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Agenda

- Business Update
- Development and Commercial (JP/APAC)
- Research (UK)
- FY2024 Q3 Financial Results
- Appendix





Towards our 2030 vision

Focus on innovative specialty medicines in areas of unmet need



Neurology 39%

Current portfolio % split



Metabolism 33%



Immunology 9%



Rare 18%

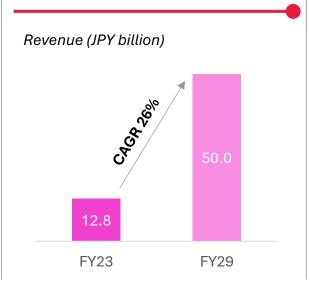
At least 5 products* launched in Japan





Business development platform actively hunting new product opportunities

At least JPY50 billion in annual revenues



Strengthening management and people

Continuously improving business processes

Implementing technology and leveraging data

Our mission is to accelerate medicine. From Japan, for Japan, and the world.



Be bold, move fast.

- **Securing mid-term expansion** by focusing on the growth of key commercial products in Japan and APAC (PIVLAZ[®] and QUVIVIQ[™])
- **Driving long-term expansion** by transforming medicine across the hottest areas of Neuroscience, Metabolism, Immunology and Rare Diseases
- **Powering the world's most comprehensive drug discovery platform** for GPCRs and other membrane proteins to fuel new pipeline products
- **Executing strategic expansion** in Japan with focused licensing and/or acquisitions

Rapidly building Japan's next-generation pharmaceutical company

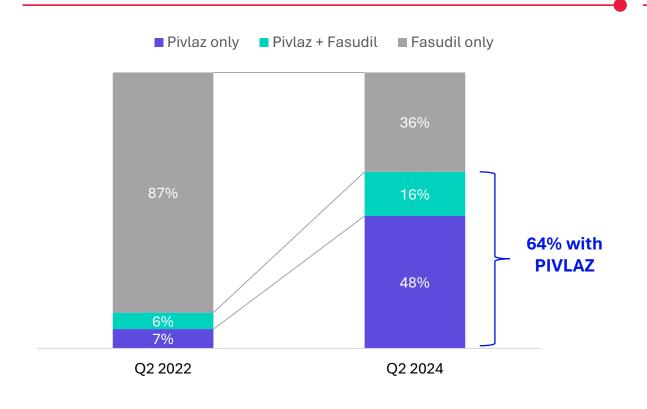


Mid-term expansion from the stability of PIVLAZ® in Japan



Share evolution – aSAH usage





- Over 15,000 Japanese patients have received PIVLAZ®
- Japan Guidelines for Management of Stroke gives neurosurgeons confidence to prescribe PIVLAZ® as a new standard of care for SAH
- **Indication expansion** discussions ongoing with Japanese KOLs
- **Territory expansion** ongoing PIVLAZ® expected to be available to South Korean patients in 2025-2026

PIVLAZ® is a life-saving treatment and the backbone of our growing Japanese pharma business









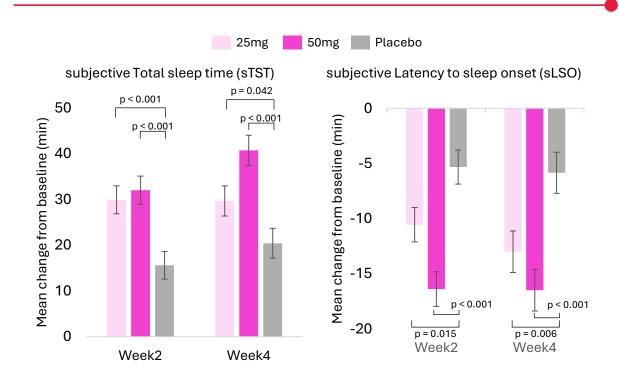


Mid-term expansion with upcoming launch of QUVIVIQTM in Japan



Positive results from Phase 3 trial in Japan





- MHLW approval of QUVIVIQ[™] 25mg / 50mg for the treatment of insomnia received in September 2024
- New sales scheme with 📵 SHIONOGI
 - Best partner to market QUVIVIQ™ in Japan
 - Enhanced economics receiving double-digit net sales royalties vs. cost of establishing primary care salesforce
- Indication expansion being explored with KOLs
- Territory expansion bridging study ongoing in Korea; discussions ongoing with APAC partners

QUVIVIQ[™] go-to-market model transformed by new sales scheme with Shionogi for Japan. Shionogi to exclusively handle sales and distribution activities.



Long-term expansion by transforming medicine across the hottest areas of Neuroscience...

PARTNERED WITH

NEUROCRINE° BIOSCIENCES

DISCOVERED BY



DISCOVERED

BY

TECHNOLOGY FROM



OPTION TO LICENSE WITH

DISCOVERED BY





Compound & Stage

Target Indication

Global Patient Population

Mechanism

Key Player

NBI-'568 (Ph 3 ready)

Schizophrenia

24 million

Selective M4 receptor agonism

BMS/KarXT

ORX750 (Ph 1/2)

Narcolepsy

3 million

Selective OX-2 receptor agonism

Takeda/TAK-861

NXE-149 (Ph 1b)

Schizophrenia

24 million

Novel, selective GPR52 receptor agonism

First-in-Class

Technology, platform and know-how to design convenient, cost effective, easy to manufacture, oral small molecule medicines that could change the treatment paradigm for major diseases



... and fast-growing areas of Metabolism and Immunology

DISCOVERED BY

TECHNOLOGY FROM



DISCOVERED TECHNOLOGY FROM



BY

ихега:~

DISCOVERED BY



Compound & Stage

Target Indication

Global Patient Population

Mechanism

Key Player

PF-06954522 (Ph 1)

T2D / Obesity

483 million / 890 million

GLP-1 receptor agonist

Lilly + Chugai/Orforglipron

PF-07054894 (Ph 1)

IBD

10 million

CCR6 receptor antagonist

First-in-Class

NXE-744 (Ph 1)

IBD

10 million

Novel, selective EP4 receptor agonist

First-in-Class

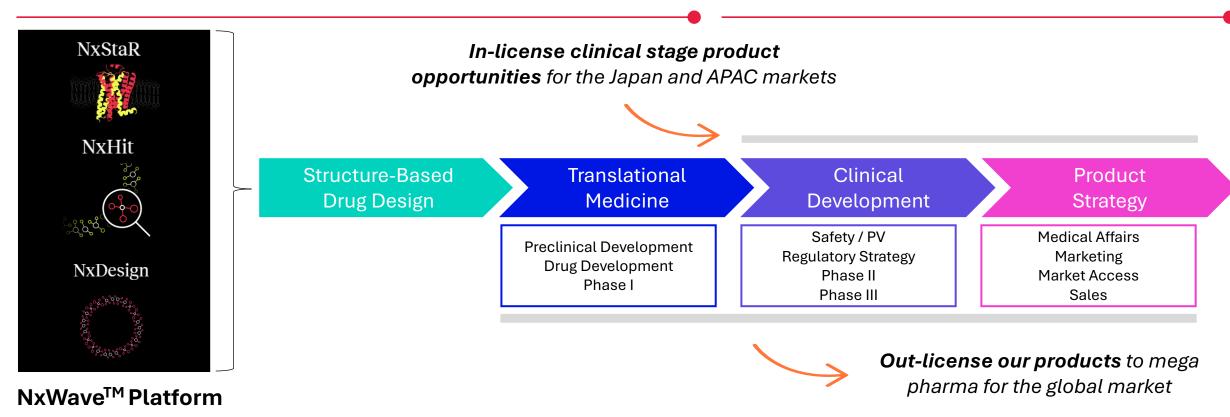
Current clinical programs targeting Neuroscience, Metabolic Disease and Immunology aim to positively impact over 500 million patients worldwide



Leveraging the world's most comprehensive drug discovery platform for GPCRs

UK Research & Early Development

Japanese Clinical Development & Sales



NxWave[™] SBDD platform is the backbone that fuels our continuous innovation of new product opportunities.

Our pipeline is bolstered by external innovation and collaboration from partners worldwide.





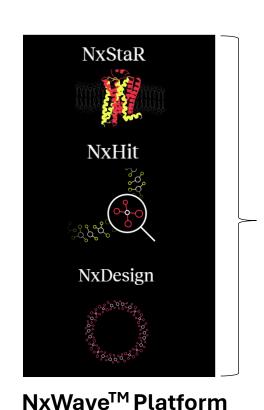






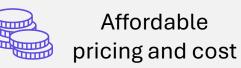
Leveraging the world's most comprehensive drug discovery platform for GPCRs

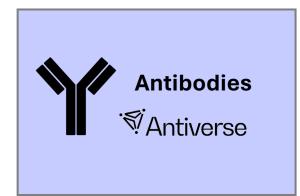
Small Molecules

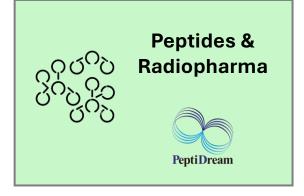


Structure-Based Drug Design









Our strength is in small molecules, but expanding to have additional modalities and capabilities that can address the unmet needs that small molecules cannot



Leveraging the world's most comprehensive drug discovery platform for GPCRs

	Year Founded	# Team Members	IPO / Listing	Value of Business	Modality	# Non-clinical Programs	# Clinical Programs
TECTONIC Therapeutic	2019	44	NASDAQ (2024)	\$535M	SME, Biologics	3+	1
septerna	2019	78	NASDAQ (2024)	\$745M	SME	3+	1
STRUCTURE THERAPEUTICS	2019	136	NASDAQ (2023)	\$2,175M	SME	4	2
NXeLa;✓	2007*	180**	TSE PRIME		SME, Peptide Biologics	s, 25+	12

Nxera has 15 years of know-how and technology expertise drugging GPCRs. Across all metrics Nxera has the world's most comprehensive and valuable drug discovery platform for GPCRs



^{*}Relates to the founding of Heptares Therapeutics Ltd (now known as Nxera Pharma UK Limited.





Total Milestones

:: Allergan

Potential Total

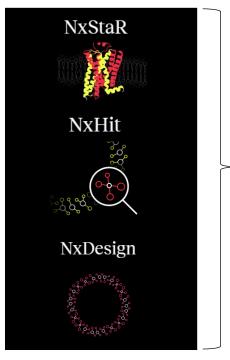
Leveraging the world's most comprehensive drug discovery platform for GPCRs

Structure-Based

Drug Design

Active Partnerships

Partner

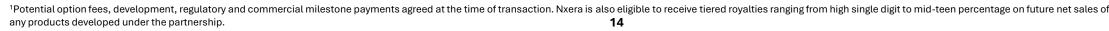


NxWaveTM Platform

Therapeutic Area(s) Received to Date Milestones¹ Boehringer Boenringer Ingelheim Schizophrenia €25m €670m Diabetes and Metabolic \$37m \$800m abbyie CNS \$1.2bn \$50m NEUROCRINE®
BIOSCIENCES **CNS** \$180m \$2.6bn Genentech Multiple \$33m \$1.0bn **Pfizer** \$1.8bn Multiple \$36m **Terminated Programs Reverted Programs** Total milestones received (\$m) teva abbvie Daiichi-Sankyo \$17m biohaven[®] AstraZeneca

\$258m

The world's leading pharma companies continue to choose Nxera to develop their GPCR products











APPENDIX

Executing strategic expansion in Japan & APAC with focused licensing and/or acquisitions

UK Research & Early Development

Japanese Clinical Development & Sales

Discovery Phase I Phase II Phase III Marketed In-license clinical stage product opportunities for the Japan and APAC **Proactively analyzing JAPAN** ピヴラッツ®点滴静注液 150mg opportunities to fill our Phase 2, Phase 3 and commercial stage **APAC** クービビック®錠 25mg 50mg pipeline. Over US\$300m capital **MARKET** available to deploy. धु M1 Ag. Progress in-house pipelines and retain Japan and APAC rights **令** EP4 Ag. **GLOBAL** 15+ **MARKET Programs** धु GPR52 Ag. EP4 Antag.

Commercial considerations





FINANCIALS



Executing strategic expansion in Japan & APAC with focused licensing and/or acquisitions

Approach to prioritizing Disease Areas ("DAs")

Nxera Pharma capabilities

Universe of Disease Areas

472 DAs

Commercialize with lean sales force

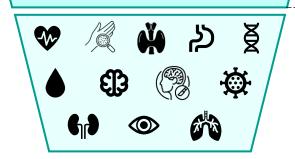
305 DAs

Material commercial potential Est. patient population >1,000

218 DAs

Material unmet need, reasonable development requirements

198 DAs



Active in-licensing discussions targeting 20+ assets



50+ proposals evaluated



20+ product opportunities prioritized:

peak sales potential of JPY 15-50bn,

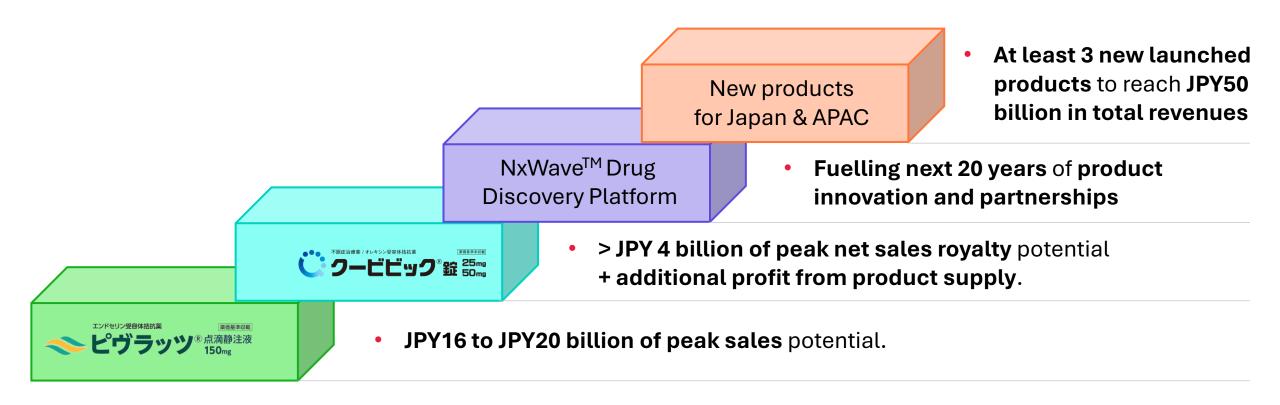
or more

 differentiated medicines in compelling indications Neurology
Critical Care (incl. Neurosurgery)
Rare (Neuro)endocrine
Immunology & Inflammation
Rare Genetic
Rare Respiratory
Rare Cardiovascular



7 opportunities at term sheet or contracting stage

From a discovery platform towards our 2030 vision



Building a JPY50 billion revenue business by growing sales from new products in Japan and APAC, and global expansion of NxWave™ discovered small molecule, antibody and peptide products



A year of exceptional progress

	PROGRAM	PARTNER	TIMING	EVENT
\bigcirc	EP4 Ag	NXeLO!▼	Achieved (Mar. 2024)	Ph.1 start
\bigcirc	GPR35 Ag	GSK Nxera¦∾	Achieved (Mar. 2024)	Program reversion
\bigcirc	GPR52 Ag	Boehringer Ingelheim	Achieved (Mar. 2024)	Option-to-license agreement
\bigcirc	NBI-568 (M4 Ag)	S NEUROCRINE BIOSCIENCES	Achieved (Apr. 2024)	Long-term TOX study completed
\bigcirc	NBI-567 (M1 pref. Ag)	NEUROCRINE' BIOSCIENCES	Achieved (May 2024)	Ph.1 start
\bigcirc	ORX750 (Ox2 Ag)	X CENTESSA PRAGRACEUTICALS	Achieved (May 2024)	Ph.1 start
\bigcirc	NBI-568 (M4 Ag)	NEUROCRINE BIOSCIENCES	Achieved (Aug. 2024)	Ph.2 topline data
\bigcirc	ORX750 (Ox2 Ag)	CENTESSA	Achieved (Sep. 2024)	Ph.1 completion & POC data
	Cenerimod	idorsia	4Q 2024	Exclusive opt-in decision
	Lucerastat	idorsia	4Q 2024	Exclusive opt-in decision
	Daridorexant (Sth Korea)	NXera ►	4Q 2024	New Partnership & Ph.3 start
	Daridorexant (Japan)	SHIONOGI	4Q 2024	NDA Approval (achieved) & Launch
	ORX750 (Ox2 Ag)	CENTESSA	4Q 2024	Ph.2 start
	TMP-301 (mGlu5 NAM)	TEMPERO BIO"	End of 2024	Ph.2 start

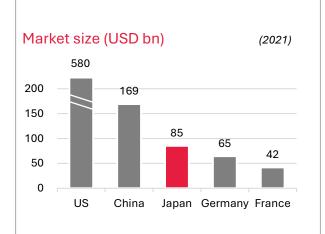




Japan will serve as our base to expand across APAC markets

Japan is an attractive, established market with strong volumes

Japan is the second largest pharma market (ex-China)



Tailwinds from nearterm regulatory changes

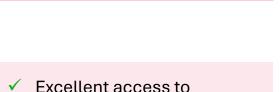
Japan Phase 1 Drug

Longer Needed for

Global Clinical Trials

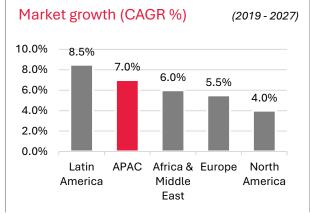
Clinical Trials No

High quality clinical and regulatory environment



- Excellent access to
 Doctors/HCPs who evaluate novel drugs
- Typically achieve strong patient uptake
- Reduces drug loss and drug lag for Japan patients

APAC is the second highest growth pharma market



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



MHLW
Ministry of Health, Labour and Welfare of Japan

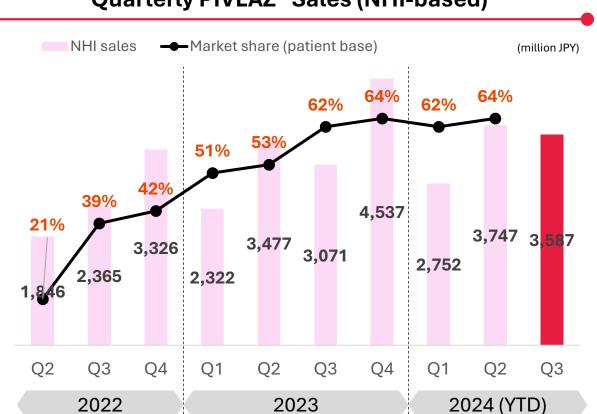


Our product: PIVLAZ®

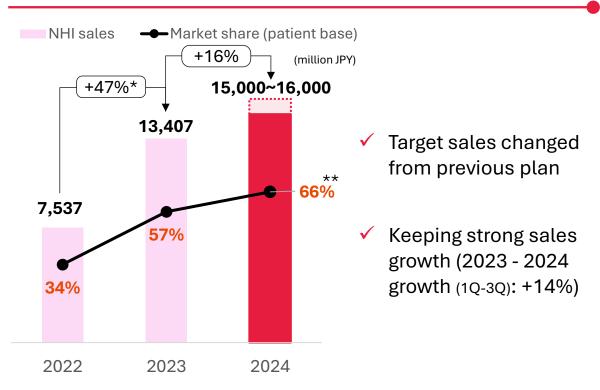
Our first commercially available medicine is penetrating the market and protecting lives every day.



Quarterly PIVLAZ® Sales (NHI-based)



Yearly PIVLAZ® sales and its growth



PIVLAZ® is rapidly spreading and becoming standard of care in prevention of cerebral vasospasm



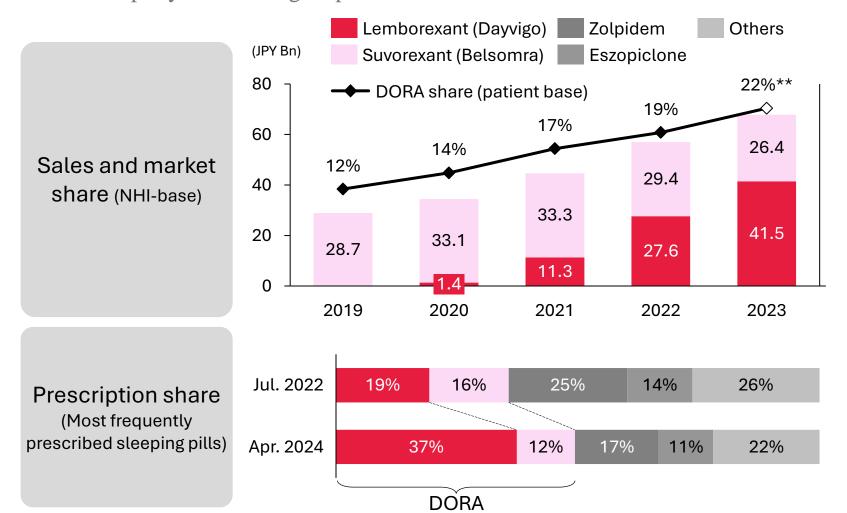
^{*:} Comparison of 2-4Q of 2022 and 2023, **: Estimation from previous trend



QUVIVIQTM*: A Novel Dual Orexin Receptor Antagonist (DORA)



DORA is rapidly establishing its position in insomnia treatment



- ✓ DORAs are rapidly penetrating the insomnia treatment market in Japan
- ✓ Japan is one of the largest DORA markets







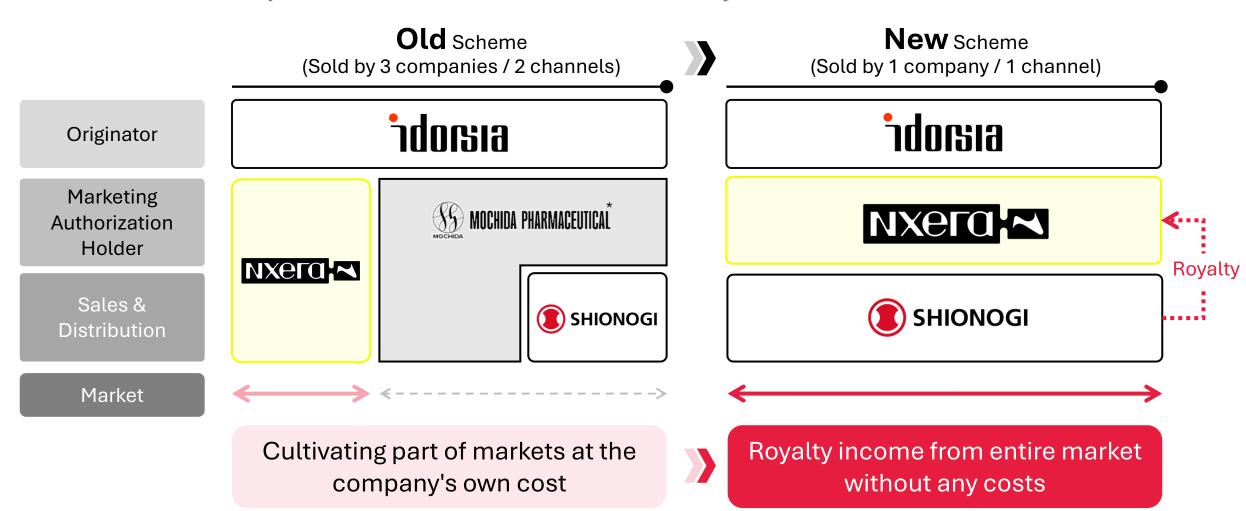


APPENDIX

QUVIVIQTM Business scheme change

SHIONOGI to Exclusively Handle Distribution and Sales Activities in Japan





^{*} Mochida will remain exclusively responsible for manufacturing of QUVIVIQ™ in Japan



In-house pipeline: QUVIVIQTM



JNDA approval received in September 2024, and aim to be best-in-class drug

Unmet needs in insomnia





Nocturnal awakenings



Rapid sleep onset



Carry-over effects to the next day after medication



Dual Orexin Receptor Antagonist



European Guideline



PK profile

Alleviates excessive wakefulness through strong inhibition of orexin receptors

Recommended in the 2023 European Insomnia Guidelines as **the only orexin receptor antagonist** that can be used ¹

T_{max}: about 0.5-1.4 hour

T_{1/2}: about 6-9 hour

Significant improvement in next-day sleepiness and daytime functioning confirmed in global phase 3 trials ²

Aim to be Best-in-class drug in DORA class





Key Events 2024

Accelerating the development of life-changing medicines, by investing in science and technology



PRE-DISCOVERY

DISCOVERY

PHASE 1

PHASE 2



Expansion of R&D partnership into auto-

immune disorders

May '24

PR LINK

abbyie

\$10M milestone payment received from multitarget neurology collaboration utilizing NxWaveTM platform PR LINK Jun '24

Two NME¹ programs Discovery phase H1 '24



GPR35 agonist program reversion from GSK completed

H1 '24

NXeLd ✓

transitioned into the following a successful NxWaveTM campaign



PR LINK

NXeLG ✓

Phase 1 trial start evaluating NXE'744, a potent, selective, gut restricted EP4 agonist for IBD

Mar '24



\$4.6M milestone payment received for ORX750 (OX2R agonist) Phase 1 start in Narcolepsy PR LINK

May '24



Collaboration with BI signed (€25M upfront and €60M option exercise) for FIC GPR52 agonists for schizophrenia

PR LINK

PRLINK

Mar '24

PR LINK



NBI-567, oral muscarinic M1 preferring agonist Phase 1 start with potential to treat symptoms of cognition in patients

May '24



\$15M milestone triggered on successful completion of long-term preclinical toxicology of NBI-568, an oral selective muscarinic M4 agonist advancing through Phase 2

Apr'24

\$35M milestone triggered upon successful completion of the Phase 2 trial in adults with schizophrenia

Sep '24

PR LINK

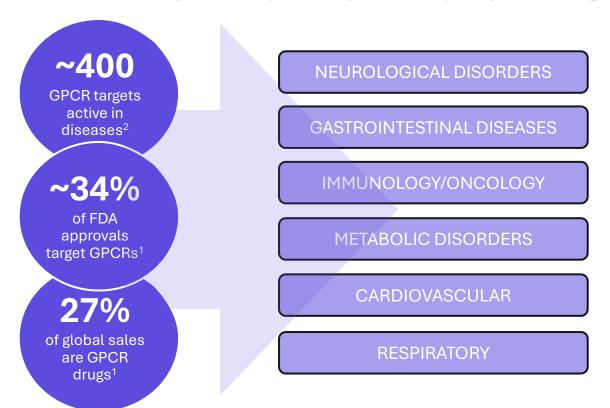
PR LINK

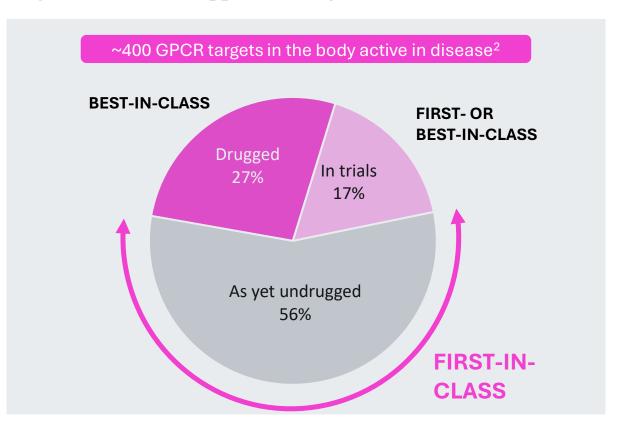
World-leading NxWaveTM SBDD platform continues to fuel innovation



GPCR targets are our core focus

GPCRs are the largest family of drug discovery targets – comprising 1/3 of all FDA approved drugs





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



NxWaveTM Platform: 5-step patient-driven discovery approach

26 Pre-Clinical Candidates; 17 Clinical Starts

Target ID & Validation



Identifying the best targets

- MoA link between biological function and disease
- Tractability aligned with NxWave Platform
- Commercially attractive in core disease/therapeutic areas



NxStaR



Stabilising the right targets

- World-leading technology platform
- Protein NxStaR for NxHit
- NxStaR enabling structure determination
- NxStaR supported biophysics and MoA



NxHit



Identifying the best hits

- Proprietary screening sets
- NxStaR enabled DEL screening
- NxStaR enabled fragment screening
- Ligand & Structurebased virtual screening



NxDesign



Selecting the best Candidate

- SBDD enabled
- CADD focused
- Optimal physchem, pharmacology, DMPK and drug safety
- Confidence in Human PKPD, dose prediction
- Competitor Differentiation

The Right Candidates

Translational Medicine



Testing the Therapeutic Hypothesis

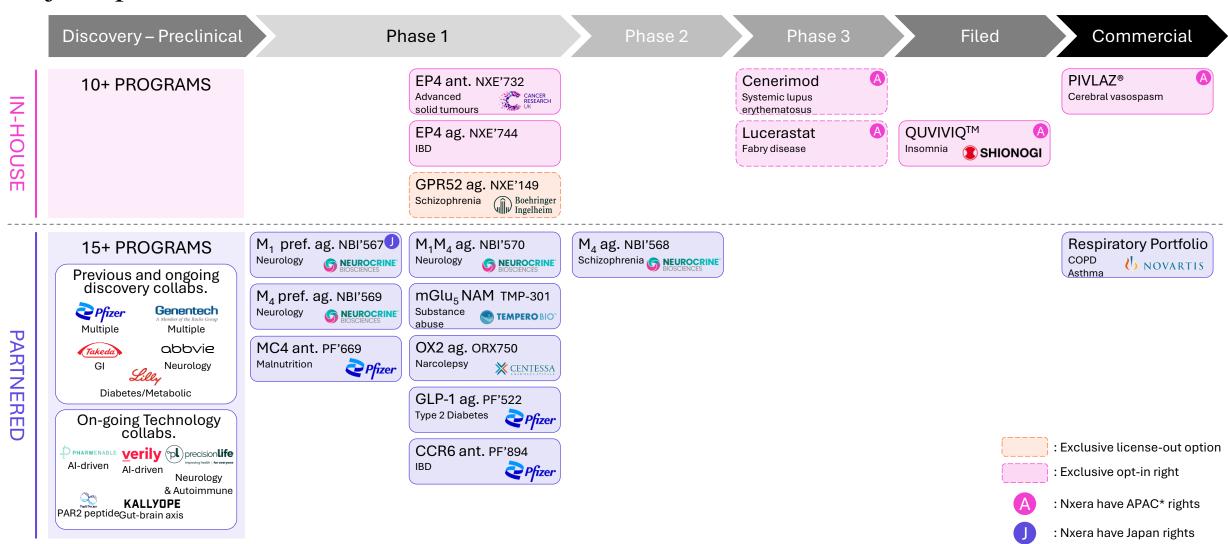
- Human biology focused translational platform
- Build Translational Pillars to inform biomarker strategy
- Deliver molecules that robustly & safely test therapeutic hypothesis
- Drug manufacture



The Right **Drugs**The Right **Trial**



Major Pipeline Overview





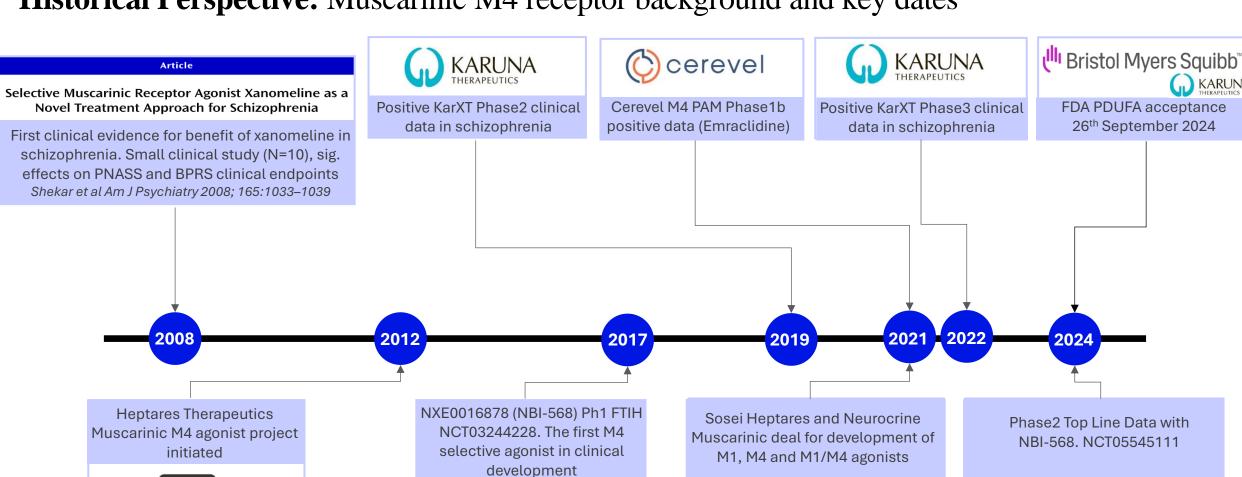


NEUROCRINE BIOSCIENCES

NX6La.[™]

NEUROCRINE

Historical Perspective: Muscarinic M4 receptor background and key dates



NEUROCRINE BIOSCIENCES

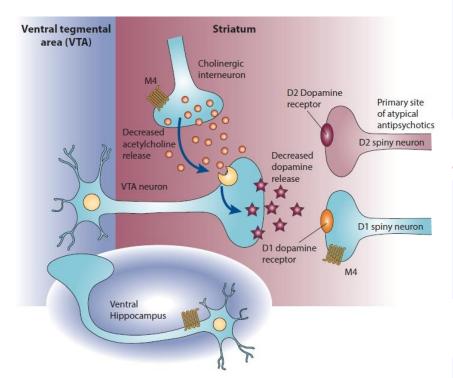
NX6La ॄ**∽**

Allergan

NX6La ॄ**✓**

Highly Selective Muscarinic M4 agonists have the potential to revolutionise treatment across multiple disorders

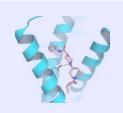




Opportunity

- Preclinical data supports that M₄R agonists modulate VTA and MSN dopamine neuron activity
- This has the potential to modulate dopamine synthesis and/or release and downstream signalling events
- Demonstrates that this **novel mechanism controls excess dopamine** without blockade of D₂ receptor (common drug target for atypical antipsychotics)

Challenge



- Selectivity challenges associated with KarXT due to activity at M2 and M3 receptors and associated cholinergic AE's
- **Broad activity** across a range of CNS indications including those where acetylcholine is no longer present and PAMs are predicted to be less effective

Solution

- Design of highly selective orthosteric M4 agonists using structure-based design.
- NBI-568 Phase 2 trial initiated by Neurocrine Bioscience



NBI-568 Phase2 Design: A dose finding and early efficacy study in schizophrenia



Predicting human efficacious doses

- Consistent dose-related data generated across all pre-clinical models and healthy human subjects
- Pre-Clinical and Phase 1 data including EEG and CSF exposure predicted efficacious doses for Phase 2
- Confident in the human 20mg dose being predicted to be efficacious

Phase 2, 6-week DRF & efficacy study in schizophrenia patients

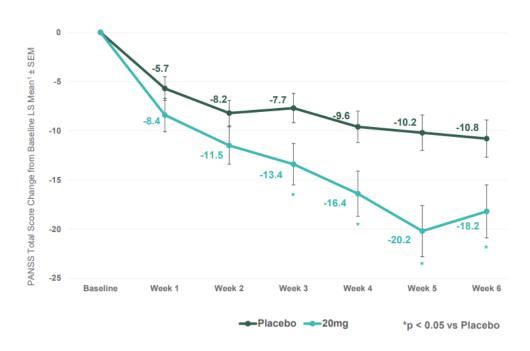
- Objectives:
- Explore different doses, different dosing regimens (with and without titration), once a day, twice a day
- Trial Design:
 - ✓ Adults with PANSS ≥80
 - ✓ Ages 18-55 enrolled at
 - √ 15 US sites (inpatient)
 - ✓ Initial doses 20mg and 40mg
 - 2 blinded safety data interim analyses prior to adding pre-specified doses of 60mg QD and 30mg BID
- Good drug-like properties of NBI-568 supported exploring a significantly broader range of doses above the predicted efficacious dose than all previous M4 competitor molecules.



NXero

Efficacy: Clinically meaningful and statistically significant efficacy at 20mg once daily dose

The placebo effects underpin any differences and are similar to those anticipated in Phase 3 studies



Comparator Efficacy Data at Primary Endpoint

	NBI-568	CVL-231 30mg QD ³	KarXT EMERGENT-1⁴	KarXT EMERGENT-3 ⁵
LS Mean ¹	-18.2	-19.5	-17.4	-20.6
LS Mean ¹ Diff. vs.Pbo	-7.5	-12.7	-11.6	-8.4
Placebo	-10.8	-6.8	-5.9	-12.2
Effect Size ²	0.61	0.68	0.75	0.6

- Significant PANSS total efficacy from week 3 at 20mg dose of NBI-'568
- PANSS Total Effect size comparable to known Muscarinic Programs and all leading Antipsychotics
- Statistically Significant Improvement in Additional Endpoints (CGI-S / Marder scores)

Note: NBI-568 is investigational and not approved for any use by any regulatory body



¹ Least-squares (LS) means are from a MMRM which includes treatment group, visit, and study period as fixed effects; treatment group-by-visit interaction; baseline PANSS total score as a covariate; and subject as a random effect. ² Effect size (Cohen's D) is based on observed data. ³ Krystal et al (2021) Lancet DOI: 10.1016/S0140-6736(22)01990-0 data at week6. ⁴ Brannan et al (2021) N Engl J Med 2021;384:717-726 data at week5. ⁵ Kaul et al (2024) JAMA Psychiatry. 2024;81(8):749–756. doi:10.1001/jamapsychiatry.2024.0785 data at week5

NEUROCRINE® BIOSCIENCES

Safety and AE's: Generally safe and well tolerated at all doses tested

Treatment-Emergent Adverse Events Occurring in ≥ 5% of NBI-'568 All Treated Group

Activation of the muscarinic receptors have been clinically associated with a range of dose limiting AE's that has made drug development challenging

Salivation

Lacrimation

Urinary control

Defecation

Gastrointestinal

Emesis

Typically associated
With peripheral
Cholinergic activity at
The M₂ and M₃ receptors

Consistent with EMERGENT-1 Phase2 and the interim pooled analyses from the long-term, open-label EMERGENT-4 and EMERGENT-5 trials for KarXT

The most common treatment-related AEs in the KarXT group were consistent with the known activity of xanomeline and trospium at muscarinic receptors (nausea / vomiting / constipation)

	Placebo N=70	20mg QD N=40	40mg QD N=39	60mg QD N=34	30mg BID N=27	All Treated N=140
Somnolence	2 (2.9)	5 (12.5)	2 (5.1)	7 (20.6)	1 (3.7)	15 (10.7)
Dizziness	1 (1.4)	5 (12.5)	3 (7.7)	4 (11.8)	1 (3.7)	13 (9.3)
Headache	14 (20.0)	1 (2.5)	5 (12.8)	1 (2.9)	5 (18.5)	12 (8.6)
Nausea	2 (2.9)	2 (5.0)	3 (7.7)	3 (8.8)	0	8 (5.7)
Constipation	2 (2.9)	2 (5.0)	3 (7.7)	1 (2.9)	1 (3.7)	7 (5.0)

5.0% Treatment Discontinuation Rate Due to Adverse Events
Across All NBI-'568 Arms vs. 4.3% For Placebo

NBI-568 was well tolerated across all dose groups

Consistent with improved muscarinic selectivity profile vs.

xanoemline nausea, constipation and other gastrointestinal adverse
events were low in frequency and similar to placebo

No weight gain relative to placebo











Summary: NBI-568 is Positioned for Phase3 in schizophrenia in 1H25

MEUROCRINE BIOSCIENCES

This will be the 1st Nxera Pharma UK SBDD compound to progress into Phase3



Clinically Effective

Efficacy at 20mg dose comparable to all competitors



Good Tolerability

Across all doses tested supporting good future compliance



Improved Convenience

Once daily administration with or without food



Broad Utility

Multiple indications where M4 agonists may be effective

NBI-568 Phase 2 was successful and confirmed a safe, well tolerated and efficacious dose to progress into Phase 3 studies in 1H25



Strong potential for OX₂R agonists as an improved treatment for Narcolepsy Type 1 and beyond

OX2R Narcolepsy Landscape

Market size

- Approximately \$2.0Bn in 2020¹
- Projected to be \$5Bn in US alone by 2026²
- OX2R agonist peak sales forecast of \$3.8Bn³

Pipeline

ORX-142 Centessa ORX-750 NT1/2 Centessa



Discontinued: TAK-994 & TAK-925 (Takeda)

Paused: JZP44DSP-0187 (Jazz/Sumitomo Pharma)

Centessa's recent activities

Acutely Sleep-Deprived Healthy Volunteers (Sep. 10, 2024)

Positive Interim Phase 1 Clinical Data in

- 2.5 mg dose restored normative wakefulness with mean sleep latency of 32 minutes as measured by the Maintenance of Wakefulness Test (MWT)
- Favorable safety and tolerability profile
- PK profile supports once-daily dosing
- Presents Preclinical Data at Sleep Europe 2024 (Sep. 26, 2024)
 - Non-human primate data support ORX142 as novel drug candidate for the treatment of excessive daytime sleepiness (EDS) in select neurological, neurodegenerative, and psychiatric disorders



ORX750





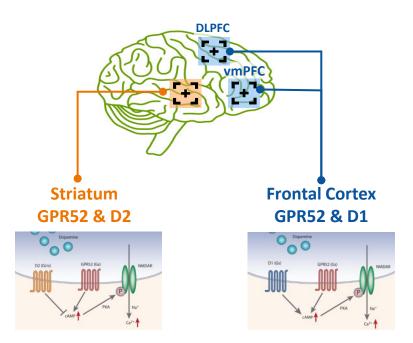


GPR52 Agonist for Schizophrenia

A Novel First-In-Class Mechanism to Treat Positive, Negative & Cognitive Domains of Schizophrenia

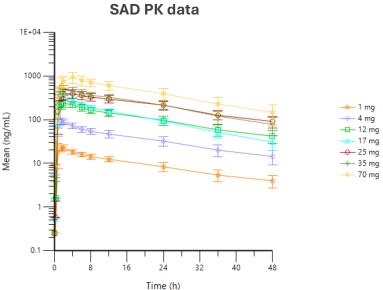
Disease Rationale

- GPR52 is expressed on D2 dopamine neurons in striatum where activation could lead to D2 antagonist-like effect to treat positive symptoms, e.g. hallucinations
- GPR52 also co-located with D1 dopamine receptor in prefrontal cortex where activation could lead to D1 agonist-like effect to improve cognition, e.g. attention



Results So Far

- NXE'149, a first-in-class GPR52 agonist identified using SBDD, is being developed for once-daily oral dosing
- Human PK data in line with preclinical predictions, linear across full dose range with low variability, and consistent with once daily dosing
- Phase 1 MAD study including pharmacodynamic measures now ongoing



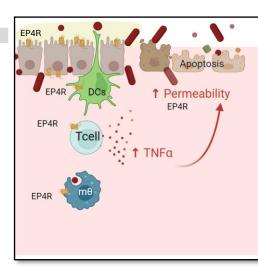


EP4 Agonist for Inflammatory Bowel Disease (IBD)

A First-In-Class GI Targeted Agent to Promote Mucosal Healing in IBD

Disease Rationale

- IBD is an immunological disorder in which current standard-of-care agents have treatment "ceilings" of about 40% response rates.
- All approved IBD agents are immunomodulatory in nature and do not directly target disease-induced mucosal barrier defects.
- Through combined anti-inflammatory and barrier repair effects, EP4
 agonists are expected to bring benefits in IBD by promoting mucosal
 healing.
- Previous attempts to agonise the EP4 receptor have demonstrated early signals of clinical efficacy but have been limited by systemic safety.



Created with BioRender.com

Results So Far

- Novel, potent GI targeted EP4 selective agonist (NXE'744) identified through Nxera's NxWaveTM platform
- Preclinical discovery activities generated a novel gutrestricted agent with rodent efficacy in IBD models and demonstrated specific mechanistic effects in mucosal healing.
- A First-in-Human Phase 1 study, in healthy volunteers, commenced in March 2024, with single ascending dose (SAD) and multiple ascending dose (MAD) cohorts to be undertaken in an overlapping design.
- Dosing has proceeded well with the seventh SAD and the third MAD cohorts currently being dosed.
- No concerning adverse events have been noted to date.
- Further activities to support a Ph 1B/II study start are underway including additional cohorts (e.g. sigmoidoscopy) under the FIH umbrella.

EP4 Ag Study Link:

https://www.isrctn.com/ISRCTN70080074?q=nxera&filters=&sort=&offset=1&totalResults=2&page=1&pageSize=10



EP4 ant.

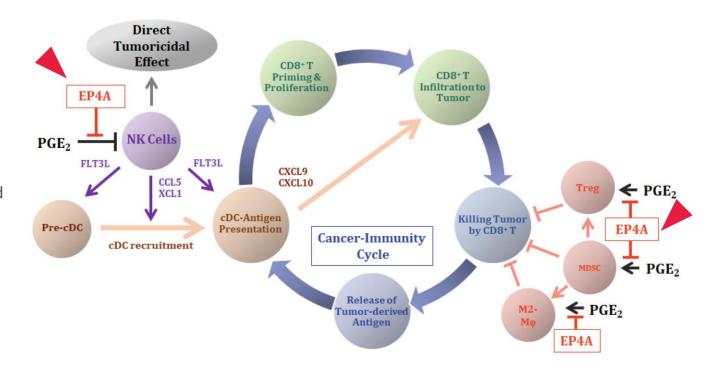
EP4 Antagonism for Advanced Solid Tumours

Alone or in Combination with Checkpoint Inhibitors (CPIs)



Disease Rationale

- PGE2 binds to EP1-4 GPCR receptors with EP4 the most widely distributed
- Prostaglandin E2 (PGE2) is secreted by tumour and surrounding tissue and signals through EP4 to suppress the immune system promoting tumor development and progression
- EP4 antagonism is expected to restore immunosurveillance and enhance the effect of CPIs
- Less than 20% of eligible patients derive benefit from CPIs, meaning there is a great unmet need



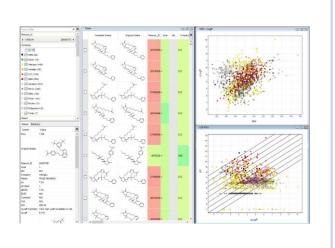


GPCR SBDD: EP4 Receptor Antagonist

NxWaveTM SBDD platform delivering a clinical ready EP4 antagonist

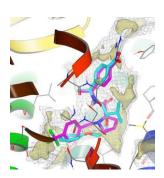
Clinical agents / literature ligands

'Big data' patent & literature extraction Select best ligands to initiate SBDD drug discovery project

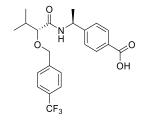




SBDD homologymodel guided hybrid scaffold hopping (H2L phase)



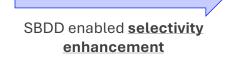
Lead

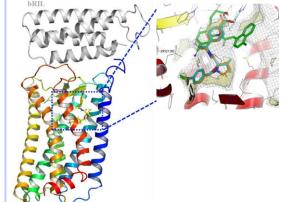


NXE'309

EP4 fpK_B 9.1 EP2 pEC₅₀ 6.0 LLE 5.8

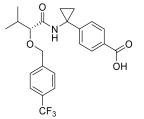
Novel, high efficiency series Low Cl (rat/dog) QD human PK prediction EP2 ago activity





Crystal structure supports binding mode hypothesis and ONO-AE3-208 differentiation

Candidate



NXE0039732

EP4 fpK_B 9.1 EP2 pEC₅₀ 5.1 LLE 5.8

Low Cl (rat/dog) QD human PK prediction <100 mg dose prediction

Identifying the clinical candidate NXE0039372 with our NxWave™ SBDD platform



Human pharmacokinetic and dose predictions for NXE0039732



Candidate Profile

Selected candidate showed excellent profile

High potency

• hEP4≈1nM

High selectivity

• >5000-fold hEP1, hEP2, hEP3

Clean in vitro safety profile

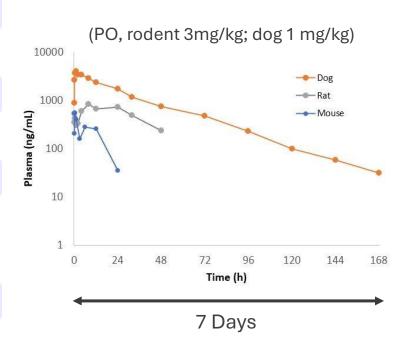
- ✓ General Safety Panel
- ✓ Cardiotoxicity
- ✓ Mutagenicity

Excellent in vitro ADME properties

Pre-clinical PK

Excellent PK profile across 3 species

- low Cl
- long $T_{1/2}$



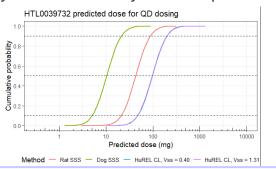
Human Dose Prediction

QD with lower dose is predicted to be sufficient

- Human PK & Dose simulations conducted predicted low Cl & low Vd to meet QD profile
- <100 mg QD predicted to maintain trough IC90 cover
- E7046 (Eisai) prediction 800 mg QD dose to maintain IC₉₀ trough

Predictions to maintain IC₉₀ concentration at trough

 Monte Carlo simulations conducted to quantify probability and uncertainty on each prediction



Excellent clinical candidate with high confidence that predicted human PK supports testing the clinical hypothesis



Synergistic effect of EP4 antagonist in CT-26 syngeneic model of colorectal carcinoma

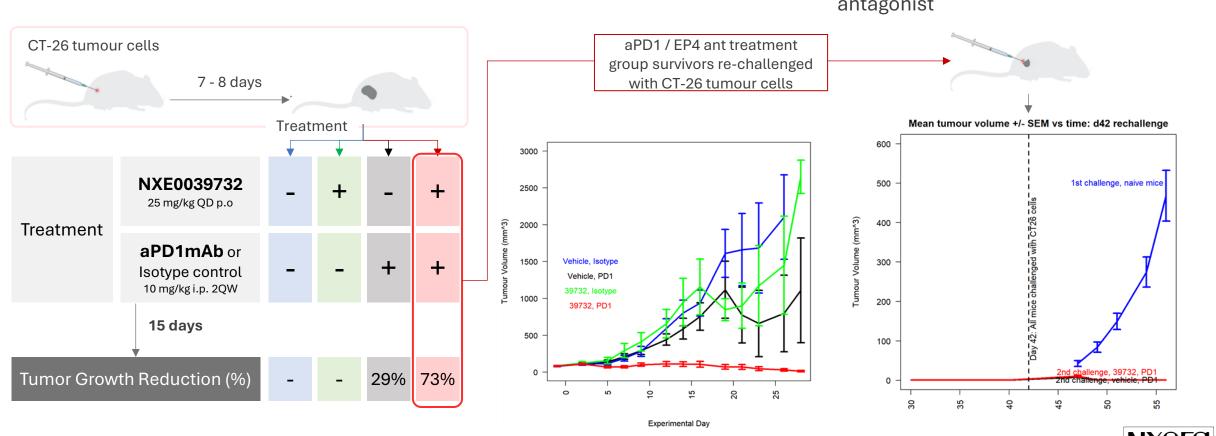
Synergistic activity of PD-1 checkpoint inhibitor and EP4 antagonist provides long lasting anti-tumour immunological memory

Combination efficacy to CT-26 (Colorectal Tumour model) in Mouse

Strong evidence for **combination benefits** of EP4 ant + aPD1 mAb treatments on control of tumour growth

CT-26 Tumour Challenge

Clear long-lasting anti-tumour memory response following treatment with EP4 antagonist



Progressing through Ph1/2a in collaboration with CRUK

ant.

Evaluating anti-tumour activity of NXE0039732 as a monotherapy and in combination with CPI, Atezolizumab



Cancer Research UK presented the study design at ESMO

Nxera's Partner Cancer Research UK to Present on Phase 1/2a Clinical Trial with Cancer Immunotherapy Drug HTL0039732 at ESMO

- HTL0039732 (also known as NXE0039732) is Nxera's novel oral EP4 antagonist with the potential to treat a wide range of cancers in combination with other immunotherapies
- Cancer Research UK's Centre for Drug Development is sponsoring and managing the ongoing Phase 1/2a clinical trial of HTL0039732

Tokyo, Japan and Cambridge and London, UK, 13 September 2024 – Nxera Pharma (TSE: 4565, "Nxera") and Cancer Research UK announce an upcoming presentation on the ongoing Phase 1/2a clinical trial (NCT05944237) of Nxera's immunotherapy drug HTL0039732 (also known as NXE0039732) at the European Society for Medical Oncology Congress (ESMO) 2024, taking place on 13–17 September in Barcelona, Spain.

The trial's co-chief investigator, Dr. Debashis Sarker from Guy's and St Thomas' NHS Foundation Trust, will present a "Trial in Progress[1]" poster at ESMO 2024 on Saturday 14 September (presentation 679TiP, available on the ESMO website <a href="https://example.com/heres/her

The first-in-human trial is evaluating the safety, tolerability, pharmacokinetics, pharmacodynamics and anti-tumor activity of HTL0039732 as a monotherapy and in combination with the checkpoint inhibitor atezolizumab, in patients with advanced solid tumors.

HTL0039732 is an oral small molecule drug candidate that was rationally designed using Nxera's NxWave™ platform and evaluated through rigorous translational and preclinical studies. HTL0039732 works by blocking signaling through a specific type of prostaglandin receptor, the prostaglandin E2 (PGE2)-type prostanoid receptor 4 (EP4). PGE2 acts in the tumor microenvironment to trigger cancer cells to evade the immune system. Targeting EP4 to block the effects of PGE2 increases the ability of the immune system to detect and control cancer cells and makes HTL0039732 a potential candidate to treat patients with cancers that generally do not respond well to current immunotherapies.

Cancer Research UK's Centre for Drug Development is sponsoring and managing the trial, which is led by chief investigator Dr Bristi Basu, University of Cambridge, and Dr Sarker. The first patient was dosed in August 2023 and the trial is currently open for recruitment at Addenbrooke's Hospital in Cambridge, Guy's Hospital in London, and the Christie Hospital in Manchester.

Results So Far (presented at ESMO)

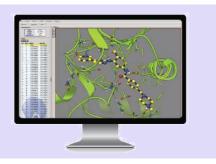
- Clinical trial enrolment began 2023 and is ongoing in the UK
- Monotherapy escalation (Part A) has completed without DLTs
- Combination escalation (Part B) has now completed recruitment
- PK is in line with predictions and exhibits general dose proportionality across all dose level
- Target engagement has been observed at all dose levels tested. Additional PD analysis, including evaluation of paired biopsies for infiltration, is underway
- Toxicities, where these have occurred, have generally been mild (Grade 1-2) and resolved without dose interruption
- Preparation for Phase 2a is ongoing



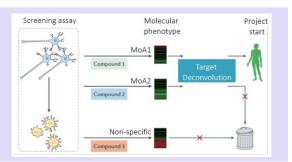


Repeatable approach to mining for next generation targets

In Silico



Phenotypic Screening



- Why?
- To identify new GPCR drug targets across multiple disease types

 To identify new GPCR drug targets through use of disease specific assay systems

- How?
- Using 'big-data' and precision medicine to identify molecular signatures of disease and potential patient stratification opportunities
- Use ML to identify influential drivers of disease, finding patterns to model non-linear biology
- Testing a curated compound library covering 270 GPCRs in various disease relevant phenotypic screening assay systems (ideally human)

- What?
- Approach can be applied to multiple disease indications: scalable methodology
- Demonstrate disease relevant functional responses
- Approach already used to identify tractable GPCR targets in IBD and currently under investigation in neurological disease

Partner





KALLYOPE



Scalable AI-Genetics approach to mining for next generation targets

Nxera Pharma and PrecisionLife expand strategic partnership in auto-immune disorders to identify new drug targets and patient stratification biomarkers for complex, chronic conditions



Why?

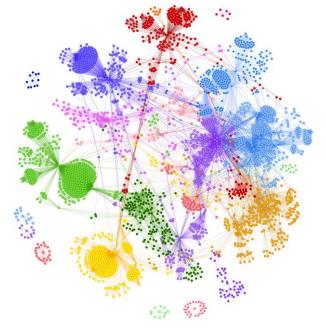
- Identifies novel GPCR drug targets, strongly associated with patient subgroups in heterogeneous populations across and between genes
- Autoimmune diseases are enormously complex, caused by genetic and environmental factors
- PrecisionLife uses combinatorial analytics to find non-linear interactions between genes that drive disease biology
- PrecisionLife focuses on mechanism providing uniquely actionable insights across the value chain:

How?

- ✓ **Target Identification** allows selection of innovative novel drug targets that are drivers of disease biology with supporting genetic evidence
- ✓ **Development** patient stratification biomarkers to refine clinical trial design
- ✓ Healthcare identification of responders supports payer discussion, launch and prescriptions

What?

- 1st indication under review is Rheumatoid Arthritis with potential to expand to additional auto-immune indications
- Highly scalable novel insights into 50+ diseases including CNS and auto-immune conditions



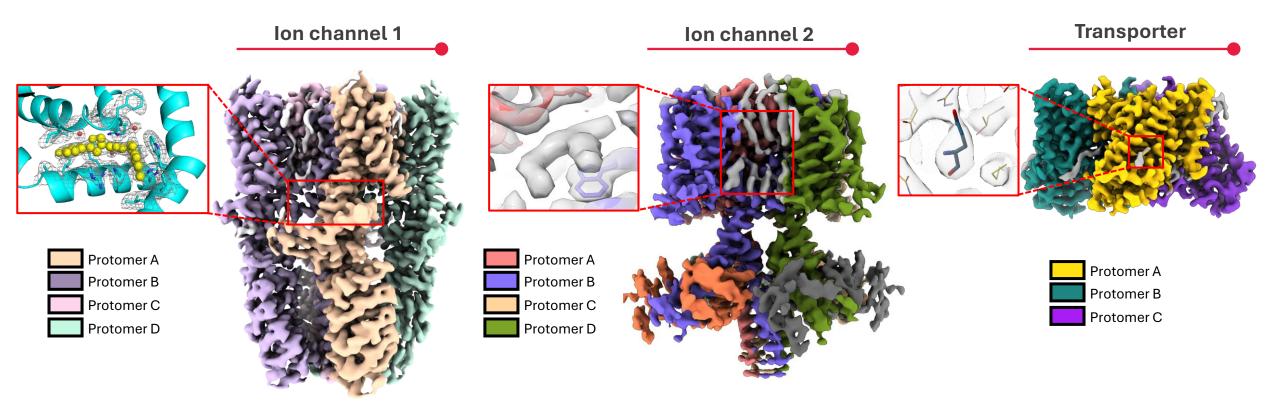
PrecisionLife's mechanism-based stratification example

Circles represent SNPs, **lines** indicate co-occurrence in >20% of patients. **Colours** represent different patient subgroups who share a specific mechanism driving their disease.

This helps select the best targets.



Structure-Based Drug Discovery at other integral membrane protein target classes



- Use of in-house state-of-the-art membrane protein biochemistry to produce high quality protein reagents for functional and structural studies
- Multiple high resolution cryo-EM structures determined of liganded ion channels and transporter
- Establishment of network of trusted CRO to conduct electrophysiology experiments

NxWaveTM SBDD platform delivering atomic resolution structures of liganded ion channels and transporters.



Designing Next Generation GPCR Antibody Therapeutics

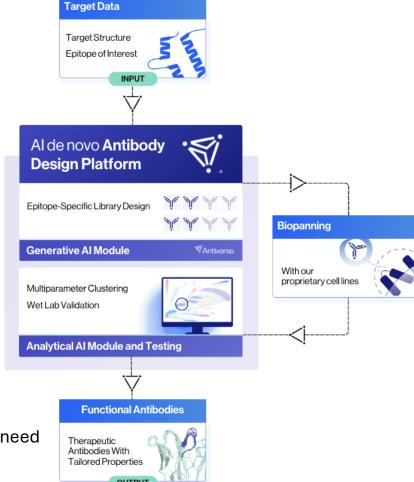
Nxera Pharma and Antiverse Enter Collaboration To Design Novel GPCR-Targeted Antibody Therapeutics Using Generative AI

Why?

- Antibodies present an exciting opportunity for tackling GPCRs by offering high specificity and target occupancy with the potential of more convenient dosing regimens versus other modalities
- Nxera's NxStaR proteins have been utilised as antigens in the successful discovery of highly selective and potent antibodies

The collaboration will combine:

- Nxera's NxWave™ platform, a powerful tool for GPCR target selection, validation and structure determination
- How?
- Antiverse's Al de novo Antibody Design Platform, which enables the rapid design of antibodies with tailored properties at scale – including epitope specificity, functionality, species cross-reactivity and enhanced affinity
- Developed over 7 years, Antiverse's platform integrates proprietary datasets and a multi-model, multi-step approach to efficiently generate and filter high-quality antibodies
- A multi-target partnership and licensing agreement to target diseases of high unmet need by leveraging NxStaRs in combination with Antiverse's AI design approaches
- The first project will be aimed at designing antibodies with agonist function for a challenging GPCR target



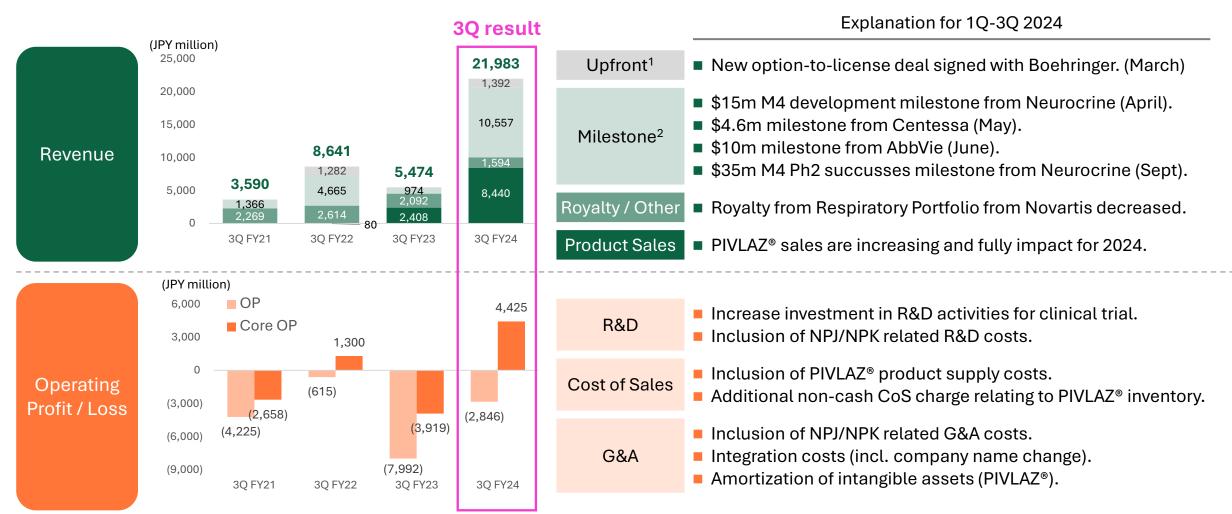






Key financial indicators

Full impact of NPJ/NPK product sales and cost base reflected in FY2024



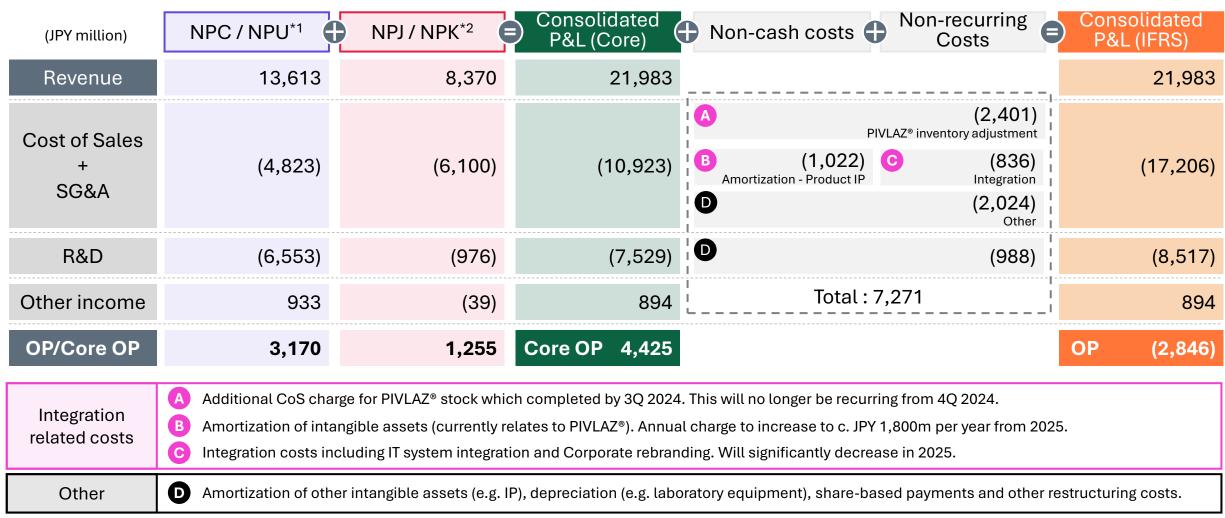
¹ Upfront fee revenue recognised at deal inception



² Milestone revenue recognised at milestone event + deferred revenue releases

Breakdown of 3Q 2024 result

Impact of Non-cash/Non-recurring costs on full-year result is more significant in 2024 due to the inclusion of Idorsia businesses



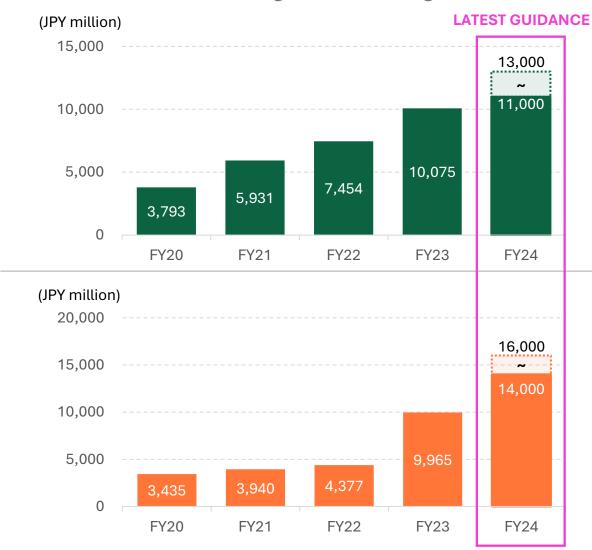
^{*1 =} Nxera Pharma Co. Ltd. (formerly Sosei Group Corporation) + Nxera Pharma UK Ltd (formerly Heptares Therapeutics Ltd.) + Sosei K.K

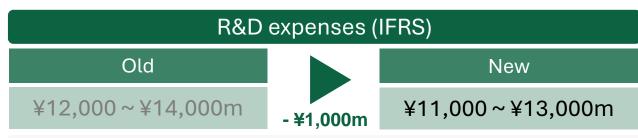


^{*2 =} Nxera Pharma Japan (formerly Idorsia Pharmaceuticals Japan) + Nxera Pharma Korea (formerly Idorsia Pharmaceuticals Korea)

Full year cost guidance

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





Major points on FY24

- Investment in discovery and translational medicine capabilities.
- 1 clinical trial initiated for in-house program (EP4 ag.)
- Advancing in-house programs further through the clinic will deliver higher out-licensing revenues

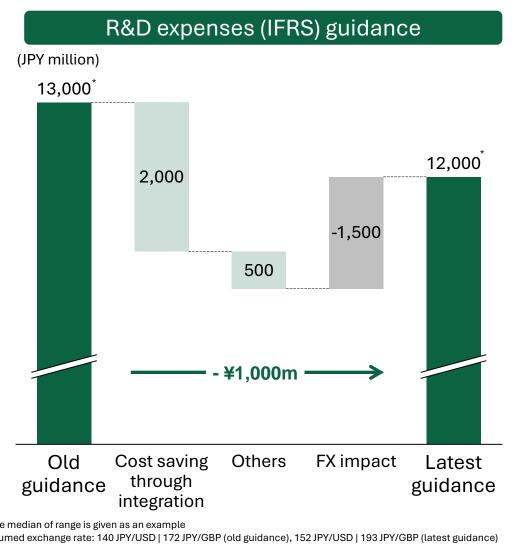


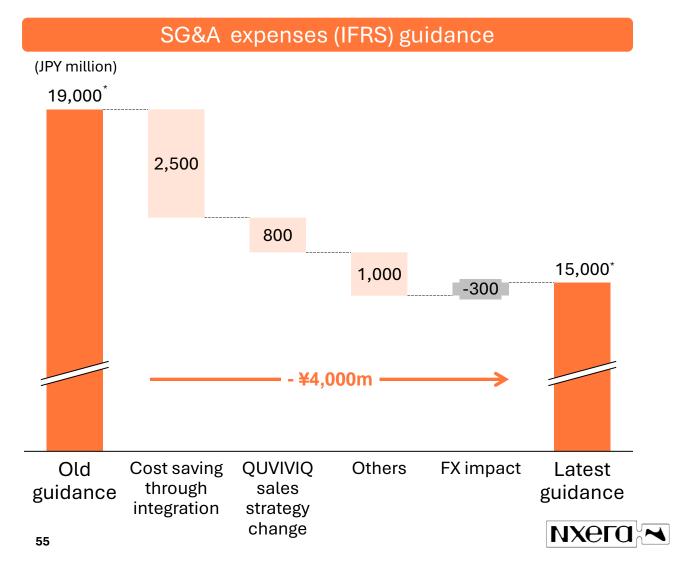
Major points on FY24

- Includes NPJ¹/NPK² SG&A costs for a full year.
- Increase in support for PIVLAZ® to drive growth.
- Increase in amortization charge for PIVLAZ® and QUVIVIQ™(c. ¥1,600m)
- PMI relating costs for NPJ/NPK (c. ¥1,000m)

Cost expenses guidance gap vs. beginning of FY24

We expect downward trend in SG&A expenses to continue through optimization in 2025



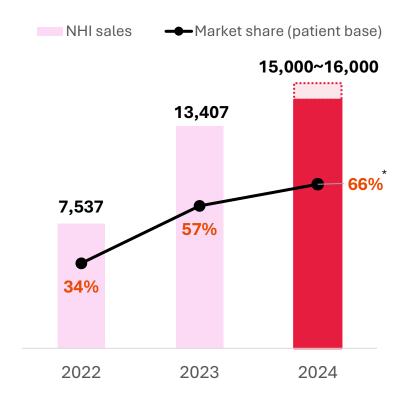


PIVLAZ® sales guidance update

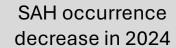
Updated sales guidance due to SAH occurrence decrease and cancellation of inventory adjustment plan

Sales guidance of PIVLAZ®

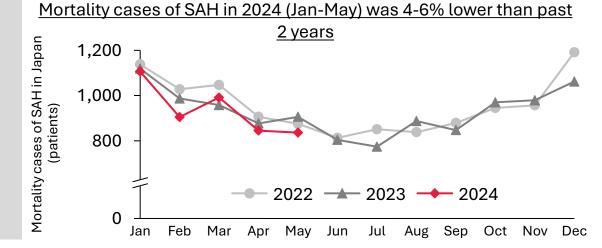
Updated sales guidance though PIVLAZ's market share is continuously growing



Background of sales guidance update



c. JPY800m



Optimization of year-end inventory

c. JPY200m 👢

2023

In anticipation of increasing demand over the year-end and New Year period, the inventory for distributor was adjusted (excess of <u>c.</u> <u>JPY 200 million</u> than monthly forecast)

2024

Inventory adjustment was cancelled based on the track records in 2022-2023







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	S1P1 receptor modulator	Systemic lupus erythematosus	Phase 3	
Opt-in Right	Lucerastat	Glucosylceramide synthase inhibitor	Fabry disease	Phase 3	
	ACT-1004-1239	ACKR3 / CXCR7 antagonist	Multiple sclerosis and other demyelinating diseases	Phase 2*	APAC
ROFR	ACT-1014-6470	C5aR1 antagonist	Immune-mediated disorders	Phase 1*	(ex-China) ²
/ROFN 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

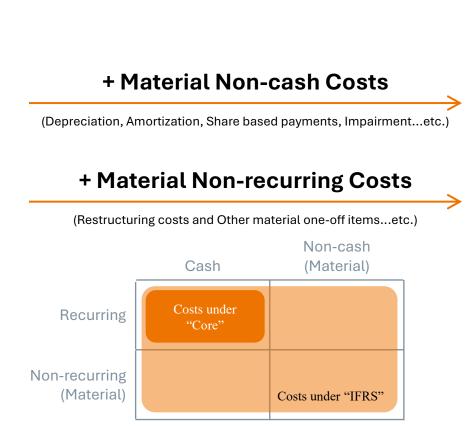
^{*} Global Phase

Core Operating Profit - Definition

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

"Core"

- Core Operating Profit/ Loss is a key financial indicator that highlights the underlying recurring cash generating capability of our business.
- Core Operating Profit/Loss 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, M&A related professional fees and other material one-off items.



Operating Profit

"IFRS"

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



ихега

Estimation of potential market size

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

2	1. 1	Number of			
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, GPR52 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
Other	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). Nxera may target one segment in the market for specific diseases. 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.

Partnered pipeline (1/2)

Compound	Target / Mechanism of Action	Modality	Indication	Partner	Disc.	PCC	Ph1	Ph2	Ph3	Арр	Mkt
Partnered											
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	Alisamitsu							
NBI-1117568	Muscarinic M4 agonist	SME	Schizophrenia	NEUROCRINE' BIOSCIENCES					ı		
NBI-1117569	Muscarinic M4 preferring agonist	SME	Neurology diseases	NEUROCRINE' BIOSCIENCES							
NBI-1117570	Muscarinic M1/M4 agonist	SME	Neurology diseases	S NEUROCRINE' BIOSCIENCES							
NBI-1117567	Muscarinic M1 preferring agonist	SME	Neurology diseases	S NEUROCRINE' BIOSCIENCES							
PF-07054894	CCR6 antagonist	SME	Inflammatory bowel disease	₹ Pfizer							
PF-07258669	MC4 antagonist	SME	Malnutrition	P fizer							
PF-06954522	GLP-1 agonist	SME	Type 2 Diabetes	P fizer							
(Not disclosed)	CGRP antagonist	SME	Neurology diseases	₹ Pfizer							
(Not disclosed)	Multi target	SME/LME	Multiple indications	Genentech A Member of the Roche Group	_						
(Not disclosed)	Multi target	SME	Neurology	abbvie							
(Not disclosed)	Multi target	SME	Diabetes/Metabolic	Lilly							



Partnered pipeline (2/2)

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 AI-powered	SME/LME	Immune diseases	<u>v</u> erily	_						
(Not disclosed)	Gut-brain axis drug discovery	SME	Gastrointestinal disorders	KALLYOPE	_						
Co-owned compan	ies										
TMP301	mGlu5 NAM	SME	Substance use disorders	TEMPERO BIO"							
ORX750	OX2 agonist (Oral)	SME	Narcolepsy	CENTESSA Porexia							
ORX142	OX2 agonist (Oral)	SME	EDS in neurology	CENTESSA Therapeutics							



In-house pipeline

Compound	Target / Mechanism	Modality	Indication	Partner		Disc.	PCC	Ph1	Ph2	Ph3	Арр	Mkt
In-house Programs												
PIVLAZ®	ETA antagonist	SME	Cerebral vasospasm	ихега¦~								
$QUVIVIQ^TM$	Dual Orexin antagonist	SME	Insomnia	ихега:~	_							
NXE0048149 ¹	GPR52 agonist	SME	Schizophrenia	ихега:~	Boehringer Ingelheim			_				
NXE0039732	EP4 antagonist	SME	Immuno-oncology	ихега¦~				_				
NXE0033744	EP4 agonist	SME	Inflammatory bowel disease	ихега:~				_				
NXE0027477	GPR35 agonist	SME	Inflammatory bowel disease	ихега¦~								
(Not disclosed)	Muscarinic M1 agonist (JP)	SME	Neurology diseases	ихега¦~			_					
(Not disclosed)	SARS CoV-2 Mpro	SME	Coronaviruses	ихега¦∼		_						
Multiple programs	Not disclosed	SME/LME	Neurology diseases	ихега 🛰		_						
Multiple programs	Not disclosed	SME/LME	GI and Inflammatory diseases	ихега 🛰		_						
Multiple programs	Not disclosed	SME/LME	Immunology diseases	NX6LG¦✓		_						
In-house Programs (No	longer internally funded. Targe	eting acader	nic / industrial partnership)									
NXE'310	SSTR5 agonist	Peptide	Hypoglycaemic disorders	ихега:~								
NXE'097	GLP-1 antagonist	Peptide	Hypoglycaemic disorders	ихега:~								
NXE'023	Dual GLP-2/GLP-1 agonist	Peptide	Intestinal failure/NASH	ихега¦∾								
(Not disclosed)	Apelin agonist	Peptide	Pulmonary Arterial Hypertension	ихега¦~								
NXE'641	Dual orexin antagonist	SME	Insomnia and sleep disorders	ихега¦~								
(Not disclosed)	PAR-2 mAb	mAb	Atopic Dermatitis/Pain	ихега¦~			_					



Glossary

		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
NxStaR	Stabilized Receptor	Nxera' 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
Ag	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
POM	Proof of Mechanism	Proof of mechanism of action, mainly through biomarkers. It can suggest the possibility of efficacy in fewer cases than POC
POC	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
IND	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.
Ph2	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						
LAMA	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.						
LABA	Long Acting Beta2-Agonist	An inhalant that improves respiratory function by stimulating sympathetic beta2 receptors to dilate the bronchi.					
ICS	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.					
mCRPC	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.					
COPD	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 dementia.					







Midtown East, 9-7-2 Akasaka Minato-ku Tokyo 107-0052

Japan



F17, 410 Teheran-Ro GangHam-Gu Seoul 06192

South Korea



Steinmetz Building
Granta Park,
Cambridge
CB21 6DG

United Kingdom



Spaces Grosspeter Tower, Grosspeteranlage 29, 4052 Basel

Switzerland