 to 2020. ² Includes potential option fees, upfront, development, regulatory and commercial milestone payments and committed R&D funding. Excludes potential royalty payments.



Ten drug candidates generated from our SBDD platform have been successfully advanced into clinical trials in the past 7 years

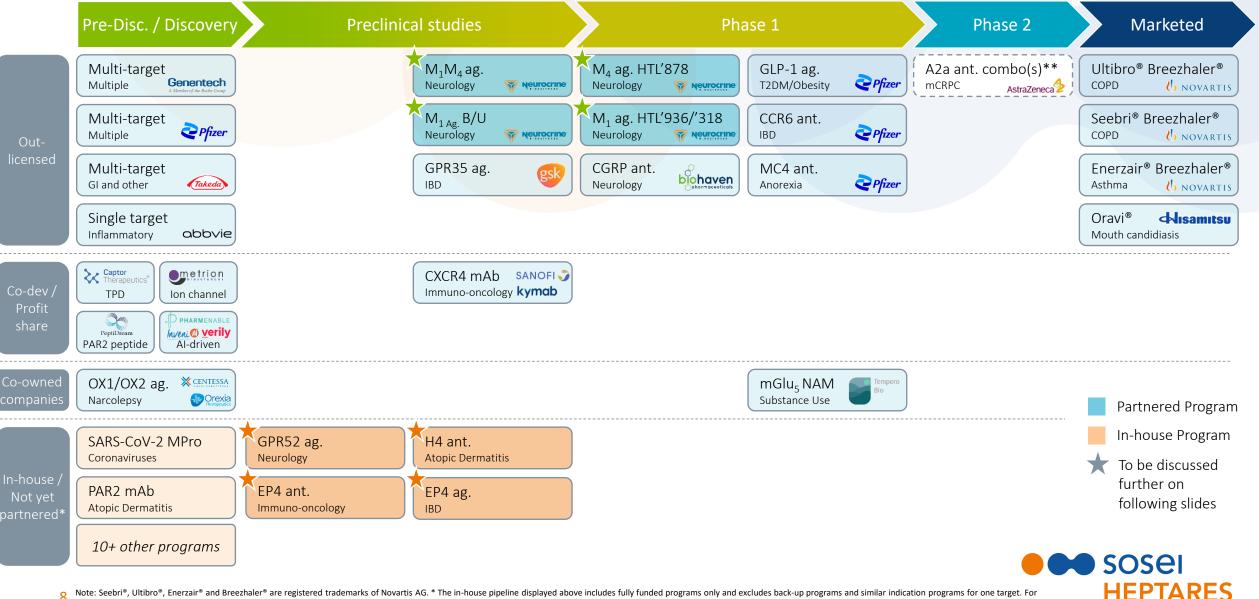


We are one of the most productive drug discovery teams in the world over the past 10 years. Up to six new preclinical candidates expected in the next 2 years across both internal and collaboration programs

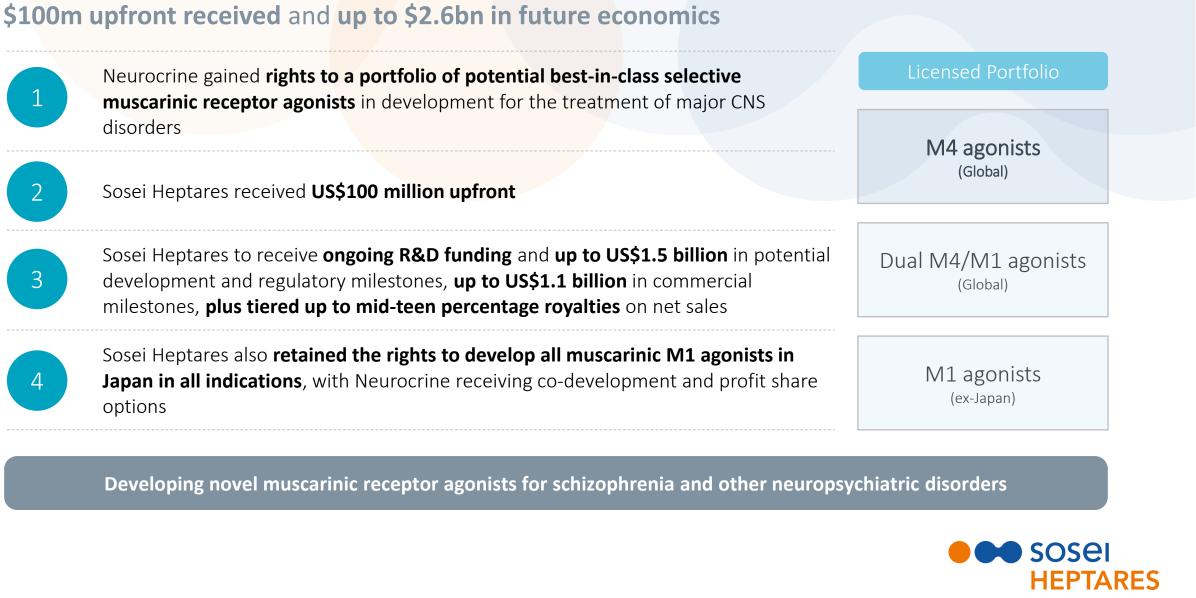
*5 programs (1 x Phase 1, 2 x Preclinical, 2 x Discovery) have been prioritised for academic or industrial partnerships. More information here: https://soseiheptares.com/other-programs-for-partnering



Broad and balanced pipeline of partnered and in-house programs, plus new technology collaborations will drive long-term momentum



Note: Seebri®, Ultibro®, Enerzair® and Breezhaler® are registered trademarks of Novartis AG. * The in-house pipeline displayed above includes fully funded programs only and excludes back-up programs and similar indication programs for one target. For example – A2a ant, SSTR5 ag, GLP-1 ant, GLP-2 ant, M1 and M4 backup programs (list not exhaustive). ** AstraZenenca have removed the A2a program from their clinical pipeline as at Q3 2021



New strategic collaboration with Neurocrine to progress a portfolio of selective Muscarinic agonists



Developing novel muscarinic receptor agonists for schizophrenia and other neuropsychiatric disorders

9

3

Neurocrine M4 agonist (HTL'878) program – 4th-gen candidate aiming to be a highly effective and safer treatment for Sz



					Efficacy			Saf	ety
					Positive symptoms	Negative symptom	Cognitive impairment	Extrapyramidal symptoms**	Weight gain
	MoA	Typical medicine	Peak sales example	Generation	Number of patients 20M*	Number of patients 11.5M [*]	Number of patients 16M*	-	-
Typical antipsychotic	D2 Ant	Haldol	(Historic data unavailable)	1 st	+++	-	-	++++	+
Atypical antipsychotics	D2 Ant + 5-HT Regulator	Zyprexa Risperdal Latuda	Zyprexa \$5,000M+ (2010)	2 nd	+++	+	+	++	++++
	D2 partial Ag + 5-HT Regulator	Abilify REXULTI Vraylar	Abilify \$6,100M+ (2013)	3 rd	+++	+	+	+	+
	M4 Agonist ^{***}	KarXT CVL-231 HTL'878	-	4 th	+++	++	++	-	-

Of the fourth-generation treatments in development, HTL'878 stands out as a potentially superior approach

*As 1 patient can have several symptoms, number of patients in 3 symptoms is overlapping

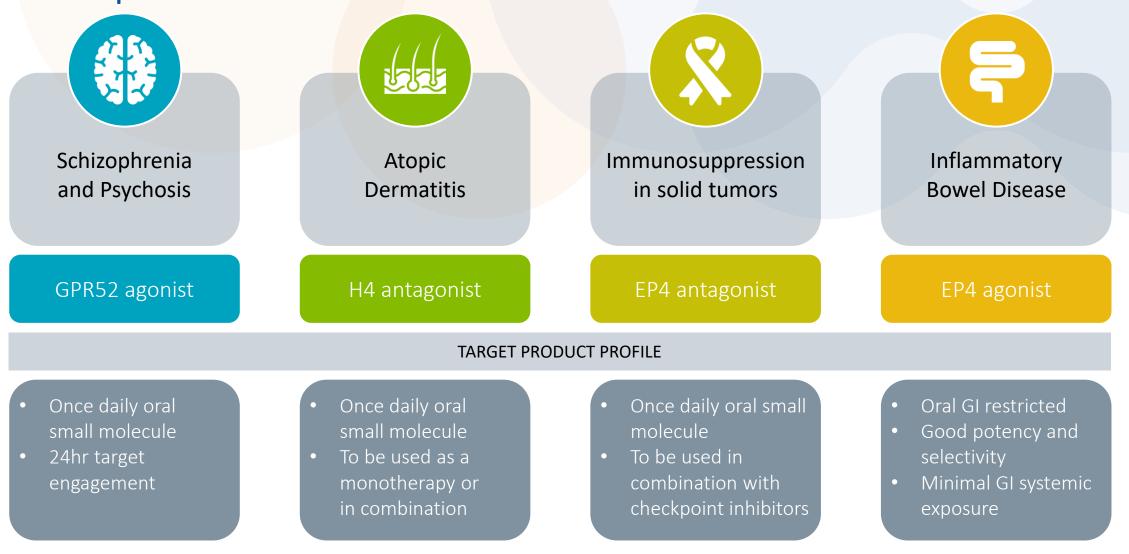
**Drug-induced movement disorders including involuntary or uncontrollable movements. tremors. muscle contractions. It is said to be related with D2 receptor occupancy balance.

***Expected efficacy and expected safety derived from ongoing clinical trials of KarXT and CVL-231.

Source : P T. 2014 Sep; 39(9): 638–645, J Clin Psychiatry. 2010;71(3):280–286, Schizophr Bull. 2010 Jan; 36(1): 36–42 and EvaluatePharma



Four upcoming wholly-owned programs prioritised for development over the next 12 to 24 months





New initiatives and future innovations

Strategic growth plan driving corporate value expansion

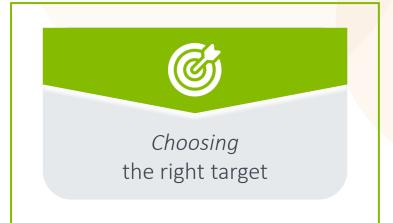


Seeking to add new revenues, access new technologies, and expand and future-proof our capabilities



Three big challenges in drug discovery and development

KEY OPPORTUNITY



- 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

Our greatest opportunity is to leverage technology to choose the right drug targets that will become the transformational therapies of the future



In January 2021 we established our New target ID and validation (TIV) framework to accelerate our hunt for novel GPCR targets...

	To support the identification and		•	
Aim	validation of new drug GPCR targets across our core therapeutic areas (GI, immunology, immuno-oncology and neuroscience)	Learning	Bioinformatics	Proteomics
How	By leveraging top-end external company omics platforms/databases and validation capabilities	Al / Machine	SBDD platform SME/mAb	Transcriptomic
Why	To add exciting novel GPCR targets to our pipeline which have evidence of a direct involvement in a disease / mechanism process to fuel partnering activity and higher value creation		Clinical Trials	Genomics Clinical/ Patient Data

Continuously expanding our know-how and SBDD platform to maintain our leadership position in GPCR drug discovery



iptomics

...with three new key partnerships executed in the past 12 months

verily

- Research collaboration combining Verily's immune profiling capabilities and SH's StaR[®] platform and SBDD capabilities
- Collaboration aims to identify GPCRs expressed in immune cells, enhance our understanding of their functional relevance and prosecute as potential drug targets in immune-mediated diseases

Inveni

- Discovery collaboration combining InveniAl's AI-powered platform for target discovery with SH's GPCR SBDD and early development capabilities
- Collaboration aims to identify new therapeutic product concepts for immune diseases and generate novel compounds that could improve responses to existing immunotherapies

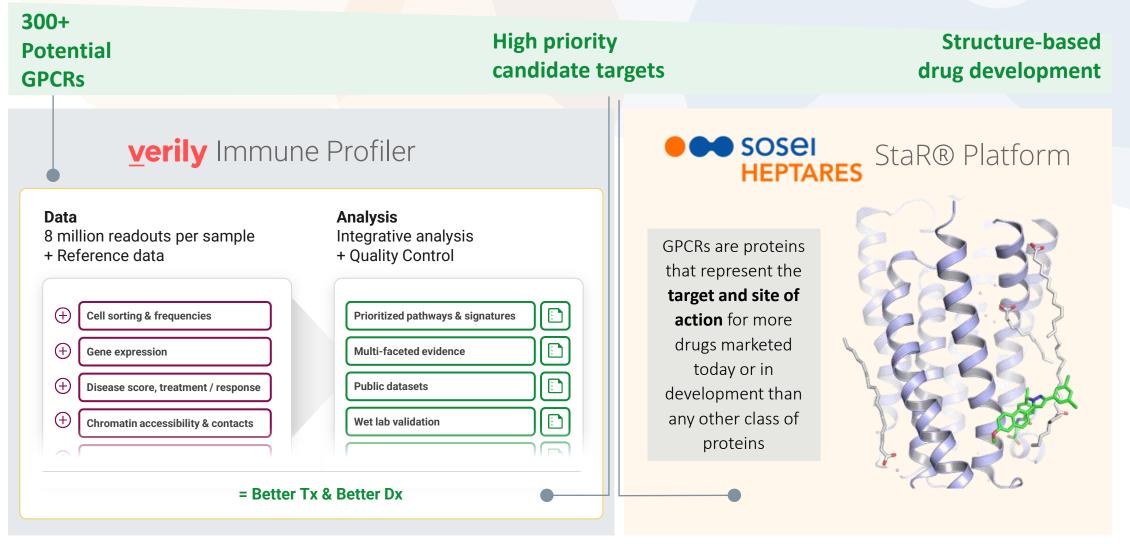
T W I S T

- Discovery collaboration combining Twist's synthetic antibody libraries and bioinformatics expertise with SH's StaR[®] platform
- Collaboration aims to discover therapeutic antibodies against GPCRs identified by SH
- SH will have exclusive, full global rights to develop and commercialize any antibody leads identified and directed to the targets of interest

Leveraging the best technologies to drive synergies with our platform and accelerate novel drug discovery



New multi-target collaboration with Verily aims to accelerate the development of novel therapies for immune-mediated diseases





We are building a **Future Innovations Portfolio** to explore ways to leverage our platform expertise in new directions

Targeted GPCR Degradation

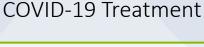


- Technology collaboration to initially identify novel small molecules that target a GPCR for degradation as potential therapeutic agents for gastrointestinal disorders
- Further aim to generate high resolution structural information around the GPCR-E3 ligase complex to enhance drug discovery efforts

metrion

Ion Channels

- Technology collaboration to demonstrate the potential of SBDD to address diseaseassociated ion channels
- Initial focus to identify novel,
 highly specific drug leads for
 further development against a
 single ion channel associated with
 neurological diseases





- In-house program funded by Wellcome through the Covid-19 Therapeutics Accelerator
- Currently advancing the preclinical development of novel oral anti-viral small molecules targeting the main protease of SARS-CoV-2 (M^{pro}) as potential treatments for **COVID-19**

Our SBDD platform is also now being applied to areas outside our traditional GPCR space



Priority objectives for FY2022

Progress organic growth plan

- Extend technology / platform leadership
- Generate high quality novel candidates
- Advance discovery and development pipeline
- Execute high value partnerships

Execute strategic growth plan

- Invest / collaborate in novel technologies
- Diligence potential strategic
 M&A opportunities
- Diligence potential opportunities for Japan
- Expand drug target classes beyond GPCRs



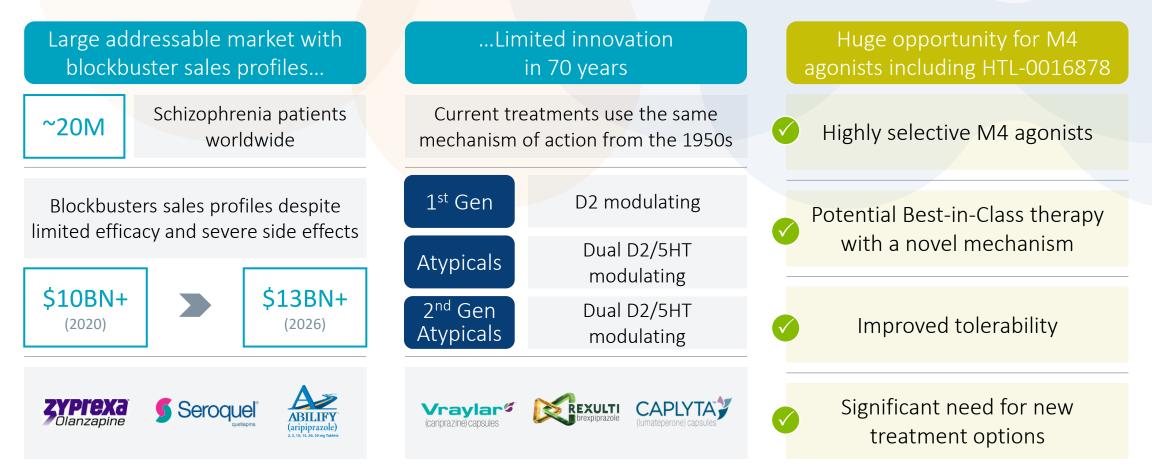
Promote sustainable ESG practices and policies across global business

 Advance Mpro inhibitor program and seek collaboration to further develop candidates as oral treatments for human coronaviruses



Appendix

Our new partner Neurocrine is committed to a transformative treatment for Schizophrenia with the M4 agonist HTL-0016878



The current standard of care can be improved. Selective M4 agonism represents a unique opportunity



Source: World Health Organization; EvaluatePharma

Partnered Pipeline

Compound	Target / Mechanism of Action	Modality	Indication	Partner	Disc.	PCC	Ph1	Ph2	Ph3	A
raditional Out-licensing (Collaborations									
Seebri [®] Breezhaler [®]	LAMA	SME	COPD	U NOVARTIS						
Ultibro [®] Breezhaler [®]	LAMA+LABA	SME	COPD	U NOVARTIS						
Enerzair [®] Breezhaler [®]	LAMA+LABA+ICS	SME	Asthma	U NOVARTIS						
ORAVI®	Antifungal agent miconazole	SME	Oropharyngeal candidiasis	Aisamitsu		_				
Imaradenant**	Adenosine A2a ant. combo	SME	mCRPC	AstraZeneca						
HTL'878	Muscarinic M4 agonist	SME	Neurology diseases	Neurocrine						
HTL'318 ¹	Muscarinic M1 agonist	SME	Neurology diseases	Neurocrine		_				
HTL'936	Muscarinic M1 agonist	SME	Neurology diseases	Neurocrine.						
Not disclosed	Muscarinic M1 agonist (B/U)	SME	Neurology diseases	Neurocrine.						
Not disclosed	Muscarinic M1/M4 agonist	SME	Neurology diseases	Neurocrine.						
PF-07081532	GLP-1 agonist	SME	T2DM / Obesity	Pfizer			_			
PF-07054894	CCR6 antagonist	SME	Inflammatory bowel disease	Pfizer			_			
PF-07258669	MC4 antagonist	SME	Anorexia	Pfizer			_			
BHV3100	CGRP antagonist	SME	Neurology diseases	phaven pharmaceuticals			_			
Not disclosed	GPR35 agonist	SME	Inflammatory bowel disease	gsk						
Not disclosed	Multi target	SME	Multiple indications	P fizer						
Not disclosed	Multi target	SME/LME	Multiple indications	A Member of the Roche Group	_					
Not disclosed	Multi target	SME/LME	Gastrointestinal and other	Takeda	_					
Not disclosed	Single target	SME	Inflammatory diseases	abbvie						



Partnered Pipeline (cont'd)

Compound	Target / Mechanism of Action	Modality	Indication	Partner	Disc.	PCC	Ph1	Ph2	Ph3	Арр	Mkt
Co-development / Profit-share Collaborations											
KY1051	CXCR4 mAb	mAb	Immuno-oncology	sanofi 🎝 kymab		-					
Not disclosed	PAR-2	Peptide	Inflammatory diseases	PeptiDream							
Not disclosed	Targeted Protein Degradation	SME	Gastrointestinal disorders	Captor Therapeutics [®]	-						
Not disclosed	Al-Augmented Drug Discovery	SME	Neurology diseases	.P PHARMENABLE	-						
Not disclosed	Ion Channel Drug Discovery	SME	Neurology diseases		—						
Not disclosed	Multi target AI-powered	SME/LME	Immune diseases	Inveni 🔕	_						
Not disclosed	Antibody Discovery	mAb	Disease-relevant GPCR targets	T W I S T	_						
Not disclosed	Multi target AI-powered	SME/LME	Immune diseases	verily							
Co-owned Investments											
TMP301	mGlu5 NAM	SME	Substance use disorders	Tempero Bio							
Not disclosed	OX1/OX2 agonist (oral and intranasal)	SME	Narcolepsy								



In-house Pipeline

Compound	Target / Mechanism of Action	Modality	Indication	Originator	Dis	PCC	Ph1	Ph2	Ph3	Арр	Mkt.
In-house Programs (Not	t yet partnered)										
Not disclosed	H4 antagonist	SME	Atopic Dermatitis	SOSEI HEPTARES	_	-					
Not disclosed	EP4 antagonist	SME	Immuno-oncology			_					
Not disclosed	GPR52 agonist	SME	Neurology diseases	SOSEI HEPTARES	_	_					
Not disclosed	EP4 agonist	SME	Inflammatory bowel disease	SOSEI HEPTARES	_						
Not disclosed	PAR-2 mAb	mAb	Atopic Dermatitis	eee sosei HEPTARES	_						
SH-879	SARS CoV-2 Mpro	SME	Coronaviruses	SOSEI HEPTARES	_						
Multiple programs	Not disclosed	SME/LME	Neurology diseases	eee 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. Targetin	ng academic / indus	strial partnership)								
HTL'310	SSTR5 agonist	Peptide	Hypoglycaemic disorders		_						
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								
HTL'641	Dual orexin antagonist	SME	Insomnia and sleep disorders	SOSEI HEPTARES	_						



Note: SME = small molecule. LME = large molecule. ¹ Voluntarily suspended

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