



Roche



Roche Pharma Day 2024

London, 30 September 2024



This presentation contains certain forward-looking statements. These forward-looking statements may be identified by words such as ‘believes’, ‘expects’, ‘anticipates’, ‘projects’, ‘intends’, ‘should’, ‘seeks’, ‘estimates’, ‘future’ or similar expressions or by discussion of, among other things, strategy, goals, plans or intentions. Various factors may cause actual results to differ materially in the future from those reflected in forward-looking statements contained in this presentation, among others:

- 1 pricing and product initiatives of competitors;
- 2 legislative and regulatory developments and economic conditions;
- 3 delay or inability in obtaining regulatory approvals or bringing products to market;
- 4 fluctuations in currency exchange rates and general financial market conditions;
- 5 uncertainties in the discovery, development or marketing of new products or new uses of existing products, including without limitation negative results of clinical trials or research projects, unexpected side-effects of pipeline or marketed products;
- 6 increased government pricing pressures;
- 7 interruptions in production;
- 8 loss of or inability to obtain adequate protection for intellectual property rights;
- 9 litigation;
- 10 loss of key executives or other employees; and
- 11 adverse publicity and news coverage.

Any statements regarding earnings per share growth is not a profit forecast and should not be interpreted to mean that Roche’s earnings or earnings per share for this year or any subsequent period will necessarily match or exceed the historical published earnings or earnings per share of Roche.

For marketed products discussed in this presentation, please see full prescribing information on our website www.roche.com

All mentioned trademarks are legally protected.



Welcome

Bruno Eschli

Head of Investor Relations

Agenda: Pharma Day 2024

Strategy	Introduction	09:30 BST	Bruno Eschli, Head of Investor Relations
	Group		Thomas Schinecker, CEO Roche Group
	Pharma		Teresa Graham, CEO Roche Pharmaceuticals
	R&D Excellence		Levi Garraway, CMO and Global Head of Product Development
		11:10-11:40	Q&A – Strategy
	11:40-12:30	Lunch Break	
Pipeline	Oncology/Hematology	12:30 BST	Charles Fuchs, SVP and Global Head of Oncology and Hematology Product Development
	Neurology		Azad Bonni, SVP and Global Head of Neuroscience & Rare Diseases at pRED
	Immunology		Larry Tsai, SVP and Global Head of Immunology Product Development
	Ophthalmology		Christopher Brittain, SVP and Global Head of Ophthalmology Product Development
	Cardiovascular, Renal and Metabolism		Manu Chakravarthy, SVP and Global Head of Cardiovascular, Renal and Metabolism Product Development
		14:00-14:30	Q&A - Pipeline
	14:30-15:00	Buffet reception	



Group

Thomas Schinecker
CEO Roche Group

Performance and growth outlook

Strategy update

Progress made since Pharma Day 2023

Significant progress for operational efficiency, deals and pipeline achieved



Internal innovation



External innovation



Operational efficiency

	Internal innovation	External innovation	Operational efficiency
Pharma	<p>2 NMEs launched</p> <p>11 regulatory approvals</p>	<ul style="list-style-type: none"> • Telavant (anti-TL1A) • Carmot (CT-388/868/996) • Regor (CDKi portfolio) • AntlerA (Wnt agonist) 	<ul style="list-style-type: none"> • R&D Excellence: Application of the Bar and portfolio prioritization • REDs/ PD: Systems and processes harmonization; structure alignment with 5 Therapeutic Areas • Manufacturing network optimization, incl. Vacaville divestment
Diagnostics	<p>5 instruments launched</p> <p>39 assays launched</p> <p>>50% of FDA PMA/BLA approvals*</p>	<ul style="list-style-type: none"> • LumiraDx (PoC testing platform) 	<ul style="list-style-type: none"> • Diabetes Care & PoC integration into Near Patient Care • Shift of FMI to Diagnostics

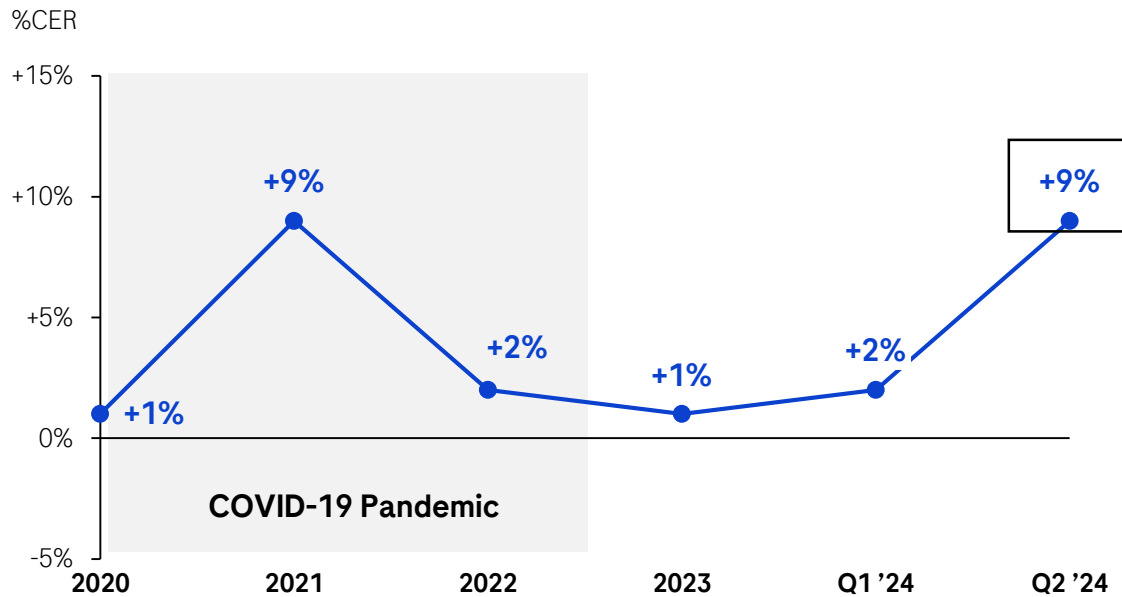
HY 2024 results prove our commitment to cost control and financial stability

*From 2019 to YTD 2024; CDK=Cyclin-dependent kinase; TL1A=TNF-like protein 1A; PoC=point of care

Sales momentum expected to continue into 2025

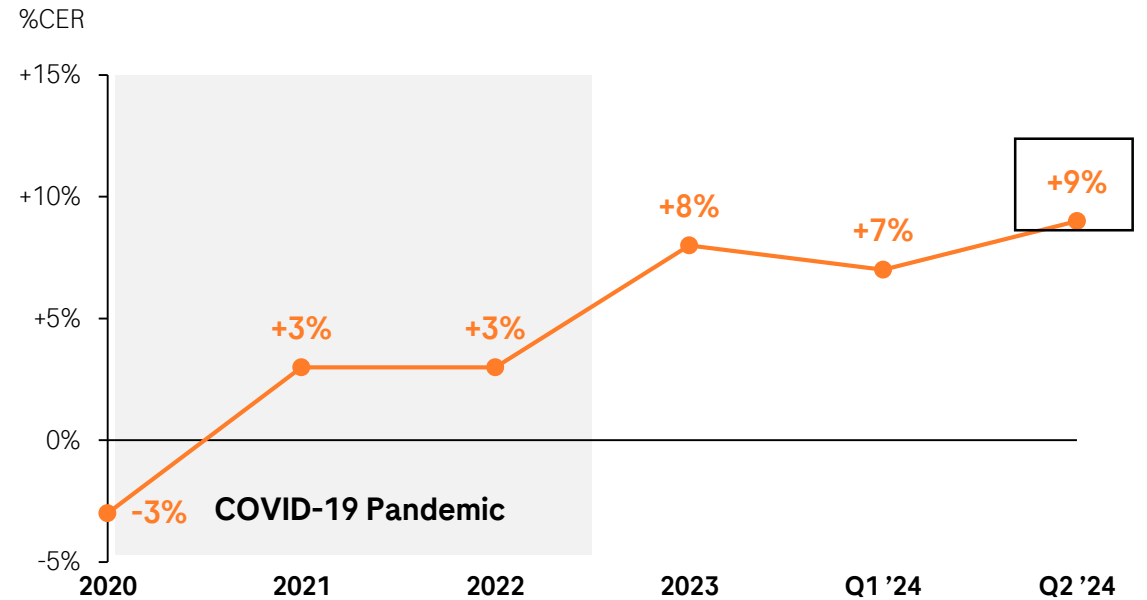
Strong growth by both divisions: Pharma and Diagnostics

Group sales growth



Total COVID-19 sales of CHF ~19bn²

Group base business sales growth excluding COVID related sales¹



No significant COVID-19 impact going forward

All growth rates at CER of the respective year; 1. Base business=Pharma excluding Ronapreve and Diagnostics excluding COVID-19-related products; 2. COVID-19 sales referring to COVID-19 diagnostic tests, Ronapreve and Actemra sales

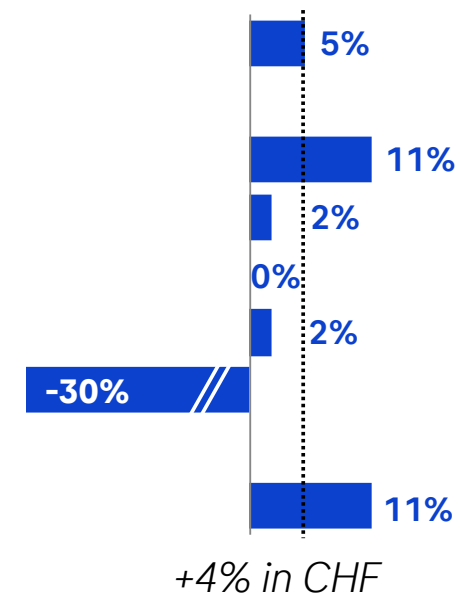
Positive Core Operating Profit momentum

Higher sales and effective cost management resulting in strong performance

	HY 2024	
	CHFm	abs. CER
Sales	29,848	+1,515
Other revenue	908	+94
Cost of sales	-7,300	-168
R&D	-6,268	-21
SG&A	-6,376	-96
OOI&E	481	-212
Core operating profit	11,293	+1,113
<i>Core OP in % of sales</i>	37.8%	
<i>At CER</i>	38.2%	
	<i>(HY 2023: 36.3%)</i>	

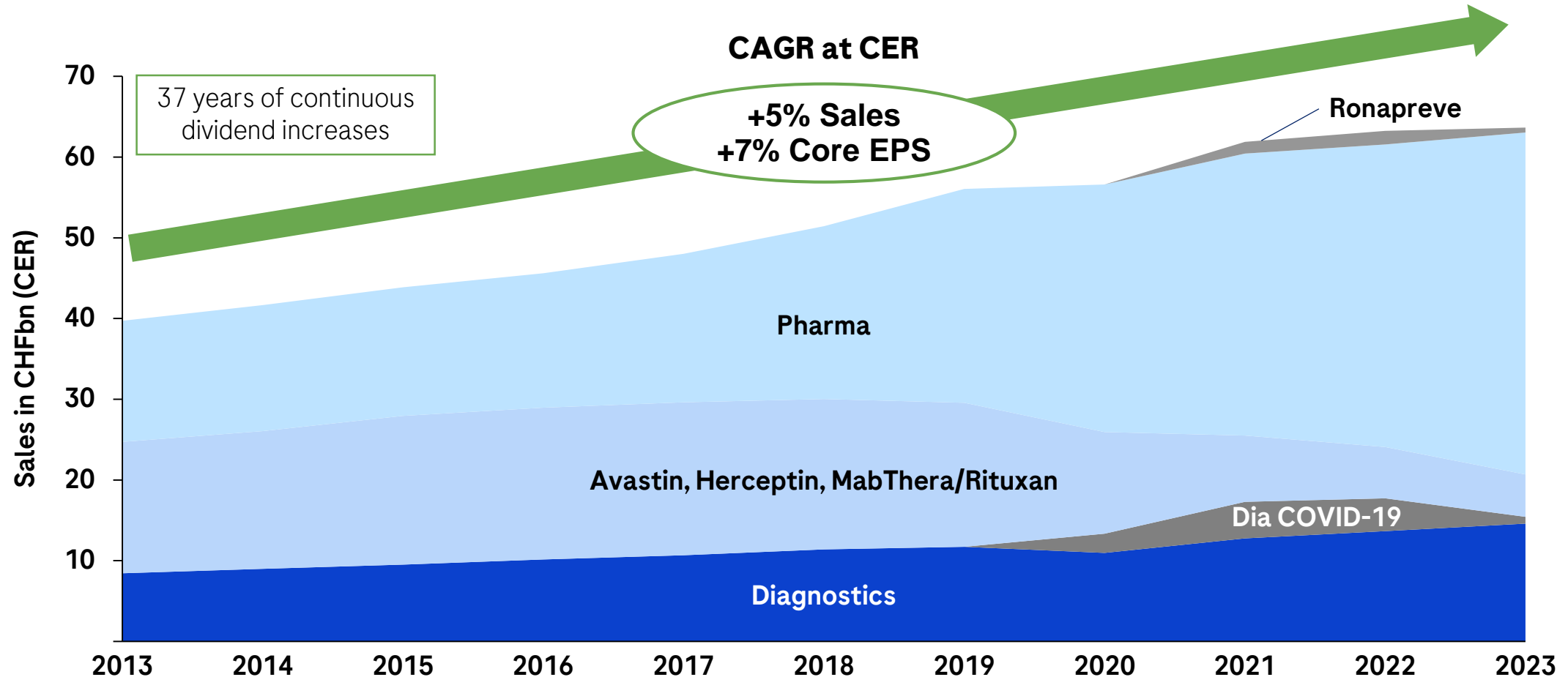
HY 2024 vs. HY 2023

CER growth



Roche delivered consistent growth through biosimilar erosion

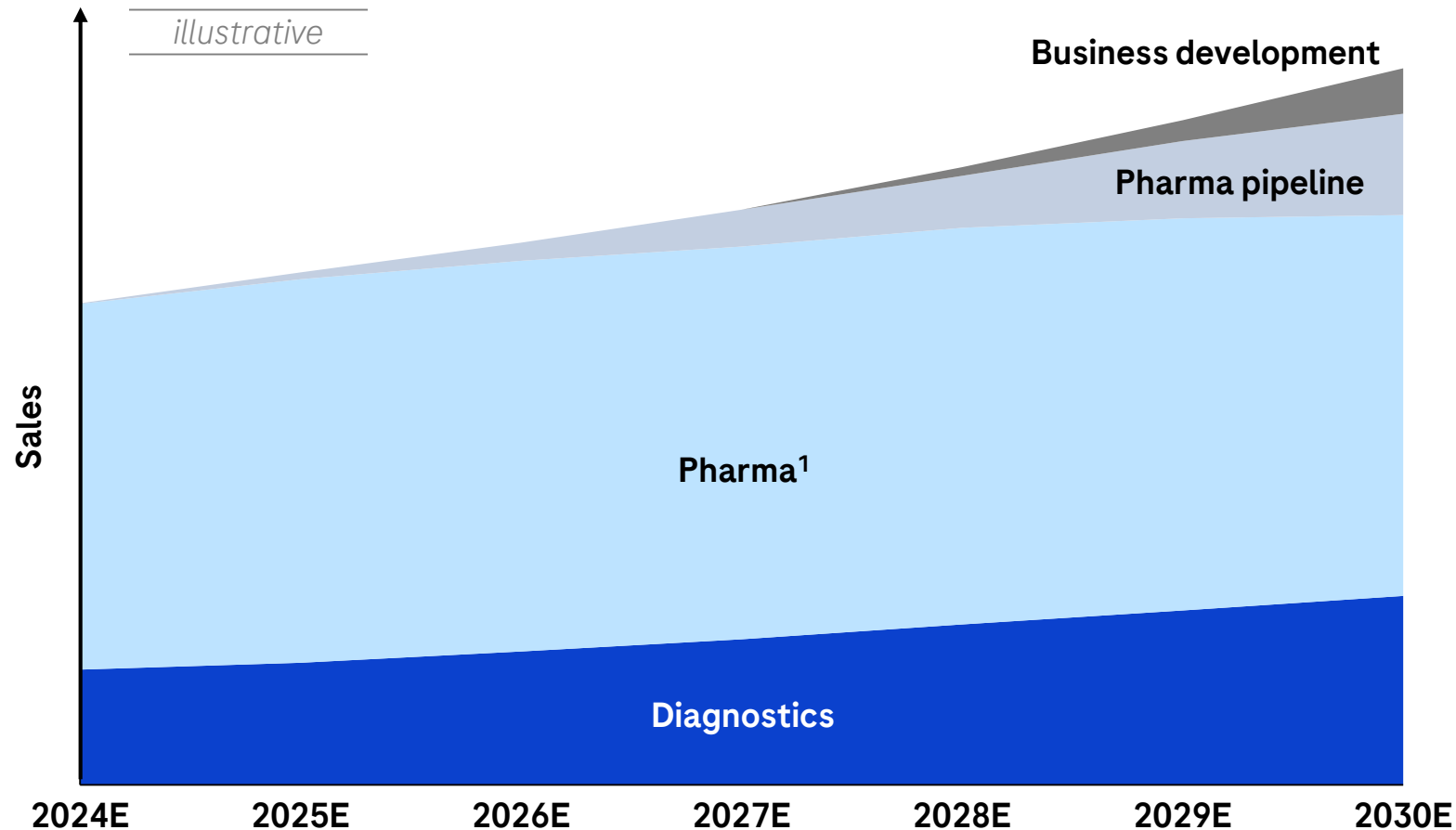
Successful diversification driven by young portfolio with 16 blockbusters in Pharma



Note: FMI sales with Pharma Division for all years; CAGR based on CER growth rates of each year; CAGR=Compound Annual Growth Rate; CER=Constant Exchange Rates (avg full year 2022); Source: Roche Finance Report 2013-2023

A solid base to deliver future growth

Pipeline and business development to add significant upside potential



- BD to accelerate pipeline portfolio

- In-house pipeline with upside potential

- On-market Pharma portfolio to deliver growth until 2027
- No patent cliff ahead
- COP margins at least stable

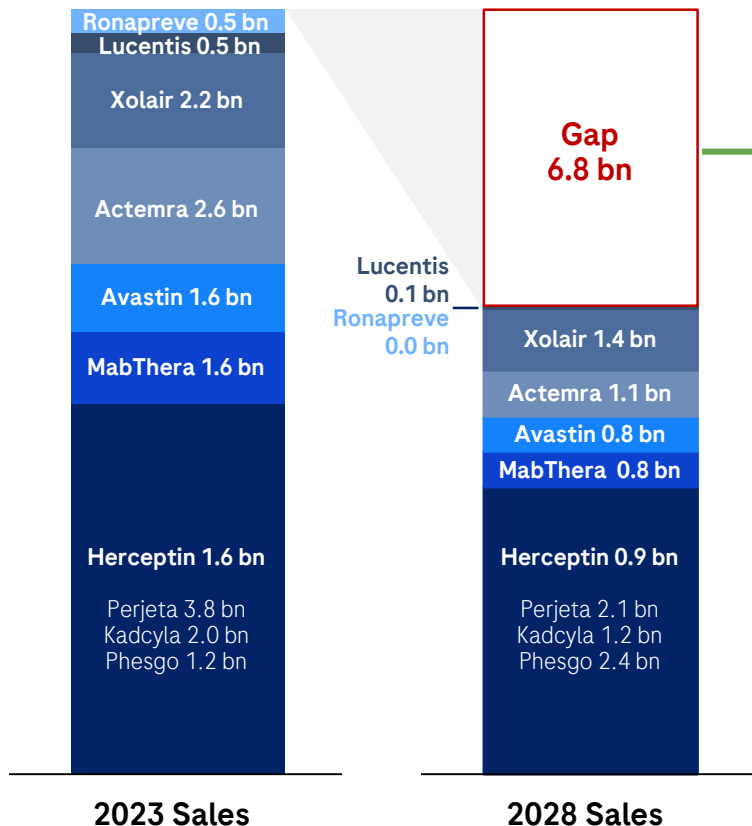
- Diagnostics growth driven by on-market portfolio and key launches
- Mid- to high-single digit sales growth
- COP growth ahead of sales growth

Note: Graph is purely conceptual to outline portfolio trends; ¹ Pharma: On-market portfolio including young portfolio (products launched since end of 2015); COP=core operating profit

Consensus outlook 2023-28*

Growth driven by our young on-market portfolio; potential pipeline up-side

Biosimilar gap (23-28)



Consensus sales growth (23-28)

Vabysmo	4.6 bn
Ocrevus	1.5 bn
Polivy	1.3 bn
Columvi	1.1 bn
Hemlibra	0.9 bn
Evrysdi	0.9 bn
Elevidys ¹	0.6 bn
Lunsumio	0.6 bn
Gazyva	0.6 bn
Tecentriq	0.5 bn
Alecensa	0.4 bn
PiaSky	0.3 bn
Susvimo	0.3 bn
Enspryng	0.3 bn
Other in-market ²	(0.1) bn
Pipeline Ph III³	3.7 bn
<i>thereof giredestrant</i>	1.0 bn
<i>thereof inavolisib</i>	0.8 bn
<i>thereof tiragolumab</i>	0.6 bn
<i>thereof fenebrutinib</i>	0.5 bn
<i>thereof anti-TL 1A mAb</i>	0.3 bn
<i>thereof astegolimab</i>	0.3 bn
<i>thereof SPK-8011</i>	0.3 bn
Total	17.5 bn

Potential up-side 2025+

Assets with low to no coverage in current sell side models (first assets could launch as early as 2025):

Oncology/Hematology: divarasin in NSCLC; NXT007 in HemA; P-BCMA-ALLO1 in r/r MM; P-CD19 x CD20 - ALLO1 in heme tumors; autogene cevumeran in solid tumors

Neurology: prasinezumab in PD; anti-latent myostatin mAb in SMA & FSHD; trontinemab in AD; gamma-secretase modulator in AD

Immunology: Gazyva in LN; ASO Factor B in IgAN

Ophthalmology: vamikibart in DME & UME; satralizumab in TED

Cardiovascular & Metabolism: CT-388/868/996 in diabetes & obesity; zilebesiran in hypertension

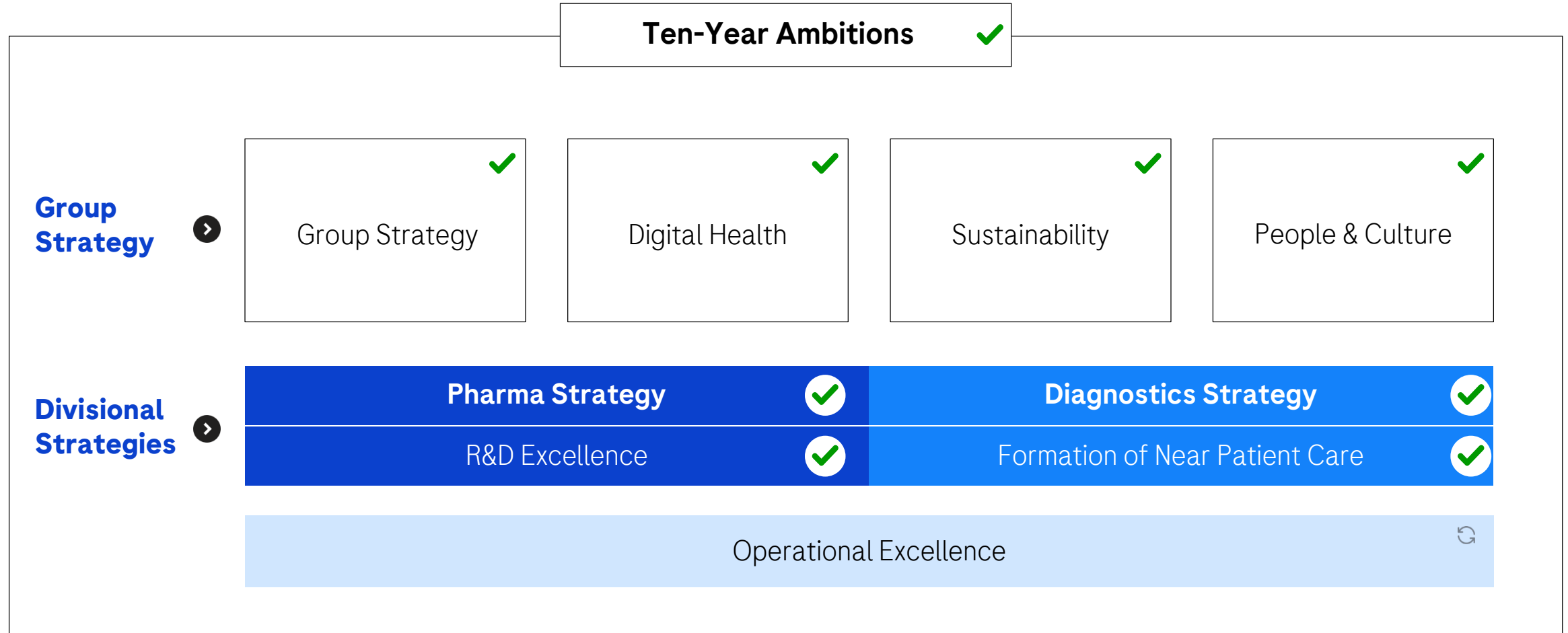
*All estimates are based on Post HY 2024 consensus collected by FTI Consulting on behalf of Roche (n=20); ¹Elevidys consensus sales growth ex-US; ²Activase/TnKase, Pulmozyme, CellCept, Xofluzo, Rozlytrek, Mircera; ³included in >50% of sell-side models

Performance and growth outlook

Strategy update

Overview of key strategic initiatives




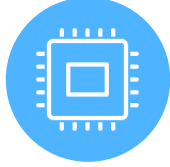
Significant progress made across the entire organization



Status: Ongoing Defined

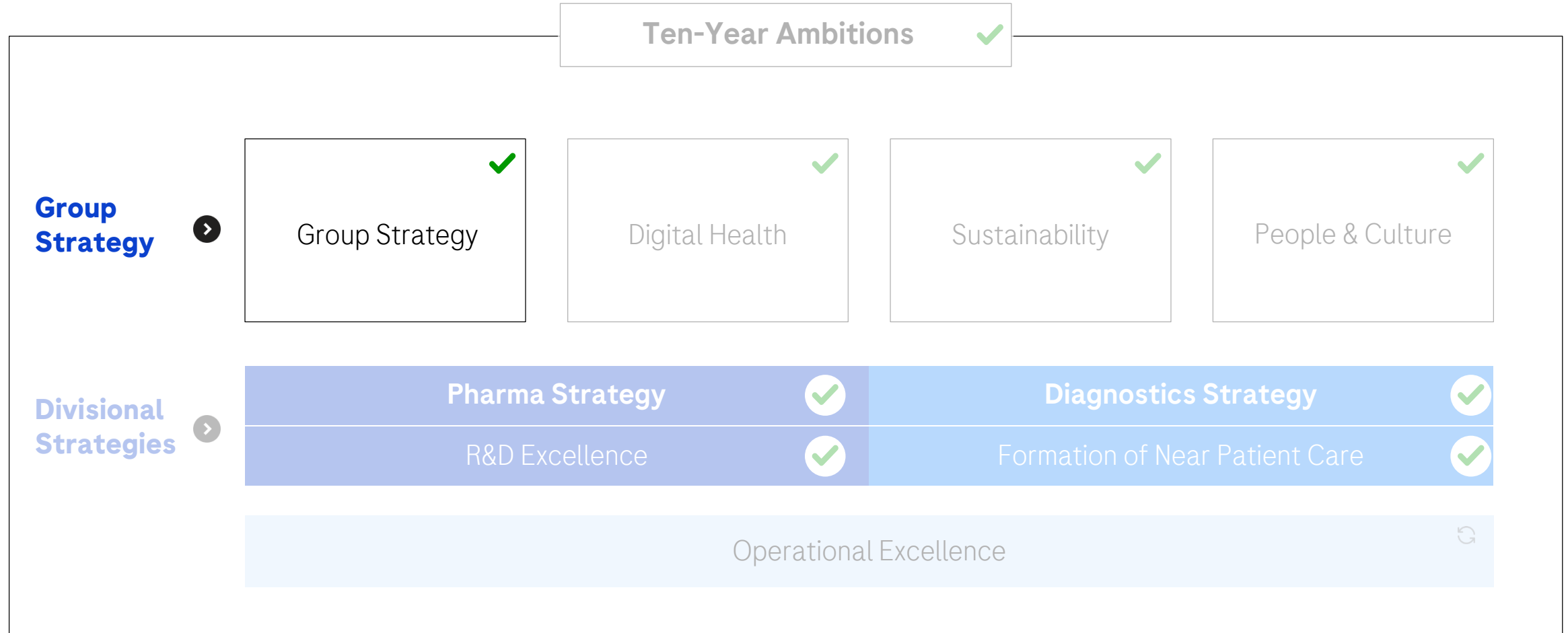
The future of healthcare: Our Ten-Year Ambitions 2020-2029

Updated ambitions outline our aspirational long-term objectives

	Ten-Year Ambitions	Long-term objectives
 Group	Innovate across the patient journey to improve outcomes <i>Updated</i>	<ul style="list-style-type: none"> • Combine Diagnostics & Pharma strengths to address unmet needs along the entire patient journey • Realize synergies in every part of the value chain
 Pharma	Deliver 20 transformative medicines addressing diseases with the highest societal burden <i>Updated</i>	<ul style="list-style-type: none"> • Launch 2 transformational medicines p.a. • Build industry leading R&D engine and pipeline
 Diagnostics	Double patients access to novel, high-medical-value diagnostics solutions	<ul style="list-style-type: none"> • Launch 75 novel, differentiated medical value assays; 7-8 per year on average • Double the amount of patients tested
 Data & Digital	Transform our business with data and digital solutions <i>Updated</i>	<ul style="list-style-type: none"> • Increase efficiency along value chain • Differentiate our Pharma and Diagnostics offering with digital products

Overview of key strategic initiatives

Significant progress made across the entire organization



Status: ○ Ongoing ✓ Defined

The future of healthcare

Disease burden and system pressures increase, while care delivery becomes more decentralized



Increasing disease burden

50% of disease burden in cardiovascular-metabolism, oncological, and neurological diseases in ~10 years



Healthcare system pressures

Average **healthcare cost grew above GDP growth** the last 20 years



Decentralized care delivery

Care provision in outpatient settings will **grow on average 3x¹** over next 10 years



Early detection, monitoring and intervention

Earlier detection and therefore **earlier medical interventions** result in significant outcome improvements



Access to healthcare

Half of the world's population lacks access to essential healthcare services



Transformative technologies

Transformative technologies such as **AI influence healthcare science, systems, and companies**

¹ vs. in-patient growth | Source: OECD, Sg2 Report; ASCO “New Directions for Cancer Care: Major Trends in U.S. Health Policy”; Institute for Health Metrics and Evaluation (IHME) at the University of Washington

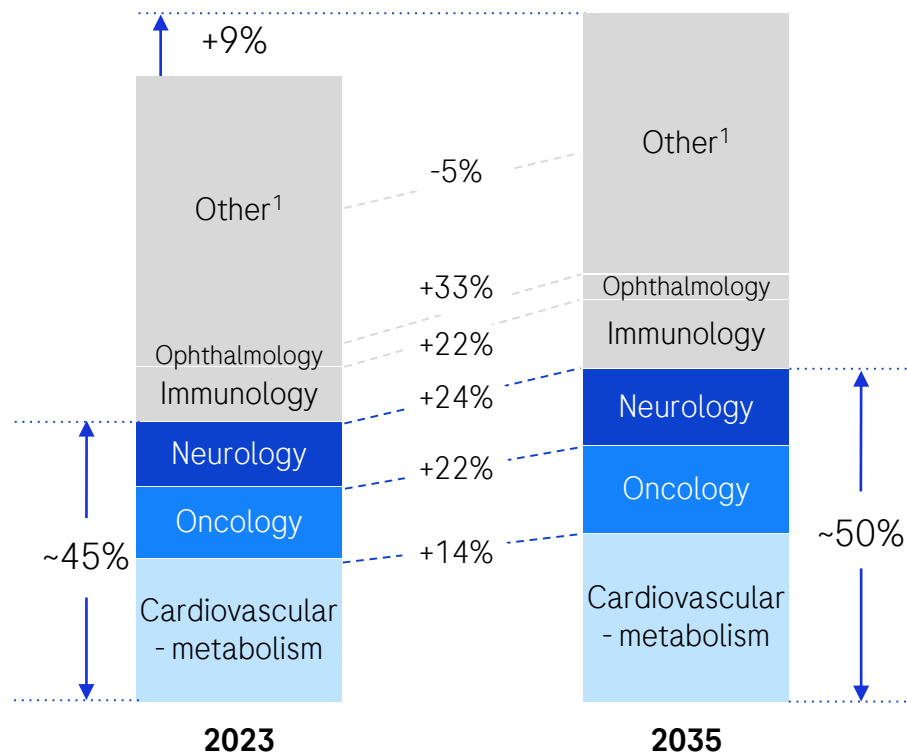
Disease burden increase and decentralization trend

Shared priority areas to account for ~50% of disease burden; care delivery growing faster in outpatient setting

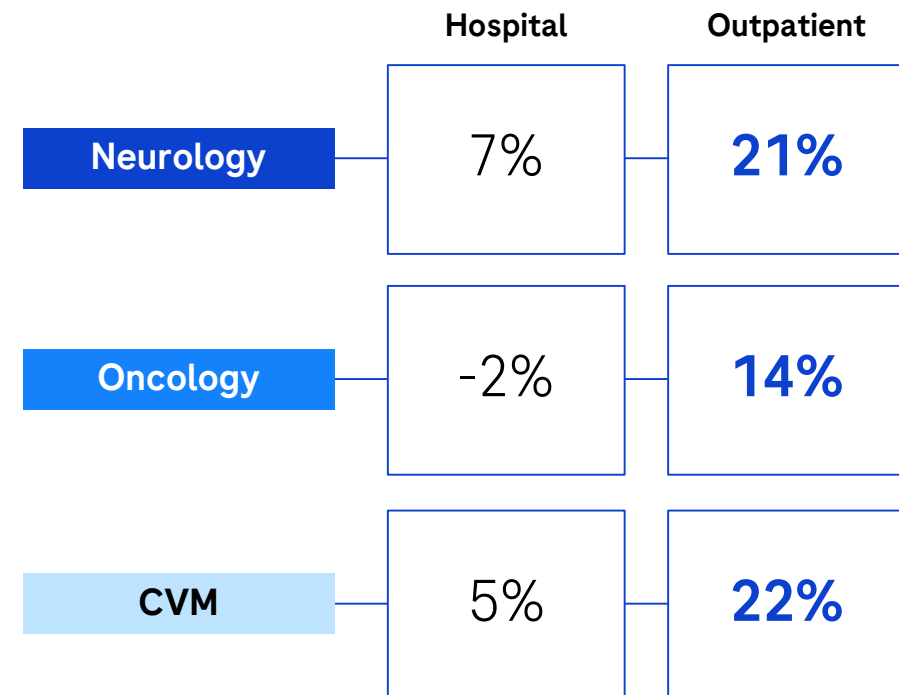
~50% of disease burden in shared priority areas by 2035

Outpatient setting to grow 3x faster vs. hospital setting

Increase of Disability-adjusted life years (DALY)¹



Projected 10 year growth by site of care²



¹ Other includes: all other diseases excluding transport injuries, unintentional injuries, and self-harm/ interpersonal violence, ² Definition of DALYs by WHO: DALY represents the loss of the equivalent of one year of full health | Source: Institute for Health Metrics and Evaluation (IHME) at the University of Washington, accessed on: 08/27/2024. Used with permission.; ² In United States | Source: Sg2 Report; ASCO “New Directions for Cancer Care: Major Trends in U.S. Health Policy”; CVM=cardiovascular-metabolism

The future of healthcare: Business implications

How we address these trends through our strategy



Increasing disease burden

Prioritize **disease areas with high societal burden**



Healthcare system pressures

Innovate and offer holistic solutions to **improve outcomes and reduce cost**



Decentralized care delivery

Develop **near patient care** diagnostics solutions and drug delivery systems for **decentralized settings**



Early detection, monitoring and intervention

Focus on **early detection and preventing & curing diseases**; enable **monitoring**



Access to healthcare

Maximize access to innovative medicines & diagnostics solutions and **advance health equity**

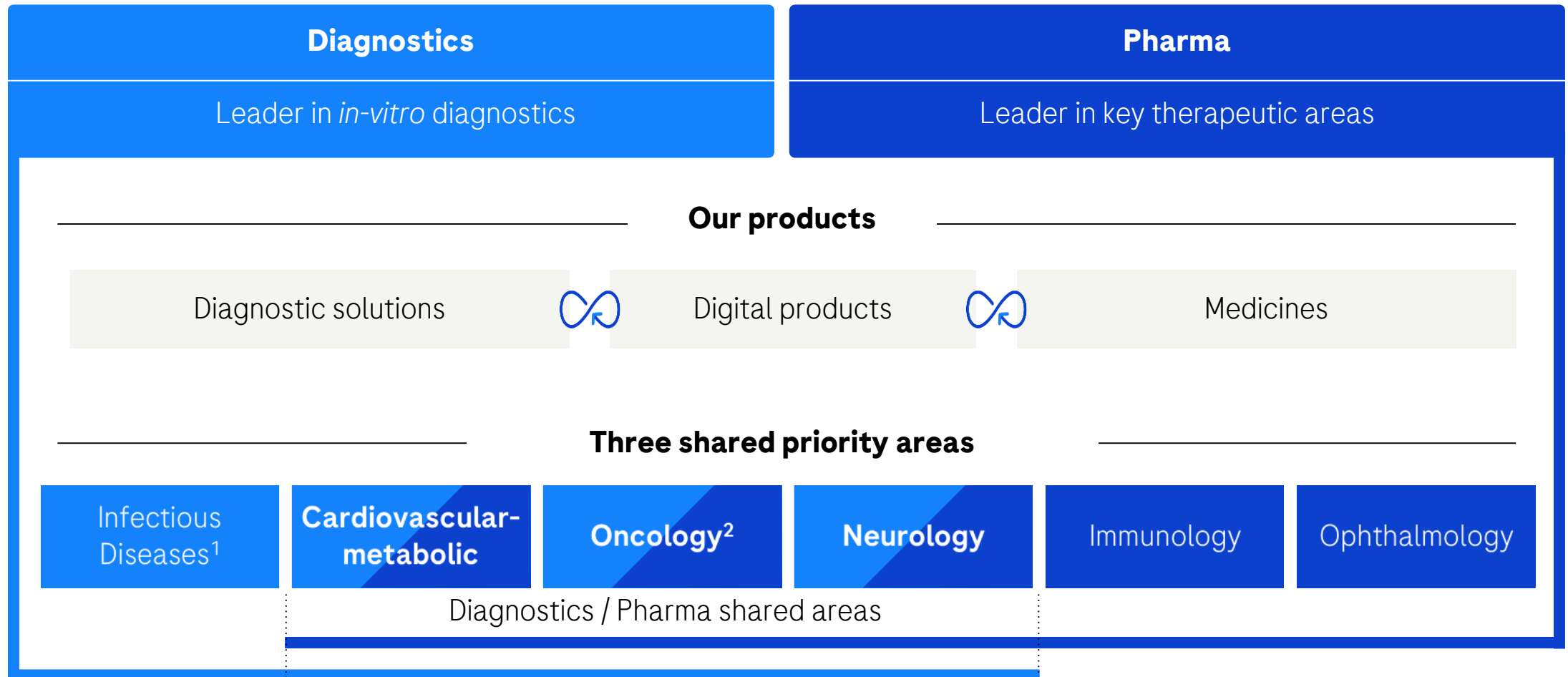


Transformative technologies

Invest in **breakthrough technologies**

Two divisions working together to address healthcare needs

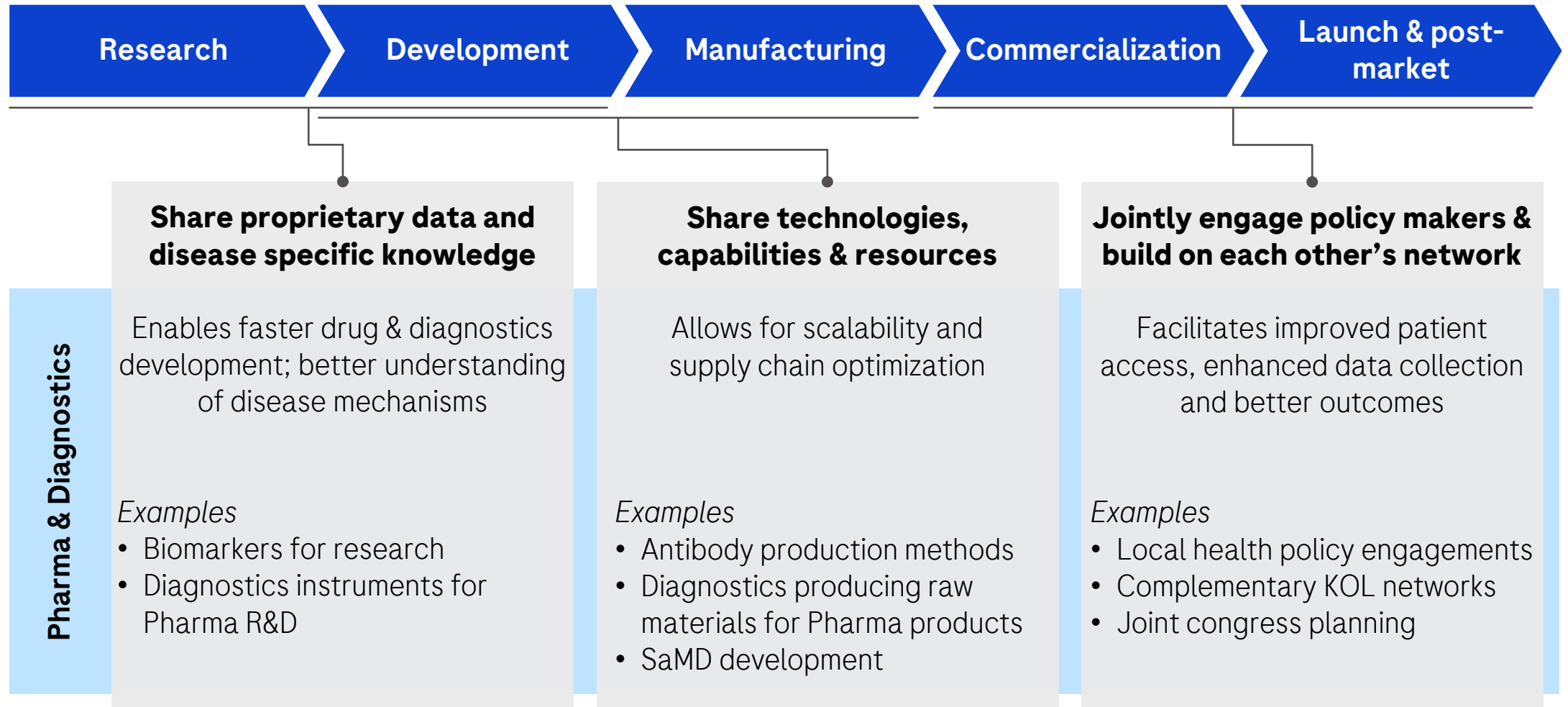
Three shared priority areas between Diagnostics and Pharma



¹ Also relevant for Antimicrobial Resistance in Pharma; ² Includes Hematology in Pharma

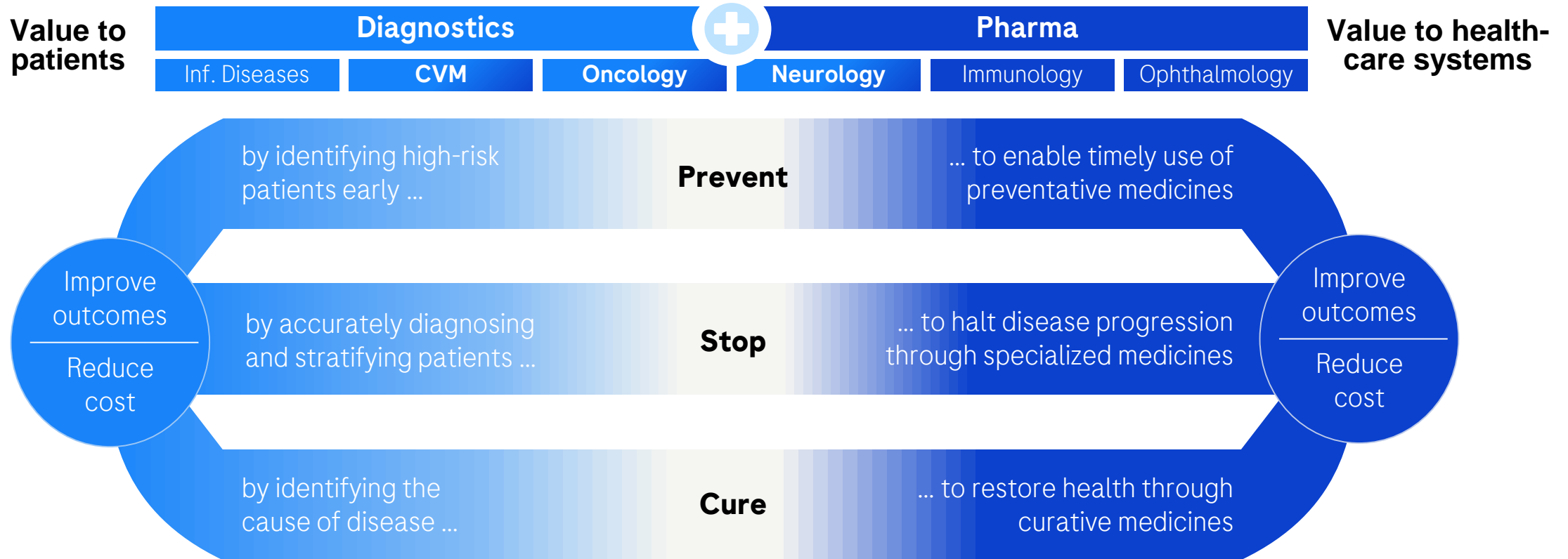
Two divisions with synergy potential across the value chain

Key enabler of our strategy is the collaboration across our two divisions



Creating a healthier future, together

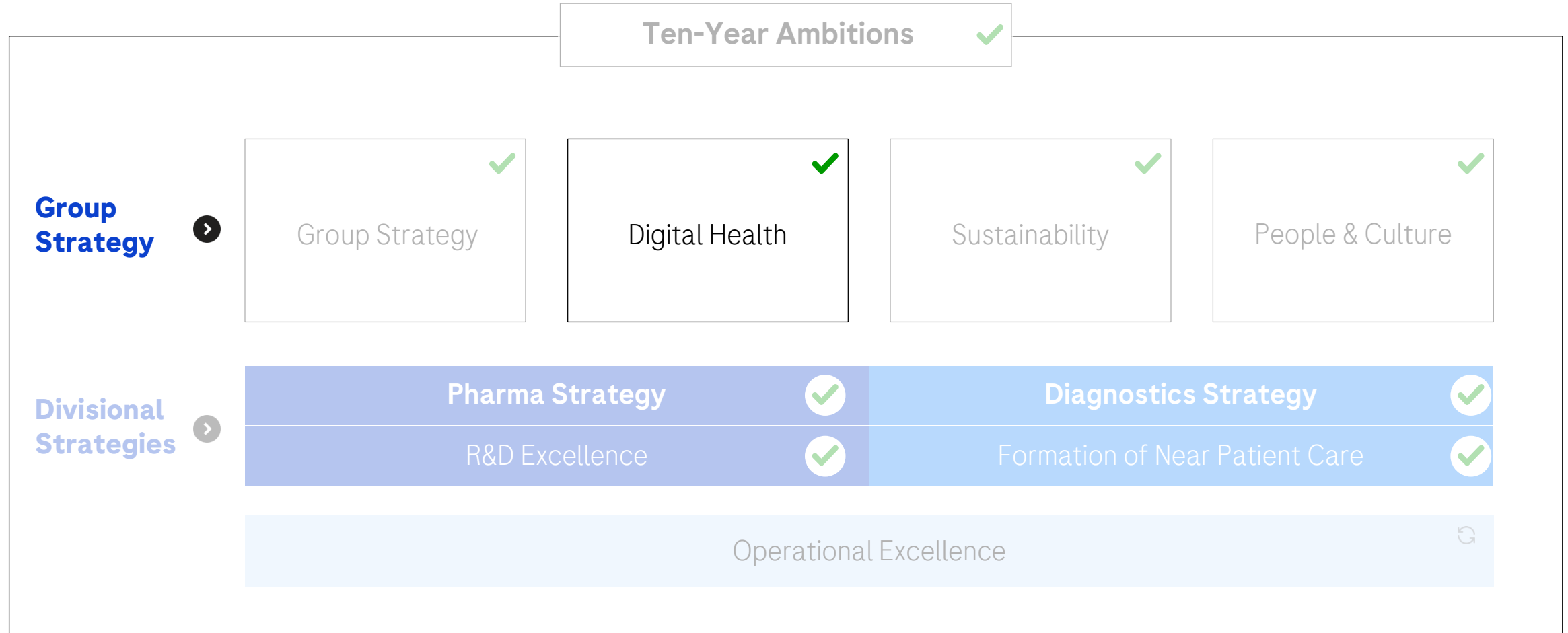
Roche is uniquely positioned to address patient and healthcare system needs across the patient journey



Innovate across the patient journey to improve outcomes for diseases with the highest societal burden, meeting patients where they are

Overview of key strategic initiatives

Significant progress made across the entire organization



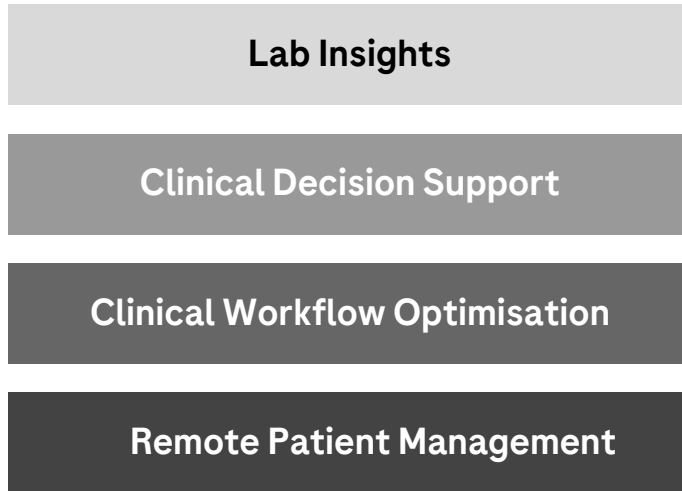
Status: Ongoing Defined

Updated Digital Health Strategy

Focus on four product segments enabled by one technology stack and one operating model

Where to play

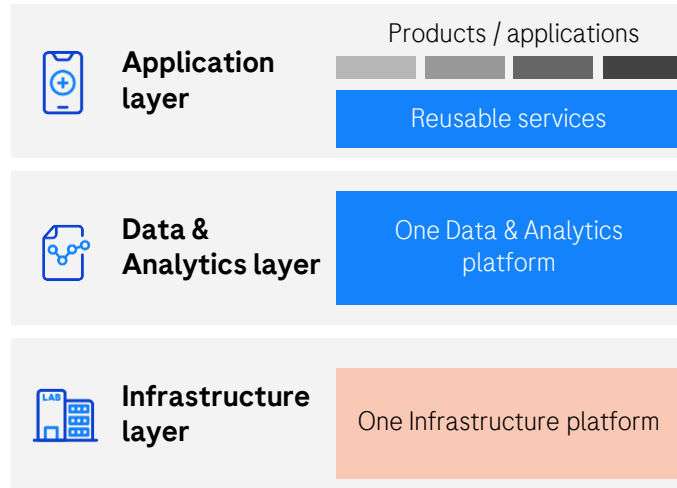
Four Product Segments



4 product segments complementing the Pharma and Diagnostics businesses

How to win

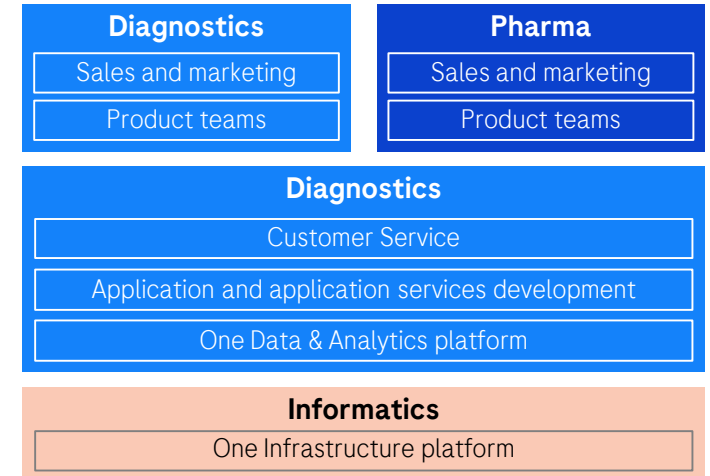
One Technology Stack



Drives data/digital asset reuse, improves customer experience and accelerates innovation

How to win





One Operating Model



Clear responsibilities across the Group to maximize synergies and build strong functional expertise

Strategy implementation: Prioritization and consolidation

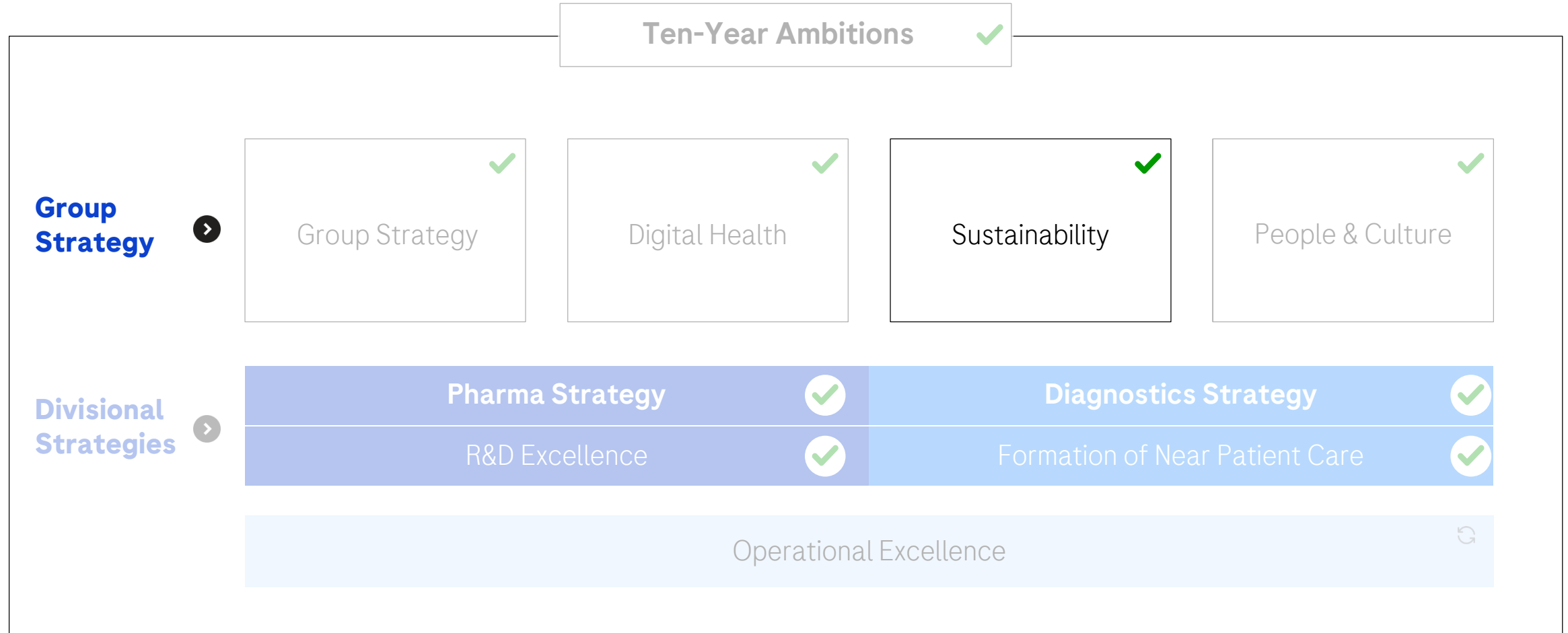
Recent example of significant synergies realized

 <p>Application layer</p>	<p>8 products consolidated and 6 discontinued in Diagnostics</p>	<p>13 products discontinued in Pharma</p>
 <p>Data & Analytics layer</p>	<ul style="list-style-type: none"> • Implementing data fabric across Diagnostics and Pharma • Consolidated 3 data platforms into 1 	
 <p>Infrastructure layer</p>	<ul style="list-style-type: none"> • 162 products and internal tools onboarded on navify Platform • Discontinued duplicative infrastructure platform 	
 <p>Operating model</p>	<ul style="list-style-type: none"> • Defined interfaces between Diagnostics, Pharma and Informatics • Integrated Diabetes Care digital portfolio in respective segments 	

Pharma
 Diagnostics
 Informatics
 Shared Diagnostics and Pharma

Overview of key strategic initiatives

Significant progress made across the entire organization



Status: ○ Ongoing ✓ Defined

Roche's strengthened sustainability commitment

Our strategy contributes to the long-term success of Roche and society, focusing on six priorities

Creating value for all stakeholders

Access to innovation



Maximize access to our innovative medicines and diagnostics solutions



Advance health equity for patients

People



Foster an inclusive work environment where people can thrive

Environment



Achieve Net Zero emissions



Minimize the environmental footprint of our products



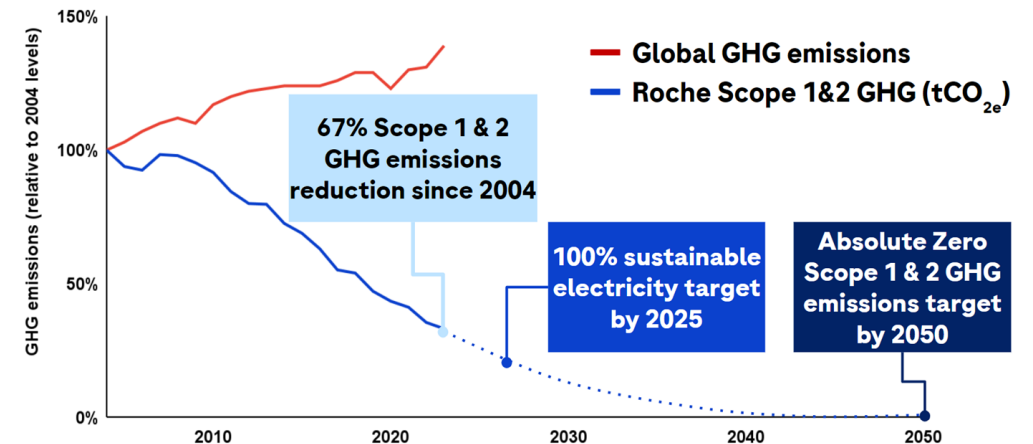
Protect biodiversity and water resources

On track to meet our new Net Zero target

Reducing Scope 1 & 2 GHG emissions for nearly 20 years

Our commitment to absolute zero : 67% reduction since 2004

Submitted to SBTi in Sep



We commit to net zero for scope 1, 2 & 3 by 2045¹ and to absolute zero for scope 1 & 2 by 2050

¹ Pending SBTi approval; 2022 base year; the target boundary includes land-related emissions and removals from bioenergy feedstock

Roche's exceptional commitment to Global Health Security

Diagnostics and Pharma taking a leading role to address antimicrobial resistance (AMR) crisis

Diagnostics: Rapid identification of pathogens

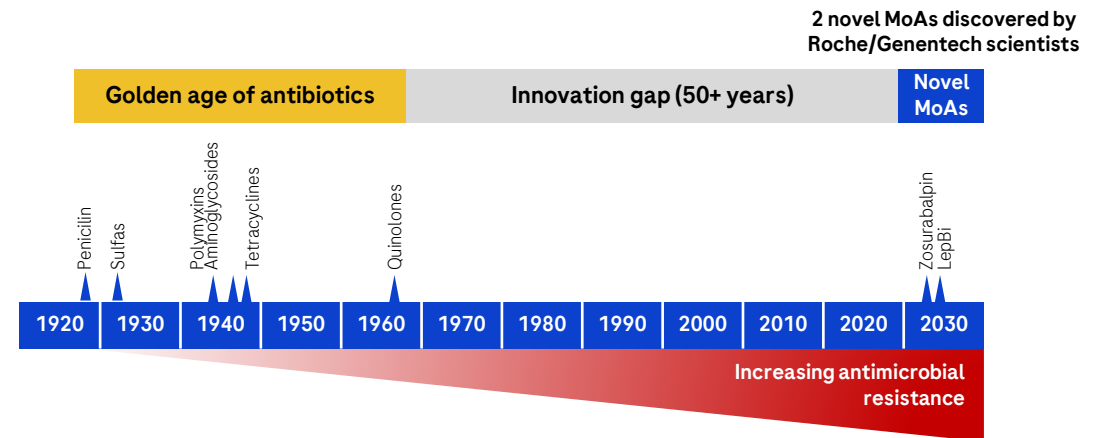
Focus indications in Infectious Diseases

not exhaustive

Hepatitis	Respiratory	Tuberculosis	Sepsis	Others		
HCV PSC	Respiratory flex MPLX	TB IGRA	Prenosis (US)	Gastro flex MPLX	STI Panel	BV/CV
HBsAg III	ePlex Respiratory Panel 3	Active TB	IL-6 (US)	ePlex Gastro Panel	Lyme Panel	Strep B
Anti-HBc qt	Liat RSV, Flu A/B & Covid			Lesion Panel	NG resistance	Malaria
Anti-HDV	Atyp Pneum.			Dengue Panel	HIV DUO II	

- Broad test portfolio and Global Surveillance Program for quick response to emerging pathogens
- Infection prevention and antimicrobial stewardship, including syndromic testing and point-of-care diagnostics

Pharma: First novel classes of antibiotics in 50 years

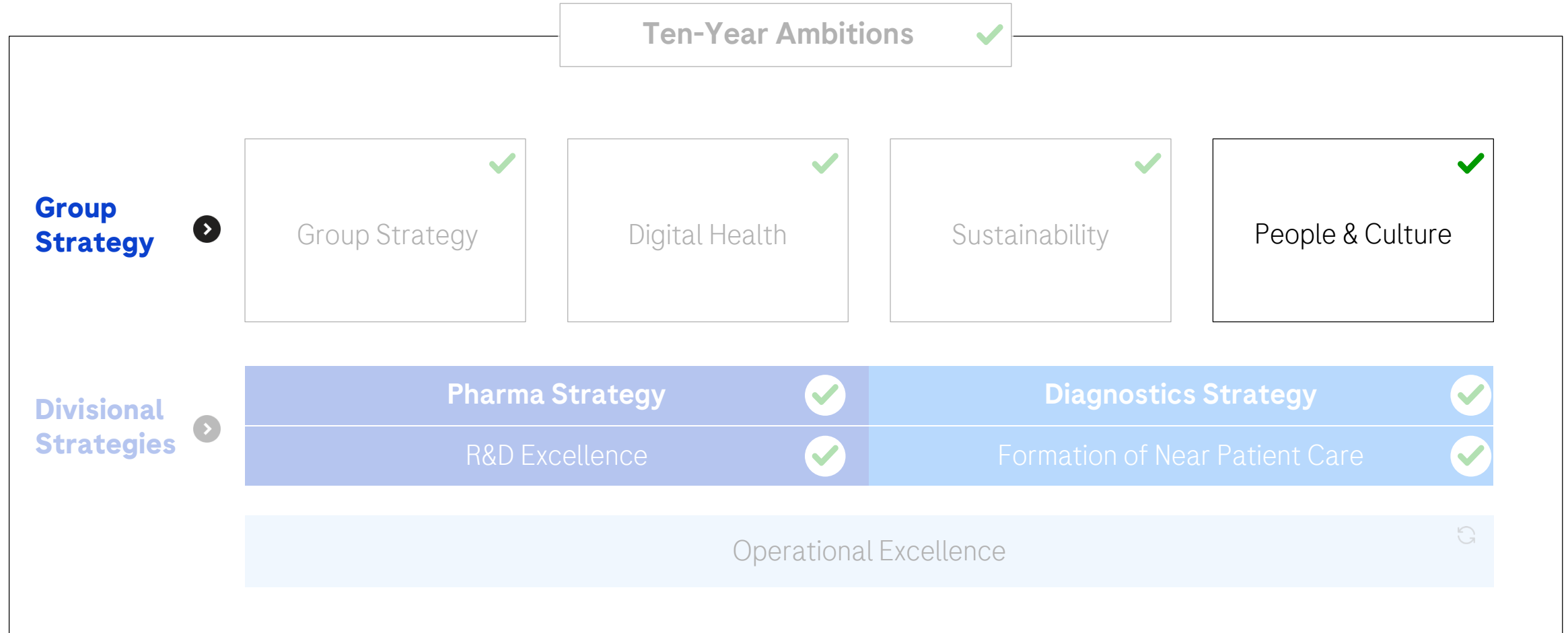


- Global Health Security program in place, aligned with WHO and CDC
- Zosurabalpin and LepBi represent the first new classes of antibiotics against gram negative bacteria

Using our scientific capabilities and unique strengths to deliver a long-standing societal impact

Overview of key strategic initiatives

Significant progress made across the entire organization



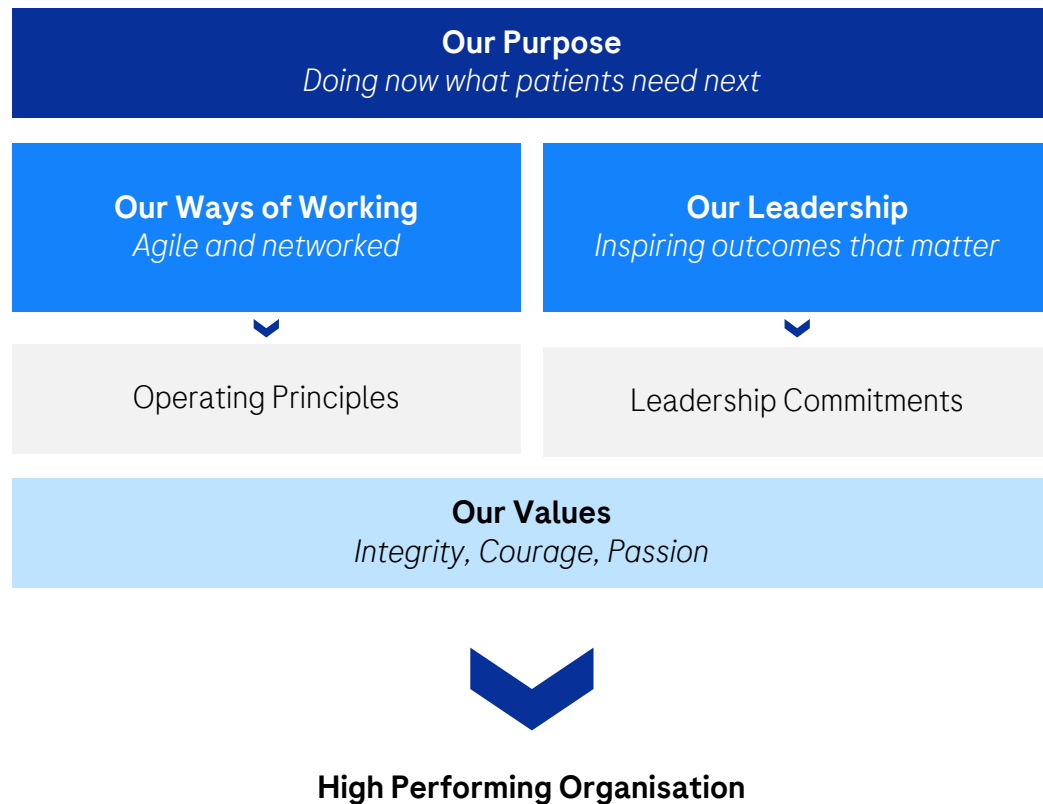
Status: ○ Ongoing ✓ Defined

Our people and culture

Fostering and rewarding high performance

Roche Framework (selection)

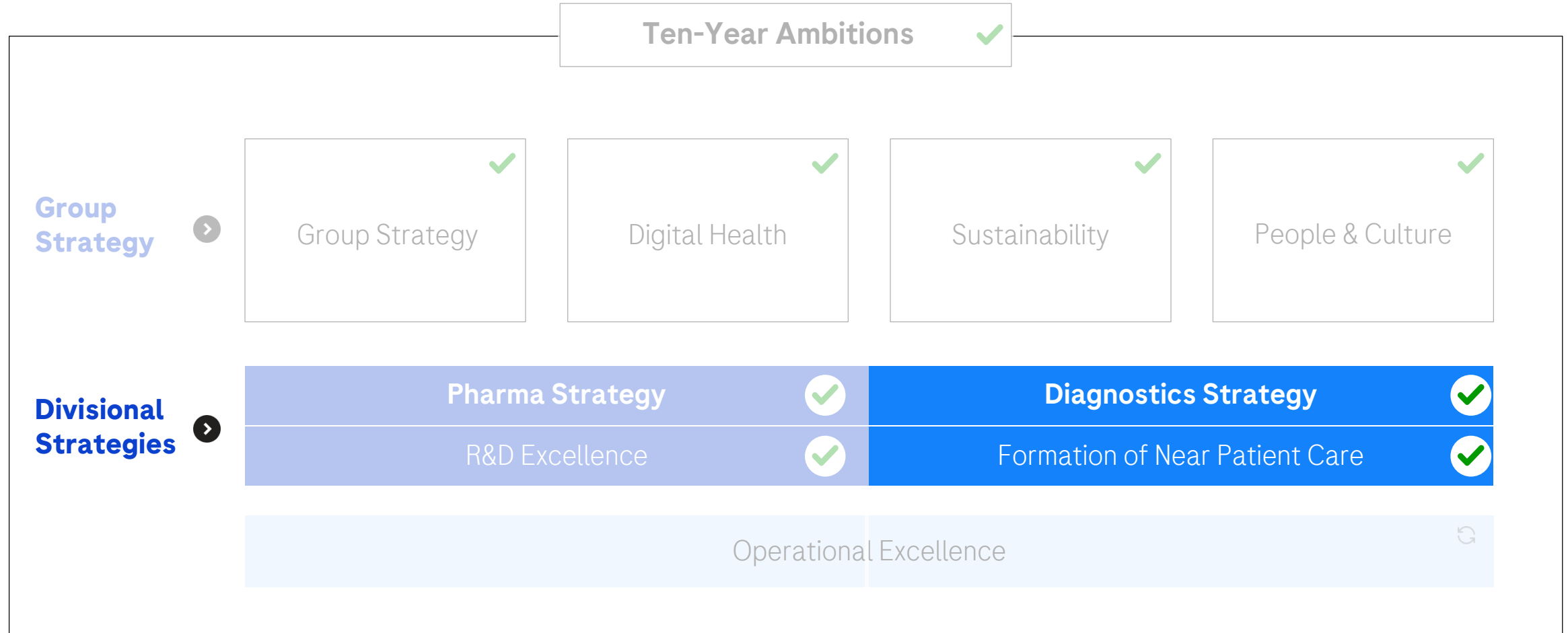
Focus areas



- **Talent:** Strengthened talent management and succession planning (internal/external), building critical capabilities
- **Diversity, Equity & Inclusion:** Embedded across the organization to foster an inclusive work environment and diverse perspectives
- **Leadership:** Drive urgency, effective decision making, as well as empowerment and accountability
- **New performance & reward practices:** Strengthened feedback & debate culture, performance focus

Overview of key strategic initiatives

Significant progress made across the entire organization



Status: ○ Ongoing ✓ Defined

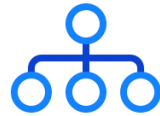
Transformation of Roche Diagnostics 2020-2021

Simplified operating model and shift of investments; increased employee engagement



Innovation & financial success

- Increased R&D investments by 500m CHF
- Mid- to high-single digit sales growth
- Core OP growth ahead of sales growth



Operating model

- Simplified processes and systems
- Reduced organizational complexity



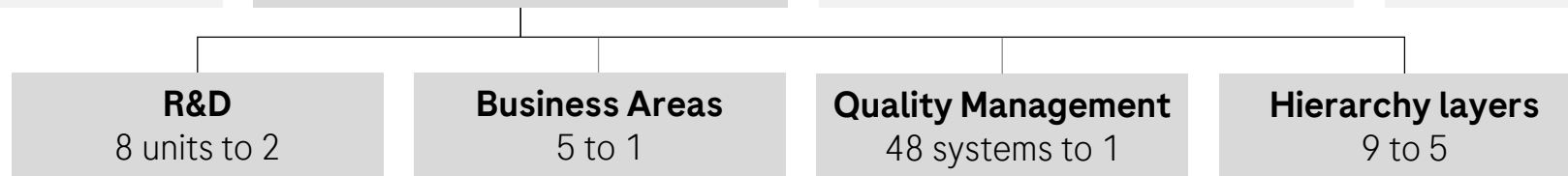
Culture

- Updated operating principles
- Created culture of empowerment and accountability



Engagement & diversity

- Increased employee engagement
- Increased diversity in senior leadership



The Diagnostics Strategy was co-created with the entire organization of 35,000 employees

Accelerated momentum driven by key launches

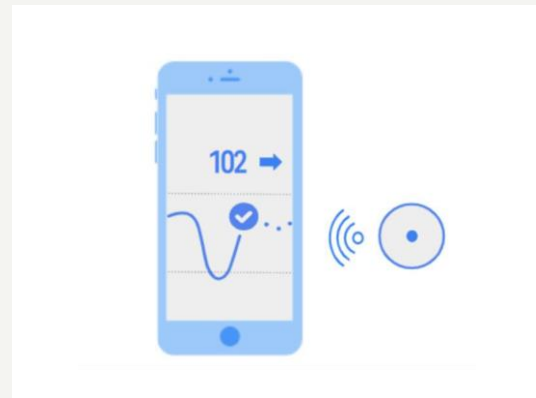
Diagnostics to deliver mid to high single digit growth in coming years

LumiraDx



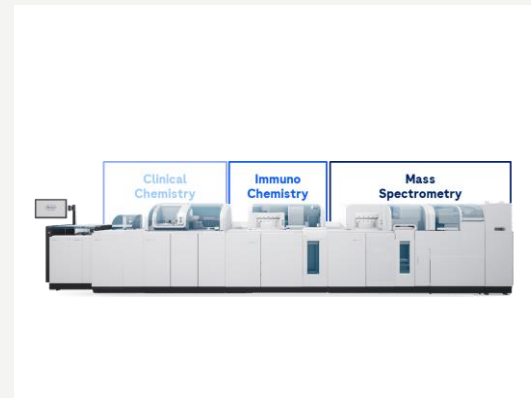
- Consolidate PoC testing on a single platform (clinical chemistry, immunoassay and potentially molecular)
- Room temperature storage of tests
- Drive access in LMIC

Continuous glucose monitoring (CGM)



- 14 day real-time glucose sensor
- One-step application with initial calibration
- Predictive algorithms for 2 hours and night-time hypo

Mass spectrometry



- First fully integrated and automated mass spectrometry
- Launch menu complimentary to immunoassay offering, >40 key biomarkers
- Approvals: CE (2024), FDA (2025)

Next generation sequencing (NGS)

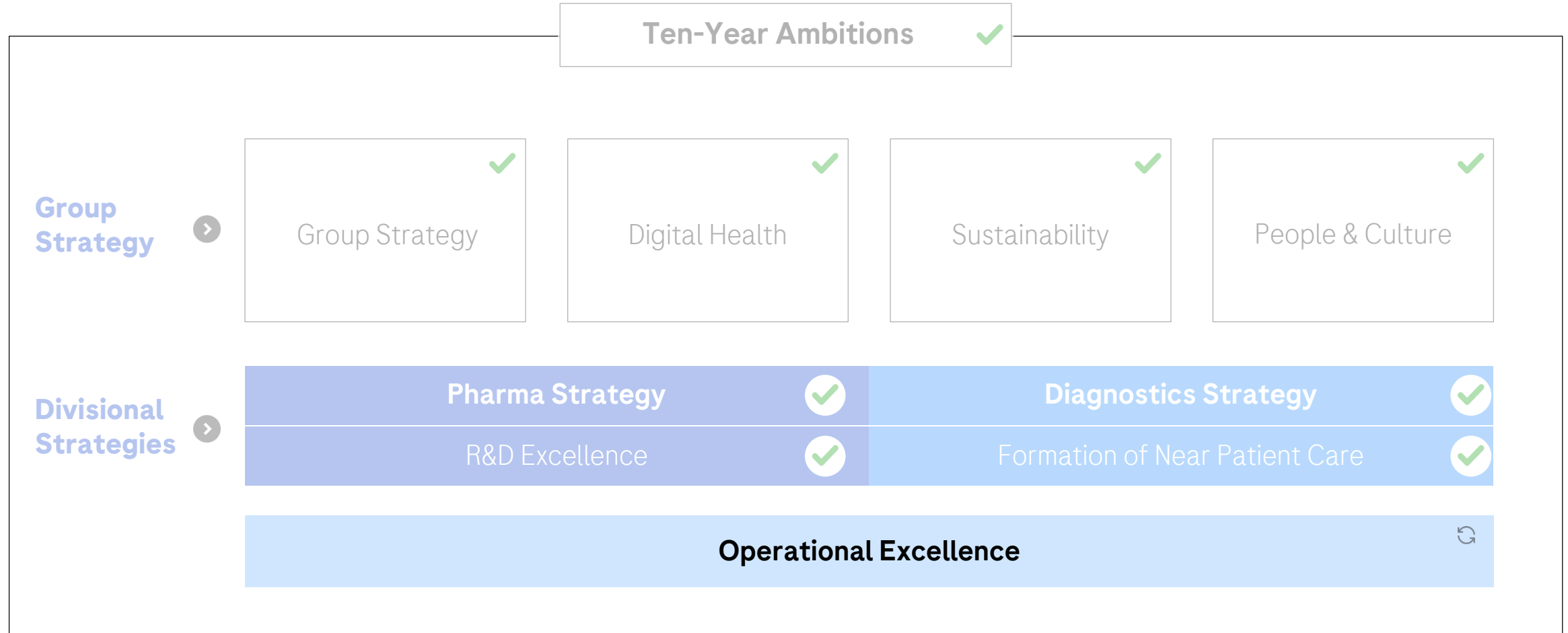


- Unique sequencing by expansion technology, significantly improving nanopore performance
- Nanopore system offers flexible run size at competitive cost

Innovative Diagnostics technologies enable joint development opportunities and synergies with Pharma

Overview of key strategic initiatives

Significant progress made across the entire organization

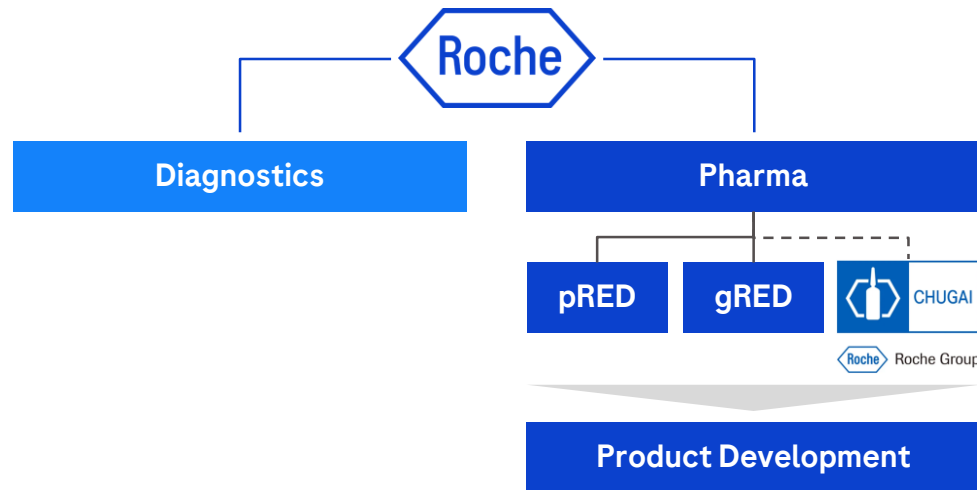


Status: Ongoing Defined

Balancing centralization and decentralization

Improving operational performance and realizing synergies across the Group

Maximize benefit of two divisions with streamlined structures



Pharma

Decentralized

- Independent early research units aligned to drive innovation with focus on unique expertise and platform technologies
- Local go to market approaches

Centralized

- Centralized late-stage development and E2E portfolio management
- Harmonized systems, processes and governance

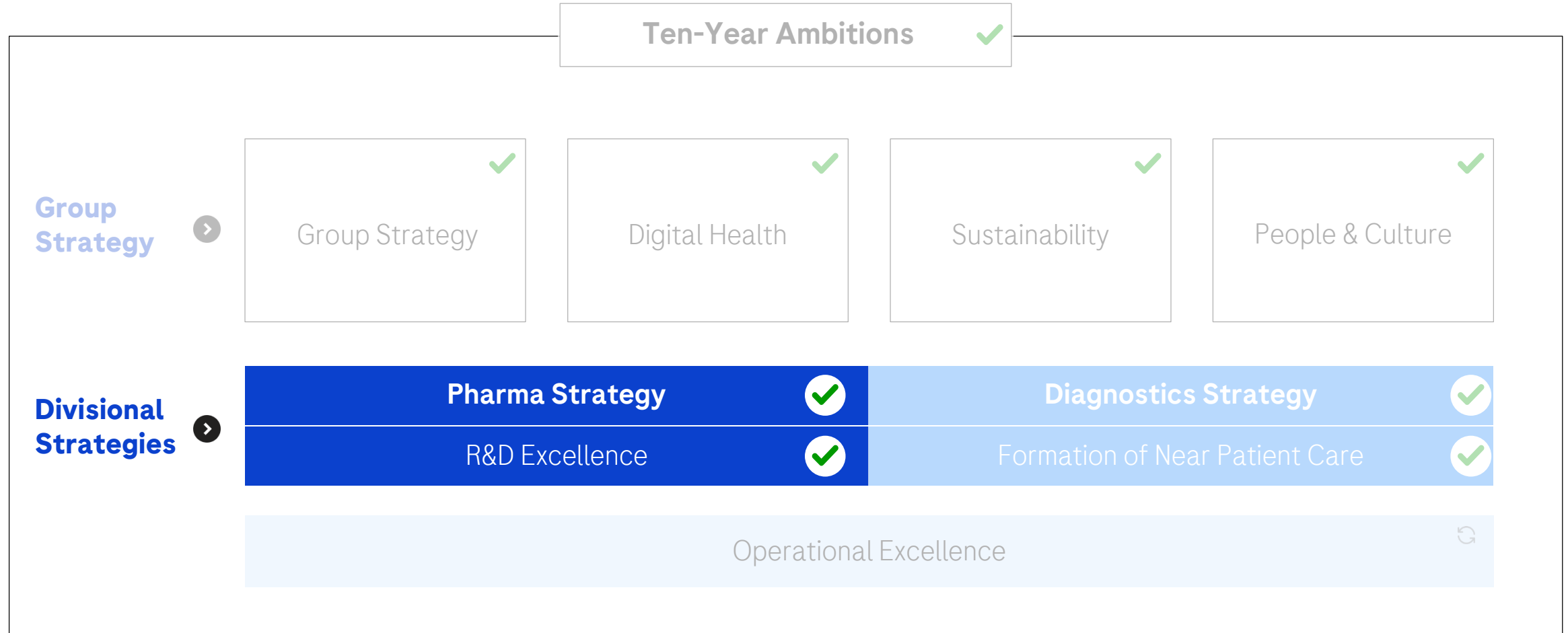
Group

- Shared proprietary data, disease knowledge and KOL networks
- Build holistic patient solutions in shared priority areas across Diagnostics/Pharma
- Leverage digital technologies, capabilities and resources

1 Also relevant for Antimicrobial Resistance in Pharma; 2 Includes Hematology in Pharma; E2E=end-to-end; KOL=key opinion leader

Overview of key strategic initiatives

Significant progress made across the entire organization



Status: ↻ Ongoing ✓ Defined



Pharma

Teresa Graham

CEO Roche Pharmaceuticals

Pharma Strategy

Therapeutic Areas & focus diseases

Our core capabilities

Significant future growth opportunities

Today, Roche Pharma leads in multiple Therapeutic Areas

Diversified portfolio of innovative medicines

Number 1 in key Therapeutic Areas



#1 in Neurology, a leader in Ophthalmology and Oncology/Hematology

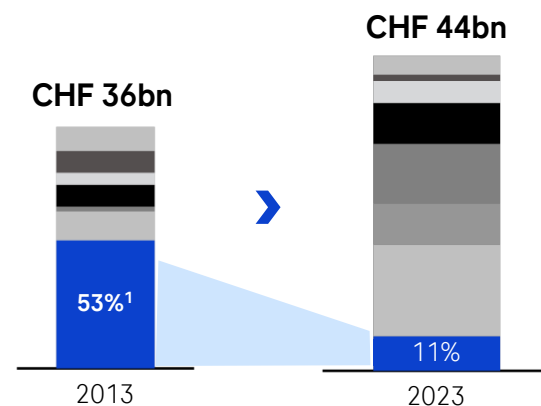
Pipeline



72 NMEs in clinical development

Portfolio

Roche Sales per therapeutic area



Young portfolio driving growth, incl. 16 blockbusters vs. 8 in 2013

Innovation



26 NMEs launched since 2013



43 FDA Breakthrough Therapy Designations since 2013²



#1 Pharma in AI readiness³

Our updated Ten-Year Pharma Ambition

Focus on delivering transformative medicines, enabled by R&D and business objectives

Pharma Ambition 2020-2029

Deliver 20 transformative medicines¹ addressing diseases with the highest societal burden²



Value

+40%

in avg. pipeline peak sales



Innovation

80%

of pipeline has best-in-disease potential



Access

3x

more patients treated³

¹ Transformative medicines: Medicines that deliver significant or transformative clinical benefit in at least one indication or bring a significant benefit to the healthcare system; ² Addressing the highest societal burden: high burden in terms of patient unmet need and the population affected; ³ Excludes LOE products and pandemic stockpiling

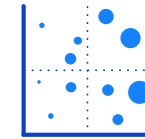
Defining our portfolio focus

Purposeful balance between exploration and focus



Follow the science

with emphasis on breakthrough innovation and patient value



Intentional focus

in end-to-end disease areas where we develop depth of experience and operational scale to deliver transformative medicines



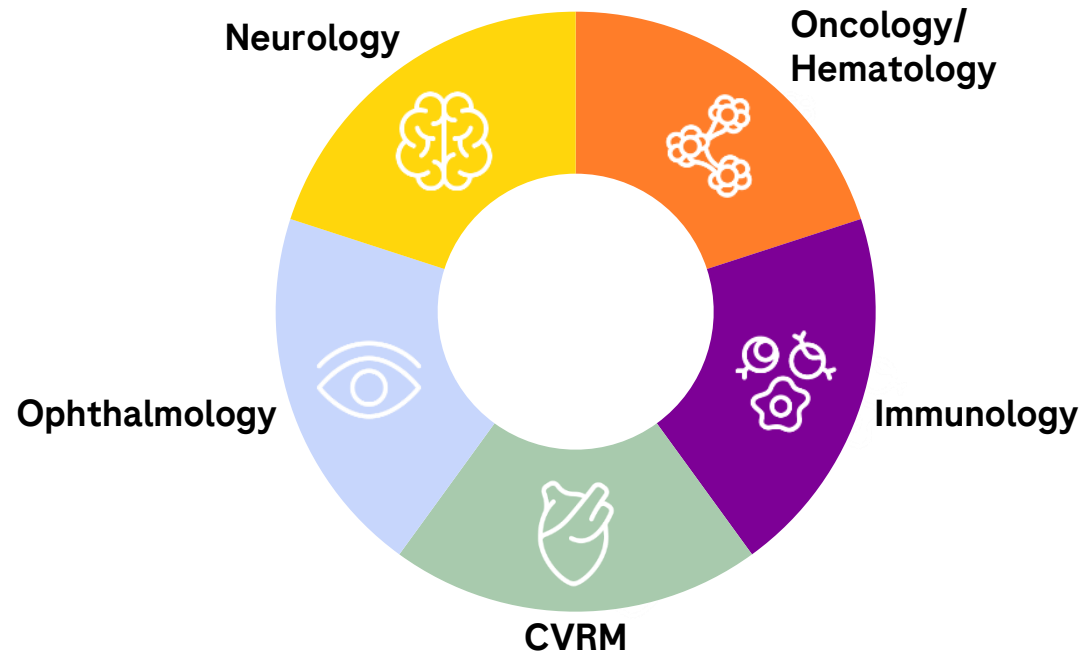
The Bar

defines transformative medicines and is applied rigorously to each asset entering and progressing in the portfolio, across all stages of R&D (including Partnering and M&A)

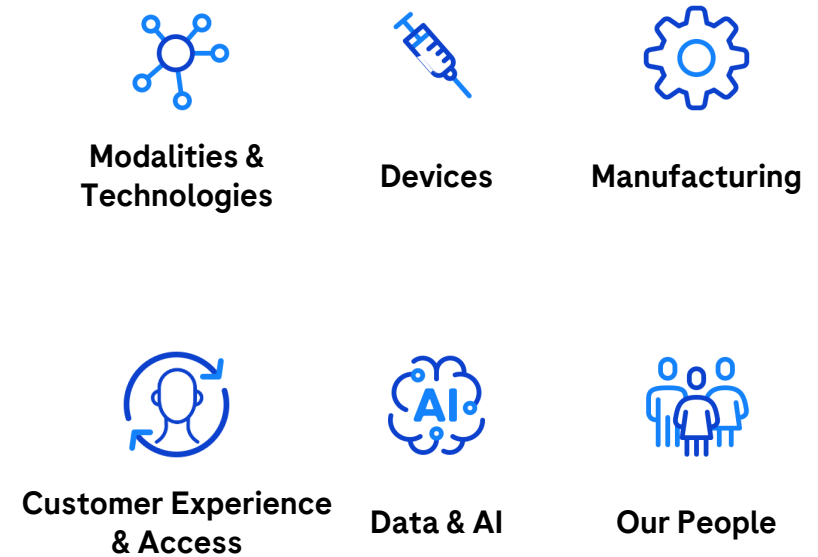
Our new Pharma Strategy

Providing clarity and intentional focus to leverage our scientific strengths and impact patients globally

Where we play: Priority Therapeutic Areas



How we succeed: Core capabilities



Pharma Ambition: Deliver 20 transformative medicines addressing diseases with the highest societal burden

Pharma Strategy

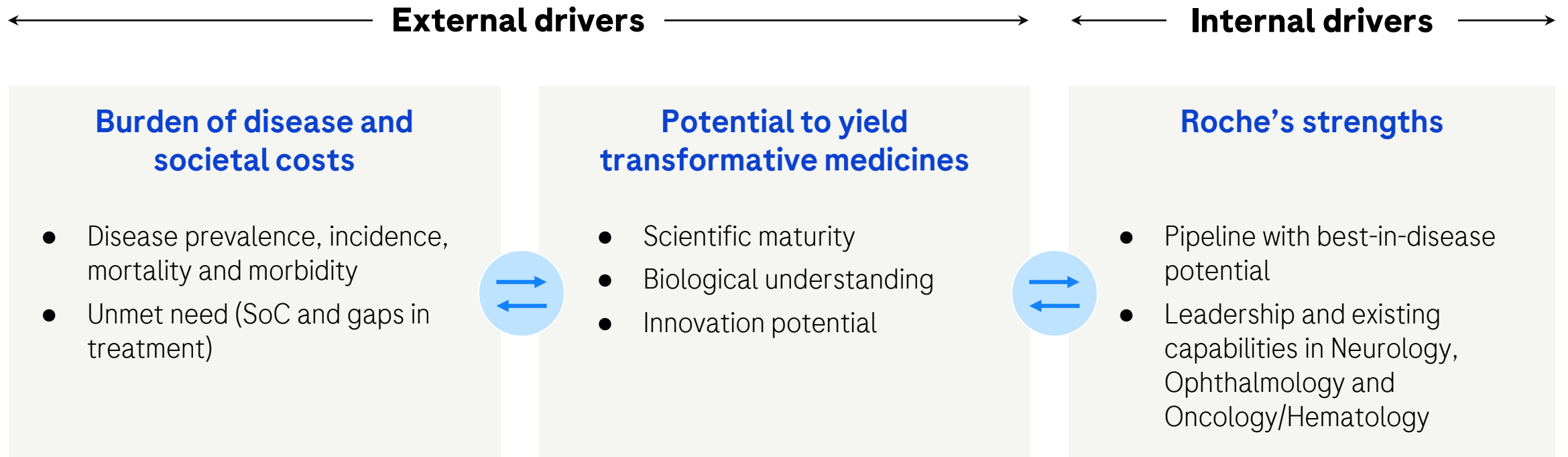
Therapeutic Areas & focus diseases

Our core capabilities

Significant future growth opportunities

Selecting our therapeutic areas and focus disease areas

Our focus considers societal burden and transformational potential, as well as Roche's current capabilities

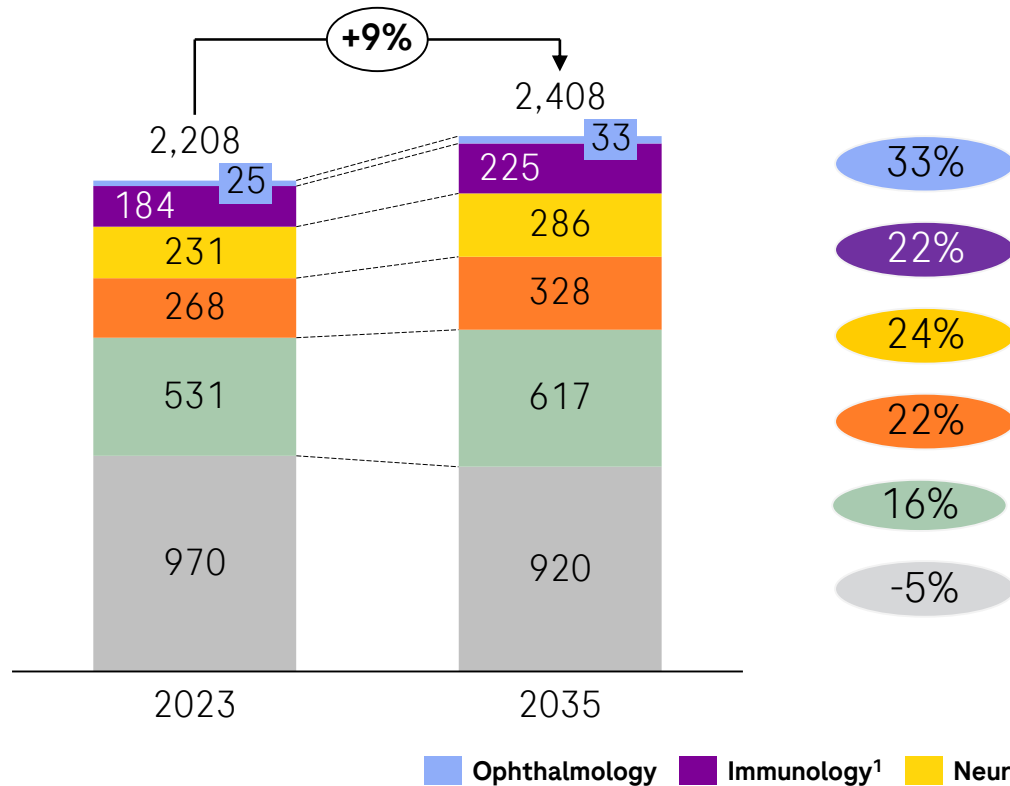


Our Therapeutic Areas: ~60% of total Global Burden of Disease and ~80% of potential growth

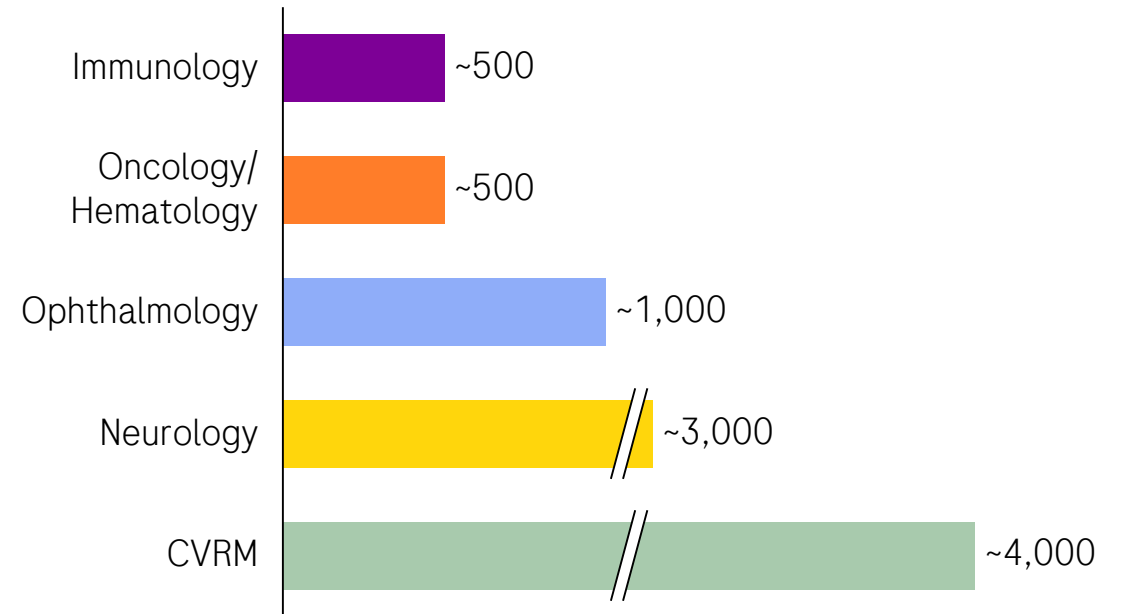
Global burden of disease by Therapeutic Area

Our focus therapeutic areas address ~60% of the global burden of disease and millions of patients worldwide

Global Burden of Disease in 2023 and 2035 (million DALYs) **Growth, p.p %**



Number of people living with diseases in our committed therapeutic areas globally ³ (million)

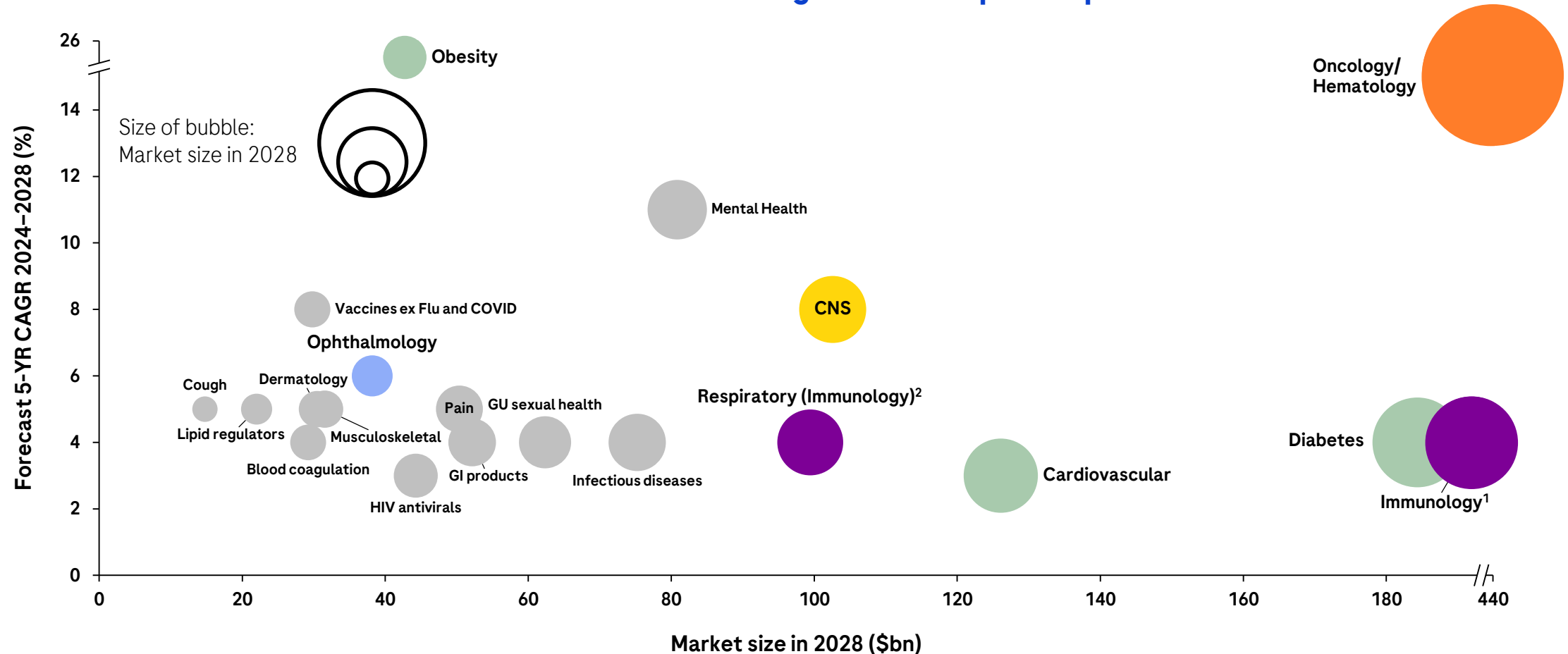


Source: IHME, Clarivate (DRG); 1 Immune-mediated diseases includes selection of diseases across TAs, i.e., COPD, IBD, CSU, CF, RA, urticaria, idiopathic interstitial pneumonia (incl. ILD), chronic cough, glomerulonephritis, LN/SLE, asthma, IgAN; 2 Others include Infectious Diseases, Reproductive Health including neonatal and maternal health, non-immunological gastrointestinal diseases, vitamin deficiencies, among others; 3 Estimated from sum of prevalence of different diseases - could include double counting; TA=Therapeutic area; DALYs=disability adjusted life years; CVRM=Cardiovascular, renal and metabolism; CAGR=Compound annual growth rate

Significant future growth potential in focus Therapeutic Areas

Our focus TAs account for ~80% of future growth

Global market size and forecast growth for top Therapeutic Areas

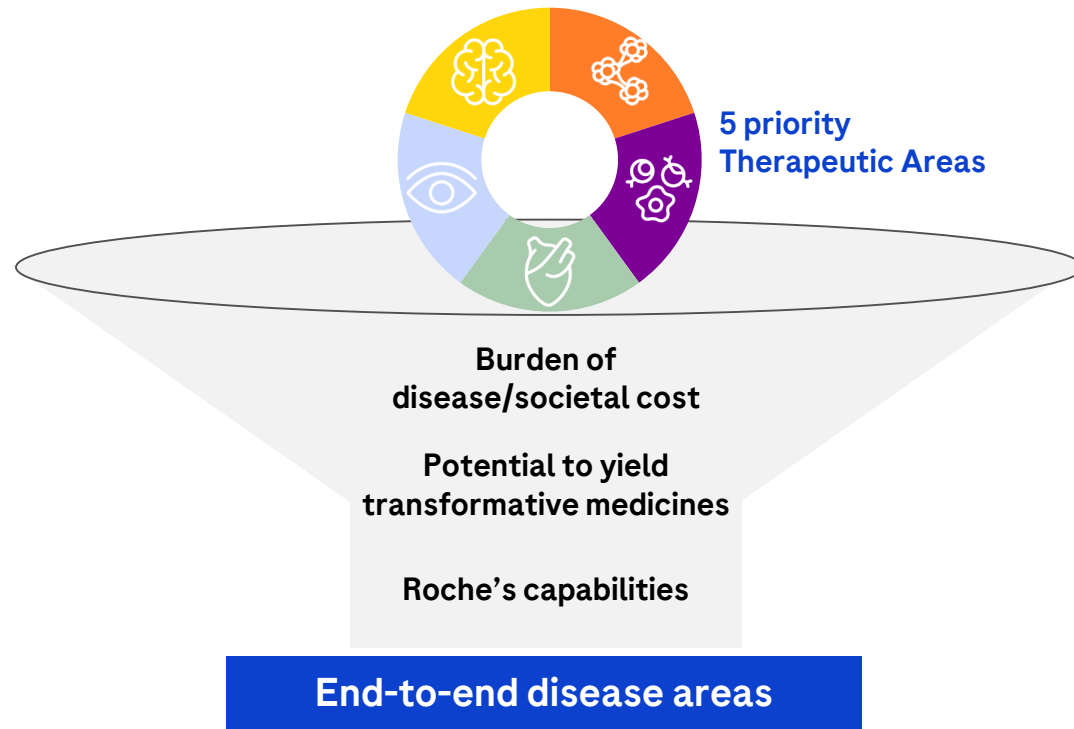


All Roche NMEs from Ph I to Registration included; Note: Immunology includes auto-immune and allergic inflammation. Grouping of diseases are specific to Analytics Link classifications; 1 Psoriasis, psoriatic arthritis, atopic dermatitis, rheumatoid arthritis, ankylosing spondylitis, systemic lupus, Chron's disease, ulcerative colitis, erythematosus 2 COPD, cystic fibrosis, allergic rhinitis, acute pharyngitis, idiopathic pulmonary fibrosis, other diseases of the respiratory system; Source: IQVIA Forecast Link, Dec 2023 Global Use of Medicines 2024: Outlook to 2028. Report by the IQVIA Institute for Human Data Science.

E2E disease areas: Focus on delivering transformative medicines

Discovery, R&D and commercialization resources concentrated on our end-to-end disease areas

Selection



Implications



Dedicated research teams to drive novel scientific innovation

Significant early and late stage development investments

Full-scale commercial investment to realize meaningful market value

Continued investment in emerging areas with breakthrough potential, regardless of disease areas

Currently, 11 disease areas where we ‘invest end-to-end’

We focus at scale, end-to-end, in these disease areas to bring transformative medicines to patients

Oncology/ Hematology	Neurology	Immunology	Ophthalmology	CVRM
<ul style="list-style-type: none"> Breast cancer Lung cancer Malignant heme Hemophilia 	<ul style="list-style-type: none"> Multiple sclerosis Alzheimer’s disease 	<ul style="list-style-type: none"> IBD COPD 	<ul style="list-style-type: none"> Retinal vascular disorders¹ GA / intermediate AMD 	<ul style="list-style-type: none"> Obesity
<p><i>Broad portfolio and pipeline in Breast cancer, with potential to develop unique combinations</i></p> <p><i>Ocrevus a leading asset in MS market, with SC launch ongoing & fenebrutinib in Ph III</i></p> <p><i>Ph III anti-TL 1A and Ph II vixarelimab development in IBD</i></p> <p><i>Establishing Vabysmo as new SoC in nAMD and DME, Susvimo as low dosing frequency option, and broad NME pipeline</i></p> <p><i>CT-388/-868/-996 development in Obesity and exploring combinations</i></p>				

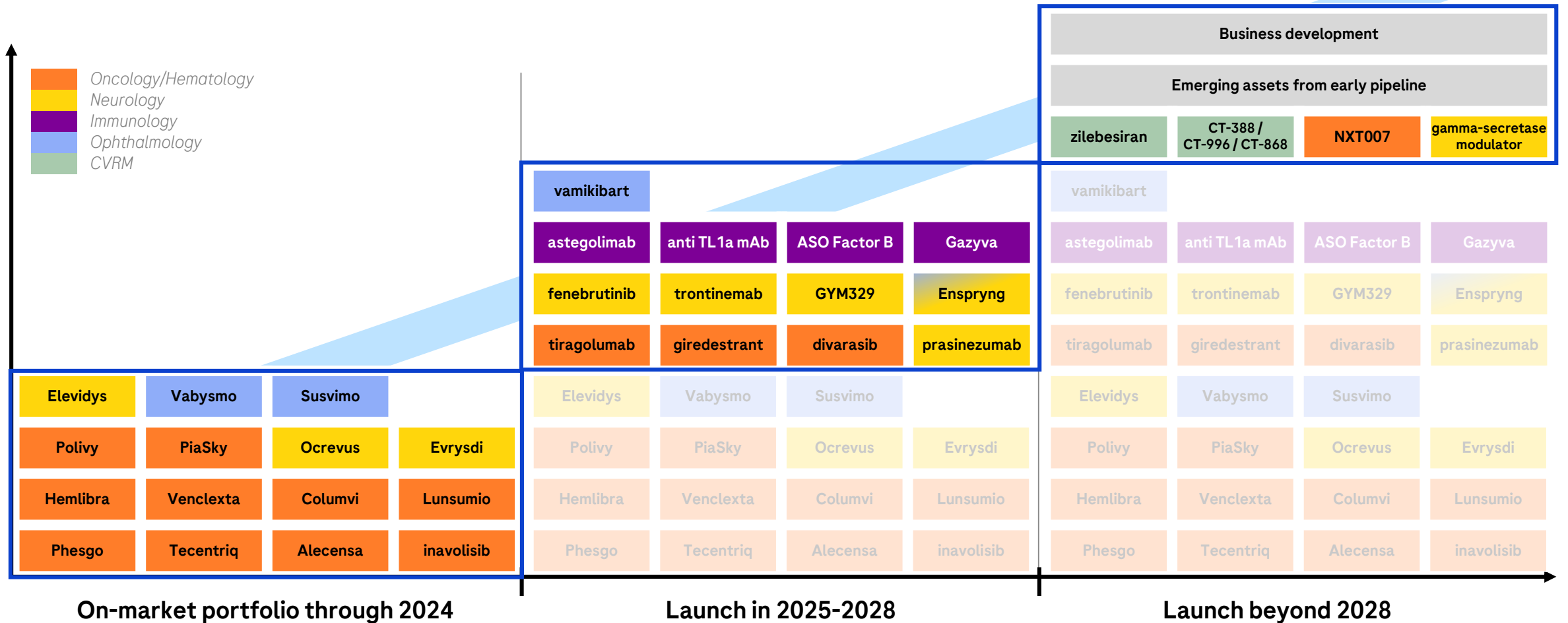
End-to-End examples

Categorization is dynamic and disease areas will be reprioritized, using consistent and objective criteria, when scientific and/or commercial inflection points are reached

1 Includes Diabetic Macular Edema, Age-related Macular Degeneration, Retinal Vein Occlusion, Diabetic Retinopathy; GA = geographic atrophy; (n)AMD = neovascular age-related macular degeneration; IBD=inflammatory bowel disease; COPD=chronic obstructive pulmonary disease; MS=multiple sclerosis; SC=subcutaneous; SoC=standard of care; DME=diabetic macular edema; TL 1A=TNF-like protein 1A

Building blocks for future growth

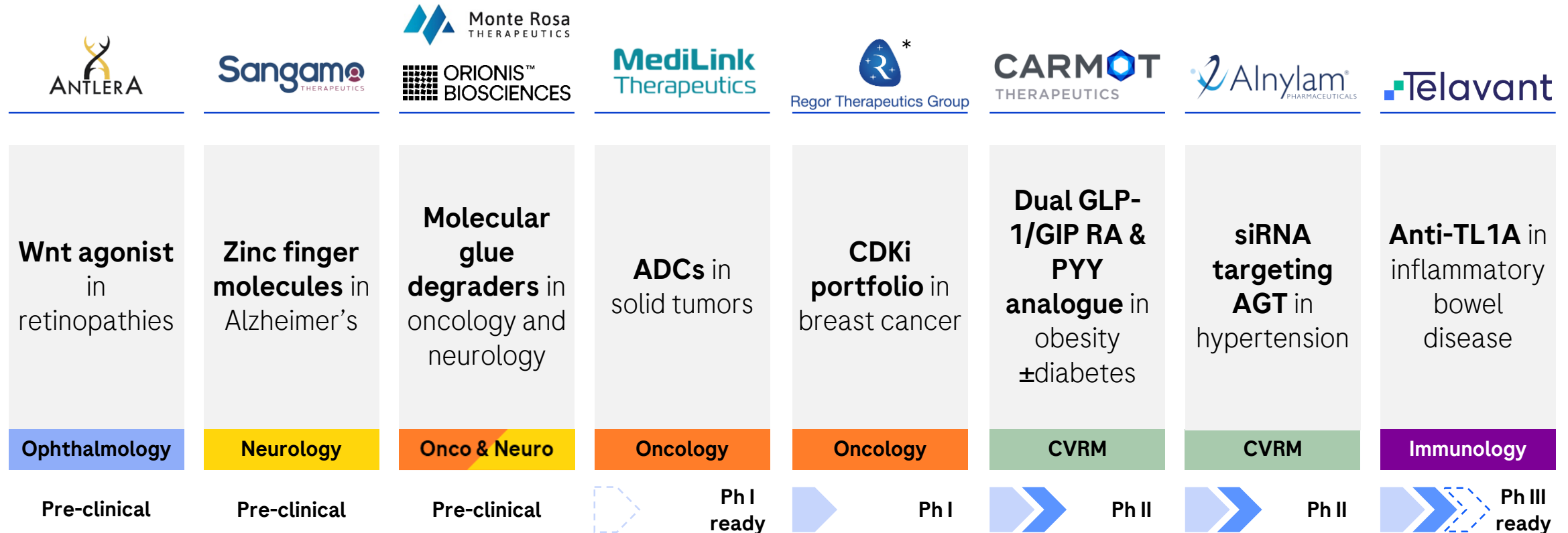
Pipeline and business development to add significant upside potential



Note: Outcome studies are event-driven, timelines may change; inavolisib pending US PDUFA 27th November 2024; CVRM=cardiovascular, renal and metabolism

Pipeline acceleration through partnering and acquisitions

Key deals completed to complement our pipeline across the Pharma focus therapeutic areas



*pending deal closure; CVRM=cardiovascular, renal & metabolism; siRNA=small interfering RNA; AGT=angiotensinogen; TL 1A=Tumor necrosis factor-like cytokine 1A; GLP-1=glucagon-like peptide-1; GIP=glucose-dependent insulinotropic polypeptide; RA=receptor agonist; CDKi=cyclin dependent kinase inhibitor; ADC=antibody-drug conjugate; WNT=wingless-related integration site



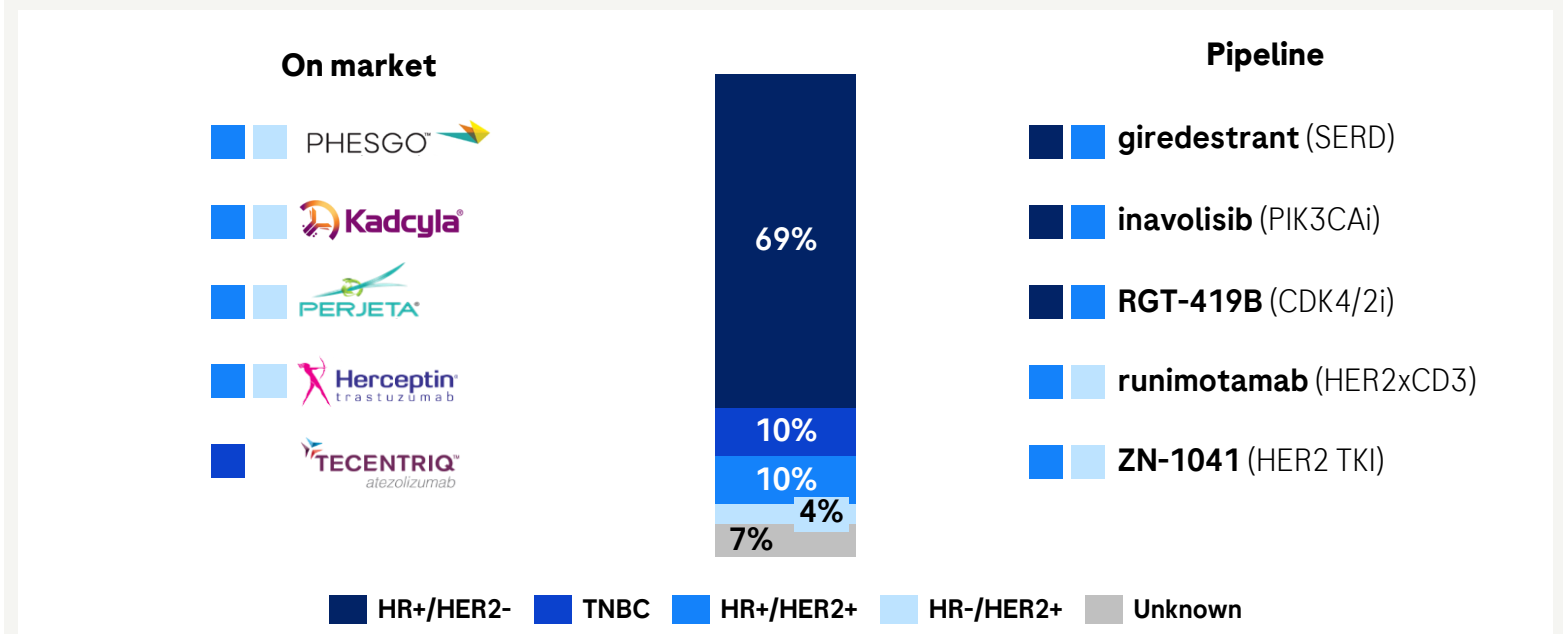
Breast Cancer: Sustained growth in HER2+ and expanding into HR+

Inavolisib in 1L PIK3CA-mut HR+ HER2- mBC (Nov 27th PDUFA); additional indications in development

Breast cancer portfolio

	Ph I	Ph II	Ph III	
inavolisib	INAVO120 (1L PIK3CA-mut HR+HER2-mBC (AI resistant))			✓
inavolisib	INAVO121 (post-CDK4/6 PIK3CA-mut HR+/HER2- BC)			
inavolisib + Phesgo	INAVO122 (1L PIK3CA-mut HER2+ BC)			
inavolisib	INAVO123 (1L PIK3CA-mut HR+/HER2-mBC (AI sensitive))			
giredestrant + palbociclib	persevERA (1L ER+/HER2- mBC (endocrine sensitive))		2025	
giredestrant + everolimus	evERA (post CDKi ER+/HER2- mBC)		2025	
giredestrant + any CDK4/6i	pionERA (1L ER+/HER2- mBC (endocrine resistant))			
giredestrant	lidERA (adjuvant ER+/HER2- mBC)			
giredestrant + Phesgo	heredERA (1L maintenance ER+/HER2+ mBC)			
HER2 TKI	HER2+ BC			
RGT-419B* (CDK4/2i)	HR+ BC			
runimotamab (HER2xCD3)	HER2+ BC			✓ Filed

Expanding beyond HER2+ breast cancer (new cases by subtype¹)



- HER2 franchise expected to grow through 2026; Mid-term tail of ~40% of peak sales expected
- Moving into HR+ BC, with key giredestrant Ph III (persevERA/evERA) readouts expected in 2025
- Positive and transformative results for inavolisib in 1L PIK3CAm HR+ mBC - filed in US and EU; FDA BTM granted and PDUFA set for Nov 27th
- Complementing pipeline via Regor deal, adding CDK4/2 (Ph I) and CDK4 (Ph I-ready)

*Pending deal closure; 1 Cancer Stats Facts: Female Breast Cancer Subtypes. National Cancer institute. Available at: <https://seer.cancer.gov/statfacts/html/breast-subtypes.html> (Access date: May 24, 2022); PIK3CA-mut=phosphatidylinositol 3-kinase, catalytic, alpha polypeptide mutated; HR+=hormone-receptor positive; ER+=estrogen receptor positive; HER2=human epidermal growth factor receptor 2; e/mBC = early/metastatic breast cancer; AI=aromatase inhibitor; CDKi=cyclin dependent kinase inhibitor; PDUFA = prescription drug user fee act; TKI=tyrosine kinase inhibitor



Breast Cancer: Inavolisib filed in 1L *PIK3CA*-mut HR+ BC

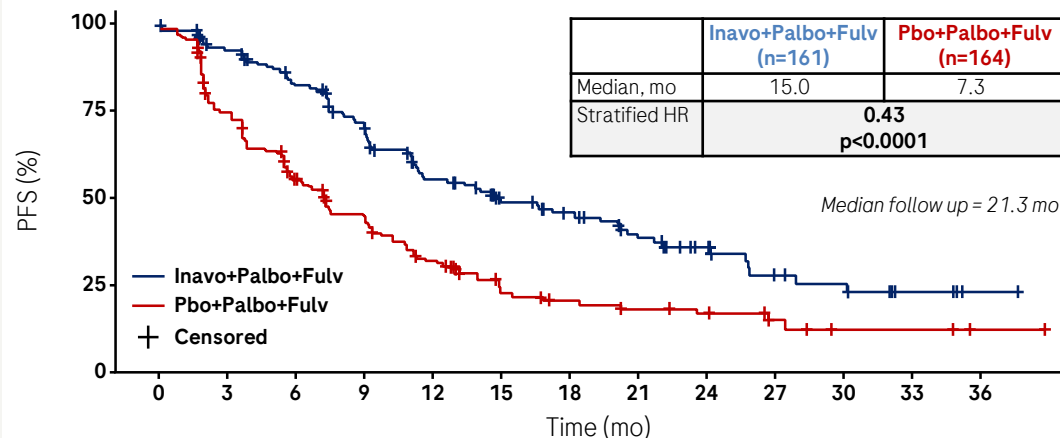
Inavolisib with BIC potential in breast cancer and beyond

Breast cancer portfolio

	Ph I	Ph II	Ph III	
inavolisib	INAVO120 (1L <i>PIK3CA</i> -mut HR+HER2-mBC (AI resistant))			✓
inavolisib	INAVO121 (post-CDK4/6 <i>PIK3CA</i> -mut HR+/HER2- BC)			
inavolisib + Phesgo	INAVO122 (1L <i>PIK3CA</i> -mut HER2+ BC)			
inavolisib	INAVO123 (1L <i>PIK3CA</i> -mut HR+/HER2-mBC (AI sensitive))			
giredestrant + palbociclib	persevERA (1L ER+/HER2- mBC (endocrine sensitive))			2025
giredestrant + everolimus	evERA (post CDKi ER+/HER2- mBC)			2025
giredestrant + any CDK4/6i	pionERA (1L ER+/HER2- mBC (endocrine resistant))			
giredestrant	lidERA (adjuvant ER+/HER2- mBC)			
giredestrant + Phesgo	heredERA (1L maintenance ER+/HER2+ mBC)			
HER2 TKI	HER2+ BC			
RGT-419B (CDK4/2i)	HR+ BC			
runimotamab (HER2xCD3)	HER2+ BC			✓ Filed

Inavolisib

Ph III (INAVO120) in 1L *PIK3CA*-mut HR+ BC - PFS results¹



PIK3CA mutation frequency

Tumor type	<i>PIK3CA</i> mut prevalence
HR+ BC	40%
HER2+ BC	30%
Ovarian Clear Cell	~33%
Endometrial	22-31%
Colorectal	13-20%
Bladder	14-20%
Cervical	11-24%
HNSCC	11-16%
Gastric	5-9%

- PFS primary endpoint met with OS immature but clear positive trend
- Manageable safety and tolerability profile for inavolisib + palbo + fulvestrant with very low discontinuation rates due to hyperglycemia AEs (~1%)
- *PIK3CA* testing well-established; INAVO120 targeting AI-resistant patients, with INAVO123 designed to expand addressable patient pool to AI-sensitive
- Potential to initiate eBC trials; 12 signal-seeking Ph Ib/II trials ongoing in various tumour types

¹ Jhaveri KL et al., SABCS 2023; *PIK3CA*-mut=phosphatidylinositol 3-kinase, catalytic, alpha polypeptide mutated; HR+=hormone-receptor positive; ER+=estrogen receptor positive; HER2=human epidermal growth factor receptor 2; e/mBC = early/metastatic breast cancer; AI=aromatase inhibitor; CDKi=cyclin dependent kinase inhibitor; PDUFA = prescription drug user fee act; TKI=tyrosine kinase inhibitor; PFS=progression-free survival; OS=overall survival; HNSCC=head and neck squamous cell carcinoma

Malignant hematology: Diverse portfolio and a broad pipeline

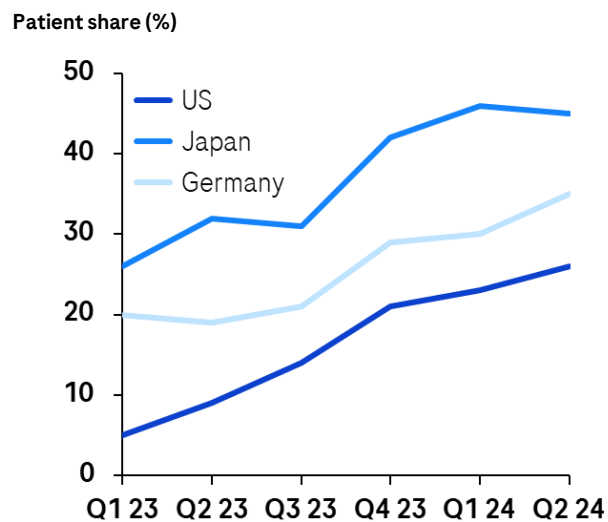
Columvi Ph III (STARGLO) in 2L+ DLBCL: positive results have been filed with global health authorities

Malignant hematology portfolio



Polivy

Market share trend (1L DLBCL, IPI 0-5)



Columvi/Lunsumio



Differentiated product profiles to meet the diverse needs of patients with NHL

- Polivy strong 1L DLBCL uptake (>33k pts treated globally); Included as 1L DLBCL SoC comparator in >15 Ph I & II studies*; POLARIX 5yr data submitted to upcoming medical congress
- Comprehensive Columvi/Lunsumio development program; Positive Columvi Ph III (STARGLO) in 2L+ DLBCL have been filed with global regulators; Positive pivotal trial of Lunsumio SC in 3L+ FL
- Broad hematology pipeline in DLBCL and FL; expanding into additional disease areas, including allogeneic CAR-Ts in B-cell malignancies & MM

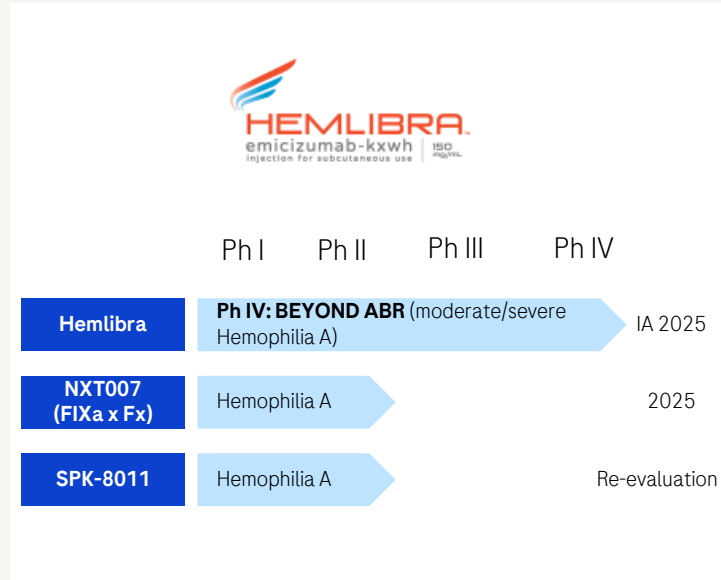
Note: Venclaxta sales booked by AbbVie; *Only studies not sponsored by Roche and listed as active on clinicaltrials.gov (accessed September 2024); FL=follicular lymphoma; DLBCL=diffuse large B-cell lymphoma; MCL=mantle cell lymphoma; MM=multiple myeloma; R/R=relapsed/refractory; CAR=chimeric antigen receptor; CR=complete response; CRS=cytokine release syndrome; SoC=standard of care; NHL=Non-Hodgkin's lymphoma; IPI=international prognostic index; P-CD19CD20-ALLO1 and P-BCMA-ALLO1 in collaboration with Poseida Therapeutics



Hemophilia A: Hemlibra the global SoC with extensive real-world data

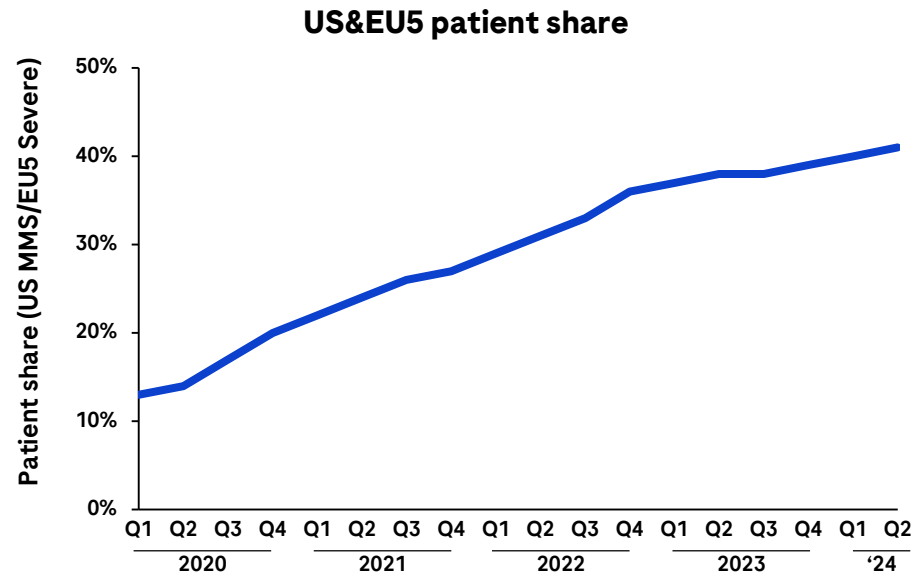
Achieving ~80% zero treated bleeds with a convenient administration

Hemophilia A portfolio



- BEYOND ABR evaluating overall health, physical activity, and joint outcomes
- NXT007 with the potential to achieve zero treated bleeds for Hem A pts, without need for additional FVIII treatment
- SPK-8011 Ph III trial paused and HemA gene therapy approach being re-evaluated

Hemlibra



New vial options
More choices & less wastage

Updated admin kit
Simplified prep & smaller needle

Autoinjector (in development)
non-visible needle & improved comfort

- Global SoC in Hemophilia A with 41% pts share in US&EU5; Further penetration among moderate/severe patients who remain on FVIII
- Outstanding profile with >2/3 pts on Q2W or Q4W SC dosing, ca. 80% zero bleeds* and without inducing FVIII inhibitor development
- Continuous improving convenience, including autoinjector development; Roche working on expedited timeline with regulators to bring the device to patients as fast as possible

*Based RWD from McCary I, et al. Haemophilia 2020, Wall C, et al. ISTH 2020, Poon M-C, et al. ASH 2022 and Khairnar R, et al. ASH 2021; SOC=standard of care; Q2W/Q4W=once every 2/4 weeks; SC=subcutaneous; MMS=mild-moderate-severe; IA=interim analysis



Multiple sclerosis: Ocrevus Zunovo™ (SC) US approval achieved

Ocrevus Zunovo™ with strong US label; Positive fenebrutinib Ph II (FENopta) relapse data presented at ECTRIMS

Multiple sclerosis portfolio



	Ph I	Ph II	Ph III
Ocrevus SC	OCARINA II (RMS & PPMS)		✓
Ocrevus HD	MUSETTE/GAVOTTE (RMS & PPMS)		2025
fenebrutinib	FENhance 1/2 (RMS)		2025
fenebrutinib	FENtrepid (PPMS)		2025
fenebrutinib	FENopta (RMS)		
BrainShuttle™ CD20	MS		

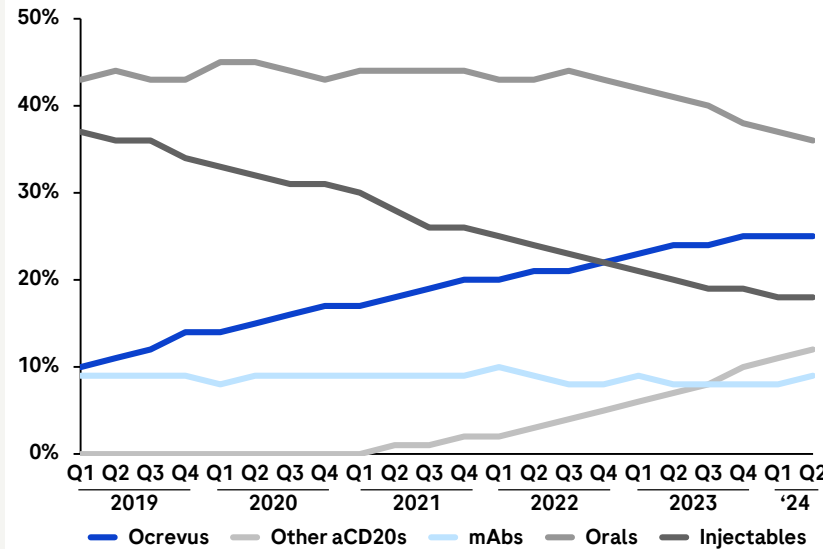
✓ Approved

- Ph III readouts expected in 2025 for Ocrevus HD (RMS & PPMS) and fenebrutinib in (RMS & PPMS)

Ocrevus

ECTRIMS 2024

MS total patient share (global)*



Ph IV (MINORE/SOPRANO) results for family planning



Negligible Ocrevus transfer through placenta and breast milk



No increased adverse impact to infant B-Cell levels or health outcomes



Safety in pregnant/breastfeeding women consistent with well-established safety profile in RMS and PPMS

- Ocrevus Zunovo™ markedly reduces administration time to 10 min; retains Q6M dosing that has demonstrated high compliance and strong patient preference
- Ocrevus Zunovo™ with potential to drive market expansion in IV constraint settings and overcome non-preference for IV in SC/oral segment
- Positive Ph IV (MINORE/SOPRANO) show potential for Ocrevus to become the treatment of choice for patients considering family planning

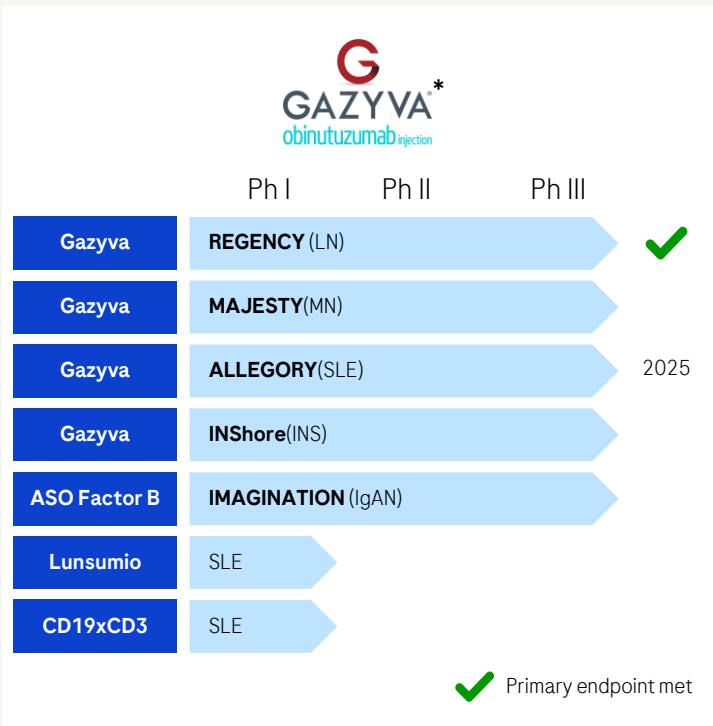
*Global patient share includes US, I8, JP; ABCREPs includes interferons and Copaxone, Other mAbs includes Tysabri, Lemtrada, and Zinbryta; Other CD20 includes Kesimpta, Briumvi; MS=multiple sclerosis; RMS=relapsing MS; PPMS=primary progressive MS; SC=subcutaneous; HD=high dose; IV=intravenous; HE/LE=high/low-efficacy; Ocrevus Zenuvo with Halozyme's rHuPH20/ Halozyme's human hyaluronidase



Immunology kidney: Positive Ph III for Gazyva in lupus nephritis

New Immunology strategy, including bispecifics moving into autoimmune diseases

Immunology kidney portfolio



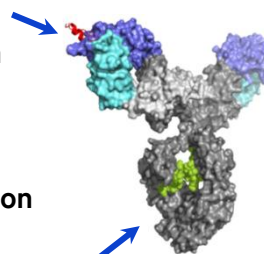
- MN, SLE and INS: Complementary indications of the Gazyva program
- Gazyva with BID potential in MN, SLE and childhood onset INS

Gazyva

Glycoengineered anti-CD20 mAb

Type II anti-CD20 region

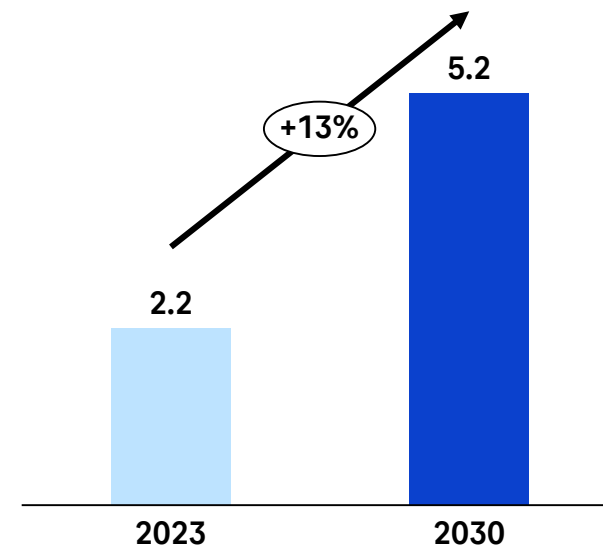
- Increased direct cell death
- Decreased CDC
- Reduced internalization



Glycoengineered Fc region

- Higher FcγR affinity
- Increased ADCC/ADCP

LN market¹ (USD\$ bn, CAGR in %)



- Phase III (REGENCY) of Gazyva in LN met its primary endpoint of CRR, showing superiority over SoC; results to be shared with global health authorities and to be presented at a future medical conference
- Safety was in-line with the well-characterized safety profile of Gazyva; no new safety signals
- Global lupus nephritis market is expected to grow at a CAGR 2023-30 of 13%

¹ Evaluate Pharma; LN=lupus nephritis; MN=membranous nephropathy; SLE=systemic lupus erythematosus; INS=Idiopathic nephrotic syndrome (Childhood onset INS also known as PNS=Pediatric nephrotic syndrome); BID=best-in-disease; ASO=anti-sense oligonucleotide; IgAN=IgA Nephropathy; CRR=complete renal response; SoC=standard of care; *pending approval of Gazyva in LN; ASO Factor B in partnership with Ionis Pharmaceuticals



Retinal vascular disorders: Vabysmo US market shares continuing to grow

Vabysmo pre-filled syringe launched in the US; Susvimo US commercial relaunch in nAMD commencing

Retinal vascular disorders portfolio

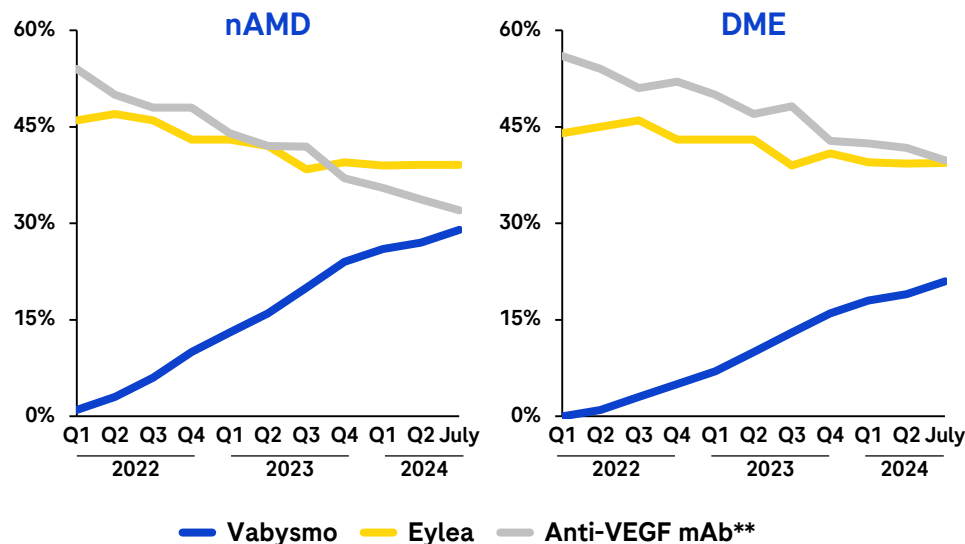


	Ph I	Ph II	Ph III	
Vabysmo	POYANG (CNV)			
Susvimo	PAGODA/PAVILION (DME/DR)			✓
vamikibart	SANDCAT/MEERKAT (UME)			2025
vamikibart	BARDENAS/ALLUVIUM (DME)			2025
satralizumab	SatraGO-1/2 (TED)			
OpRegen	GA			
zifibancimig VEGF-Ang2 DutaFab	BURGUNDY (nAMD)			✓ Filed

- Vabysmo in RVO: EU approval achieved
- Susvimo in DME/DR: US filing accepted

Vabysmo

US patient share since launch*



Pre-filled syringe launch



Simple, one-handed dose adjustment for fast administration
 Potential to broaden uptake, including in the 1L setting

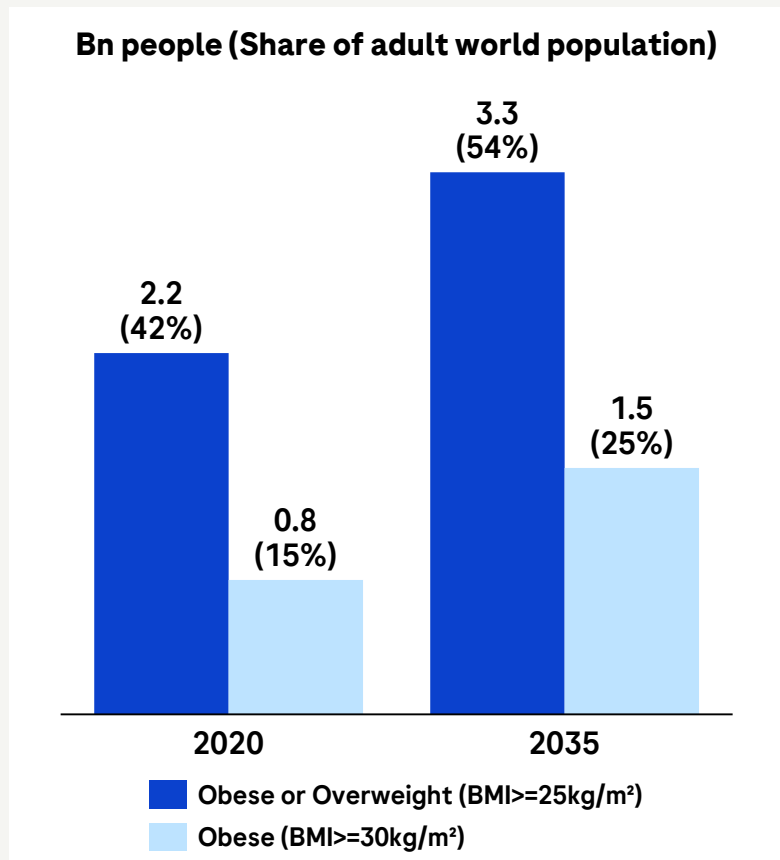
- Vabysmo with continued market share gains and increasing penetration in naive patients
- Growing body of RWD with >50k pts substantiates treatment benefits seen in clinical trials
- Vabysmo first and only bispecific antibody for the eye available in a pre-filled syringe in the US; EU filing ongoing
- Susvimo US commercial relaunch in nAMD commencing; ex-US 2025+

*Claims data based on Verana shares through July 2024; **Avastin, Lucentis and biosimilars; nAMD=neovascular age-related macular degeneration; DME=diabetic macular edema; DR=diabetic retinopathy; RVO=retinal vein occlusion; TED=thyroid eye disease; GA=geographic atrophy; CNV=choroidal neovascularization; RWD=real-world data; OpRegen in collaboration with Lineage Cell Therapeutics

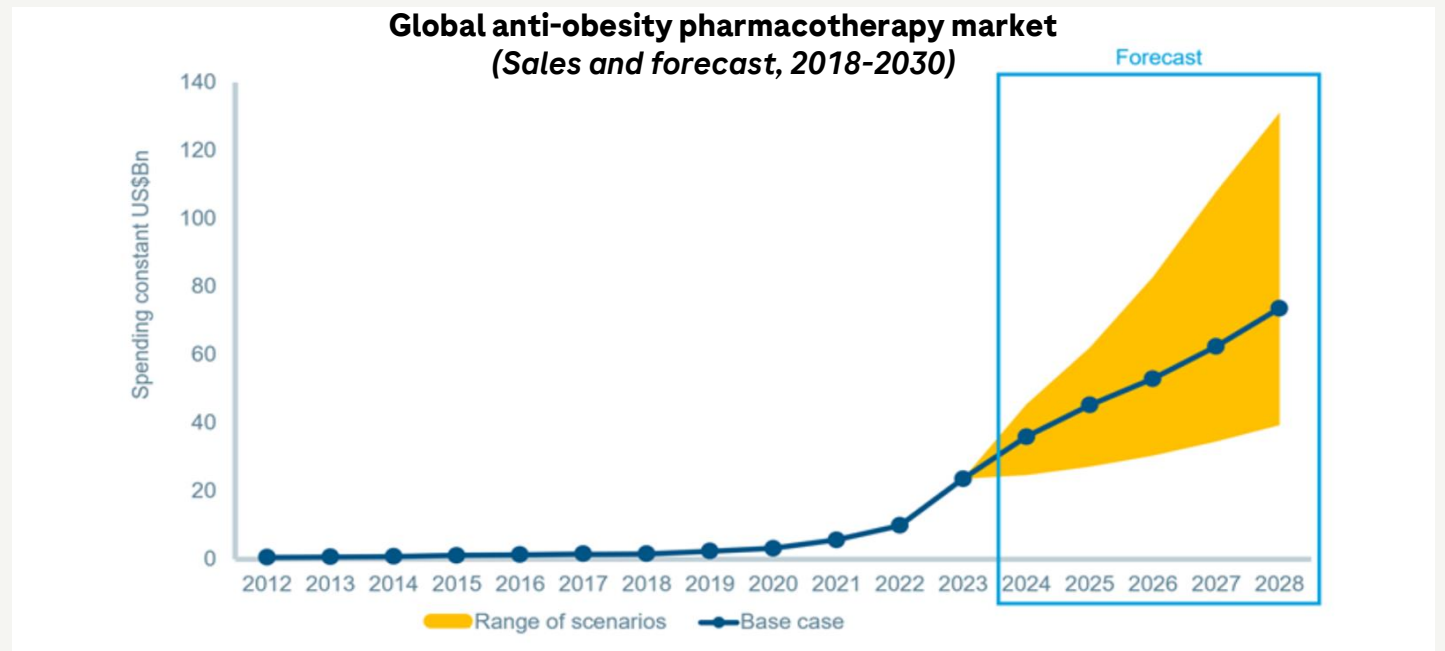
Anti-obesity market is expanding significantly

> 50% of global population expected to be obese/overweight by 2035

Global obese/overweight population¹



Obesity market could grow beyond 100bn US\$ by 2030²



- Growth in prevalence combined with the launch of innovative treatments for diabetes and obesity are expected to grow the overall market for metabolism Rx
- Obesity one of the fastest growing market segments

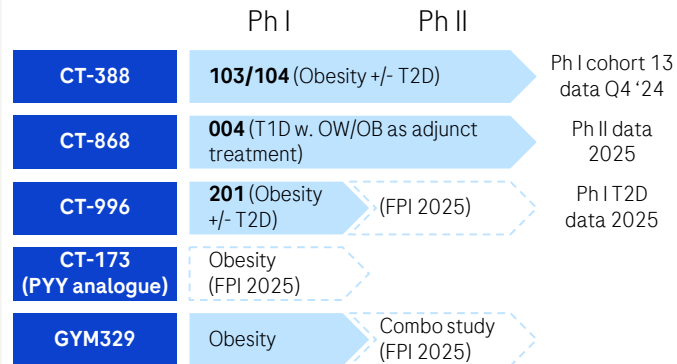
1. World Obesity Federation. World Obesity Atlas 2024. Accessed August 14, 2024. <https://data.worldobesity.org/publications/WOF-Obesity-Atlas-v7.pdf>, 2. 2024: The obesity market's inflection point?, IQVIA

Obesity: Pipeline with potentially unique combination opportunities

Despite numerous approved treatments, unmet need remains; Roche set up to leverage Obesity opportunity



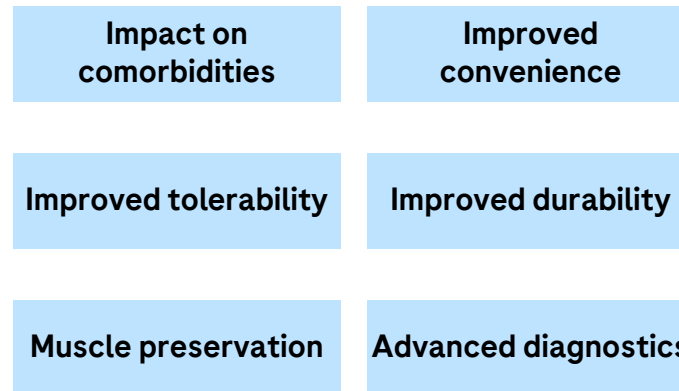
Obesity portfolio



- Pipeline of potentially differentiated assets
- Positive Ph I data for CT-388 & CT-996 shared at EASD
- CT-868 Ph II data expected in 2025
- CT-173 Ph I in obesity to initiate in 2025

Roche's obesity pipeline

Unmet need



Differentiation strategy

- Efficacy / safety by NME
- Combinations & comorbidities
- Holistic patient solutions
- Market segmentation

- CT-388 and CT-996 with BIC potential, as well as CT-868 with BIC/FIC potential in OW/OB patients with T1D, based on Ph I results
- Obesity market expected to segment by e.g. comorbidities, weight loss goal or oral vs SC
- Combination potential with Roche assets in several TAs; Expansion into adjacent indications
- SC devices in development; synergies with Roche DIA Diabetes and Digital Health solutions

Pharma Strategy

Therapeutic Areas & focus diseases

Our core capabilities

Significant future growth opportunities

How we succeed: Our Core Capabilities

Modalities & Technologies



Focus on approaches with breakthrough potential in focus TAs & diseases

Devices



Making devices an integral part of our assets, from R&D to commercialization

Manufacturing



Optimizing and future-proofing our manufacturing network

Customer Experience & Access



Providing a holistic customer experience & enabling rapid, broad & sustainable access

Data & AI



Leveraging data and generative AI to improve process efficiency

Our People

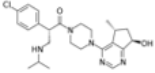

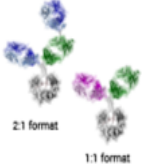
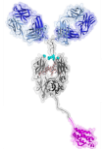
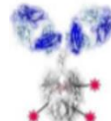










Creating a culture that allows our people to thrive in our Pharma division



Diversified portfolio of technologies and modalities

Newest platform technologies brain shuttle and cyclic peptides have entered the pipeline

		 <p>2:1 format 1:1 format</p>						
<p>Small molecules</p> <ul style="list-style-type: none"> divarasib inavolisib giredestrant fenebrutinib CT-996 zosurabalpin AR degrader BRAF inh. (3) HER2 TKI² SPYK04 USP1 inh. WRN covalent inhibitor selnoflast LepB inhibitor 	<p>Monoclonal antibodies</p> <ul style="list-style-type: none"> IL-6mAb vixarelimab GYM329 anti-TL1A³ astegolimab prasinezumab tiragolumab anti-latent TGFβ1 (SOF10) CD137 switch antibody 	<p>Bispecifics / trispecifics</p> <ul style="list-style-type: none"> anti-CLDN6 trispecific glypican-3 x CD3a runimotamab (HER2 X CD3) cevastamab FIXa x FX VEGF-ANG2 DutaFab 	<p>Fusion proteins</p> <ul style="list-style-type: none"> eciskafusp alfa (PD1-IL2v) efbalropendekin alfa (IL15/IL15Ra-Fc) FAP-4-1BBL 	<p>Antibody Drug Conjugates (ADC)</p> <ul style="list-style-type: none"> cMET⁵ pre-clinical 	<p>Brain Shuttle</p> <ul style="list-style-type: none"> trontinemab Brain shuttle CD20 	<p>Peptides</p> <ul style="list-style-type: none"> CT-388 CT-868 	<p>Cyclic peptides</p> <ul style="list-style-type: none"> LUNA18 	<p>RNA molecules</p> <ul style="list-style-type: none"> ASO factor B tominersen zilebesiran⁴
					 <p>Neoantigen vaccines</p> <ul style="list-style-type: none"> autogene cevumeran 	 <p>Gene therapy</p> <ul style="list-style-type: none"> Elevidys 	 <p>Allogeneic CAR-T cells</p> <ul style="list-style-type: none"> P-BCMA-ALLO1¹ P-CD19CD20-ALLO1¹ 	 <p>Stem Cell therapy</p> <ul style="list-style-type: none"> OpRegen

Strong legacy of pioneering new drug modalities, e.g. mAbs, ADCs and bispecifics

*list is not extensive; 1. Poseida Therapeutics managed; 2. Zion Pharma managed; 3. Telavant managed; 4. Alnylam Pharmaceuticals managed; 5. MediLink managed; CAR=chimeric antigen receptor

Increased focus on drug delivery devices

Significant investments in device development excellence will be critical to support our future portfolio

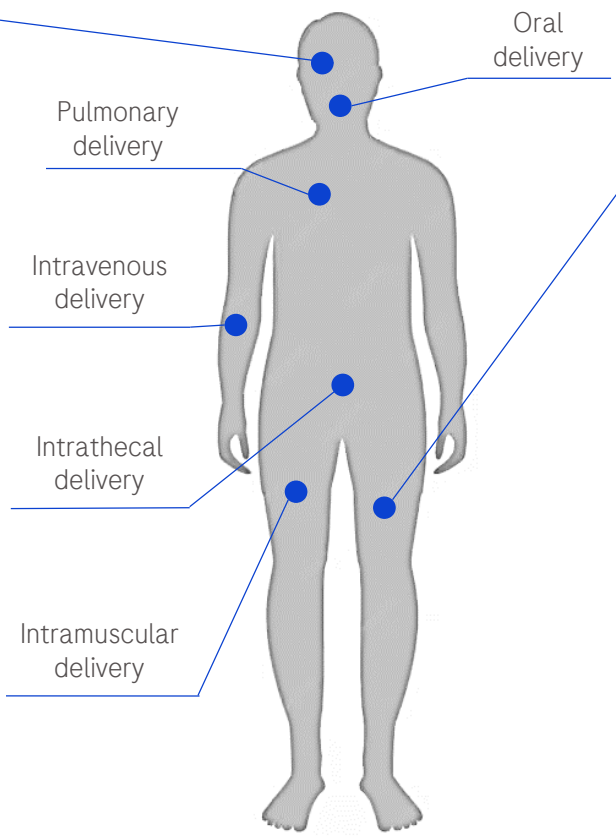
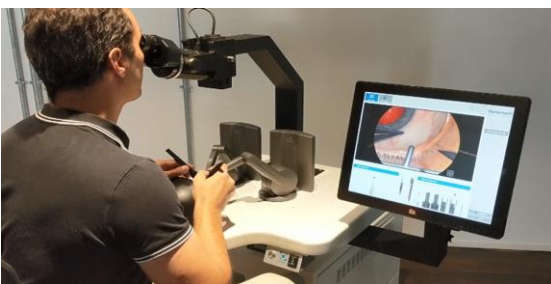
Intravitreal delivery



Pre-filled syringe for ophthalmic use



Intravitreal drug delivery implants



Subcutaneous delivery



Pre-filled syringe/ needle safety device



(High-volume) autoinjector



On-body injector

~60% of current pipeline NMEs and LEs will launch with a device










Establishing our resilient manufacturing network of the future

Global network investments to enable portfolio evolution

Network of the future

Milestones achieved

	Biologics
	Small molecules
	Cell and gene therapy
	Peptide
	Oligo
	ADC
	Geographical footprint

Modular technology & optimized capacity
State of the art clinical development and launch capabilities
Pioneer new capabilities
Pioneer new capabilities; Pivot to internal at later stage
Fit-for-purpose network leveraging external capabilities
Internal capacity drug substance and drug product filling
Global manufacturing footprint (North America, Europe, Asia)

Single-use technology, modular filling & process intensification; Vacaville divestment
Basel modernization investment (CHF 0.6bn new small molecule facility)
Hillsboro and Penzberg Cell & Gene Therapy capability build-up
Manufacturing strategy for GLP-1s established
Strategic partnership established for oligo
E2E value chain for ADC established
China manufacturing footprint initiated

Process development and supply chain optimization work ongoing, with goal to drive down COGS

ADC=antibody drug conjugate; E2E=end-to-end; COGS=cost of goods sold



Leeway to invest in new drug modalities, including peptides

Enabled by manufacturing network optimization and ongoing productivity improvement

Incretin manufacturing strategy

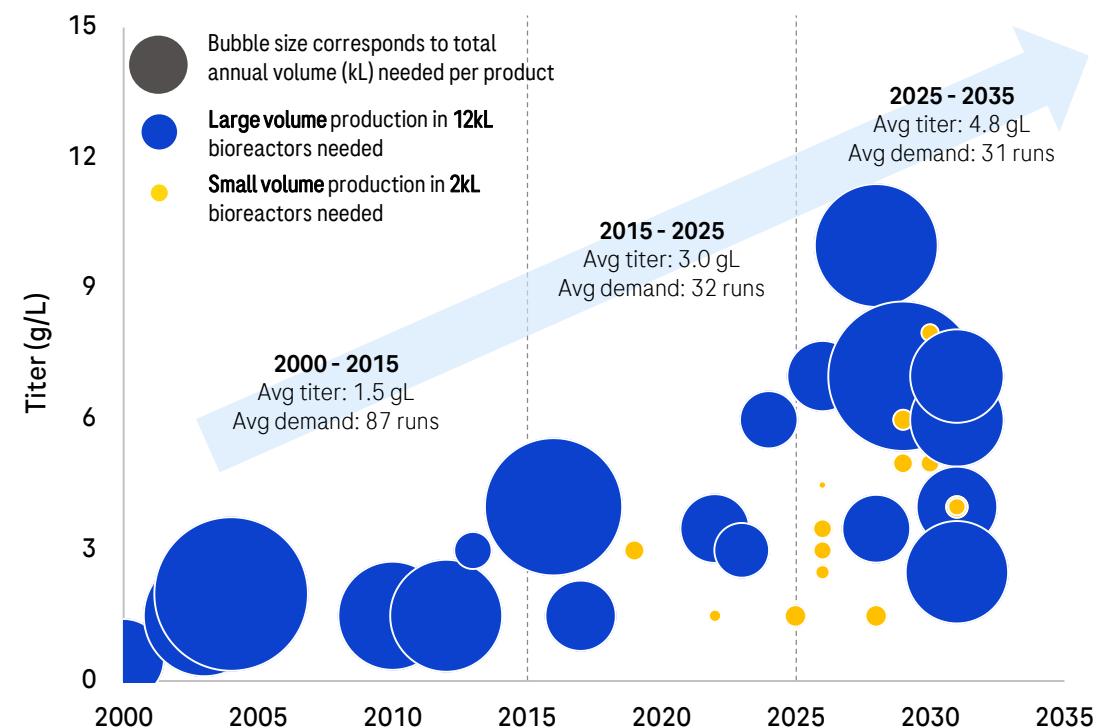
CT-388 / CT-868: Injectable peptides

- Clinical supply secured at CDMOs (no near-term capacity constraints)
- Commercial production will require a mix of in-house and external manufacturing
 - Build requirements could be managed within existing Roche CAPEX budget (p.a. ~3.5-4bn)
 - CDMO network expected to add capacity by time of launch
- In-house device development capabilities & strategic partnerships for devices to support obesity portfolio

CT-996: Oral, small molecule

- CT-996 is a small molecule with streamlined chemical synthesis
- Production will be supported by Roche manufacturing network

Biologics portfolio evolution with 5-fold productivity increase from 2000 to 2030





Roche has a track record in reaching leadership in new markets

Leveraging learnings from successful launches for upcoming expansion into IBD and CVRM

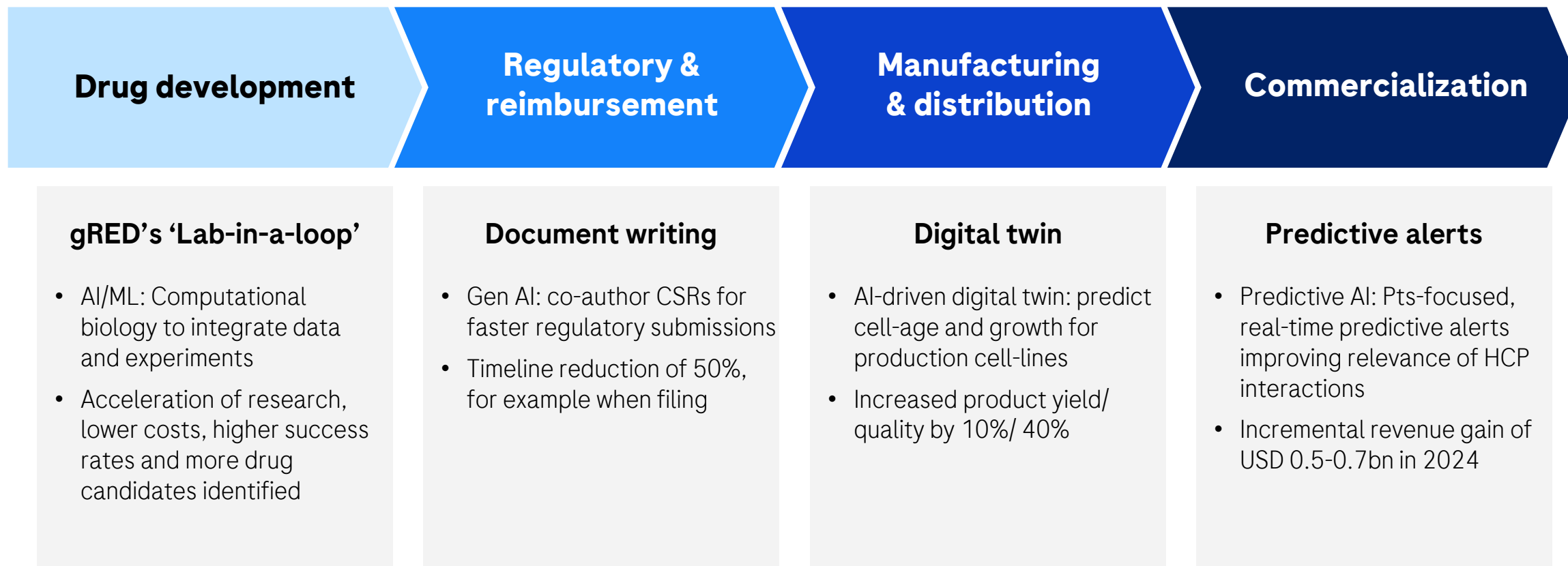
	Market at time of launch	Commercialization approach	Result
 OCREVUS® <small>ocrelizumab</small> Multiple sclerosis	<ul style="list-style-type: none"> Highly competitive market with >10 available DMTs Unmet need for high efficacy DMT 	<ul style="list-style-type: none"> Pre-launch market shaping Responsible US pricing strategy Tailored patient navigation support 	<p>A global market leader in MS¹</p> <p>>350,000 patients treated</p>
 HEMLIBRA <small>emicizumab-kxwh</small> Hemophilia A	<ul style="list-style-type: none"> Highly competitive market; companies with decades of experience Critical success factor: company trust 	<ul style="list-style-type: none"> Strong KOL & advocacy relationships Rare diseases-focused field teams Innovative mechanisms for access 	<p>A global market leader in Hem A¹</p> <p>>26,000 patients treated</p>
 VABYSMO nAMD/DME/RVO	<ul style="list-style-type: none"> Strong entrenched competitor First Lucentis biosimilars approved Roche new to ophthalmology ex-US 	<ul style="list-style-type: none"> Rapid access secured in major markets within 6 months of launch DTC empowering patients in the US Integrated RWD generation 	<p>Rapid market share gains</p> <p>Increasing penetration in naïve patients</p>

¹ In all must win markets (US, CN, JP, DE, UK, FR, IT, ES, CA); IBD=inflammatory bowel disease; CVRM=cardiovascular, renal and metabolism; DMTs=disease-modifying therapies



Leveraging AI to increase overall Pharma productivity

Selected AI use cases along the value chain



AI-enabled solutions increasing efficiencies and productivity



Our people: Critical enablers for our new Pharma Strategy

We commit to creating a culture where our people can thrive across the Pharma Division

An attractive employer

We strive to hire, develop and retain the best people in the industry; providing an environment for talent to thrive across their career

High performing organisation

We purposefully commit to the five conditions of a High Performing Organisation - elevating our performance and delivery

People Strategy pull through

We deliver the People Strategy - a simplified and focused approach ensuring current and future activities have the greatest collective impact

Ways of working

We elevate our ways of working¹ across the Pharma Division

¹ Put patients first, follow the science, act as one team, embrace differences, accelerate learning, simplify radically, make impact now, think long term

Pharma Strategy

Therapeutic Areas & focus diseases

Our core capabilities

Significant future growth opportunities

Peak sales potential of key pipeline assets (NMEs and LEs)

New Molecular Entities (NME)

giredestrant HR+ BC		prasinezumab Parkinson's disease		astegolimab COPD	
inavolisib Pi3Km BC		fenebrutinib RMS, PPMS		ASO Factor B IgAN	
divarasib KRAS+ NSCLC, CRC		Elevidys¹ DMD		vamikibart DME/UME	
tiragolumab NSCLC, uHCC, ESCC		GYM329 SMA, FSHD		CT-388/CT-996/CT-868 Obesity, T1D, T2D	
trontinemab Alzheimer's disease		anti-TL1A mAb IBD		zilebesiran hypertension	

- 7+ NMEs with CHF >3bn peak sales potential per asset
- 4 NMEs with CHF 2-3bn peak sales potential per asset

Line Extensions (LE)



Columvi 2L DLBCL, 1L DLBCL		PiaSky PNH, aHUS, SCD		Enspryng MOGAD, AIE, TED	
Lunsumio 2L DLBCL, R/R FL, 1L FL		Ocrevus² SC, high dose		Gazyva LN, SLE, MN, PNS	

- 6 marketed products with LEs that could add CHF 1-2bn peak sales potential per asset



Please find corresponding trial populations in the appendix

2025: Significant key newsflow ahead*

	Compound	Indication	Milestone
 Regulatory	inavolisib + palbociclib + fulvestrant	1L <i>PIK3CA</i> -mut HR+ BC	EU approval
	Columvi + GemOx	2L+ DLBCL	US/EU approval
	Elevidys	DMD	EU approval
	Gazyva	Lupus nephritis	US/EU filing; US approval
	Susvimo	DME/DR	US approval
	Susvimo	nAMD	EU filing
	giredestrant + palbociclib	1L ER+ mBC	Ph III persevERA
	giredestrant + everolimus	ER+ BC	Ph III evERA
	Lunsumio + Polivy	2L+ DLBCL	Ph III SUNMO
	Lunsumio + lenalidomide	2L+ FL	Ph III CELESTIMO
 Clinical results	Venclexta + azacitidine	1L MDS	Ph III VERONA
	PiaSky	aHUS	Ph III COMMUTE-a
	Ocrevus HD	RMS/PPMS	Ph III MUSETTE/GAVOTTE
	fenebrutinib	RMS	Ph III FENhance 1/2
	fenebrutinib	PPMS	Ph III FENTrepid
	astegolimab	COPD	Ph II/III ARNASALIA/ALIENTO
	Gazyva	SLE	Ph III ALLEGORY
	vamikibart	UME	Ph III SANDCAT/MEERKAT
	vamikibart	DME	Ph II ALLUVIUM/BARDENAS
	trontinemab	AD	Ph Ib/Ila Brainshuttle™ AD
	Evrysdi + GYM329	SMA	Ph II MANATEE
	GYM329	FSHD	Ph II MANOEUVRE
	zilebesiran	Hypertension with high CV risk	Ph II KARDIA-3
	CT-868 (QD SC)	T1D with Obesity	Ph II
	CT-996 (QD oral)	Obesity with T2D	Ph I (Arm 3)

*Outcome studies are event-driven: timelines may change

R&D Excellence

Levi Garraway

EVP, Global Head of Product Development and Chief Medical Officer

By 2030, we aspire to



Consistently deliver many of the world's **most impactful medicines** (20 transformative medicines¹ by end 2029)



Reach **top-quartile performance** in R&D productivity across the biopharma industry

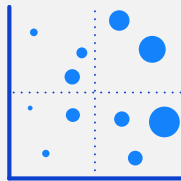


1. Reaching 'Bar' criteria: Future medicines that can have high impact for patients, higher revenue potential, and optimized risk

R&D Excellence: Our solutions

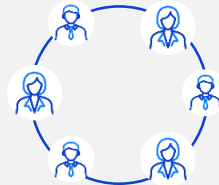
We identified six solutions to achieve top quartile performance - with implementation ongoing

Adopt a unified portfolio framework



Introduce the 'Bar' to recognize assets with transformative potential

Transform our portfolio management & governance



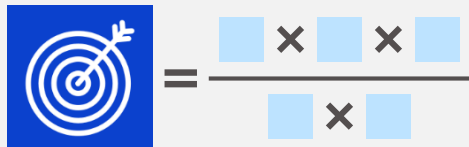
Reconfigure end-to-end governance to meet the 'Bar'

Access the best external innovation



Identify and bring in exciting external assets which clear the 'Bar'

Embrace ambitious R&D objectives



Set bold R&D objectives linked to Pharma ambition

Evolve our R&D engine and invest in its excellence



Invest in technologies and platforms that enable top-tier R&D productivity

Align our incentives with the new R&D strategy

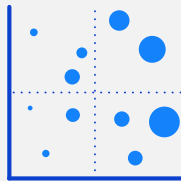


Link our R&D productivity objectives to individual and team performance

R&D Excellence: Our solutions

We identified six solutions to achieve top quartile performance - with implementation ongoing

Adopt a unified portfolio framework



Introduce the 'Bar' to recognize assets with transformative potential

Transform our portfolio management & governance



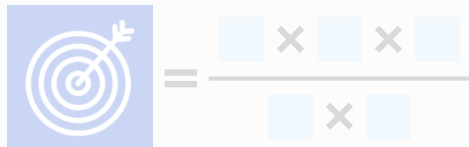
Reconfigure end-to-end governance to meet the 'Bar'

Access the best external innovation



Identify and bring in exciting external assets which clear the 'Bar'

Embrace ambitious R&D objectives



Set bold R&D objectives linked to Pharma ambition

Evolve our R&D engine and invest in its excellence



Invest in technologies and platforms that enable top-tier R&D productivity

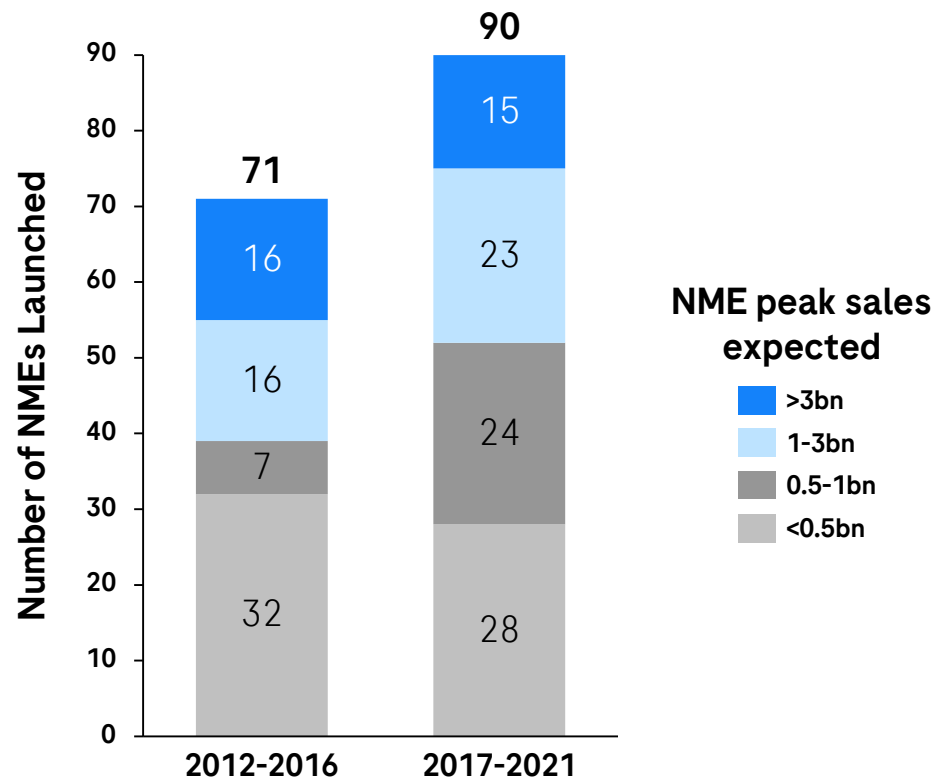
Align our incentives with the new R&D strategy



Link our R&D productivity objectives to individual and team performance

The world's most valuable medicines

NME peak sales expectations at launch for top 10 Pharma



Number of blockbusters (FY 2023 sales in USD)

Category	Count
'Unicorn' (>10bn)	8
Uber-blockbuster (5-10bn)	19
Mega-blockbuster (3-5bn)	21
Blockbuster (1-3bn)	151

Adopt a unified portfolio framework

Using the 'Bar' to identify and invest sufficiently in medicines with transformative potential



We have applied the 'Bar' across our entire pipeline of clinical stage assets - and it is now built-in to our governance and portfolio reviews. This has resulted in three specific accomplishments:

- a Identification of promising, partially de-risked programs** likely to clear the 'Bar' that merit increased investment
- b 'Fast-track' of selected programs** that clear the 'Bar' and can bring exceptional value to patients and Roche
- c Removal of projects/programs** that cannot meet the 'Bar', and re-prioritising these resources to higher impact assets

‘Fast-track’ of selected programs

Initial set of assets designated for acceleration based on exceptional potential

Asset	Acceleration
anti-TL1A Inflammatory Bowel Disease ¹	Ph III
Trontinemab Alzheimer’s Disease	Ph III
CT-388 Obesity	Ph II & Ph III

Examples of potential acceleration levers:



Expediting enrollment with additional clinical trial sites



Reallocating resources to accelerate



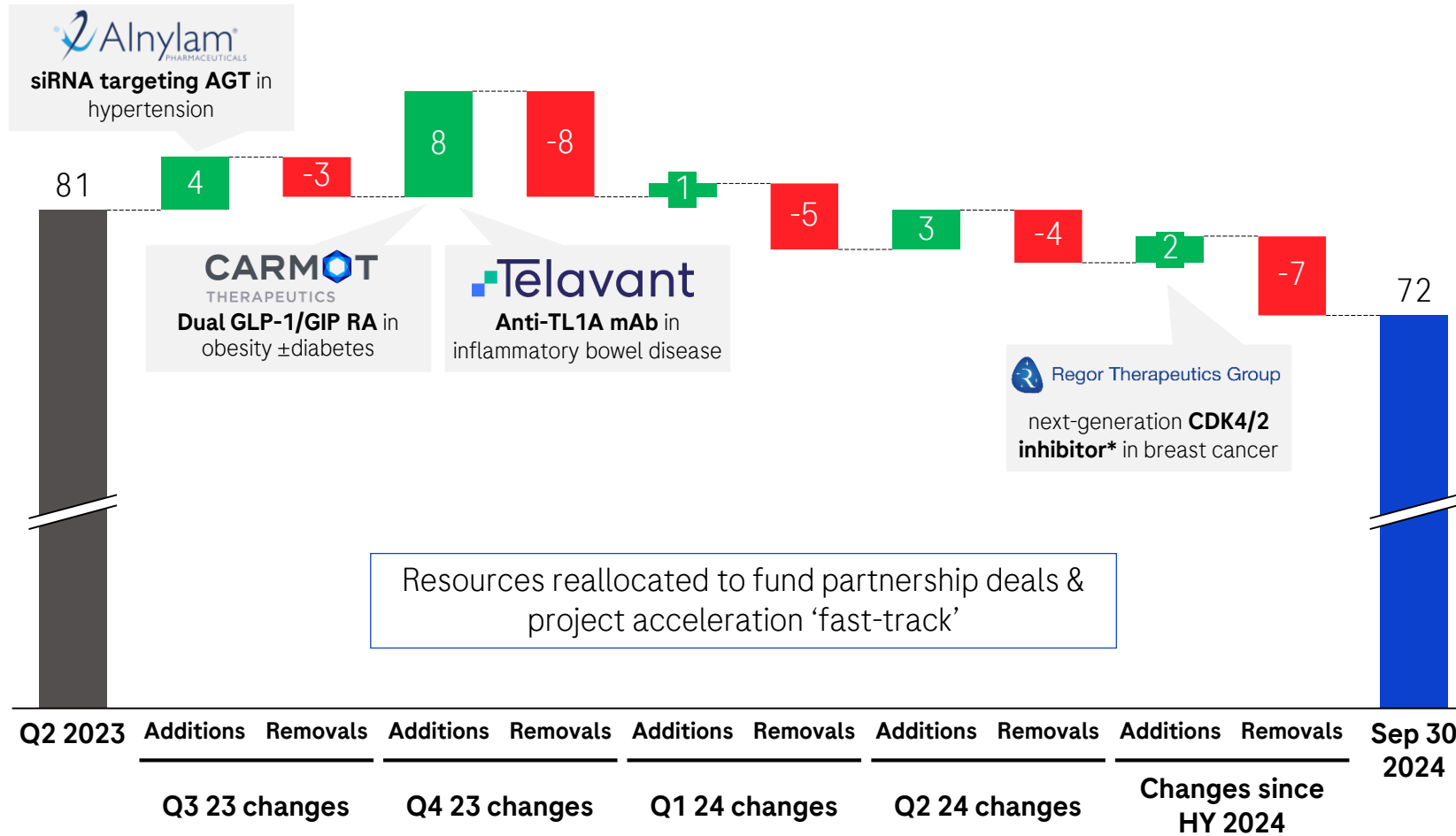
Expanding into additional indications to maximize potential

These assets are only a starting point, with the option to extend the effort to more assets in the future

¹ Includes both Ulcerative Colitis and Crohn’s Disease; TL1-A=tumor necrosis factor-like cytokine 1A

Pharma pipeline evolution since Pharma Day 2023

Since Pharma Day 2023, 17 NMEs were added and 26 NMEs removed, resulting in a higher impact portfolio



Pipeline changes since Q2'23

17 Additions

- 8 Ph I/Ph II NMEs acquired as part of high value partnerships
- 9 Ph I were added to the pipeline from internal feeding

26 Removals

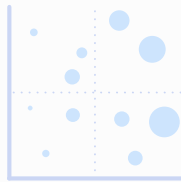
- 9 NMEs terminated - not meeting the 'Bar'
- 17 NMEs exited the pipeline (including one approval)

*pending deal closure; siRNA=small interfering RNA; AGT=angiotensinogen; TL 1A=Tumor necrosis factor-like cytokine 1A; GLP-1=glucagon-like peptide-1; GIP=glucose-dependent insulinotropic polypeptide; CDK4/2=cyclin dependent kinase-4/2; RA=receptor agonist; mAb=monoclonal antibody; NME=new molecular entity; Note: Chart Includes all assets from Ph I to Registration

R&D Excellence: Our solutions

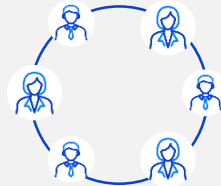
We identified six solutions to achieve top quartile performance - with implementation ongoing

Adopt a unified portfolio framework



Introduce the 'Bar' to recognize assets with transformative potential

Transform our portfolio management & governance



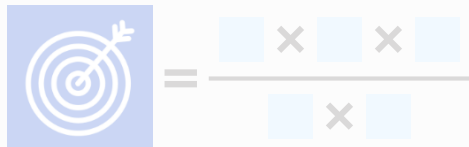
Reconfigure end-to-end governance to meet the 'Bar'

Access the best external innovation



Identify and bring in exciting external assets which clear the 'Bar'

Embrace ambitious R&D objectives



Set bold R&D objectives linked to Pharma ambition

Evolve our R&D engine and invest in its excellence



Invest in technologies and platforms that enable top-tier R&D productivity

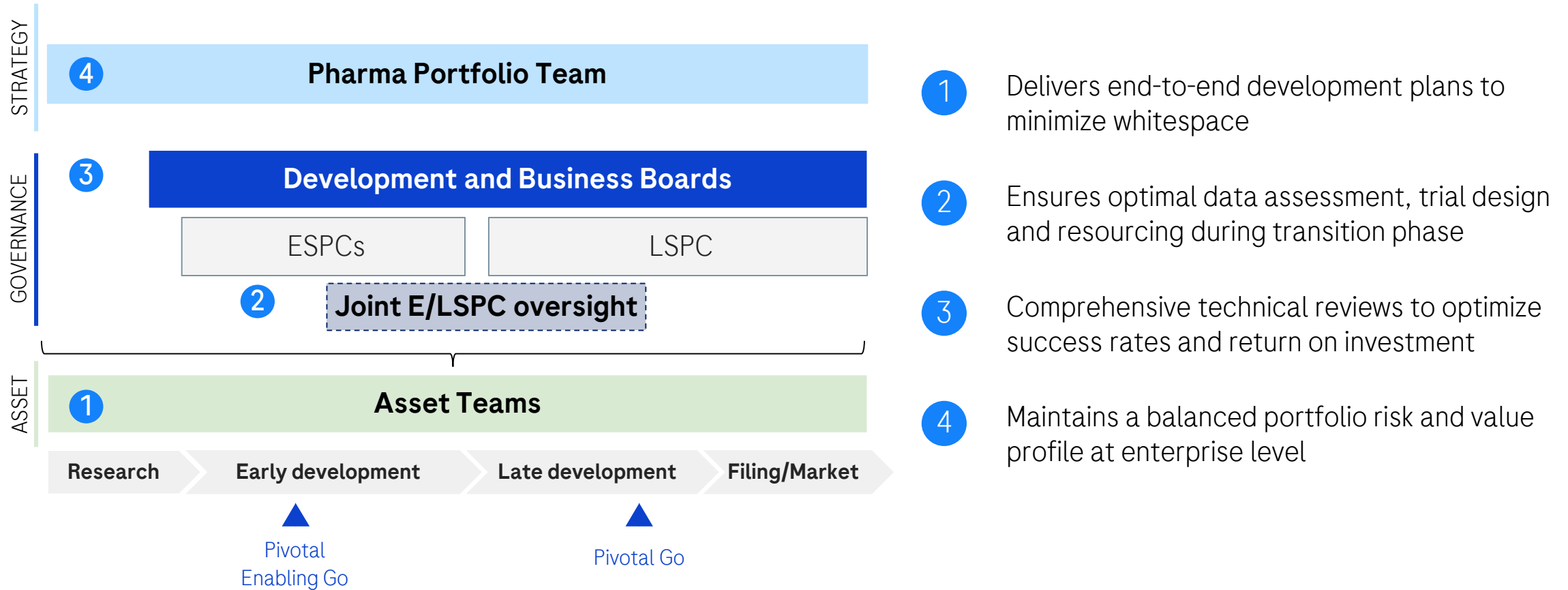
Align our incentives with the new R&D strategy



Link our R&D productivity objectives to individual and team performance

Reconfiguring governance and strategic portfolio management

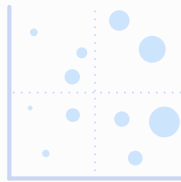
Transforming our portfolio oversight and end-to-end governance to execute the 'Bar' and increase our PTS



R&D Excellence: Our solutions

We identified six solutions to achieve top quartile performance - with implementation ongoing

Adopt a unified portfolio framework



Introduce the 'Bar' to recognize assets with transformative potential

Transform our portfolio management & governance



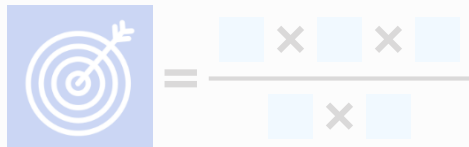
Reconfigure end-to-end governance to meet the 'Bar'

Access the best external innovation



Identify and bring in exciting external assets which clear the 'Bar'

Embrace ambitious R&D objectives



Set bold R&D objectives linked to Pharma ambition

Evolve our R&D engine and invest in its excellence



Invest in technologies and platforms that enable top-tier R&D productivity

Align our incentives with the new R&D strategy



Link our R&D productivity objectives to individual and team performance

Access the best external innovation

Partnering and acquisitions over the past year clearly met the ‘Bar’ criteria

Recent acquisitions

Portfolio impact

Entered high-impact partnerships since commencing R&D Excellence, e.g.,



Roche announces asset purchase* with Regor Therapeutics to acquire its next-generation CDK inhibitor portfolio in breast cancer

- Business Development deals exemplify characteristics of the ‘Bar’
- Assets that entered portfolio have a higher PTS

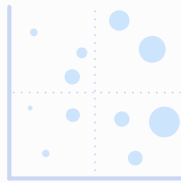


*pending deal closure; CDK=cyclin dependent kinase; PTS=probability of technical success

R&D Excellence: Our solutions

We identified six solutions to achieve top quartile performance - with implementation ongoing

Adopt a unified portfolio framework



Introduce the 'Bar' to recognize assets with transformative potential

Transform our portfolio management & governance



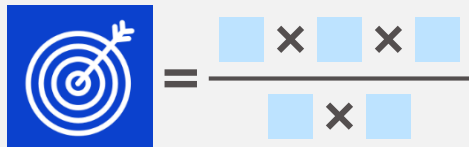
Reconfigure end-to-end governance to meet the 'Bar'

Access the best external innovation



Identify and bring in exciting external assets which clear the 'Bar'

Embrace ambitious R&D objectives



Set bold R&D objectives linked to Pharma ambition

Evolve our R&D engine and invest in its excellence



Invest in technologies and platforms that enable top-tier R&D productivity

Align our incentives with the new R&D strategy

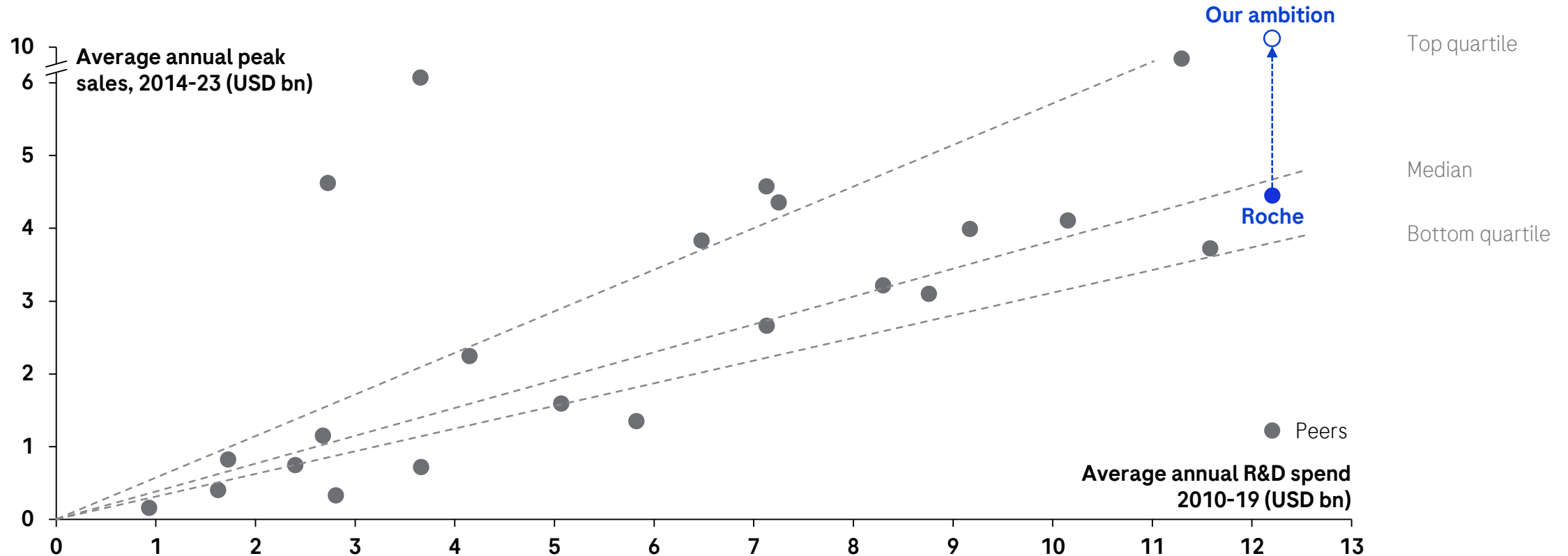


Link our R&D productivity objectives to individual and team performance

R&D productivity: Comparison of leading Pharma players

We aim to be in the top quartile of all players

R&D productivity as annual peak sales vs. average annual R&D spend



Note: All numbers are inflation adjusted to 2023; Sources: Evaluate Pharma, FDA, BCG analysis (R&D Productivity Database)

Embracing bold objectives: Our 2030 R&D ambitions

Toward top quartile industry performance

Increase Ph 0 initiations/yr¹:
+50%

Increase average peak year sales of pipeline assets:
+50%

Increase Ph III success rate:
+22%p

**R&D
Excellence**

=

Volume × **Value** × **Success rate**



Effectiveness

Costs × **Cycle time**



Efficiency

Reduce R&D costs per NME launched by:
-20%

Reduce the average development cycle length²:
-40%

¹ Initiations of projects; ² Refers to cycle time from Lead Identification and Lead Optimization to end of Phase 3; NME=new molecular entity

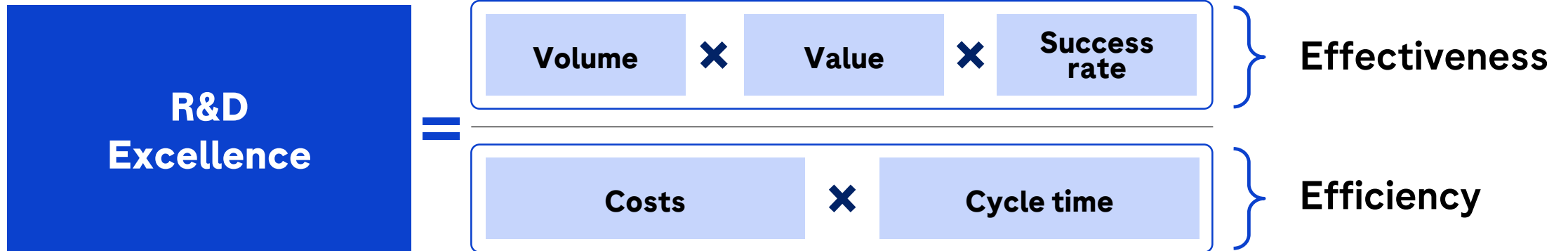
Meaningful improvements achieved in 2024

R&D Excellence enables us to reallocate resources to new projects, new deals & accelerate priority assets

Added **8 assets** through high-value partnerships and **9 assets** from early R&D

CHF +0.24bn average peak year sales per project through termination of low-value and addition of high-value projects

Recent team-assessed **PTS for PivGo's is 10%p higher** vs. historic 5 year average



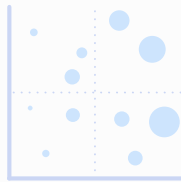
Reinvest **CHF 0.2bn of savings** in 2024 to higher-return activities, and **keep our overall R&D spend roughly flat in the short-term**

~4 months cycle time acceleration through faster study site activation and automated content creation

R&D Excellence: Our solutions

We identified six solutions to achieve top quartile performance - with implementation ongoing

Adopt a unified portfolio framework



Introduce the 'Bar' to recognize assets with transformative potential

Transform our portfolio management & governance



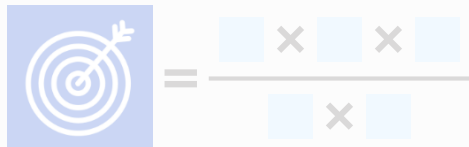
Reconfigure end-to-end governance to meet the 'Bar'

Access the best external innovation



Identify and bring in exciting external assets which clear the 'Bar'

Embrace ambitious R&D objectives



Set bold R&D objectives linked to Pharma ambition

Evolve our R&D engine and invest in its excellence



Invest in technologies and platforms that enable top-tier R&D productivity

Align our incentives with the new R&D strategy



Link our R&D productivity objectives to individual and team performance

Simplifying and harmonizing our systems

Further streamlining our processes to elevate performance with AI

Progress in complexity reduction in several key R&D areas

From	→	Moving towards
Fragmented and complex R&D data ecosystem		Simplified and harmonized systems managed with single investment strategy

Electronic lab notebooks

8

1

Risk based quality management systems

3

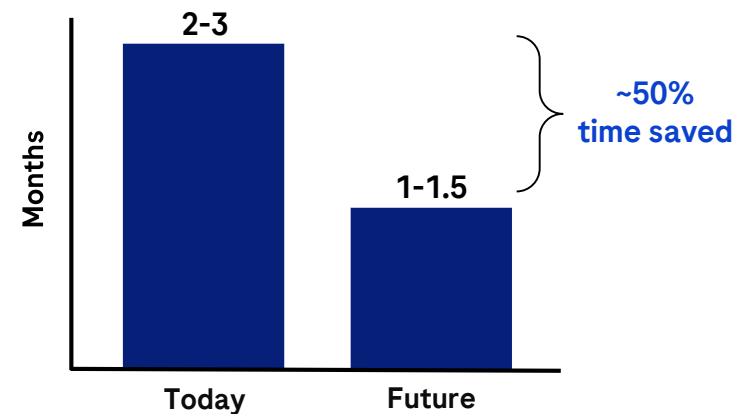
1

Generative AI as Clinical Study Report co-author to enable faster regulatory submissions

Starting point:

Generation of Clinical Study Reports involves time consuming, repetitive, and often menial work

Timeline reduction



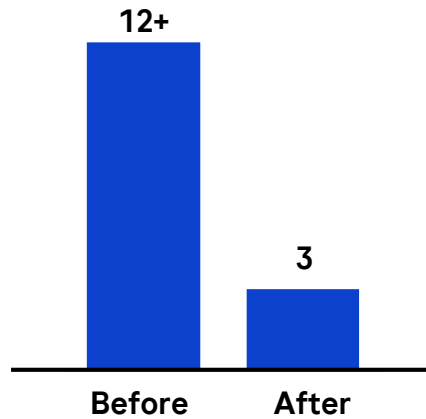
Streamlining our processes: CRO partnerships

Leveraging our scale to build long-lasting, end-to-end strategic relationships with vendors

Consolidation of vendors

Collaborative partnerships with three Contract Research Organizations

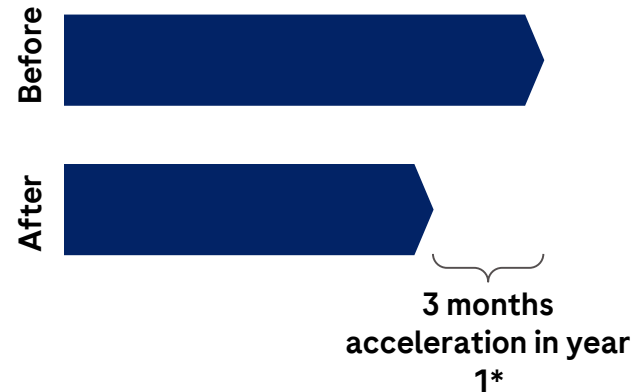
Number of CROs



Cycle time reduction

Eliminate switching and recontracting resulting in reduction in whitespace through aligning CROs by TA

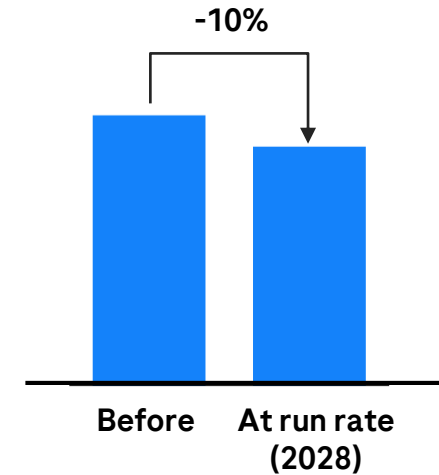
Cycle time (illustrative)



Cost reduction

Leverage economies of scale: Reducing vendor carrying costs by CHF -0.2bn over next five years

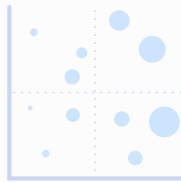
Run rate vendor costs



R&D Excellence: Our solutions

We identified six solutions to achieve top quartile performance - with implementation ongoing

Adopt a unified portfolio framework



Introduce the 'Bar' to recognize assets with transformative potential

Transform our portfolio management & governance



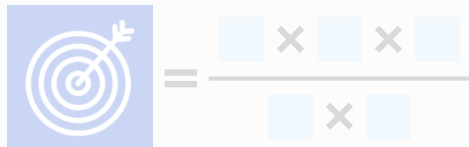
Reconfigure end-to-end governance to meet the 'Bar'

Access the best external innovation



Identify and bring in exciting external assets which clear the 'Bar'

Embrace ambitious R&D objectives



Set bold R&D objectives linked to Pharma ambition

Evolve our R&D engine and invest in its excellence



Invest in technologies and platforms that enable top-tier R&D productivity

Align our incentives with the new R&D strategy



Link our R&D productivity objectives to individual and team performance

By 2030, with our ongoing efforts in R&D excellence, we will have...



-  Adopt a unified portfolio framework
-  Transform our portfolio management & governance
-  Access the best external innovation
-  Embrace ambitious R&D objectives
-  Evolve our R&D engine and invest in its excellence
-  Align our incentives with the new R&D strategy



Delivered many of the world's most impactful medicines (20 transformative medicines¹ by 2029)



Reached top-quartile performance in R&D productivity across the biopharma industry

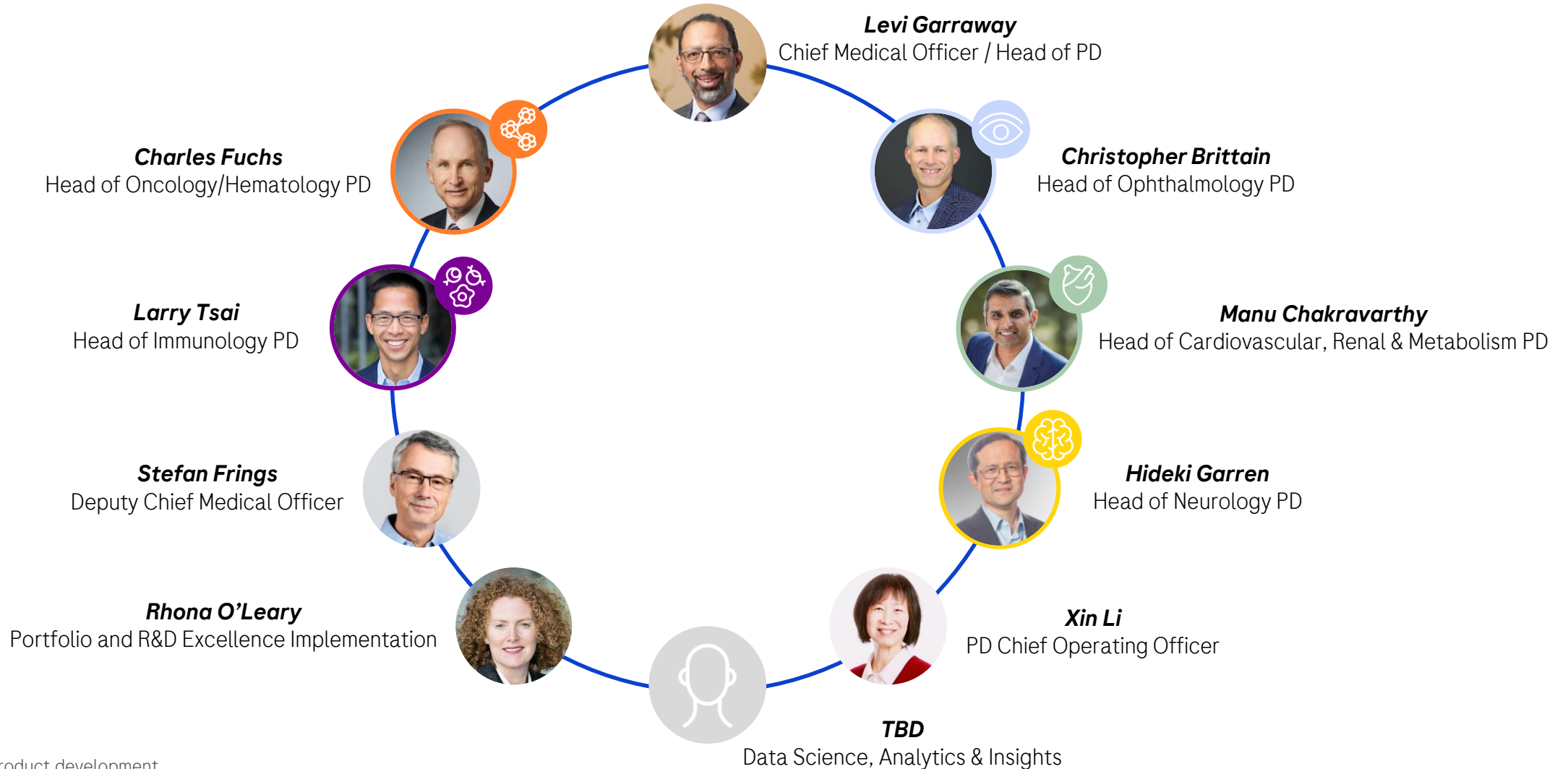
-  Implementation in progress
-  Implemented and moving into business as usual



¹ Reaching 'Bar' criteria: Future medicines that can have high impact for patients, higher revenue potential, and optimized risk

Our new product development leadership team

Aligned to our 5 focus therapeutic areas



Oncology/Hematology

Charles Fuchs

*SVP and Global Head of Oncology and Hematology
Product Development*

Strategic pillars of oncology and hematology



Precision medicine

Right medicines for the right patient



Novel modalities

Investing in key technologies to engage unique set of targets



Rational combinations

Leverage breadth of oncology portfolio to explore new combinations



Early disease

Early diagnosis and treatment increases the chance for cure

Recent examples



inavolisib

INAVO120 (1L HR+ Pi3Km BC)
US filing completed



Allogeneic CAR-Ts

Ongoing collaboration with Poseida in NHL and MM



Columvi + Polivy + R-CHP

Ph III in 1L DLBCL ongoing



Alecensa

ALINA (adj ALK+ NSCLC)
approved in US and EU



divarasib

Ph III in 2L NSCLC H2H vs sotorasib/adagrasib initiated



cMET ADC

Partnership with MediLink



HR+ Breast Cancer

Building portfolio in HR+ BC, with broad combination potential



giredestrant


Potential to replace ET in eBC








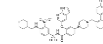
Oncology solid tumor pipeline








A broad portfolio differentiated by targets and modalities

Ph I	
RG6194	runimotamab (HER2 x CD3)
RG6279	eciskafusp alfa (PD1-IL2v)
RG6323	efbalropendekin alfa (IL15/IL15Ra-Fc)
RG6344	BRAF inhibitor (3)
RG6411	undisclosed
RG6440	anti-latent TGF-β1 (SOF10)
RG6457	WRN covalent inhibitor
RG6468	undisclosed
RG6524	DLL3 trispecific
RG6537	AR Degradar
RG6596 ¹	ZN-1041 (HER2 TKI)
RG6614 ²	KSQ-4279 (USP1 inh)
RG6648	cMET ADC
RG7827	FAP-4-1BBL
RGT-491B	CDK4/2i
CHU	glypican-3 x CD3
CHU	codrituzumab
CHU	CD137 switch antibody
CHU	RAS inhibitor
CHU	SPYK04
CHU	anti-CLDN6 trispecific
CHU	ROSE12

Ph II	
 RG6180	autogene cevumeran multiple indications

Ph III	
 RG6058	tiragolumab multiple indications
 RG6171	giredestrant HR+ BC
 RG6330	divarasib 2L NSCLC
 RG3502	Kadcyla HER2+ eBC high risk
 RG7446	Tecentriq multiple indications

Registration	
 RG6114	inavolisib HR+ mBC

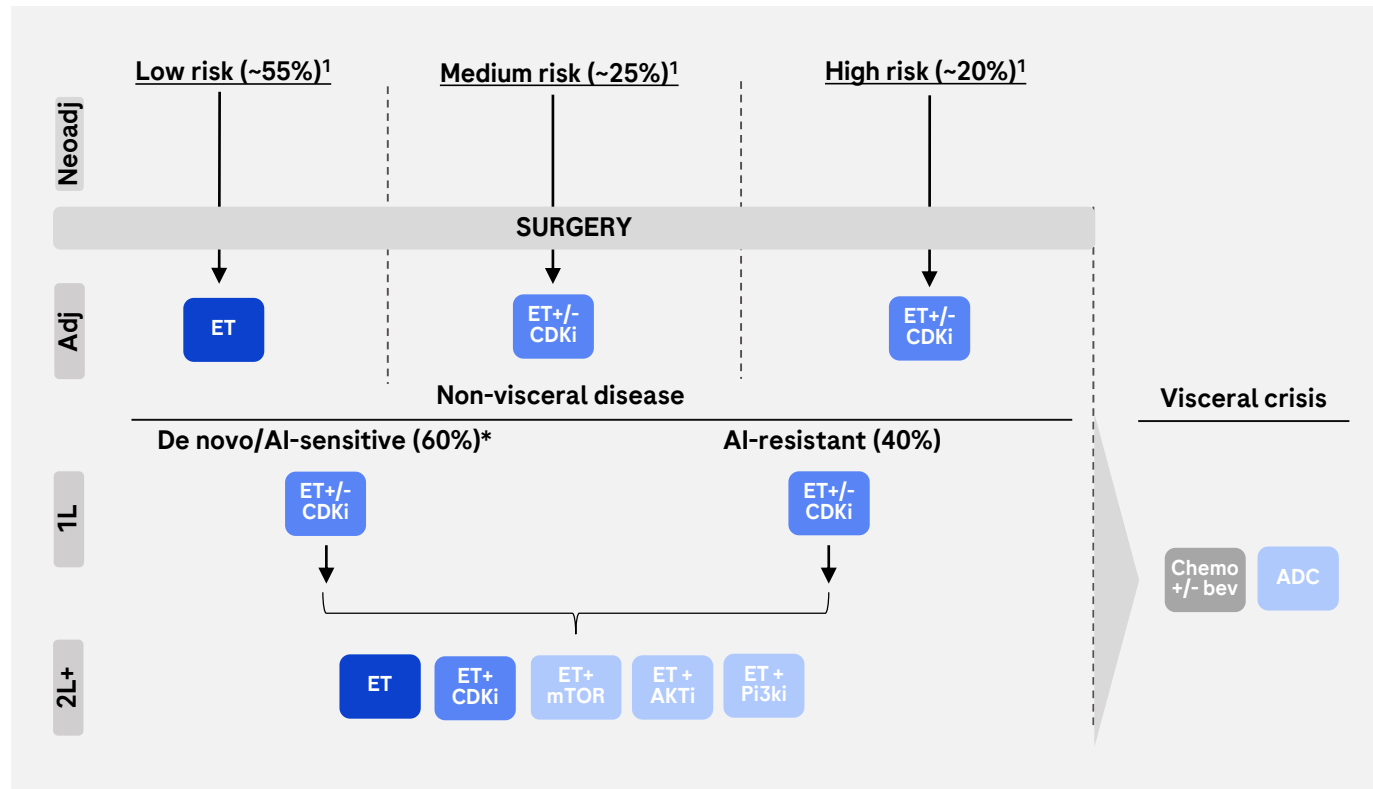
-  Small molecule
-  Antibody
-  Bispecifics/Trispecifics
-  Neoantigen vaccines
-  Fusion protein
-  Antibody drug conjugate
-  Cyclic peptides

¹ managed by Zion Pharma; ²managed by KSQ Therapeutics; NME=new molecular entities

HR+/HER2- BC treatment paradigm

Roche has potential to establish new standards of care across major treatment modalities

HR+ BC treatment landscape



ET Endocrine Therapy (ET)

ET is backbone treatment for ER+ BC; however, there are limitations with current ET options

ET + CDKi CDKi

ET+CDK4/6i established as backbone in HR+ mBC, and emerging in eBC, however resistance and tolerability issues remain

ET + tgt Targeted therapies

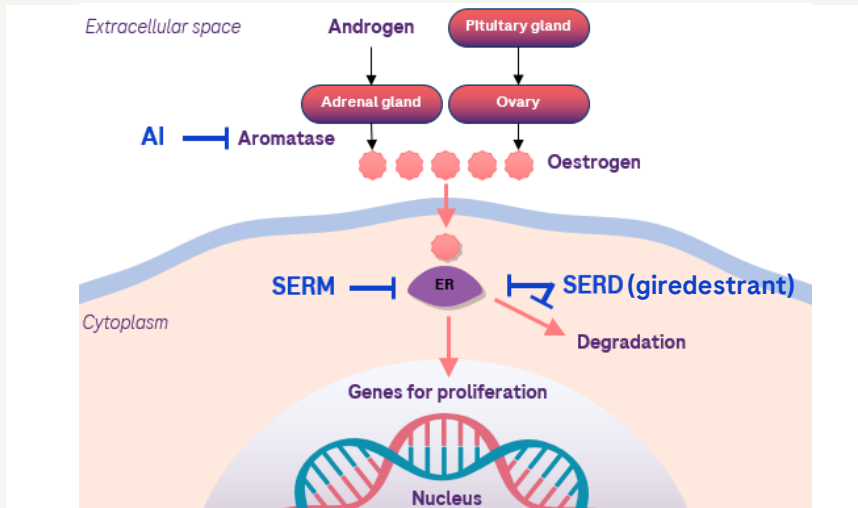
Currently limited to late lines

¹ Risk definitions vary according to guidelines and tools used: stage at diagnosis based on internal estimates using SEER data *AI sensitive defined as patients who relapse >1yr after completion of adjuvant therapy; HR=hormone receptor, ET=endocrine therapy, BC=breast cancer, eBC=early breast cancer, mBC=metastatic breast cancer, neoadj=neoadjuvant, adj=adjuvant



Giredestrant has the potential to overcome limitations of current ET options in 1L and eBC

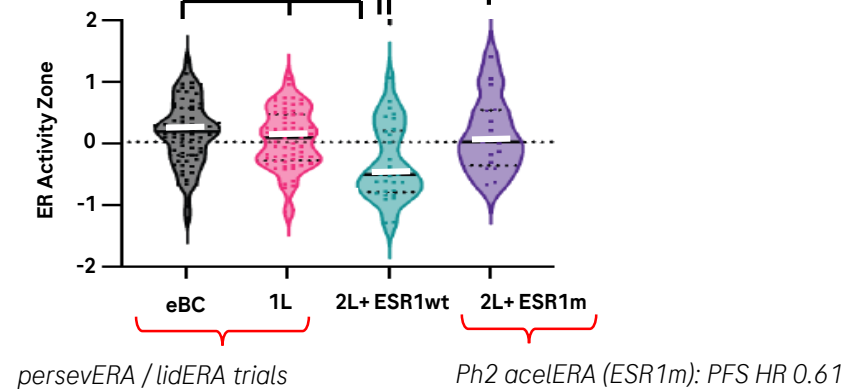
Giredestrant with best-in-class ET potential



- Highest preclinical potency vs. other oral SERDs in development
- Combinable with all CDKis including palbo, abema, ribo
- Well tolerated at all doses, with no dose-limiting toxicities
- Current SOC ET* limited by AEs leading to low adherence and mechanisms of resistance (including ESR1m)

Giredestrant data support development in 1L and adj HR+ BC

Tumor ER pathway activity by time of sample collection¹



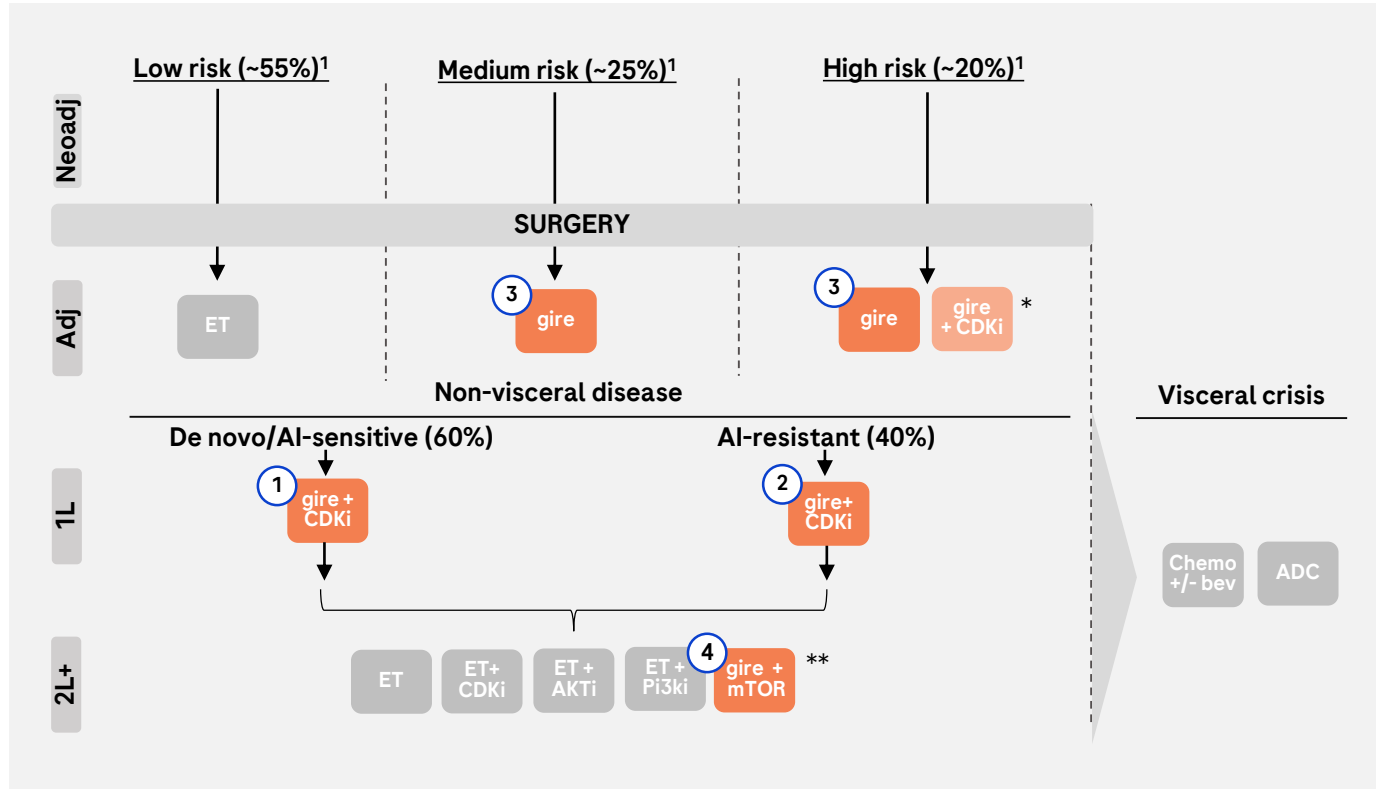
- In 2L/3L, only patients with ESR1m tumors appear to be sensitive to endocrine inhibition; in this population, giredestrant's benefit vs. fulvestrant was more pronounced with a PFS HR of 0.61
- In eBC and 1L mBC, tumors are still ER dependent, with ER activity comparable to that of 2L+ ESR1m patients.
- In earlier lines, giredestrant has potential to drive meaningful benefit in all patients, regardless of ESR1m status



Giredestrant a new, potentially best-in-class endocrine backbone

Ph III (persevERA) 1L ER+ mBC and Ph III (evERA) 2L ER+ mBC results expected in 2025

Giredestrant aims to replace standard of care ET across eBC & mBC



gire giredestrant

- Initiated additional Ph III (pionERA) trial in 1L mBC with giredestrant + CDK4/6i of choice (abema, ribo, palbo)
- Leading SERD with head-to-head adjuvant trial vs. AI
- Evaluating combination with abemaciclib in eBC with single arm substudy as part of Ph III lidERA
- Plan to initiate combination with RGT-419B (CDK4/2i)

①	gire + palbo (persevERA)	1L ER+/HER2- mBC (endocrine sensitive)	2025
②	gire + any CDK4/6i (pionERA)	1L ER+/HER2- mBC (endocrine resistant)	
③	giredestrant (lidERA)	Adjuvant ER+/HER2- mBC	
④	gire + everolimus (evERA)	2L ER+/HER2- mBC	2025
	gire + Phesgo (heredERA)	1L maintenance ER+/HER2+ mBC	

¹ Risk definitions vary according to guidelines and tools used: stage at diagnosis based on internal estimates using SEER data *giredestrant + CDK4/6i in adjuvant HR+ BC being evaluated as single arm substudy as part of Ph 3 lidERA **giredestrant + everolimus in 2L+ HR+ BC is being investigated as Medical Affairs study; AI=aromatase inhibitor, ET=endocrine therapy, eBC=early breast cancer, mBC=metastatic breast cancer, neoadj=neoadjuvant, adj=adjuvant, SERD=selective estrogen receptor degrader



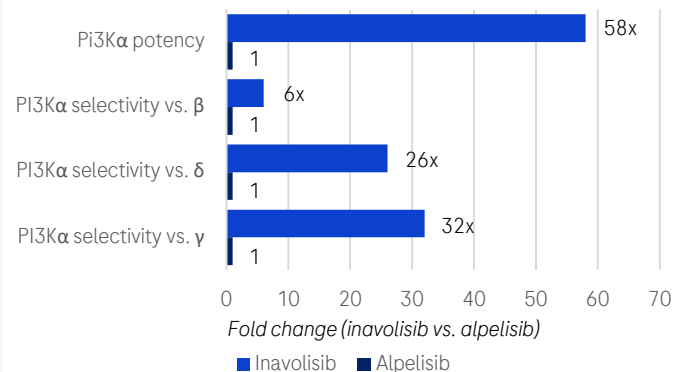
Inavolisib in *PIK3CA* HR+ BC to define new SoC

Ph III (INAVO120) data submitted with Priority Review ongoing (PDUFA 27 Nov 2024)



Inavolisib a BIC *PI3Kα* inhibitor

Potency/selectivity (inavolisib vs. alpelisib)¹

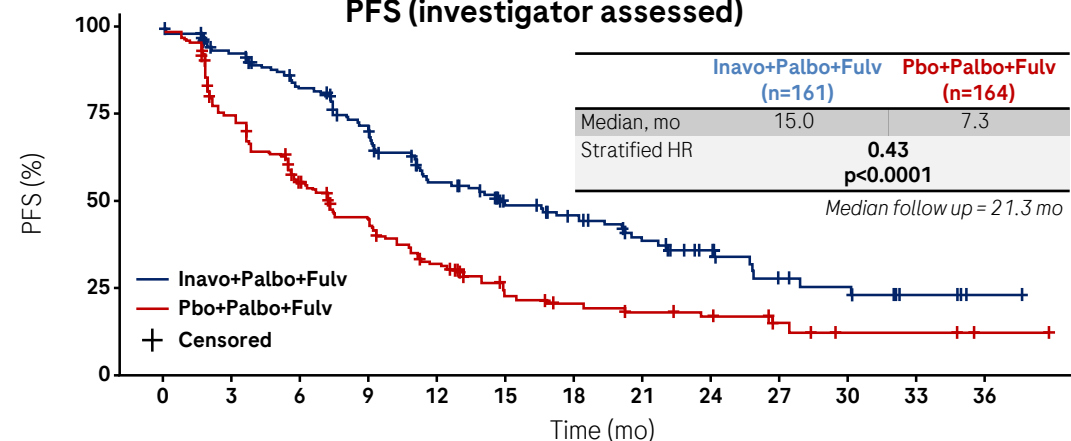


Differentiated from alpelisib:

- More potent and selective for *PI3Kα* subunit
- Better *in vivo* efficacy
- Greater safety margins allow for combination with ET and palbociclib at standard doses

Inavolisib more than doubles PFS in 1L *PIK3CA* HR+ BC

PFS (investigator assessed)

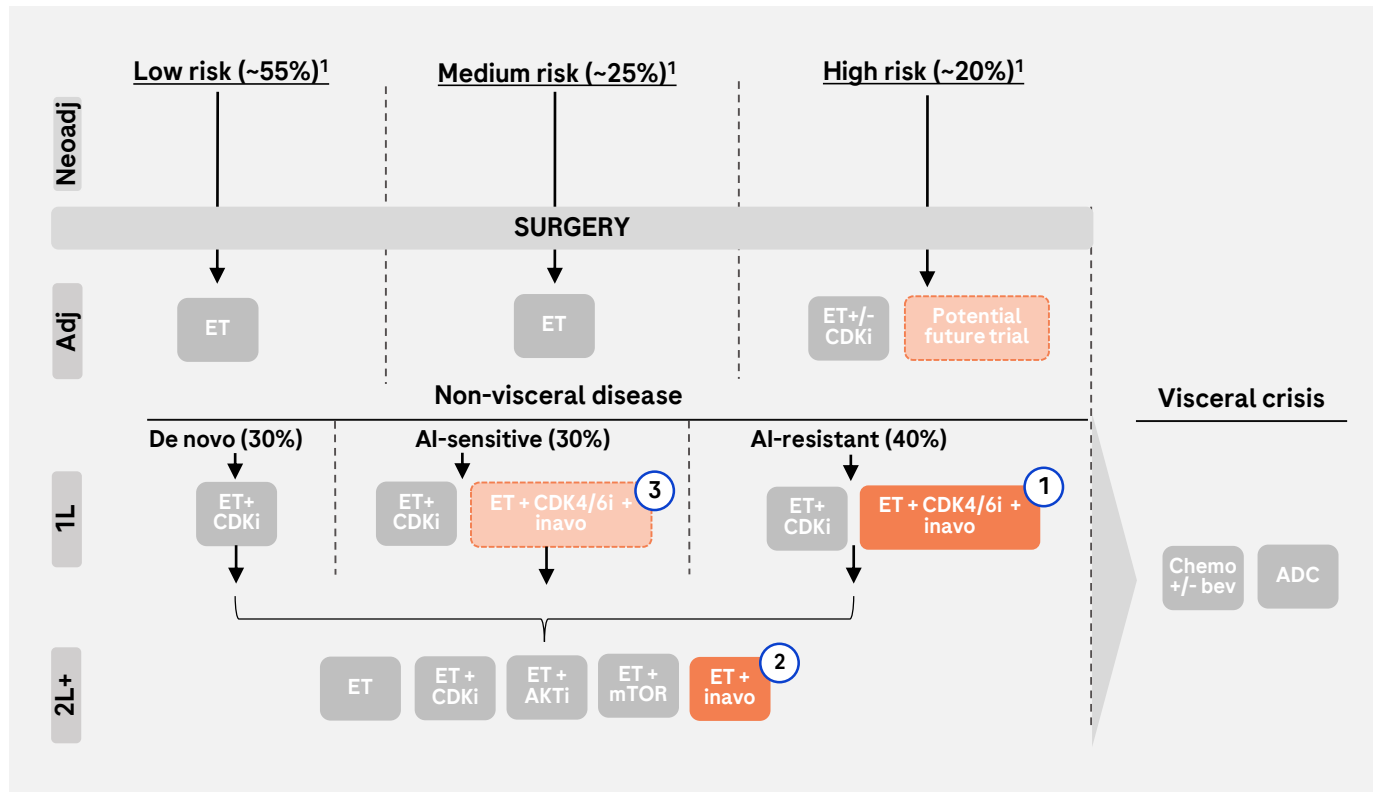


- INAVO120 met its primary endpoint, with a statistically significant and clinically meaningful improvement in PFS (15.0m versus 7.3m; HR:0.43; p<0.0001)
- OS was immature, but with clear positive trend (HR=0.64, [95% CI= 0.43, 0.97]; p=0.0338)
- Inavolisib discontinuations due to AEs were low: 6.2%, confirming the manageable safety and tolerability profile of inavolisib + palbo + fulv

¹Jhaveri KL et al., SABCs 2023; PFS=progression-free survival; *PIK3CA*-mut=phosphatidylinositol 3-kinase, catalytic, alpha polypeptide mutated; HR+=hormone-receptor positive; ER+=estrogen receptor positive; HER2=human epidermal growth factor receptor 2; (m)BC=(metastatic) breast cancer; CDK=cyclin-dependent kinase; inavo=inavolisib; palbo=palbociclib; fulv=fulvestrant; pbo=placebo; mo=months; HR=hazard ratio; CI=confidence interval; OS=overall survival; SoC=standard of care; BIC=best-in-class

Inavolisib has potential to expand broadly in *PIK3CA*m BC

Potential for inavolisib based regimen in *PIK3CA*m HR+ BC



■ Ongoing study
 ■ Future development plan

inavo inavolisib

- Ph III (INAVO123) to be initiated in 1L ET sensitive pts
- Potential to initiate additional trials in eBC
- Plan to initiate combination with RGT-419B (CDK4/2i)
- Potential to expand into other *PIK3CA*m tumors: 12 Ph Ib/II signal seeking studies ongoing across multiple tumors

①	inavolisib (INAVO120)	1L <i>PIK3CA</i> m HR+/HER2- mBC (AI resistant)	✓
②	inavolisib (INAVO121)	Post-CDK4/6i <i>PIK3CA</i> m HR+/HER2- BC	
③	inavolisib (INAVO123)	1L <i>PIK3CA</i> m HR+/HER2- mBC (AI sensitive)	
	inavolisib (INAVO122)	1L <i>PIK3CA</i> m HER2+ BC	

✓ US/EU filing completed

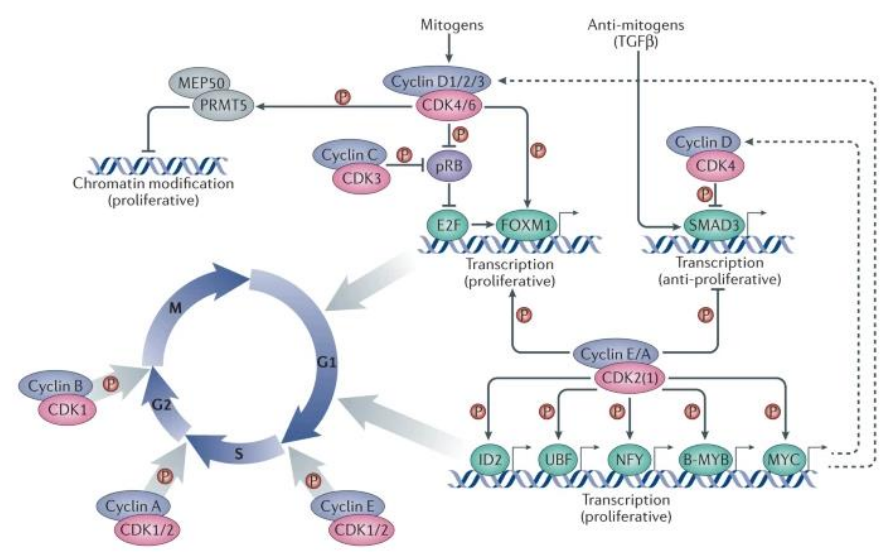
¹ Risk definitions vary according to guidelines and tools used: stage at diagnosis based on internal estimates using SEER data; AI=aromatase inhibitor, ET=endocrine therapy, eBC=early breast cancer, mBC=metastatic breast cancer, neoadj=neoadjuvant, adj=adjuvant



Next generation CDKi portfolio acquired from Regor

RGT-419B is the most advanced CDK4/2 inhibitor in the clinic

CDKi are critical regulators of cell cycle progression



Next generation CDKi portfolio

Potent CDK4 inhibition with activity on CDK2²

Biochemical Ki (nM)	CDK4/ Cyclin D1	CDK2/ CyclinE1
RGT-419B¹	0.3	4.6
Abemaciclib	0.8	270
Palbociclib	2.3	>10 ³
Ribociclib	6.7	>10 ³

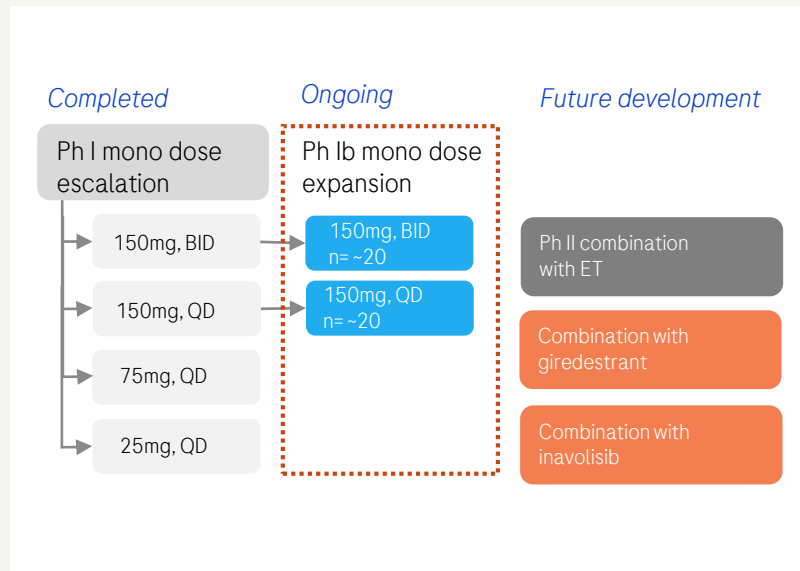
- Side effects of 1st gen CDK4/6i and intermittent dosing limit the therapeutic benefit; AEs include neutropenia, diarrhea, and QT prolongation
- CDK4/6i resistance remains a challenge; nearly all patients progress
- Data suggest that CDK2 activity is a potential mechanism of resistance with first generation CDK4/6i having weak or no CDK2 activity

- RGT-419B is a potent CDK4 inhibitor with increased activity on CDK2 addressing a key mechanism of resistance to existing therapies
- RGT-587 is a Ph I ready brain-penetrant selective CDK4i



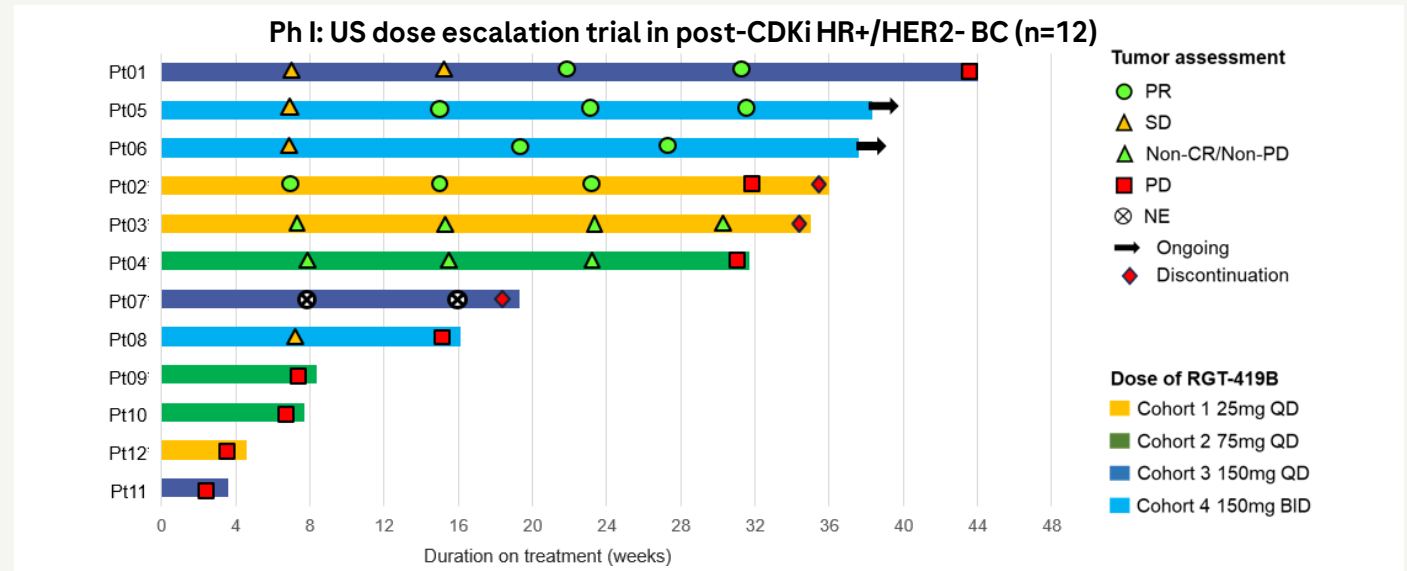
RGT-419B has best-in-class potential as next-gen CDKi in HR+ BC

Targeting expansion into 1L and eBC



- Ph Ib dose expansion ongoing in post-CDKi pts
- Ph II in combination with ET to be initiated in 2025
- Plan to initiate combinations with giredestrant and inavolisib in HR+ BC

Durable single agent activity in pts who have progressed on CDK4/6i



- RGT-419B can be dosed continuously with acceptable tolerability¹
- Favorable PK profile with sustained target coverage
- Demonstrated monotherapy activity in post-CDK4/6i setting with durable responses

CDKi market expected to grow to USD >15bn by 2030, including expansion into eBC²

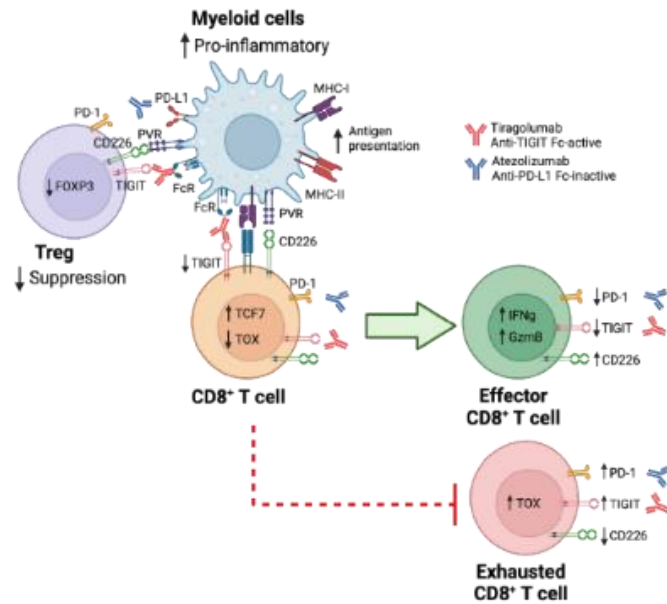
¹Regor Therapeutics preliminary data on file, data cutoff date: Dec 22, 2023; ² Evaluate Pharma; ET=endocrine therapy; eBC=early breast cancer; HR+ BC=hormone receptor positive breast cancer; CR=complete response; NE=not evaluable; QD=once daily; BID=twice daily; PD=progressive disease; PR=partial response; SD=stable disease; PFS=progression free survival; PK=pharmacokinetic



Multiple upcoming readouts for tiragolumab

Final OS results for Ph III (SKYSCRAPER-01) in 1L PD-L1 high NSCLC expected in Q4 2024

Tiragolumab development program



	Indication	Ph I	Ph II	Ph III	
Lung cancer	1L NSCLC: PD-L1 high		SKYSCRAPER-01		2024
	Stage III unres. NSCLC		SKYSCRAPER-03		2025
GI cancer	Locally advanced ESCC		SKYSCRAPER-07		
	1L uHCC		SKYSCRAPER-14/IMbrave152		
Others	Fixed-dose combination		SKYSCRAPER-11		

- Following negative results of Ph II/III (SKYSCRAPER-06), Ph II (SKYSCRAPER-05) and Ph III (SKYSCRAPER-15) in early NSCLC have been discontinued
- Ph III (SKYSCRAPER-01) in 1L PD-L1 high NSCLC final OS results expected in Q4 2024
- Ph III (SKYSCRAPER-03) in Stage III unresectable NSCLC, Ph III (SKYSCRAPER-07) in locally advanced ESCC, and Ph III (SKYSCRAPER-14) in 1L HCC results expected in 2025/26

Guan et al., Nature 2024; NSCLC=non-small cell lung cancer; PD-L=programmed death ligand; (Neo)Adj=(neo) adjuvant; ESCC=esophageal squamous cell carcinoma; uHCC=unresectable hepatocellular cancer; SCCHN=squamous cell cancer of the head and neck; OS=overall survival



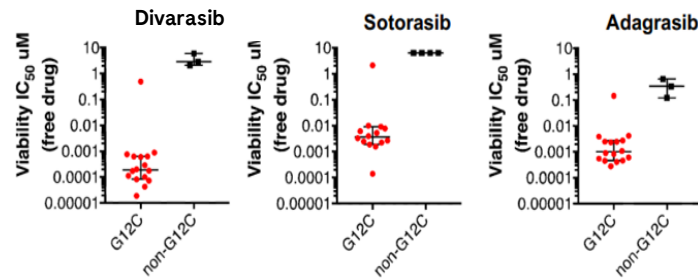
Divarasib with best-in-class potential in KRAS G12C-mutated tumors

Ph I data in 2L+ mNSCLC show improved mPFS with longer follow-up



KRAS G12C inhibitor

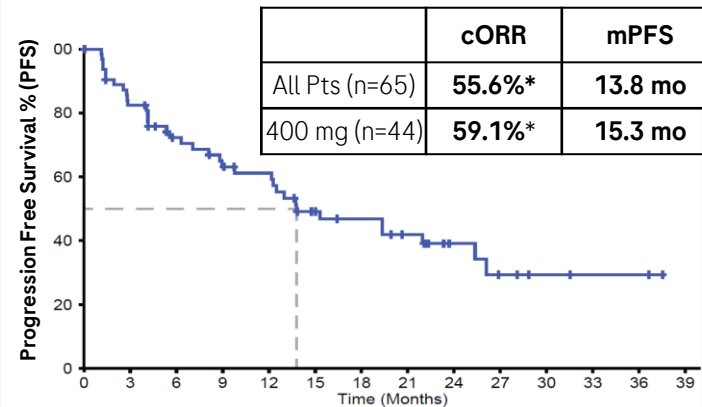
Proliferation potency/selectivity¹



- Divarasib is an irreversible covalent inhibitor of mutant KRAS G12C resulting in a locked inactive conformation
- Divarasib is 5 to 25 times more potent and 10 to 50 times more selective *in vitro* than sotorasib and adagrasib¹

Updated data at WCLC 2024

Ph I results in 2L+ mNSCLC²



- With additional follow-up, divarasib continued to demonstrate durable clinical activity with confirmed ORR of 59.1% and mPFS of 15.3 months at 400 mg dose
- Divarasib + PD-L1 demonstrated promising clinical activity and tolerable safety with low rates of Grade ≥3 LFT abnormalities

Development program

Indication	Regimen	Ph I	Ph II	Ph III
1L mNSCLC	Divarasib +/- IO +/- chemo**			FPI exp 2025
2L+ mNSCLC	divarasib vs sotorasib/adagrasib			Krascendo 1
CRC	divarasib		Ph II	
















- Ph III H2H trial vs. sotorasib/adagrasib in 2L NSCLC initiated (FPI Q3 2024); granted FDA BTB in 2L NSCLC
- Ph III in 1L NSCLC to be initiated in 2025
- Additional combinations ongoing including: pembrolizumab, inavolisib







¹ Purkey H. et al., AACR 2022; ² Sacher et al., WCLC 2024; *Patients with measurable disease (all patients n=63, 400mg n=44); **Ph III 1L NSCLC regimen to be disclosed at a later stage
 mNSCLC=metastatic non-small cell lung cancer; (m)PFS=(median) progression free survival; ORR=objective response rate; LFT=liver functional test; BTB=Breakthrough Therapy Designation



Hematology pipeline

A broad portfolio enabling unique combinations

	Ph I		Ph II		Ph III		Registration				
	RG6076	englumafusp alfa Heme tumors		RG6107	PiaSky SCD		RG6026	Columnvi 1L DLBCL, r/r MCL		RG6026	Columnvi 2L+ DLBCL
	RG6160	cevostamab r/r MM		RG6512	NXT007 Hemophilia A		RG7828	Lunsumio 1L & 2L+ FL & 2L+ DLBCL			
	RG6323	efbalropendekin alfa Heme tumors		RG6357 ²	dirloctocogene samoparvovec Hemophilia A		RG6107	PiaSky aHUS			
	RG6538 ¹	P-BCMA-ALLO1 MM		RG7828	Lunsumio SC 3L+ FL		RG7601	Venclexta 1L MDS			
	RG6540 ¹	P-CD19xCD20-ALLO1 Heme tumors									
	RG7828	Lunsumio SC 3L+ CLL									

-  Small molecule
-  Antibody
-  Bispecifics
-  Gene therapy
-  Fusion protein
-  Allogeneic CAR-T cells

¹ managed by Poseida Therapeutics; ²Ph III trial paused and HemA gene therapy approach being re-evaluated; CLL=chronic lymphocytic leukemia; SCD=sickle cell disease; FL=follicular lymphoma; DLBCL=diffuse large B-cell lymphoma; MCL=mantle cell lymphoma; aHUS=atypical hemolytic uremic syndrome; MDS=myelodysplastic syndrome

Comprehensive development program across B-cell malignancies

Ph III trials for Lunsumio and Columvi in 1L FL and DLBCL initiated



- Strong 1L DLBCL uptake with >33k pts treated globally; treatment guidelines as 1L DLBCL SoC in 18 countries
- POLARIX 5y data submitted to an upcoming medical congress



- For outpatient setting, indolent disease (FL) and elderly/unfit pts
- Approved in 3L+ FL: 20% US patient share, ~1,200 patients treated to date



- For aggressive disease (1L DLBCL, R/R DLBCL, MCL)
- Approved in 3L+ DLBCL: 17% US patient share, ~1,400 patients treated to date

Regimen	Indication	Ph I	Ph II	Ph III	
Polivy + R-CHP	1L DLBCL	POLARIX		✓	US/EU approved
Lunsumio	3L+ FL			✓	US/EU approved
Lunsumio SC	3L+ FL			✓	Co-PEP met
Lunsumio SC	3L+ CLL				
Lunsumio SC + POLIVY	2L DLBCL (SCT-ineligible)	SUNMO			Readout 2025
Lunsumio + lenalidomide	2L + FL	CELESTIMO			Readout 2025
Lunsumio SC + lenalidomide	1L FL	MorningLYTE			
Lunsumio + POLIVY	1L DLBCL (elderly/unfit)				
COLUMVI	3L + DLBCL			✓	US/EU approved
COLUMVI + GemOx	2L+ DLBCL (SCT-ineligible)	STARGLO		✓	PEP of OS met
COLUMVI + Polivy + R-CHP	1L DLBCL	SKYGLO			
COLUMVI	R/R MCL (post-BTKi)	GLOBRYTE			FDA BTD
COLUMVI + englumafusp alfa	r/r NHL				
P-CD19xCD20-ALLO1	r/r B-cell malignancies				
P-BMCA-ALLO1	r/r Multiple myeloma				

¹ NHL=Non-hodgkin lymphoma; 1L=first line; 2L+=second line or later; 3L+=third line or later; FL=follicular lymphoma; (Co)-PEP=co-primary endpoint; DLBCL=diffuse large B-cell lymphoma; MCL=mantle cell lymphoma; CRS=Cytokine release syndrome; CR=complete response; CAR=chimeric antigen receptor; P-CD19CD20-ALLO1 and PBCMA-ALLO1 in collaboration with Poseida Therapeutics

Ph III (STARGLO) Columvi + GemOx reduces risk of death by 41% in 2L DLBCL^{1,2}

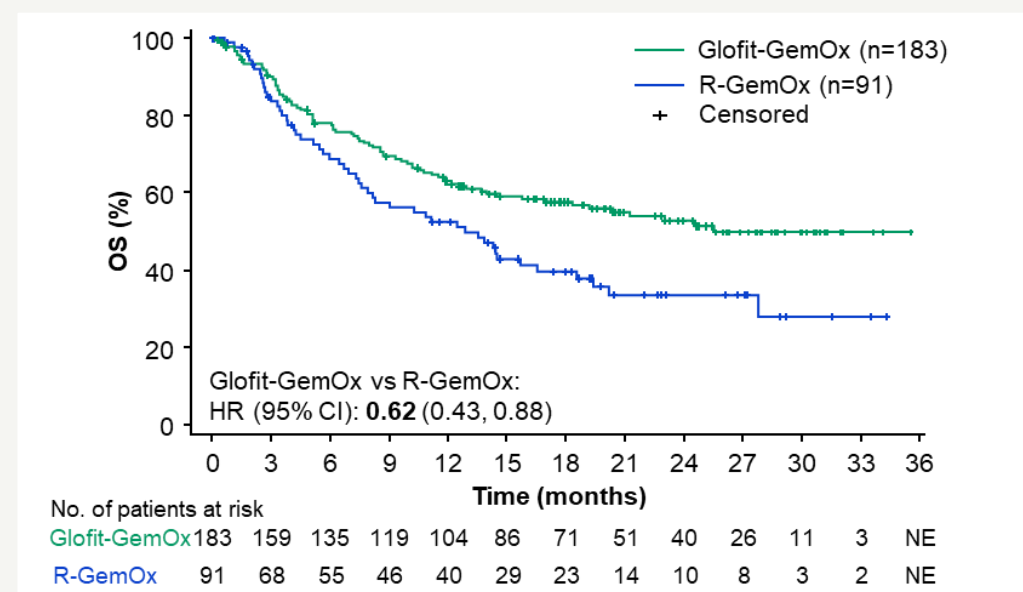
Columvi is the first CD20xCD3 bispecific to demonstrate an OS benefit in DLBCL



Columvi + GemOx significantly improved PFS and CR rates^{1,3,4}

	R-GemOx (n=91)	Columvi + GemOx (n=183)
Median OS, months ³	12.9	25.5
OS HR	0.62 (p=0.006)	
Median PFS, months ⁴	3.6	13.8
PFS HR	0.40 (p<0.000001)	
ORR	40.7%	68.3%
CR	25.3%	58.5%
ΔCR rate	33.2% (p<0.0001)	

Median OS for Columvi + GemOx was nearly double that of R-GemOx^{1,3}



- Columvi + GemOx was tolerable, with AEs consistent with study drugs; CRS generally occurred in cycle 1 and was mostly low grade
- Ph III (STARGLO) has been submitted to health authorities including FDA and EMA

¹Abramson et al, EHA 2024. Oral presentation LB3438. ²Data from primary analysis (median follow-up: 11.3 months); ³Data from updated analysis (median followup 20.7 months); ⁴Data from updated analysis (median follow-up 16.1 months). CI=confidence interval; HR=hazard ratio; NE=not evaluable; CR=complete response; ORR=overall response rate; OS=overall survival; R=Rituxan; GemOx=gemcitabine+oxaliplatin; PFS=progression free survival



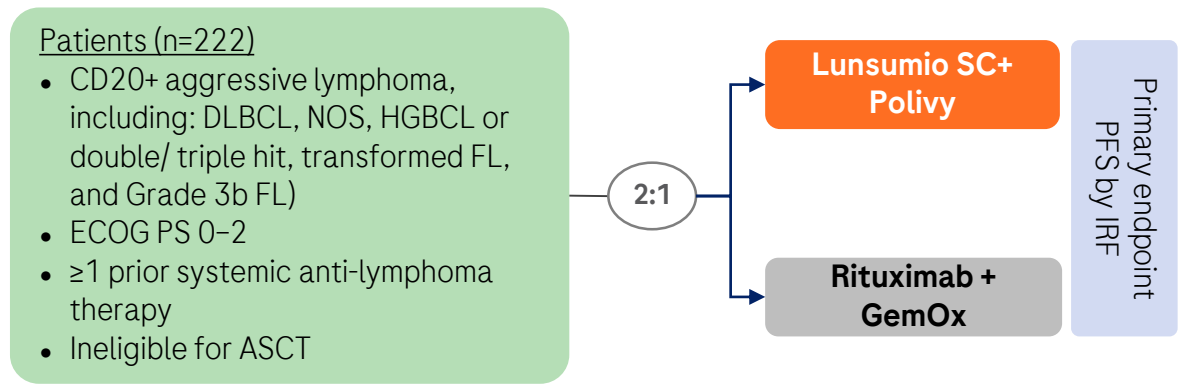
Ph III (SUNMO) chemo-free combo of two unique MoAs in 2L DLBCL

High activity and durable responses for patients unable to tolerate chemo

Ph Ib/II (GO40516): Lunsumio + Polivy with durable ORR and CR rates in R/R LBCL²

Ph III (SUNMO): Lunsumio SC + Polivy in 2L+ R/R aggressive LBCL³

Efficacy endpoints	Overall population ¹ (n=98)
ORR, %	59%
CR, %	46%
Median DOR, months	20.8 (14.2-NE)
Median PFS, months	11.4 (6.2-18.7)
Median OS, months	23.3 (14.8-NE)



- Durable ORR and CR benefits despite poor response to 1L^{1,2}; combination could offer benefit for R/R DLBCL pts ineligible for chemo
- Potential synergistic effects via different mechanisms of action and cell-surface targets
- Ph III (SUNMO) results expected to readout in 2025

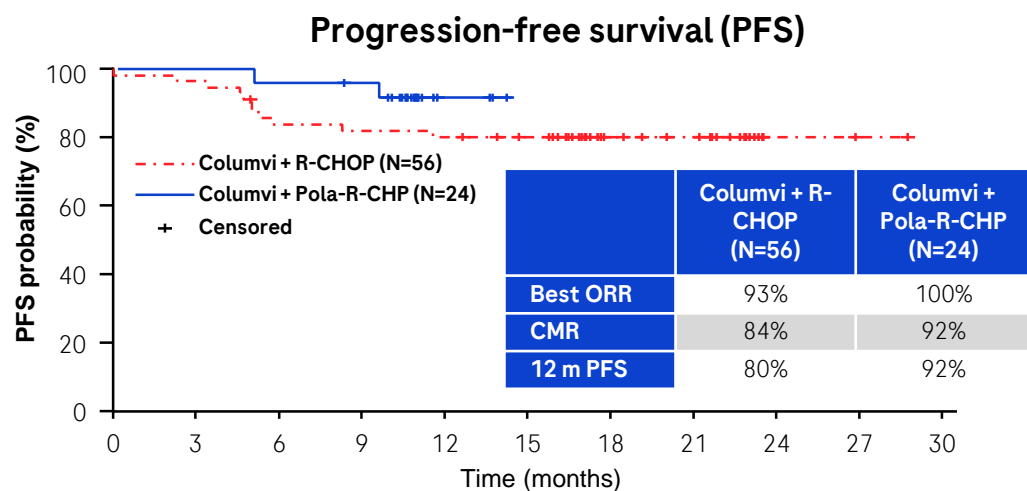
¹Budde et al. 2024; Nature Medicine 30, 229-239; ²Assouline et al., ASCO 2024; ³Pavlovsky et al., ICML 2023. *Refractory was defined as SD, PD, PR, or CR with relapse <3 months after first-line therapy. Relapse was defined as CR with relapse ≥3 and ≤12 months after 1L therapy. CR=complete response; ORR=overall response rate; DOR=duration of response; PFS=progression free survival; OS=overall survival; NE=not evaluable; LBCL=large B-cell lymphomas; DLBCL=diffuse large B-cell lymphoma; NOS=not otherwise specified; HGBCL=high grade B-cell lymphoma; FL=follicular lymphoma; GemOx=gemcitabine + oxaliplatin; ASCT=autologous stem cell transplant; R/R=relapsed/refractory; SC=subcutaneous; ECOG PS=Eastern Cooperative Oncology Group Performance Status



Ph III (SKYGLO) Columvi + Polivy-R-CHP in 1L DLBCL

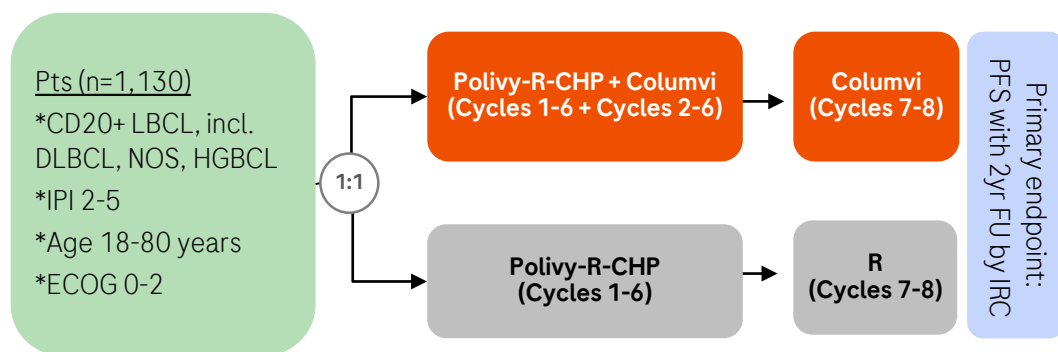
Early data support potential for Columvi in combination with current SoC

Ph Ib (NP40126): Columvi in + Pola-R-CHP and Columvi + R-CHOP with high response rates & promising PFS¹



Median follow-up: 20.3 months for Columvi + R-CHOP; 12.1 months for Columvi + Pola-R-CHP

Ph III (SKYGLO): Columvi + Polivy-R-CHP in 1L DLBCL



- Columvi + Pola-R-CHP demonstrate durable responses with high ORR and CMR rates; manageable safety profile (CRS any Grade: 1 1.3 %, Grade 1: 8.8%, Grade 2: 2.5%, Grade 3+: 0%²)
- Ph III (SKYGLO) Columvi + Polivy-R-CHP in 1L DLBCL has the potential to further enhance cure rates with minimal safety concerns; FPI achieved in 2023, recruitment on track

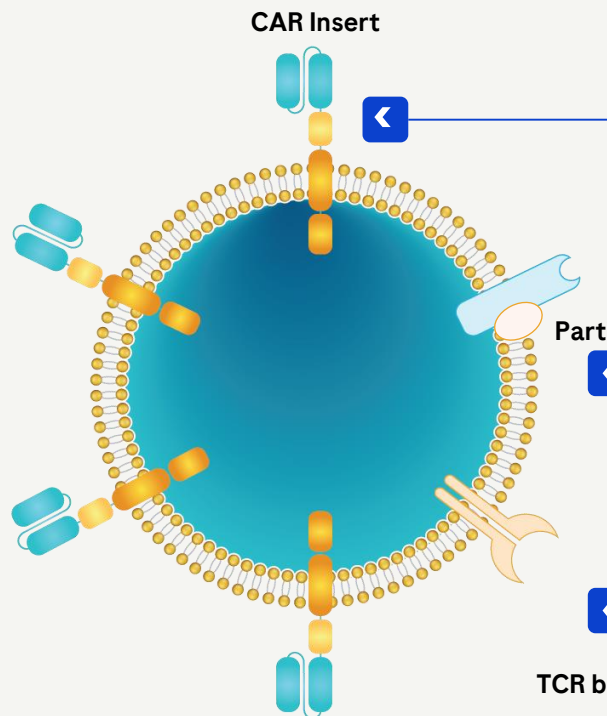
¹Topp M et al, ASH 2023; ²Data on file. DLBCL=diffuse large B cell lymphoma; ORR=overall response rate; CMR=complete metabolic response; R-CHOP=Rituxan + cyclophosphamide + doxorubicin + vincristine + prednisone; Pola-R-CHP=Polivy + Rituxan + cyclophosphamide + hydroxydaunorubicin + prednisone; PFS=progression free survival; SoC=standard of care; NOS=not otherwise specified; HGBCL=high grade B-cell lymphoma; IPI=International prognostic index; ECOG=Eastern Cooperative Oncology Group; IRC=independent review committee; FU= follow-up; yr=year



Allogeneic CAR-Ts for hematologic malignancies

Partnership with Poseida Therapeutics

Proprietary technologies set Poseida apart



piggyBac



Non-viral, transposon-based system

- Can stably integrate DNA into the genome
- High efficiency transposase carries large DNA cargo
- Preferential insertion into T_{SCM}
- Single-step multi-gene insertion
- Efficient and cost effective

Cas-CLOVER



Gene editing system

- High-fidelity, gene editing with low to no off-target activity
- Preserves T_{SCM} cell type
- Ease of design in cell therapy, lower cost
- 25x greater fidelity vs. CRISPR-Cas9

TCR beta chain 1 KO (prevents GvH disease)

Figure adapted from Dholaria et al. Presented at IMS 2024

COG=cost of goods; Tscm=stem memory T cells; CAR-Ts=chimeric antigen receptor T-cells; MHC=Major histocompatibility complex; TCR=T-cell receptor B2M=beta-2-microglobulin

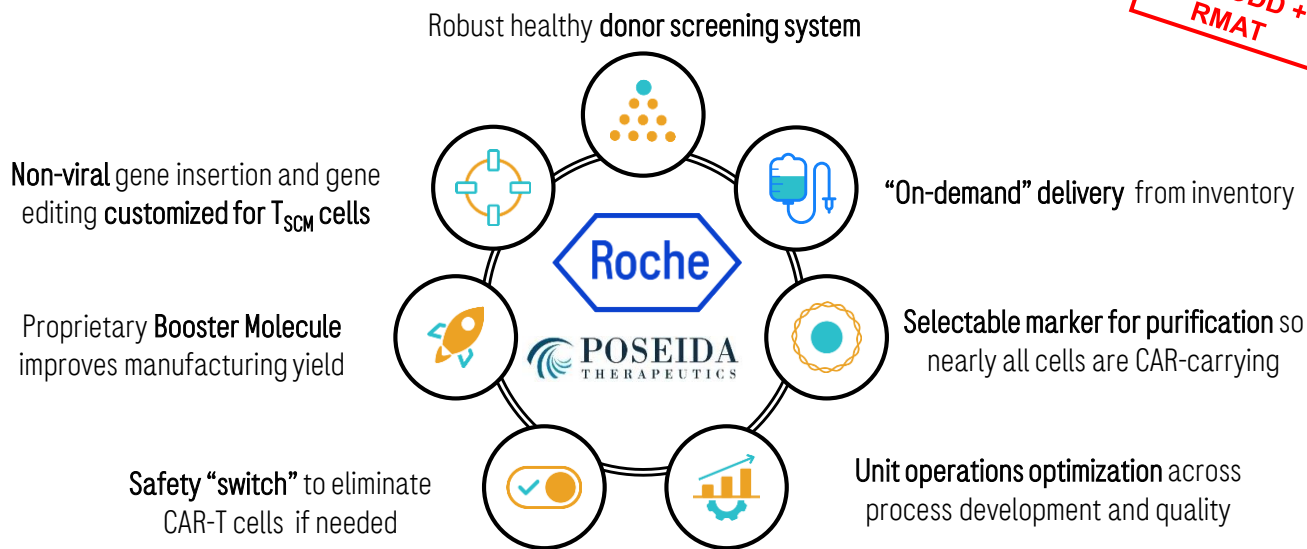


CAR-Ts are complementary to Roche's pipeline



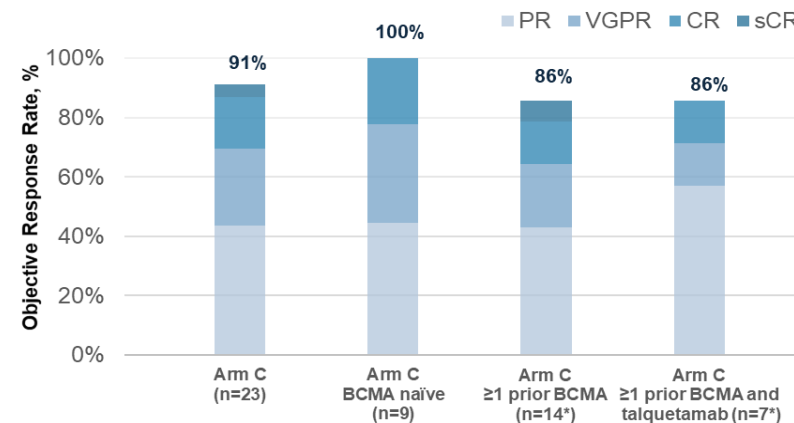
Roche/Poseida allogeneic CAR-Ts key features

**FDA ODD +
RMAT**



- Technology features set Poseida ALLO-CARTs apart as potentially best-in-class
- Exclusive license to P-BCMA-ALLO1 and P-CD19CD20-ALLO1 currently in Ph I
- FDA awarded P-BCMA-ALLO1 orphan drug designation (ODD) for treatment of MM, and Regenerative Medicine Advanced Therapy Designation (RMAT) for R/R MM

High rate of deep responses in R/R MM¹



- Full ITT population received lymphodepletion and P-BCMA-ALLO1; several pts received treatment in outpatient setting
- Well tolerated, with no GvHD and low rates of CRS
- Strong clinical activity in heavily pretreated population, including in BCMA-exposed patients
- Activity comparable to auto BCMA CAR-Ts

Poseida company website; ¹Dholaria et al. Presented at IMS 2024

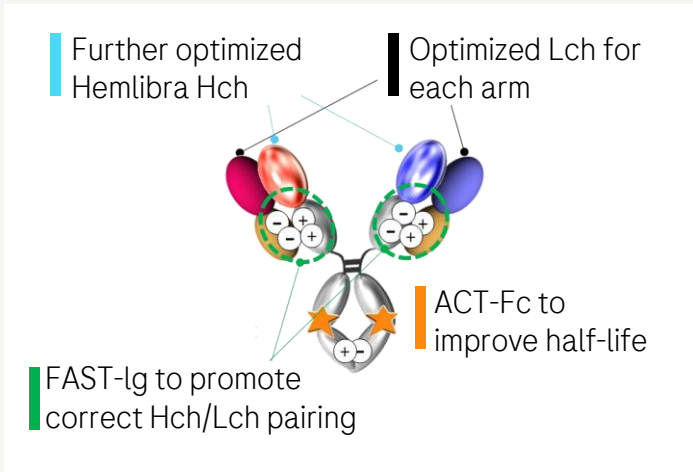
CAR-T=chimeric antigen receptor T-cell; ADC=antibody-drug conjugate; MM=multiple myeloma ODD=orphan drug designation; RMAT=regenerative medicine advanced therapy designation, RR=relapsed refractory; BCMA=B-cell maturation antigen; LD=lymphodepletion; ITT=Intention to treat



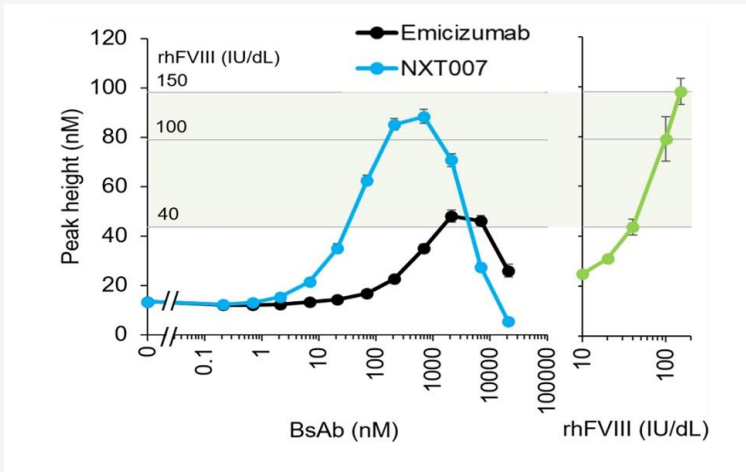
NXT007: A next-generation Factor VIIIa mimetic bispecific mAb

Brings together FIXa and FX to normalise the hemostatic potential of the clotting cascade

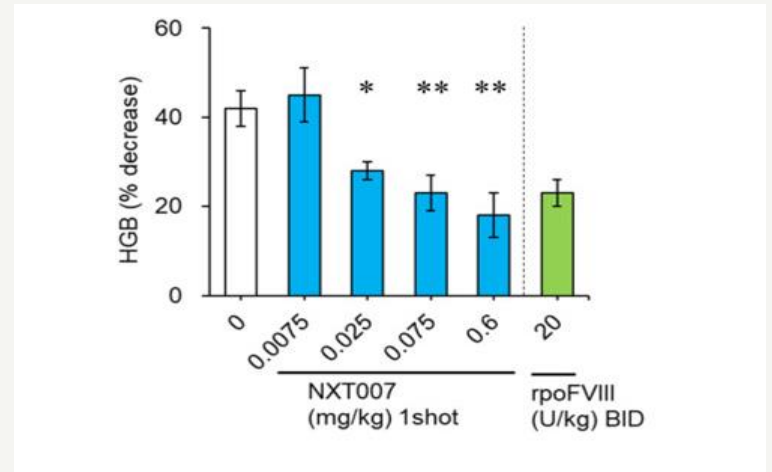
Optimized structure and function based on Hemlibra¹



NXT007 promotes thrombin generation within non-hemophilic ranges²



Dose dependent protection from bleeding in NHP hemophilia model²



- NXT007 has the potential to allow people with Hem A to achieve zero treated bleeds with no need for additional factor treatment, by normalising the hemostatic potential at steady state (bleed control equivalent to people without Hem A)
- Engineered based on Hemlibra, to enhance binding affinities, extend half-life, and allow for low volume, infrequent subcutaneous injections
- NXT007 is ~30-fold more potent than Hemlibra and *in vitro* assay indicates that thrombin generation is within the range of people without Hem A²
- Using a relatively small injection volume via a device, NXT007 could be a next generation prophylaxis treatment to people with Hemophilia A offering reduced treatment burden with a favorable safety profile
- Ph II data expected in 2025

¹Koga et al. MABS 2023, 15 (1), 2222441; ²Teranishi-Ikawa et al. Journal of Thrombosis and Haemostasis 2024.22 (2):430-440; NXT007 developed in collaboration with Chugai; mAb=monoclonal antibody; FIXa=factor 9a; FX=factor 10; FVIIIa=factor 8a; Lch=light chain; Hch=heavy chain; BsAb=bispecific antibody; HGB=hemoglobin; SoC=standard of care

Neurology

Azad Bonni

*SVP and Global Head of Neuroscience & Rare Diseases,
Roche Pharma Research & Early Development*



Neurology R&D focus areas

Preserving what makes people who they are



Multiple sclerosis	Neuromuscular disorders	Neurodegenerative diseases
<i>Stop, reverse and prevent MS and preserve quality of life</i>	<i>Create a future of strength and independence in NMD</i>	<i>Slow progression of Parkinson's and Alzheimer's disease</i>
Recent examples		
<p>Ocrevus (IV/SC/HD) First-in-class anti-CD20 approved for RMS and the only anti-CD20 for PPMS</p>	<p>Elevidys First FDA approved DMD gene therapy</p>	<p>Prasinezumab mAb for PD that selectively binds aggregated α-synuclein</p>
<p>Fenebrutinib Oral, highly selective and only reversible non-covalent BTK inhibitor in Ph III in RMS and PPMS</p>	<p>GYM 329 Anti-latent myostatin mAb with monthly subcutaneous administration</p>	<p>Trontinemab First Aβ-targeting mAb Brainshuttle™ for AD Ph Ib/II currently ongoing</p>

PD=Parkinson's Disease; AD=Alzheimer's Disease; NMD=neuromuscular disease; DMD=Duchenne muscular dystrophy; SMA=spinal muscular atrophy; FSHD=facioscapulohumeral muscular dystrophy; IV=intravenous; SC=subcutaneous; HD=high dose; RMS=relapsing multiple sclerosis; PPMS=primary progressive multiple sclerosis; MS=multiple sclerosis, mAb=monoclonal antibody; BTK=Bruton tyrosine kinase



Neurology pipeline

Industry leading portfolio differentiated on targets and platform technologies

Ph I		Ph II		Ph III		Registration							
	RG6035	Brainshuttle™ CD20 Multiple Sclerosis		RG7935	prasinezumab Parkinson's		RG6168	Enspryng MOG-AD	RD		RG7916	Evrysdi 5mg tablets SMA	RD
	RG6182	MAGLi Multiple Sclerosis		RG6102	trontinemab Alzheimer's		RG6168	Enspryng AIE	RD		RG7845	fenebrutinib Multiple Sclerosis	
	RG6418	selnoflast Parkinson's		RG6289	Gamma-secretase modulator Alzheimer's		RG7845	fenebrutinib Multiple Sclerosis			RG1594	Ocrevus high dose Multiple Sclerosis	
				RG6100	beprenemab¹ Alzheimer's		RG1594	Ocrevus high dose Multiple Sclerosis			RG6356	Elevidys² DMD (>8 y.o.*)	RD
				RG6042	tominersen Huntington's								
				RG6237 + RG7916	GYM 329 + Evrysdi SMA								
				RG6237	GYM 329 FSHD								
				RG6356	Elevidys² DMD (0-4 y.o.)								
				RG7816	alogabat Angelman Syndrome								

	Small molecule		Antibody		Gene therapy		Brainshuttle™		Locked nucleic acid/antisease
--	----------------	--	----------	--	--------------	--	---------------	--	-------------------------------

	Neuroimmunologic disorders		Neurodegenerative diseases		Neurodevelopmental disorders		Neuromuscular disorders		RD = Rare disease
--	----------------------------	--	----------------------------	--	------------------------------	--	-------------------------	--	-------------------

¹beprenemab in partnership with UCB, studies are currently run by UCB; ²Elevidys in partnership with Sarepta Therapeutics; *ambulatory, 8-18 yrs; non-ambulatory, all ages)
 NMOSD=neuromyelitis optica spectrum disorders; DMD=Duchenne muscular dystrophy; SMA=spinal muscular atrophy; FSHD=facioscapulohumeral muscular dystrophy; MOG-AD=myelin oligodendrocyte glycoprotein antibody-associated disease; AIE=autoimmune encephalitis; MAGL=monoacylglycerol lipase; y.o.=year old



Fenebrutinib is a highly selective, non-covalent, brain-penetrant BTKi

Fenebrutinib with best-in-class potential, highly differentiated vs. covalent BTKis

Development program

Ind.	Vs.	Ph I	Ph II	Ph III
RMS	placebo	FENopta		✓
RMS	teriflunomide	FENhance 1		
RMS	teriflunomide	FENhance 2		
PPMS	Ocrevus	FENtrepid		

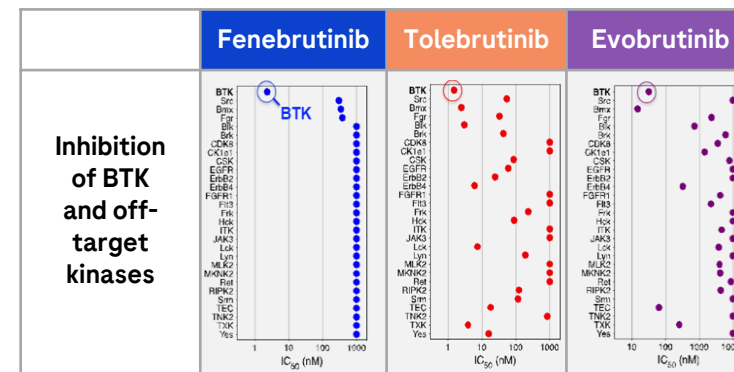
- All Ph III studies in RMS and PPMS to read out in 2025
- Ph III (FENtrepid) in PPMS is the only H2H study vs Ocrevus

Fenebrutinib PK profile vs other BTKis ¹

Fenebrutinib	Tolebrutinib	Evobrutinib	Remibrutinib
Non-covalent Reversible	Covalent Irreversible	Covalent Irreversible	Covalent Irreversible
WB B cell IC₅₀: 8 nM	10 nM	84 nM	18 nM
WB Myeloid cell IC₅₀: 31 nM	166 nM	1660 nM	67 nM
Selectivity High	Low	Low	High
RMS, PPMS (vs Ocrevus)	RMS, SPMS, PPMS (vs placebo)	RMS	RMS

- Fenebrutinib binds reversibly to BTK with kinetics that may positively influence efficacy and safety
- Fenebrutinib is the most potent BTKi in the inhibition of FcR and BCR signalling²
- In an *in vitro* kinase activity assay, fenebrutinib only inhibited three off-target kinases³

Fenebrutinib selectivity vs. other BTKis³



Fenebrutinib could disrupt the oral market segment, currently comprising >40% of the global MS market

¹Kramer, et al. (2023) Nat Rev Neurol. 2023;19(5):289-304; Crawford et al. (2018) J Med Chem 61, 2227-2245; Francesco et al., ACTRIMS-ECTRIMS (2017) 200644. Haselmayer et al. (2019) J Immunol 202, 2888-2906; Angst et al. (2020) J Med Chem 63, 5102-5118; ²Weber MS, et al. AAN 2021 (Oral presentation P15.091); ³Johnson et al. Presented at MSVirtual 2020 (Presentation number P0338) H2H= head-to-head; MS=Multiple sclerosis; RMS=relapsing multiple sclerosis; PPMS=primary progressive multiple sclerosis; SPMS=Secondary progressive multiple sclerosis; BTK=Bruton's tyrosine kinase; nM=nanomolar; WB=whole blood; *As of Sept 2024: including non-MS Ph I/II studies

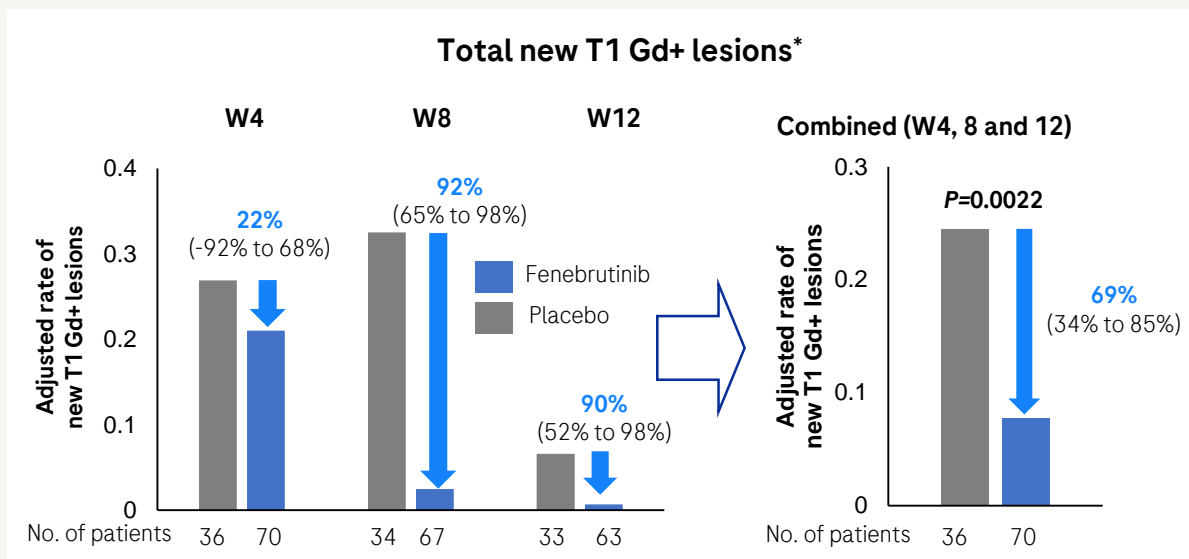


Ph II (FENopta) with compelling RMS data at weeks 12 and 48

Rapid and sustained suppression of disease activity

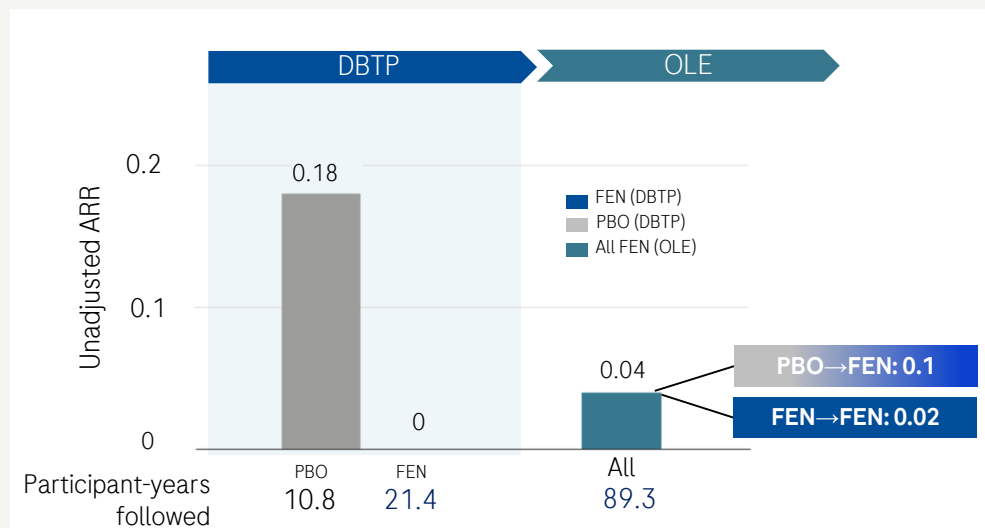
ECTRIMS 2024

Ph II (FENopta) double-blind period at weeks 4, 8, 12¹



- Rapid onset of T1 Gd+ lesion reduction from W4 onwards with relative reductions of 92%/90% in W8/W12
- CSF concentration sufficient to reduce B-cell & microglia activity *in vitro*
- Safety profile consistent with previous studies in non MS indications³

Ph II (FENopta) open label extension at week 48²



- 97% of patients remained in the OLE until week 48
- 96% of patients were relapse free with an ARR of 0.04
- 99% of patients were free from new T1 Gd+ lesions
- The median change from baseline in EDSS for each arm was zero

¹Hua et al. 2023 European Journal of Neurology, 30 (Suppl. 1), 431–542: EPO688; ²Bar-Or et al. Presented at ECTRIMS 2024; ³Oh et al. MSJ 2024;30(IS):18-270; Abstract P094

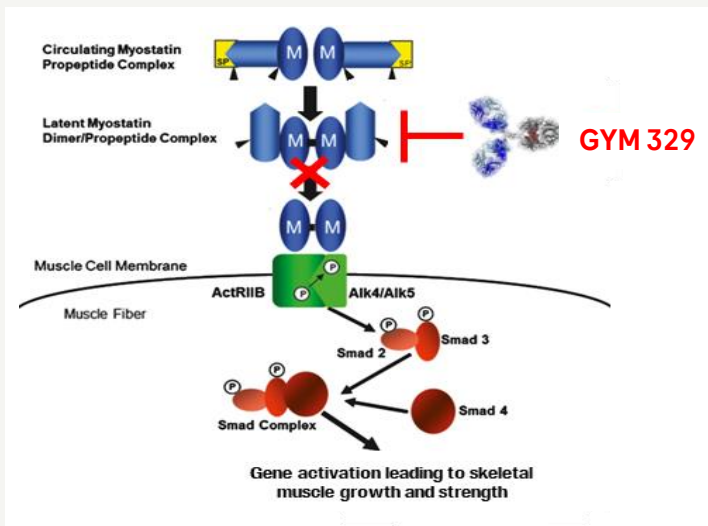
*Results were estimated from a negative binomial model controlling for baseline T1 Gd+ lesion status (presence or absence) and included log number of scans as an offset. Arrows indicate relative reduction (95% CI) of lesions; MS=multiple sclerosis; CSF=cerebrospinal fluid; RMS=relapsing multiple sclerosis; Gd+=gadolinium-enhancing; DBTP=double blind treatment period; OLE=open label extension; W=week; EDSS=expanded disability status scale; PBO=placebo; FEN=fenebrutinib; ARR=annualized relapse rate



GYM 329 (anti-latent myostatin mAb) to promote muscle growth in SMA

Ph II (MANATEE) Part 1 results expected in 2025

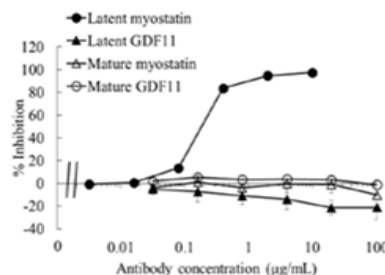
GYM 329 (Anti-latent myostatin mAb)



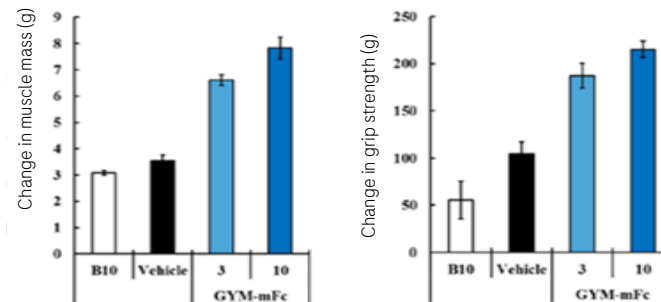
- GYM 329 inhibits latent myostatin, a key negative regulator of skeletal muscle growth and strength
- Unique sweeping¹ and recycling technology allows Q4W SC dosing and highly specific myostatin inhibition, but not GDF11, the related muscle hormone²

Pre-clinical data in a mouse models of muscle disease²

Efficient inhibition of latent myostatin, but not GDF11



Increase in muscle mass and strength in mouse models



Combination rationale



Evrysdi treats the underlying disease, SMA, throughout the CNS and in peripheral tissues



GYM 329 targets skeletal muscles to increase their size and strength

- Preclinical studies show that GYM 329 has superior muscle strength-improvement effects in mice vs other anti-myostatin therapies²
- The combination of myostatin inhibition and SMN2 splice modification ameliorates muscle atrophy in an animal model of SMA³
- Ph II/III (MANATEE) GYM 329 + Evrysdi in SMA ongoing; Part 1 (n=36) to select the optimal dose; Part 2 (n=144) assesses the efficacy and safety of the selected optimal dose

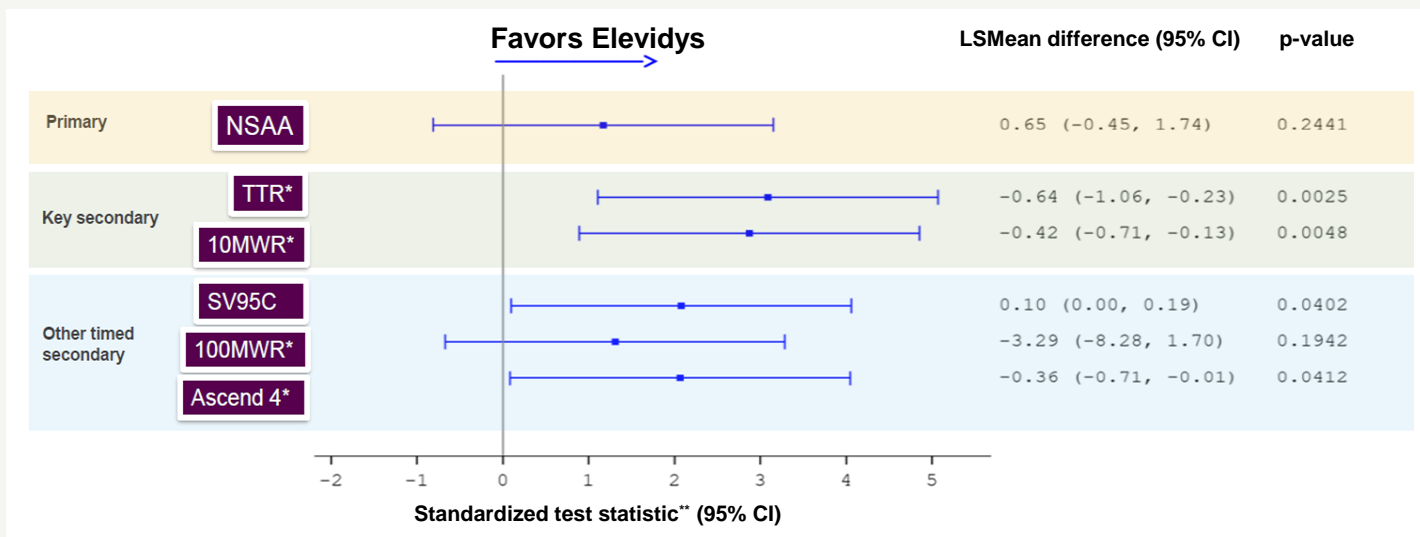
¹Igawa et al. Immunol. Rev. 2016;270:132–151; ²Muramatsu H. et al., Nature Scientific Reports 2021. ³Feng et al. Human Molecular Genetic. 2016; 25(5): 964–975; SC=subcutaneous; mAb=monoclonal antibody; SMA=spinal muscular atrophy; BL=baseline; PD=pharmacodynamics; PK=pharmacokinetics; RHS=Revised Hammersmith Scale; FSHD=facioscapulohumeral muscular dystrophy; GYM 329 in collaboration with Chugai



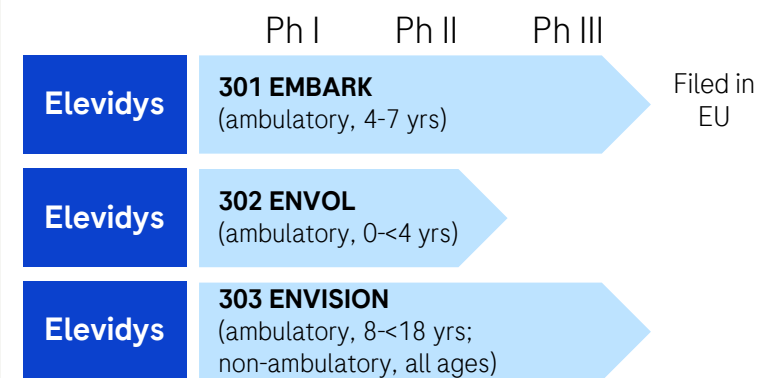
Elevidys providing clinically meaningful benefits in DMD

EU filing completed in DMD patients aged 3-7 years; final decision expected in H2 2025

Ph III (EMBARK) results in DMD



Key development projects



- Ph III (EMBARK) in DMD favors Elevidys treatment for all key secondary endpoints
- The positive benefit-risk profile is supported by the totality of the efficacy data and its consistent, monitorable, and manageable safety profile¹
- First and only GT approved for ambulatory & non-ambulatory DMD pts 4 yrs and older
- Positive experience with first ex-US patients² across 5 countries with over 400 patients treated globally across clinical and commercial settings

- Largest clinical program to support broader DMD populations across various ages and ambulatory status
- EMBARK Part 2 will provide 2-year follow-up data from Part 1 patients

¹Mendell et al. 2024 Pediatric Neurology; 153:11-18. ²US approval by partner Sarepta, Roche approval 6 countries ex-US; *Timed function tests sign reversed to align favorable directions among effect endpoints; **Blue lines plot standardized t test statistic (+/- 1.96) after dividing LS Mean (95% CI) by standard error; DMD=Duchenne muscular dystrophy; NSAA=North Star Ambulatory Assessment; TTR=time to rise; GT=gene therapy; 10MWR/100MWR=10/100-m walk/run velocity; SV95C=stride velocity 95th centile; Ascend 4=time to ascend 4 steps; LSM=least-squares mean; CI=confidence interval; Elevidys in collaboration with Sarepta

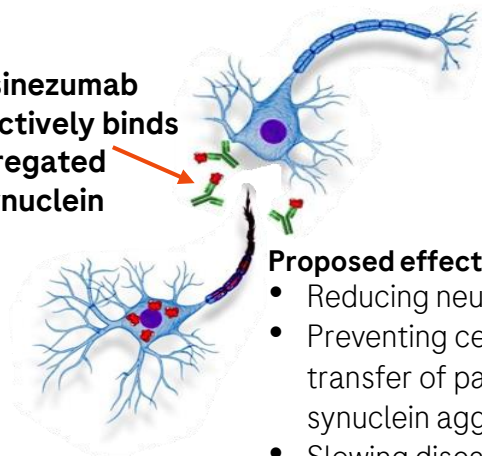


Prasinezumab is a mAb selectively binding aggregated α -synuclein

Current symptomatic treatments only address motor symptoms, but do not affect PD progression

Prasinezumab: First potential disease modifying therapy in PD^{1,2}

Prasinezumab selectively binds aggregated α -synuclein

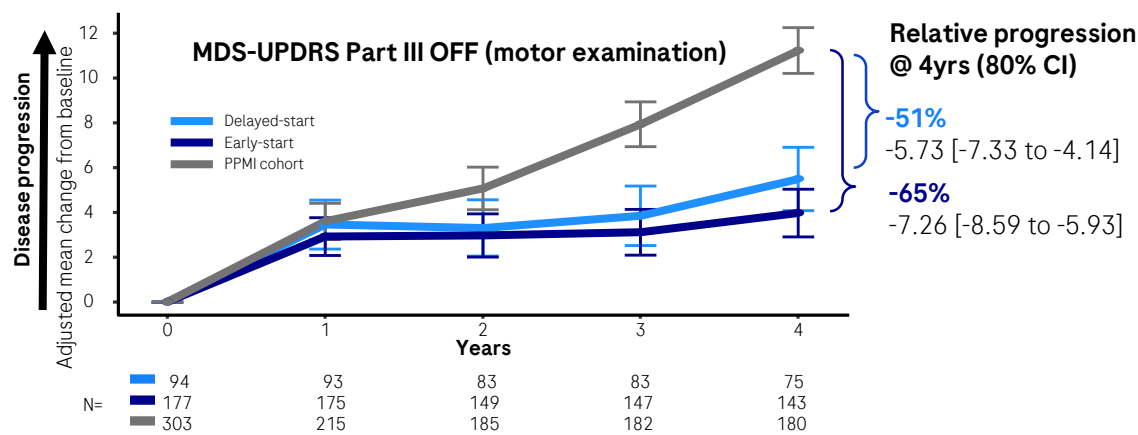


Proposed effects:

- Reducing neuronal toxicity
- Preventing cell-to-cell transfer of pathogenic α -synuclein aggregates
- Slowing disease progression

- Parkinson's disease is one of the fastest growing neurological disorders with high unmet need, economic and societal burden

Ph II (PASADENA): Prasinezumab-treated individuals progress less than PPMI propensity-matched population³



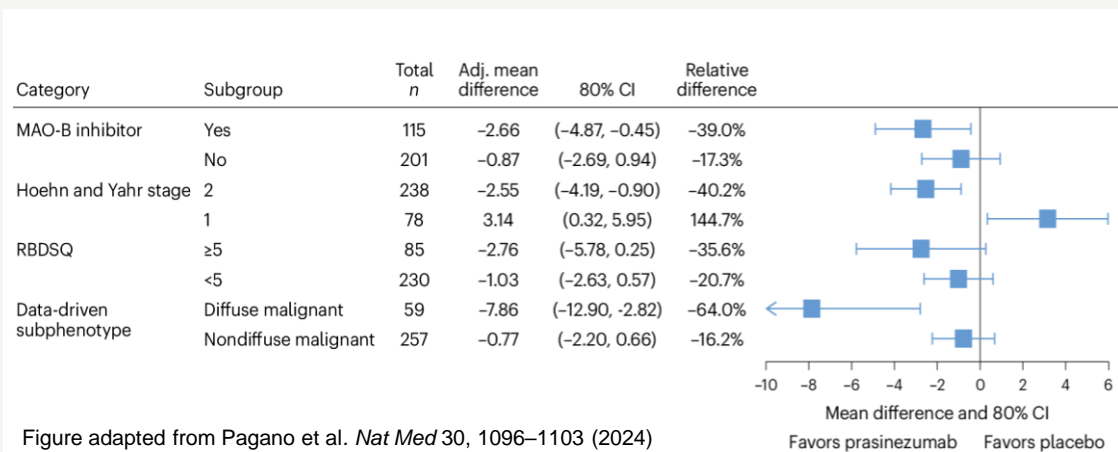
- Comparison of Ph II (PASADENA) and PPMI data suggests potential benefit in slowing motor progression in favor of prasinezumab on multiple endpoints
- Slowing of progression on clinician-rated motor examination (MDS-UPDRS Part III) OFF and ON symptomatic medication state, was consistent with previous data analyses
- Slowing of progression on patient-reported motor experiences of daily living (MDS-UPDRS Part II) emerges after the effect on Part III

¹Pagano et al. Front Neurol. 2021; 12: 705407 ²Pagano et al. N Engl J Med 2022 Aug 4;387(5):421-432; ³Pagano et al. Presented at ADPD 2024; PASADENA Phase II clinical trial. Available at: <https://clinicaltrials.gov/ct2/show/NCT03100149> (last accessed Sept 2024); MDS-UPDRS=Movement Disorder Society-sponsored revision of the Unified Parkinson's Disease Rating Scale; OFF=practically defined OFF state; PD=Parkinson's disease; PPMI=Parkinson progression marker initiative; In collaboration with Prothena



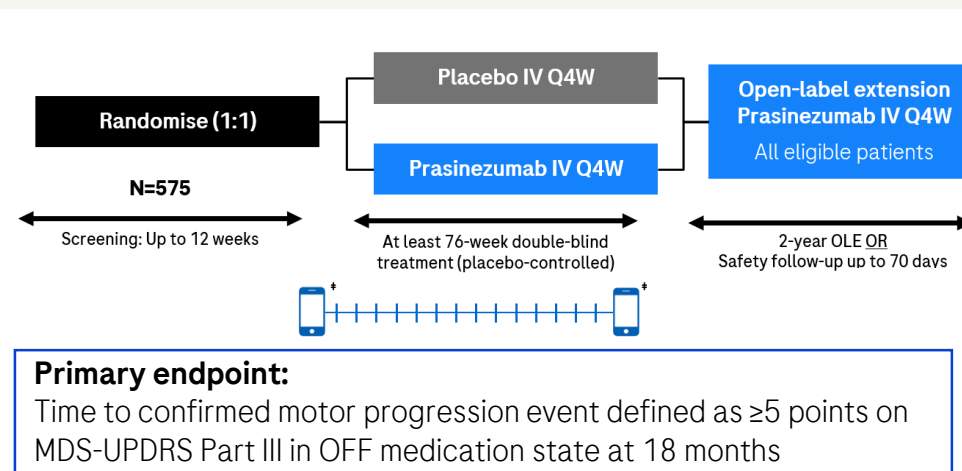
Ph II (PADOVA) is based on Ph II (PASADENA) learnings to evaluate prasinezumab in patients on symptomatic therapy

Ph II (PASADENA) subpopulation analysis¹



- Prasinezumab may reduce motor progression to a greater extent in more rapidly progressing Parkinson’s disease
- Longer studies could further distinguish the effect of prasinezumab on progression of patient reported motor symptoms, functional activity or progression of non-motor symptoms
- PADOVA will follow up on slowing of motor progression observed in PASADENA, in patients on stable background symptomatic therapy

Ph IIb (PADOVA) results expected in Q4 2024²



- Time-to-event design used to measure the impact of prasinezumab on meaningful motor progression and to mitigate the impact of symptomatic medication
- PADOVA enrolled 586 pts with early-stage PD, of whom 74.4% were on stable L-DOPA and 25.6% on MAO-Bi at baseline
- PADOVA readout in Q4 2024

¹Pagano et al. *Nat Med.*, 2024. 30, 1096–1103; 2. ClinicalTrials.gov. NCT04777331. PADOVA Phase II clinical trial. Available at: <https://clinicaltrials.gov/ct2/show/NCT04777331> (last accessed Sept 2024).; *Digital biomarkers (smartphone and wrist-worn wearable assessments); IV=intravenous; Q4W=every 4 week; OLE=open label extension; L-DOPA=levodopa; MAO-Bi=monoamine oxidase type B inhibitor; MDS-UPDRS=movement disorder society-sponsored revision of the unified Parkinson’s disease rating scale; OFF=practically defined OFF state, i.e. 12 hours after last dose; PD=Parkinson’s disease; In collaboration with Prothena

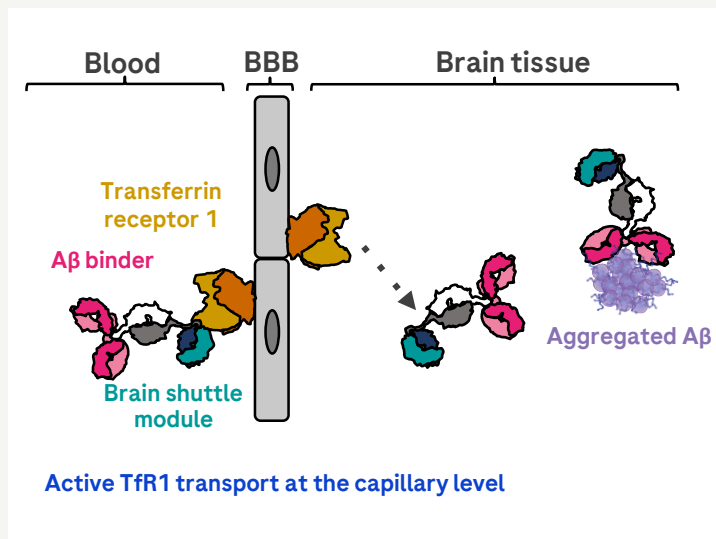


Trontinemab in AD clears Aβ more rapidly than conventional mAbs

Brainshuttle™ technology efficiently transports anti-Aβ mAb across the blood-brain-barrier (BBB)



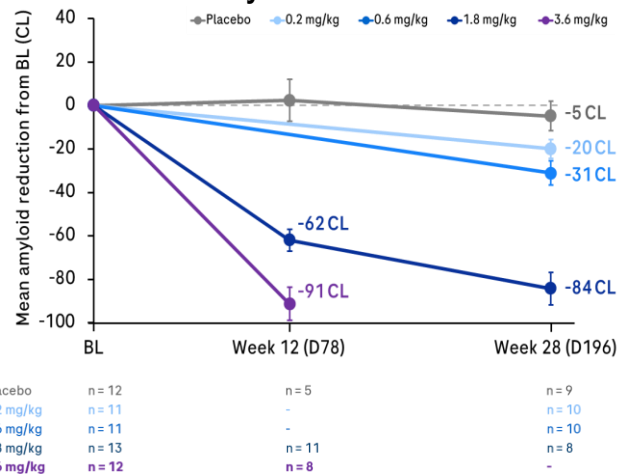
Trontinemab (Brainshuttle™ anti-Aβ mAb)



- Trontinemab uses Roche’s proprietary Brainshuttle™ technology, combining an Aβ binding mAb with a transferrin receptor shuttle module
- Designed for efficient transport across the BBB to remove amyloid plaques in the brain

Trontinemab reduces plaques rapidly and robustly with low ARIA rates

Ph Ib/IIa trontinemab: Dose-dependent amyloid reduction



Ph Ib/IIa trontinemab AEs: ARIA and anemia

Total # with event [events/pt], (%)	C1 0.2 mg/kg or Pbo (n = 14)	C2 0.6 mg/kg or Pbo (n = 13)	C3 1.8 mg/kg or Pbo (n = 15)	C4 3.6 mg/kg or Pbo (n = 14)
ARIA-E	0	0	1 [2] (6.7%)	0
ARIA-H				
Microhemorrhage	0	0	0	0
Leptomeningeal hemosiderosis (LH)	0	0	1 [2] (6.7%)	0
ARIA-E with concurrent ARIA-H	0	0	0	0
Macrohemorrhage	0	0	0	0
Anemia				
Total # of pts with at least one AE, (%)	2 (14.3%)	0	5 (31.2%)	1 (6.7%)

- Trontinemab demonstrated rapid and robust amyloid plaque reduction at relatively low doses (1.8 mg/kg Q4W; 3.6 mg/kg Q4W), compared with placebo
- Sustained low incidence of ARIA
- Updated Ph Ib/IIa data to be presented at upcoming conference (CTAD 2024)

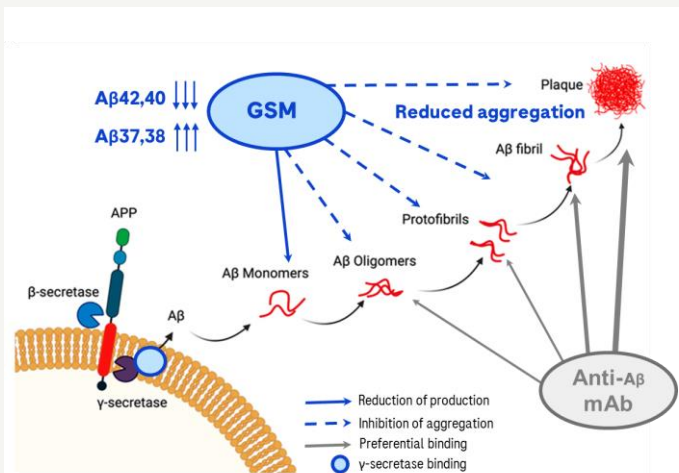
¹Kulic L et al., ADPD 2024; AD=Alzheimer’s disease; CL=centiloid unit; mAb=mono-clonal antibody; Aβ=amyloid β; q4w=every 4 weeks; ARIA=amyloid-related imaging abnormalities; BBB=blood-brain barrier; C=cohort; Pt=patient; Pbo=placebo; AE=adverse event; ARIA=amyloid related imaging abnormalities



RG6289, a FIC oral γ -secretase modulator in Alzheimer's disease

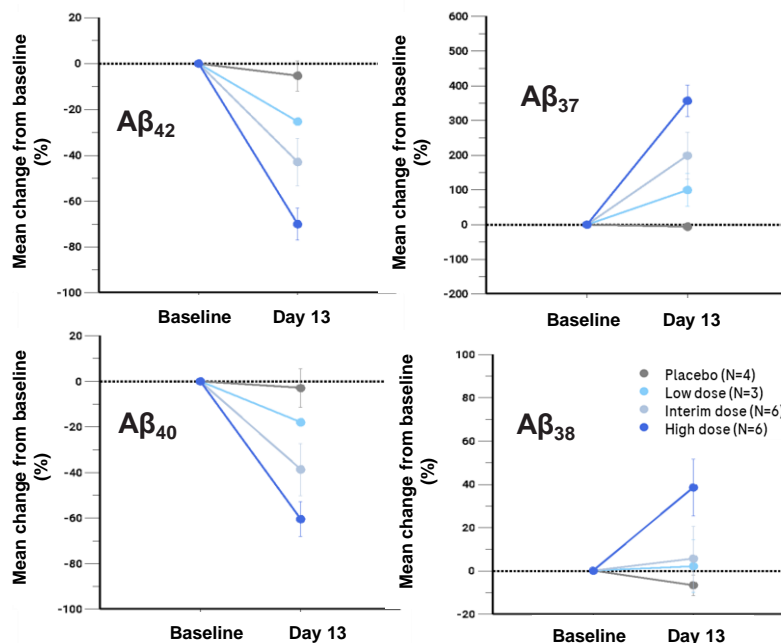
Targeting amyloid precursor protein processing to prevent $A\beta$ -aggregation

GSMs reduce $A\beta$ aggregation¹



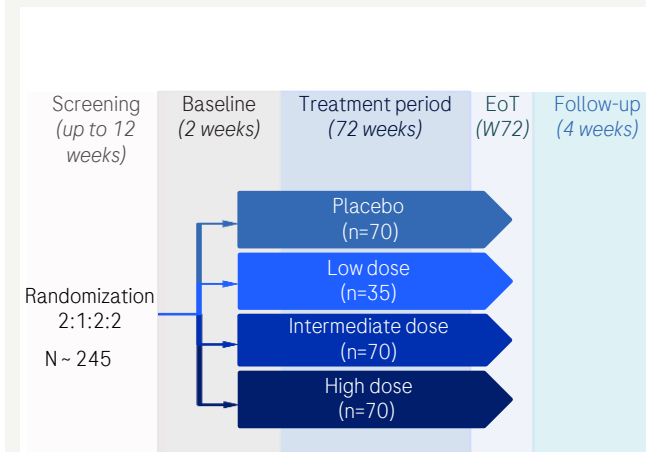
- RG6289 a potentially first-in-class oral GSM with high potency and selectivity
- GSMs alter APP processing: Reduction of $A\beta_{42/40}$ and elevation of $A\beta_{38/37}$
- Selective for APP with no effect on Notch
- GSMs prevent amyloid accumulation and halt plaque formation in animal model

Ph I dose escalation results for RG6289²



- Daily administrations of RG6289 decreased $A\beta_{42/40}$ and increased $A\beta_{37/38}$ concentrations in CSF of healthy volunteers in a dose dependent manner

Ph II (GABriella) study design³

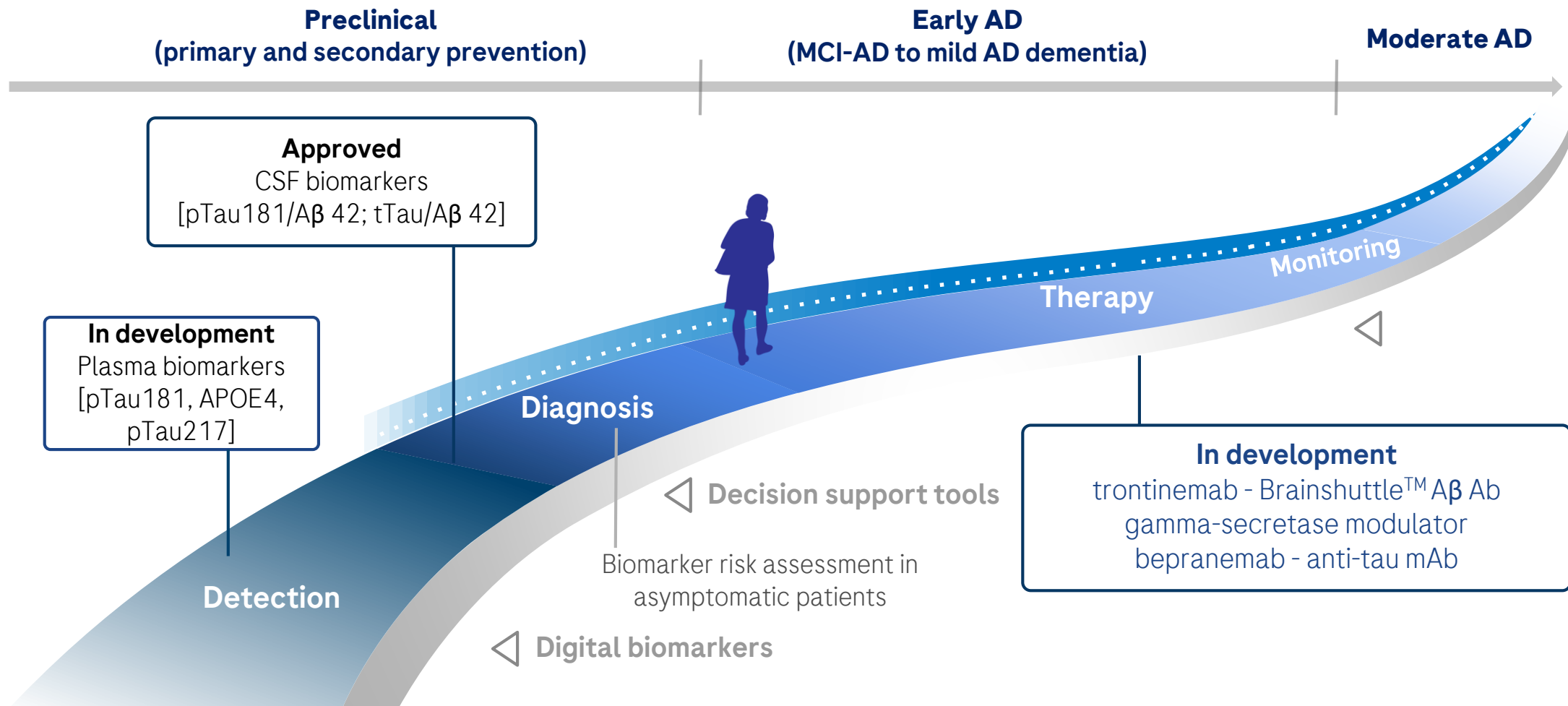


- Ph IIa (GABriella) investigates RG6289 in individuals at risk for or at prodromal stage of AD exploring safety, tolerability and effects on AD-related biomarkers
- Interim data expected in 2026

¹Figure adapted from Vogt et al., Int. J. Mol. Sci. 2023; ²Sturm et al; presented at CTAD 2023; ³Tortelli et al. presented at ADPD 2024; FIC=first-in-class; GSM=gamma-secretase modulator; AD=Alzheimer's disease APP=amyloid precursor protein; $A\beta$ =amyloid β ; mAb=monoclonal antibody; HV=healthy volunteers



Roche is committed to transforming the AD journey by developing solutions across the breadth of AD





Immunology

Larry Tsai

SVP and Global Head of Product Development

Immunology



Drivers of innovation in Immunology

Roche is well positioned to capture future innovation



Optimize pathways

Combinations

Endotypes

Cure

Improve known pathways/targets for transformational benefit

Target multiple pathways to achieve improved efficacy and deeper remission

Identify patients subsets to improve efficacy and guide therapy

Aim for curative treatment to achieve long-term remission

Recent examples

Gazyva (LN)
Next-generation aCD20 with enhanced B-cell depletion

Lunsumio (SLE)
Bispecific targeting CD20 on B-cells and CD3 on T-cells

Selnoflast (asthma)
NLPR3i potential to be first new oral asthma therapy in 25 years

Undisclosed (IBD)
Combining orthogonal, validated pathways to raise efficacy

Undisclosed (COPD)
Combining orthogonal, validated pathways to raise efficacy

Astegolimab (COPD)
Potential to address difficult to treat low-eosinophil patients

Anti-TL 1A (IBD)
Exploring biomarker which may predict better response to treatment

CD19xCD3 (SLE)
T cell-engaging bispecific mAb targeting CD19 on B-cells & CD3 on T-cells



Immunology pipeline

Phase I	
RG6341	undisclosed Asthma
RG6287	undisclosed immunology
RG6382	CD19 x CD3 SLE
RG7828	Lunsumio SLE
RG6418	selnoflast Asthma
RG6421	TMEM16A potentiator Muco-obstructive respiratory disease
RG6315	undisclosed Systemic sclerosis
RG6377	undisclosed IBD
CHU	Anti-HLA-DQ2.5 x gluten peptides Celiac disease
CHU	RAY121 (anti-C1s recycling Ab) Immunology

Phase II	
RG6341	undisclosed Chronic cough
RG6536	vixarelimab IPF/SSc-ILD
RG6536	vixarelimab IBD

Phase III	
RG7159	Gazyva Lupus nephritis
RG7159	Gazyva Membranous nephropathy
RG7159	Gazyva SLE
RG7159	Gazyva Childhood onset INS
RG6149	astegolimab COPD
RG6299	ASO Factor B IgAN
RG6631	Anti-TL1A Ulcerative colitis
RG6631	Anti-TL1A Crohn's disease

- Immunological kidney diseases
- Respiratory & allergy
- Gastroenterology
- Others/undisclosed

- Small molecule
- Antibody
- Locked nucleic acid / antisense
- Bispecifics

Primary endpoint met



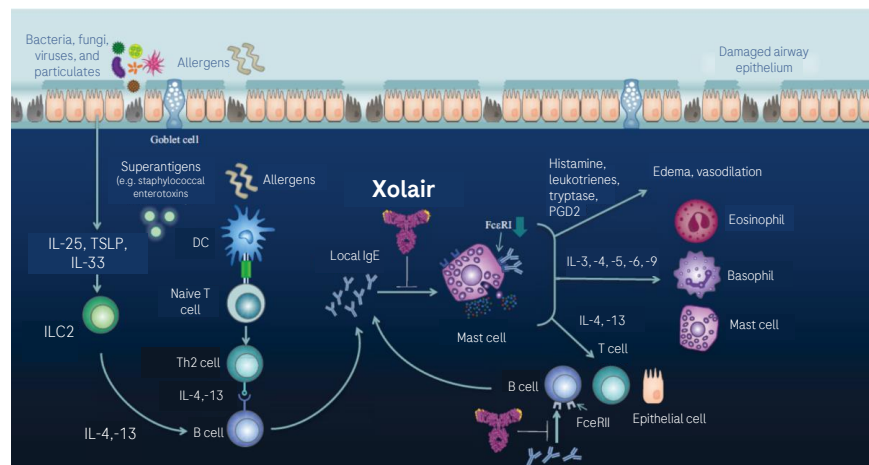
SLE=systemic lupus erythematosus; IBD=inflammatory bowel disease; IPF=idiopathic pulmonary fibrosis; SSC-ILD=systemic sclerosis-interstitial lung disease; INS=idiopathic nephrotic syndrome; COPD=chronic obstructive pulmonary disease; IgAN=IgA Nephropathy



Xolair in food allergy is the first and only FDA-approved medicine to reduce allergic reactions to multiple foods

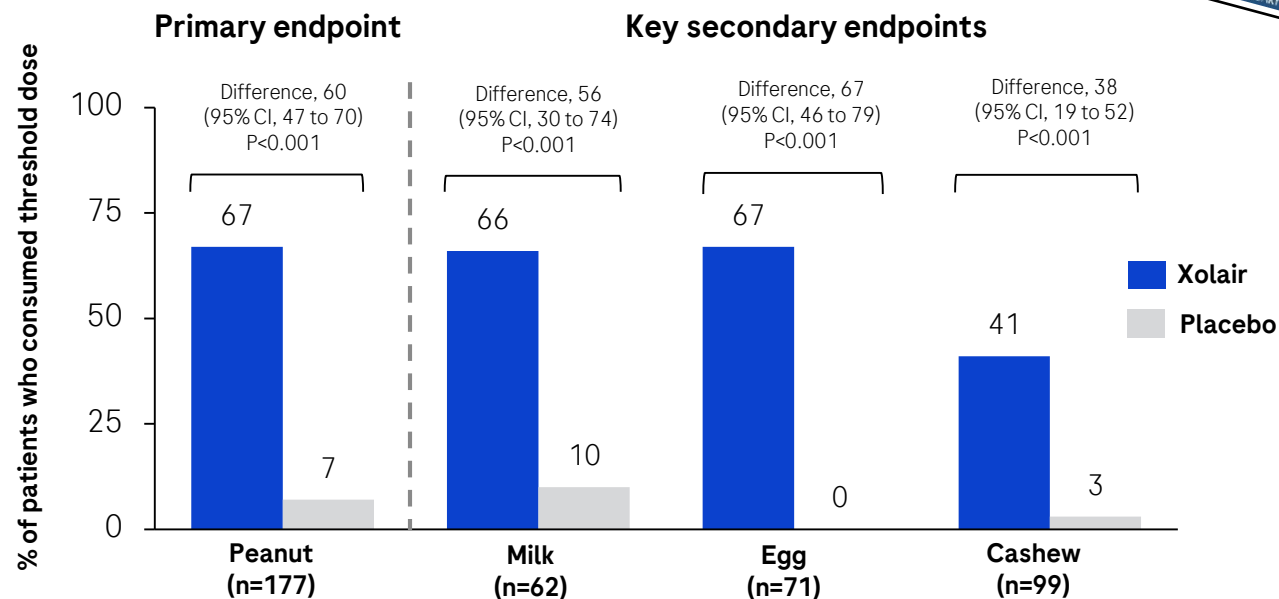


Xolair (anti-IgE mAb)



- Inhibits binding of IgE to high affinity IgE receptor on the surface of mast cells, basophils, and dendritic cells
- Approved for asthma, chronic spontaneous urticaria, nasal polyps, and food allergy

Ph III (OUtMATCH) in food allergy^{1,*}



- >15k patients on treatment in first four months post-launch
- >40% of children and >50% of adults with food allergies have experienced a severe reaction at least once^{2,3}

1 Wood et al., 2024 NEJM; 2 Gupta et al., 2019 JAMA Netw Open; 3 Gupta et al., 2018 Pediatrics; *The phase III OUtMATCH study is being sponsored and funded by the National Institute of Allergy and Infectious Diseases (NIAID), part of the NIH, and conducted by the NIAID-funded Consortium for Food Allergy Research (CoFAR) across 10 clinical sites throughout the U.S. The study is also supported by Genentech, a member of the Roche Group, and Novartis Pharmaceuticals Corporation; mAb=monoclonal antibody; CI=confidence interval



Well positioned for a strong future in immunological kidney diseases

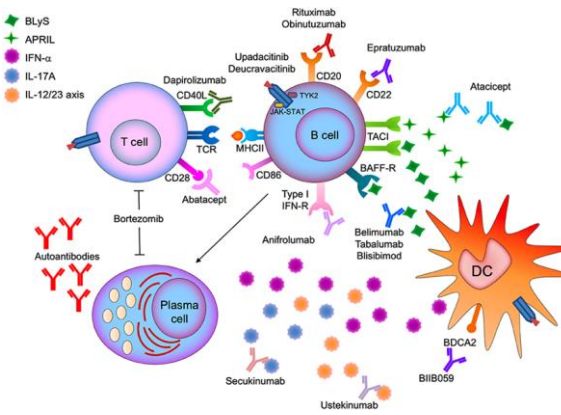
Development programs

Molecule	Indication	Ph1	Ph2	Ph3
Gazyva	LN	REGENCY	→	✓
	SLE	ALLEGORY	→	
	MN	MAJESTY	→	
	INS	INShore	→	
PiaSky	aHUS	COMMUTE-α	→	
		COMMUTE-p	→	
ASO Factor B	IgAN	IMAGINATION	→	
Lunsumio	SLE	→		
CD19xCD3	SLE	→		

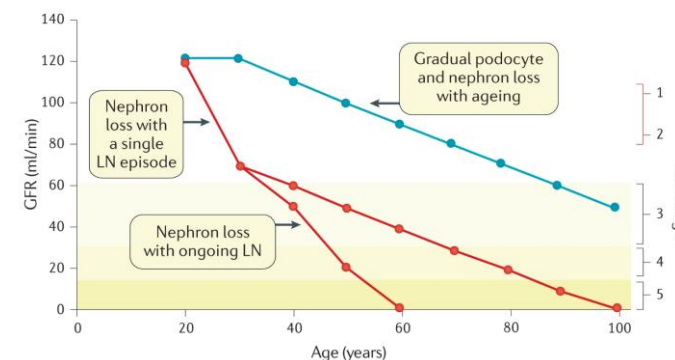
✓ Primary endpoint met

Lupus nephritis (LN)

B cells are central to LN pathogenesis



Risk of ESKD in patients with LN over lifetime



- LN is a severe manifestation of systemic lupus erythematosus (SLE); around 50% of SLE patients will develop LN within 5 years of SLE diagnosis
- Up to 25% of these patients develop end stage kidney disease (ESKD) despite treatment with current available therapies (dialysis or transplant)
- LN is associated with 6x increased risk of mortality vs the general population
- There is currently no cure for LN



Gazyva Ph III (REGENCY) in lupus nephritis met primary endpoint

Gazyva shows superiority in CRR over SoC with clinically meaningful treatment benefits

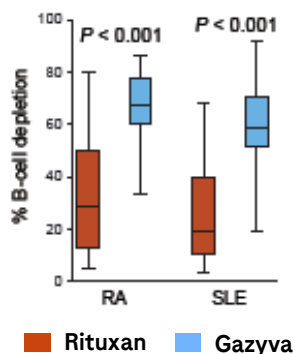
Gazyva (anti-CD20 mAb)

Type II anti-CD20 antibody



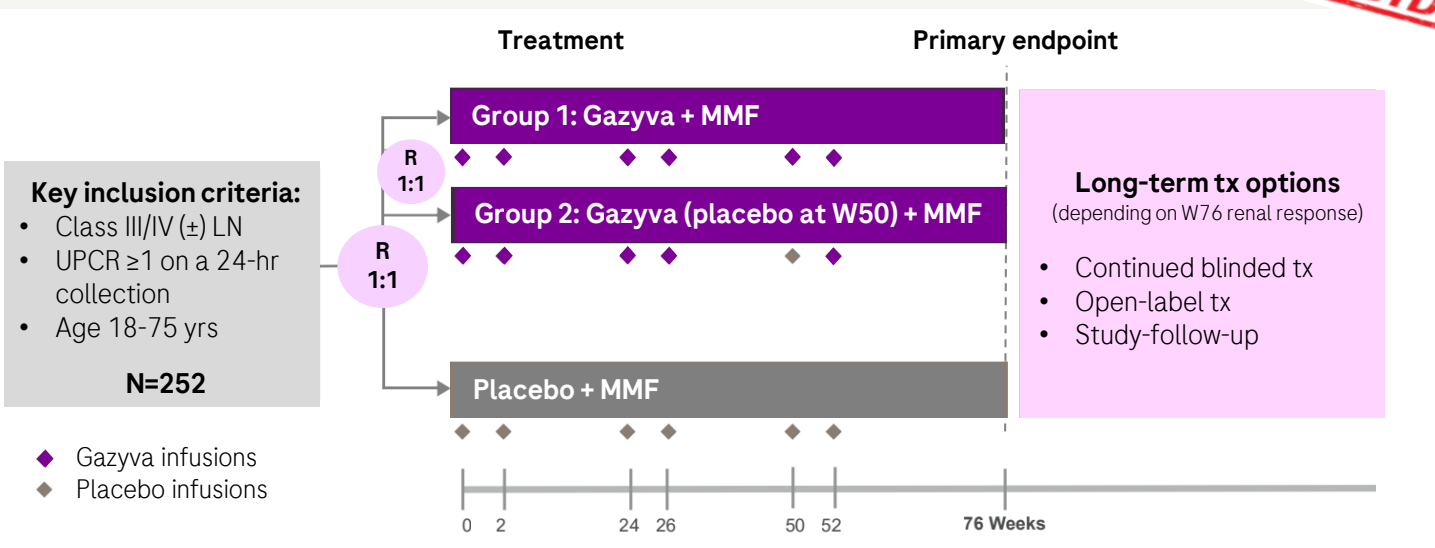
Glycoengineered Fc region²

B cell depletion vs Rituxan



- Type II anti-CD20 region with increased direct cell death, decreased CDC and reduced internalization
- Glycoengineered Fc region with higher FcYR affinity and increased ADCC/ADCP
- Greater potency than Rituxan in depleting peripheral and tissue B-cells

Ph III (REGENCY) in LN trial design



- Study results show a higher proportion of people treated with Gazyva plus standard therapy (mycophenolate mofetil and glucocorticoids) achieved a CRR at 76 weeks compared to those treated with standard therapy alone
- Safety was in line with well-characterised profile of Gazyva, no new safety signals identified
- Data will be filed with global health authorities and presented at upcoming medical meeting

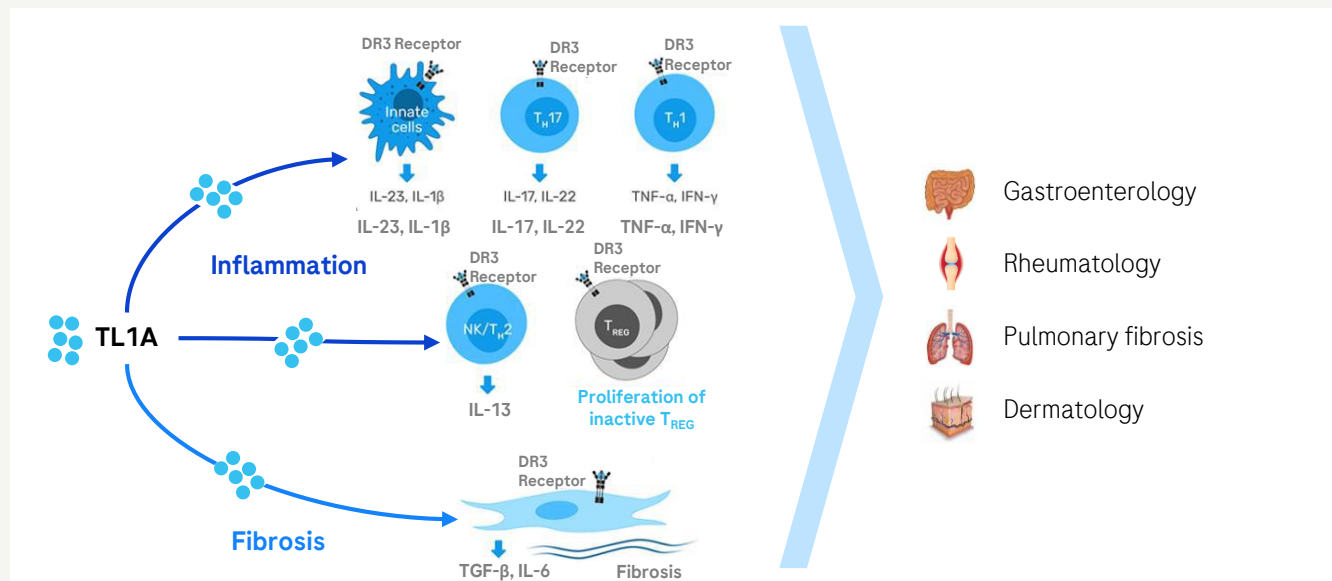
mAb=monoclonal antibody; LN=lupus nephritis; MMF=mycophenolate mofetil; CDC=complement-dependent cytotoxicity; ADCC=antibody-dependent cell-mediated cytotoxicity; ADCP=antibody-dependent cellular phagocytosis; CRR=complete renal response; SoC=standard of care; tx=treatment; UPCR=urine protein creatinine ratio; W=week



TL1A is implicated in multiple immunological diseases

Continuing to explore additional indications

TL1A implicated in inflammatory and fibrotic processes^{1,2}



- Gastroenterology
- Rheumatology
- Pulmonary fibrosis
- Dermatology

RG6631 (anti-TL1A) development program

Indication	Development stage	Status
Ulcerative colitis	Ph I, Ph II, Ph III	FPI achieved in Q3'24
Crohn's disease	Ph I, Ph II, Ph III	FPI expected Q1'25

- Ph III study in UC achieved FPI
- Initiating Ph III study in CD with FPI expected Q1'25
- Continuing to explore additional indications with update to be communicated in H1 2025

- TL1A binds and activates the DR3 receptor, stimulating downstream inflammation and fibrosis processes
- TL1A is dysregulated in patients with immune-mediated diseases, with clinical and translational links to IBD, rheumatoid arthritis amongst others
- Non-clinical and translational studies demonstrated its involvement in pathogenesis of fibrotic conditions

1 Xu WD, Li R, Huang AF. Role of TL1A in Inflammatory Autoimmune Diseases: A Comprehensive Review. Front Immunol. 2022 Jul 14;13:891328. doi: 10.3389/fimmu.2022.891328. PMID: 35911746; 2 Herro R, et al. TL1A Promotes Lung Tissue Fibrosis and Airway Remodeling. J Immunol. 2020 Nov 1;205(9):2414-2422. doi: 10.4049/jimmunol.2000665. Epub 2020 Sep 21. PMID: 32958689; PMCID: PMC7577982.; PMCID: PMC9329929; TL1A=tumor necrosis factor-like cytokine 1A; DR3=dopamine 3; IBD=inflammatory bowel disease; UC=ulcerative colitis; CD=Crohn's disease

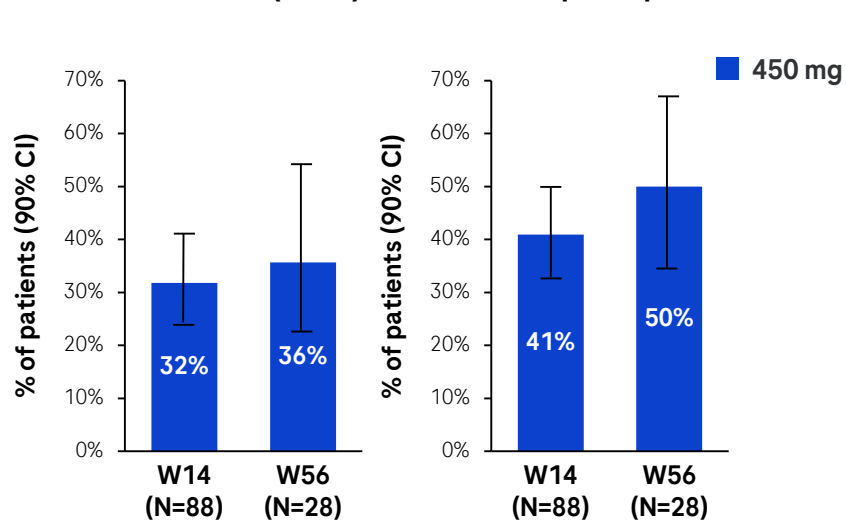


Anti-TL1A in ulcerative colitis

Ph III (AMETRINE-1&2) trials in UC initiated; Ph III (AMETRINE-1) achieved FPI

Ph IIb (TUSCANY-2) in UC¹

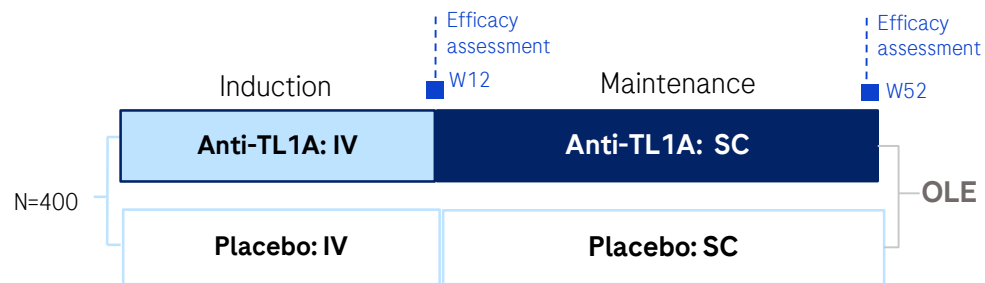
Clinical remission (mMS)[†] Endoscopic improvement[‡]



- Ph IIb (TUSCANY-2) in UC demonstrated strong efficacy and safety in a large group of pts (n=245)
- Sustained clinical remission and endoscopic improvement from induction to chronic phase
- Roche to present updated analysis at UEG 2024

Ph III (AMETRINE-1&2) in UC study design

AMETRINE-1: With treat-through design



AMETRINE-2: Induction only



- Treat-through study design with no re-randomization after induction phase
- Inclusion of participants who have not responded to more than three previous advanced therapies
- Exploring biomarker test which may predict better response to treatment

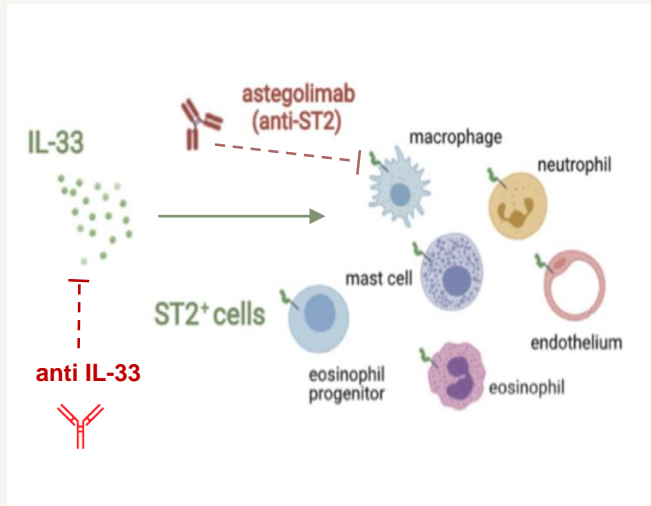
*biomarker not yet disclosed; ¹ Danese S. et al. UEG 2024 abstract; [†]Defined per FDA definition with an mMS 0-2 (endoscopic subscore=0 or 1, ≥1 point decrease from baseline to achieve a stool frequency subscore=0 or 1, and rectal bleeding subscore=0). [‡]Defined as endoscopic subscore=0 or 1; mMS=modified Mayo score; CI=confidence interval; UC=ulcerative colitis; FPI=first-patient-in; aTL1A=anti-tumor necrosis factor-like cytokine 1A; IV=intravenous; SC=subcutaneous; W=week; OLE=open label extension; UEG=United European Gastroenterology



Astegolimab a first-in-class anti-ST2 mAb in COPD

Early results show benefit in key endpoints throughout broad patient populations

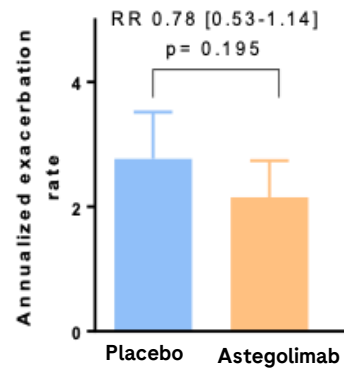
Anti-ST2 mAb



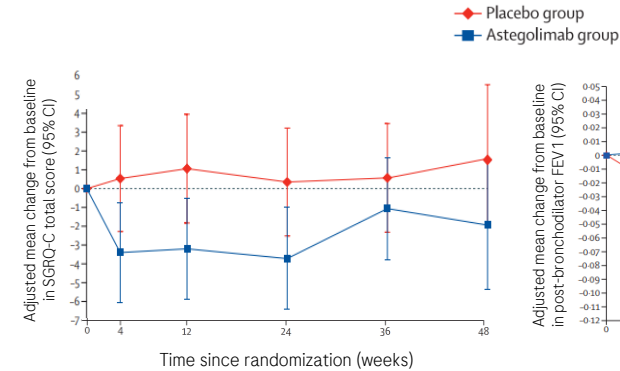
- Astegolimab binds both soluble ST2 and membrane bound ST2 (IL-33) receptor
- IL-33/ST2 blockade may impact airway remodeling in COPD patients

Ph IIa (COPD-ST2OP) results at 48 weeks¹

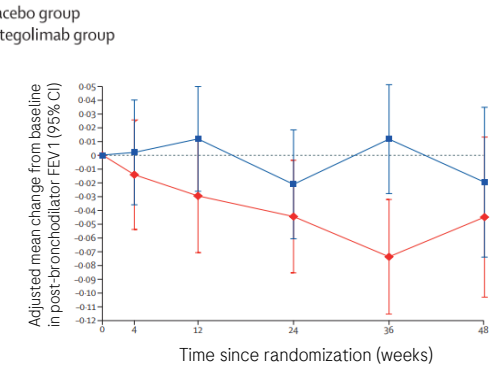
Exacerbation rate



SGRQ



FEV1



- AER reduction of -22% in ITT population and -37% in EOS low* patients
- Significant improvement in symptoms (reduction in SGRQ of -3.3) and expiratory volume (increased FEV₁ by +40 ml)
- No safety concerns were identified

¹ Yousuf et al. Lancet Respir. Med. 2022;10 (5):469-77; mAb=monoclonal antibody; ST2=suppression of tumorigenicity 2; IL-33=interleukin-33; COPD=chronic obstructive pulmonary disease; EOS=eosinophils; RR=rate reduction; AER(R)=annualized exacerbation rate (reduction); SGRQ=St. George's respiratory questionnaire; FEV1=forced expiratory value

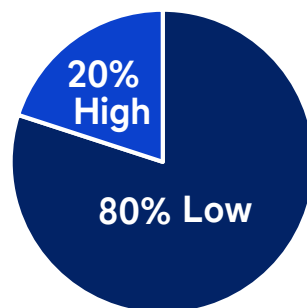


Ph IIb/III results for astegolimab in COPD expected 2025

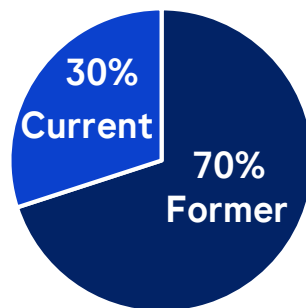
Aiming to address all COPD patients

COPD patient population¹

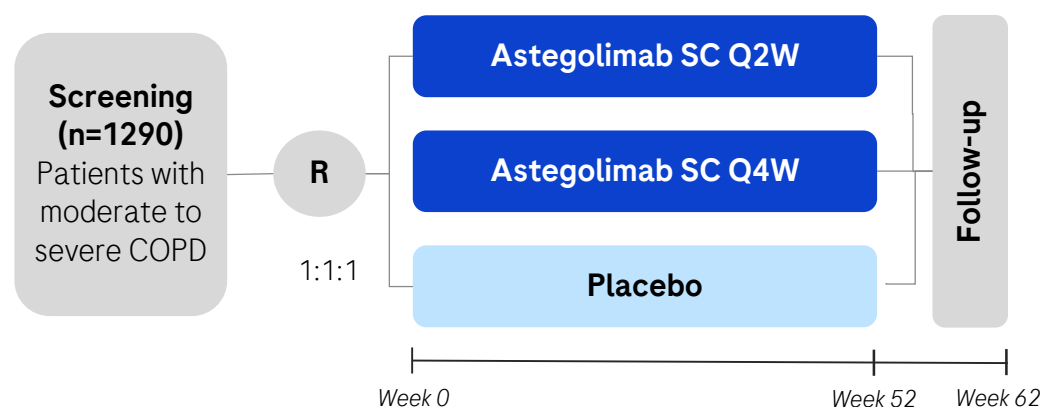
Eosinophil (EOS)*



Smoking status



PIIb (ALIENTO) / Ph III (ARNASA) trial design



- Near-term biologics in COPD are focused on EOS high or former smokers only
- Astegolimab pivotal trials enrolled broad patient population including former and current smokers, and EOS low to high
- Astegolimab has the potential to address neutrophilic inflammation as well as eosinophilic inflammation that could be key to reducing exacerbations across a broader population of patients
- Ph IIb (ALIENTO) and Ph III (ARNASA) pivotal results expected 2025

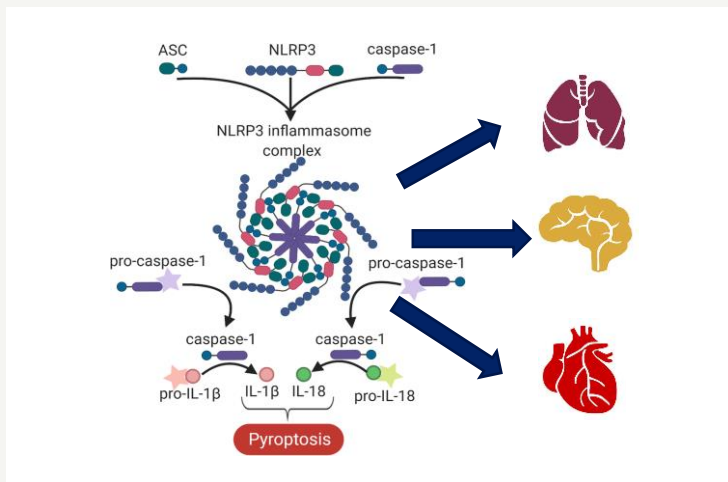
¹ Global strategy for prevention, diagnosis and management of COPD: 2023 report; *EOS high defined as ≥ 300 eosinophil cells per microliter of blood and EOS low defined as < 300 eosinophil cells per microliter of blood; COPD=chronic obstructive pulmonary disease; SoC=standard of care; SC=subcutaneous; Q2/4W=every 2/4 weeks; EOS=eosinophils



Selnoflast (NLRP3i) is a potent inhibitor of the NLRP3 inflammasome

Potential to be the first new oral asthma therapy in 25 years where high unmet need remains

Selnoflast (NLRP3 inflammasome inhibitor)



- Selnoflast is an orally active, potent, selective and reversible NLRP3 inhibitor
- NLRP3 is a cytosolic multi-protein complex implicated in multiple disorders across different therapeutic areas; its activation triggers inflammatory response leading to pyroptotic cell death

Development program

	Indication	Ph I	Ph II	Ph III	Status
Immunology	Asthma	▶			FPI achieved Q2'24
Neurology	Parkinson's disease	▶			Recruitment completed
CVRM	Coronary artery disease	▶			Recruitment completed

- Ph Ib study in moderate-severe asthma: NLRP3 inhibition reduced airway inflammation and hyper-responsiveness in models of steroid-resistant asthma
- Ph Ib study in Parkinson's disease: NLRP3 inhibition may reduce local brain inflammation and microglia activation, potentially resulting in slowing down the progression of PD
- Ph Ic study in coronary artery disease: NLRP3 inhibition can drive pro-inflammatory cell signaling down, therefore reduce inflammatory activities in heart that cause MACE

Figure adapted from O'Brien et al (2020). Journal of Neuroinflammation. 17. 10.1186/s12974-020-01778-5; MACE=major adverse cardiovascular events; CVRM=cardiovascular, renal and metabolism; NLRP3=NOD-, LRR- and pyrin domain-containing protein 3



Our contribution to Global Health Security

Delivering curative therapies in areas of high unmet need

Influenza



1bn cases of influenza annually, including **3-5mn** cases of severe illness and up to **650,000** respiratory deaths ¹

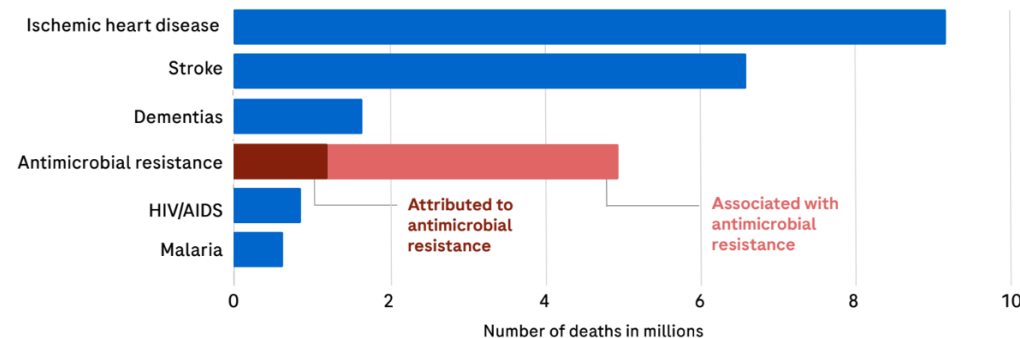


Risk of infection in a household contact can be up to **40%**²

- Influenza represents a serious threat to public health and is a significant burden on economies and healthcare systems
- Ph III (CENTERSTONE) result shows Xofluza reduces transmission of influenza from an infected person to household members which has the combined benefits of alleviating illness in the infected person and reducing spread within communities

Antimicrobial resistance (AMR)

The global burden of AMR is a present and growing danger³

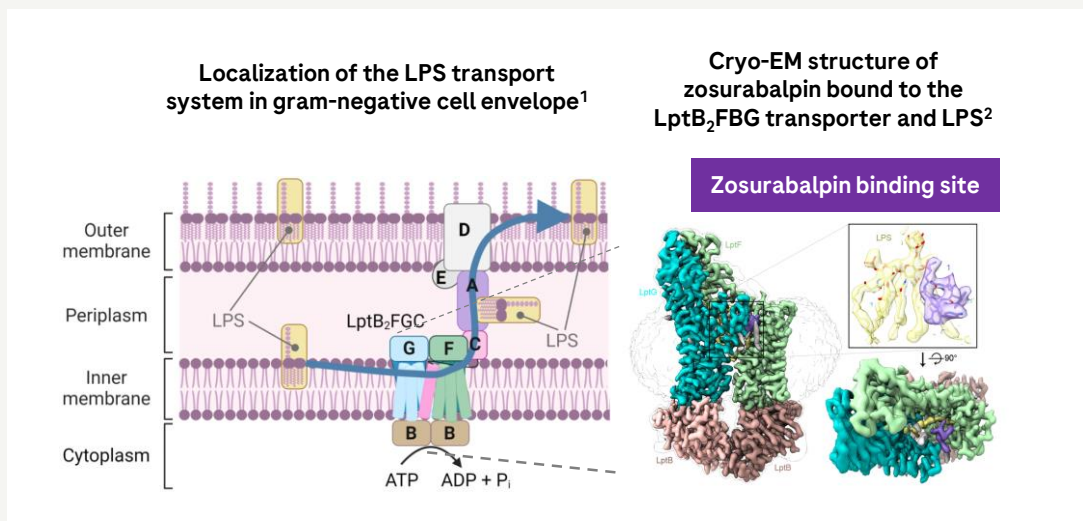


- AMR is a ‘silent pandemic’ expected to claim more lives over the next 30 years than cancer today
- Despite the need for antibiotics and the rise of antibiotic resistance, no novel class of antibiotics effective against gram-negative bacteria has been discovered since 1968



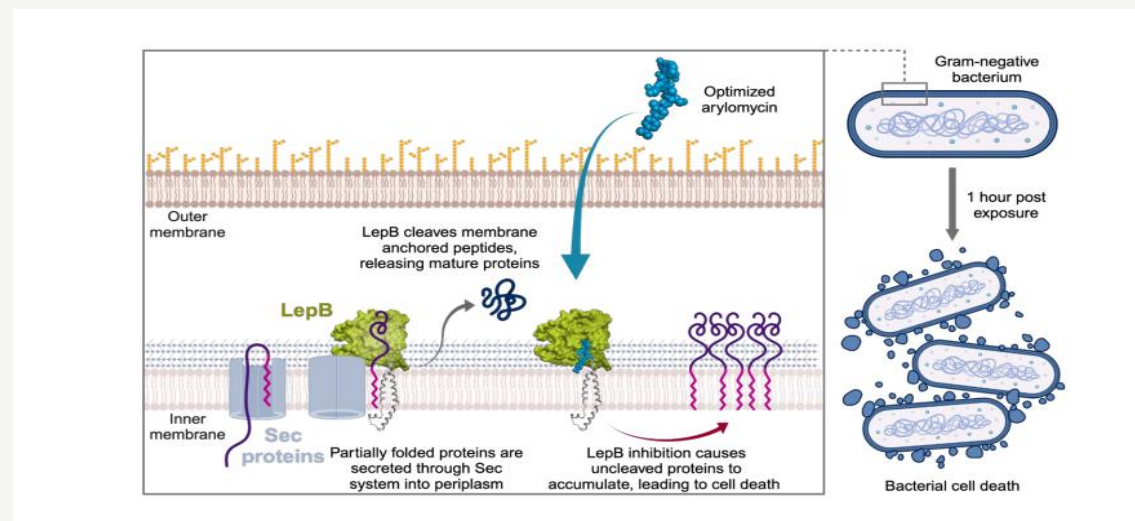
Zosurabalpin and RG6436 (LepBi) represent the first new classes of antibiotics against gram negative bacteria in 50 years

Zosurabalpin (Abx macrocyclic peptide)



- Zosurabalpin blocks transport of lipopolysaccharide (LPS) by inhibition of LptB₂FG complex
- This novel MoA prevents *carbapenem-resistant A. baumannii* (the highest threat pathogen according to WHO and CDC) from properly constructing its protective membrane
- Currently in Ph I development

LepB inhibitor (macrocyclic lipopeptides)



- RG6436 inhibits LepB bacterial type I signal peptidase, an essential membrane-bound protease that cleaves pre-proteins following translocation across the cytoplasmic membrane
- *In vitro* potency against *carbapenem-resistant* Enterobacterales and *Pseudomonas aeruginosa*
- Currently in Ph I development

Ophthalmology

Christopher Brittain

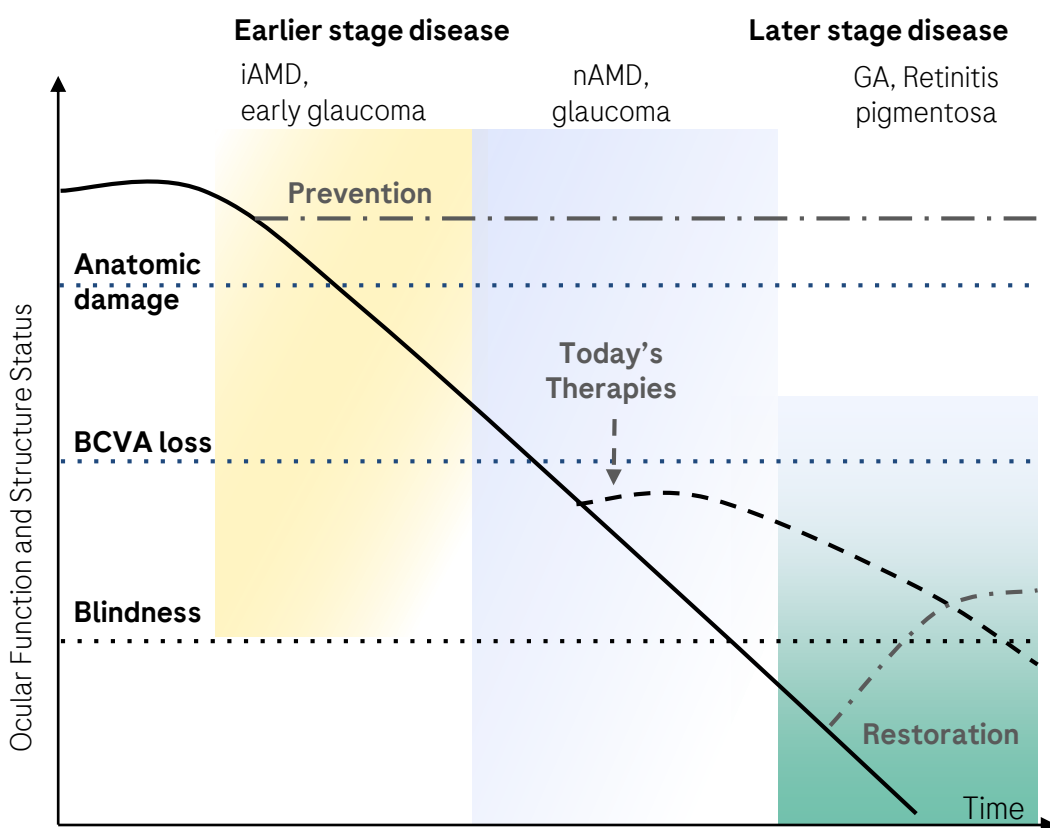
SVP and Global Head of Product Development

Ophthalmology



Ophthalmology pipeline

Aiming to alter the trajectory of vision loss as experienced today



Improve outcome across all stages of ocular diseases

Earlier stage disease: Vision preservation

- Supplement current target approaches: Inhibit inflammation & neo-angiogenesis
- Explore clinically useful biomarkers predicting rapid vision loss
- Protect key retinal lineages

Later stage disease: Vision restoration






- Replace photosensitive cells once vision is lost
- Continue investment in new therapeutic modalities e.g. cell therapy and gene therapy/optogenetics



Ophthalmology R&D focus areas

Improving patient outcomes and reducing treatment burden



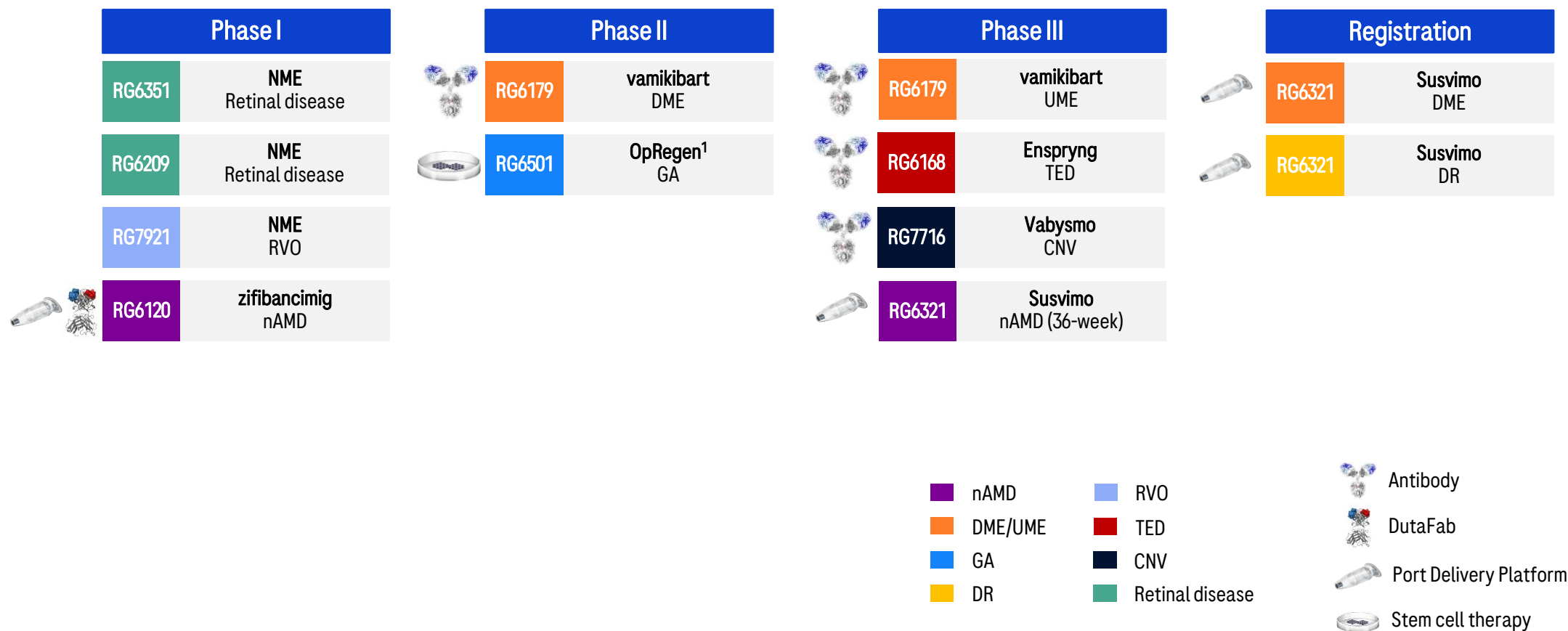
Extended durability & future technologies	Novel MoAs and new indications, addressing multiple disease pathways	Digital Capabilities
<p>Long acting delivery</p> <ul style="list-style-type: none"> • Port delivery platform • DutaFabs (i.e. zifibancimig) 	<p>Novel MoAs</p> <ul style="list-style-type: none"> • Vabysmo first dual pathway inhibitor (VEGF/Ang-2) • IL-6 addresses retinal inflammation • Semaphorin-3A • Wnt pathway  	<p>Biomarker and data analytics</p> <ul style="list-style-type: none"> • Integration of omics, clinical & imaging data • Real world data and natural history • Improved disease understanding
<p>Cell therapy</p> <p>OpRegen in GA: Potential for vision restoration</p> 	<p>New indications</p> <p>UME, GA, DR, Glaucoma</p>	<p>Remote vision monitoring tools</p> <p>Accessible, effective and low cost tracking of disease activity</p> 
<p>Gene therapy</p> <p>Development of AAV capsids for intravitreal targets</p> 	<p>Disease pathways</p> <p>Inflammation, atrophy, ischaemia, vascular stability</p>	<p>AI supports clinical decision</p> <p>e.g. automatic image segmentation and treatment response prediction algorithms for personalized management of disease</p>

DutaFab=dual targeting fragment antigen-binding; GA=geographic atrophy; AAV=adeno-associated virus; MoA=mode of action; VEGF=vascular endothelial growth factor; Ang-2=angiopoietin-2; IL-6=inter-leukin 6; UME=uveitic macular edema; DR=diabetic retinopathy; AI=artificial intelligence



Ophthalmology pipeline gaining momentum

Further improving the standard of care and expanding in new indications



1. In collaboration with Lineage Cell Therapeutics (LCTX); NME=new molecular entity; RVO=retinal vein occlusion; nAMD=neovascular age-related macular degeneration; DME=diabetic macular edema; GA=geographic atrophy; UME=uveitic macular edema; TED=thyroid eye disease; CNV=myopic choroidal neovascularization; DR=diabetic retinopathy; DutaFab=dual targeting fragment antigen-binding

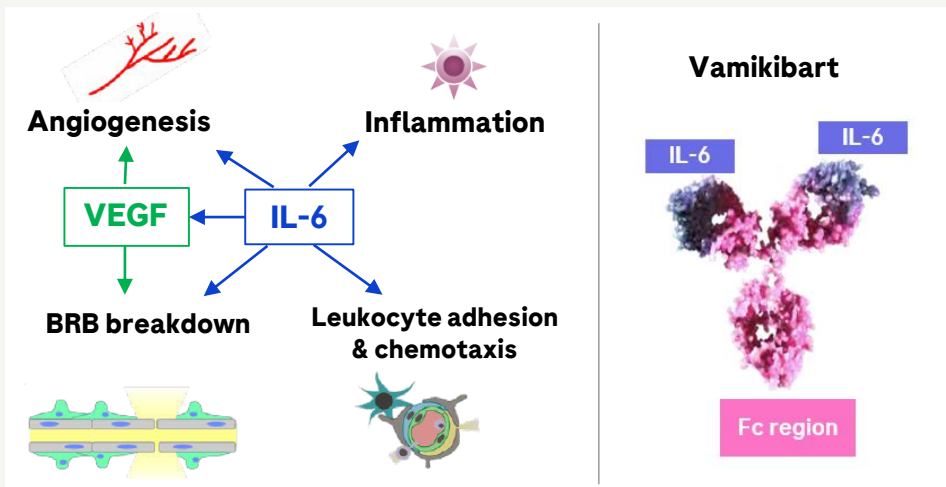


Vamikibart in UME and DME

Addressing the inflammatory component (IL-6) in macular edema

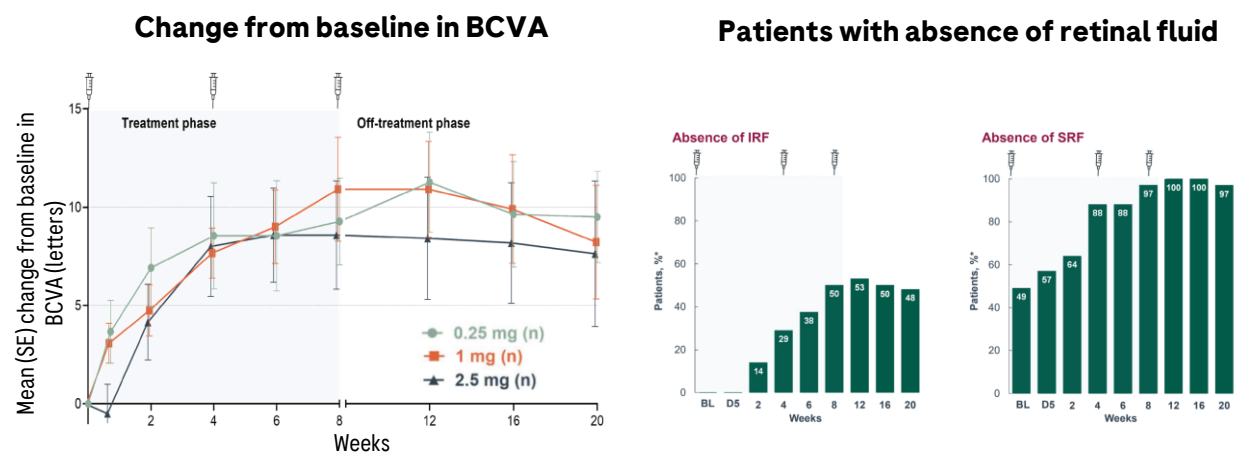


IL-6 is involved in many pathways, including inflammation



- Inflammation is a currently sub-optimally treated pathway in a number of ocular diseases
- IL-6 is upregulated in retinal diseases
- Vamikibart inhibits all known forms of IL-6 signaling; specifically designed for intraocular use and optimized for a rapid systemic clearance

Ph I (DOVETAIL) data in UME: Improved vision and retinal thickness in all dosing cohort ¹



- 25-36% of patients gained 15 letters or more at week 12
- All doses of vamikibart were well tolerated across all patients, with no treatment-related serious AEs, sustained IOP increase, or new cataracts
- Ph III (SANDCAT/MEERKAT) trials in UME ongoing with MEERKAT fully enrolled, data expected 2025
- Ph II (BARDENAS/ALLUVIUM) trials in DME ongoing, data expected 2025

1. Sharma et al. ARVO 2023; UME=uveitic macular edema; DME=diabetic macular edema; BRB=blood-retinal barrier; IOP=intraocular pressure; IL-6=interleukin-6; VEGF=vascular endothelial growth factor; AE=adverse event; BCVA=best-corrected visual acuity; SE=standard error; IRF=intraretinal fluid; SRF=subretinal fluid

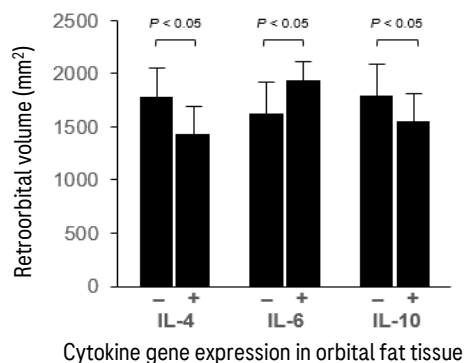


Enspryng in thyroid eye disease

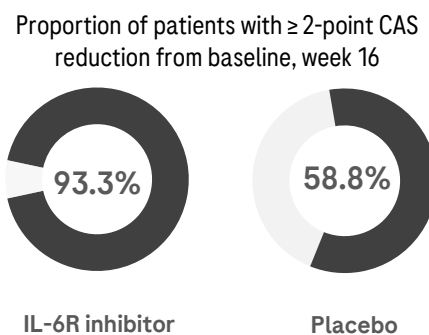
Potential to be the first SC therapy in TED with strong efficacy and a well-established safety profile

IL-6 and IL-6R play a key role in the pathogenesis of TED¹ and clinical evidence supports IL-6 signaling inhibition in TED

IL-6 expression correlates with orbital tissue expansion²



CAS reduction of ≥ 2 points achieved with IL-6 inhibition

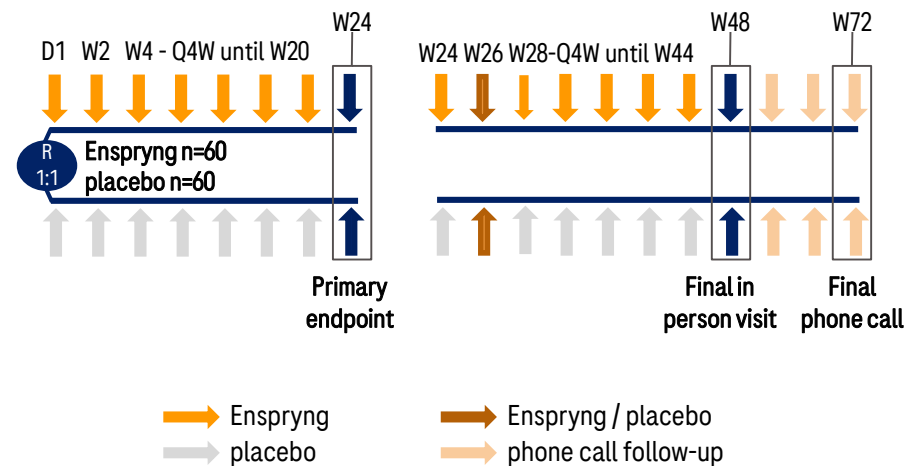


- IL-6 is a key mediator of inflammation and drives fibrosis in TED; blocking IL-6R signaling has the potential to reverse the manifestation of the disease
- In a placebo-controlled randomized trial, CAS reduction of ≥ 2 point and proptosis reduction were achieved with IL-6R inhibition
- Enspryng is designed to enable maximal sustained suppression of IL-6 signaling and allow practical Q4W dosing with an established safety profile

Ph III (SatraGo-1/SatraGo-2) trial design

Key Inclusion criteria

- Active, moderate to severe and chronic inactive TED pts
- Systemic or local steroid treatment naïve pts



- Ph III (SatraGO-1/SatraGO-2) trials in TED ongoing, data expected 2026

Ezra D et al, ASOPRS 2023;1. Slowik M et al. Endocr Res. 2012;37(2):89-95; 2. Hiromatsu Y et al. J Clin Endocrinol Metab. 2000;85(3): 1194-99; 3. Perez-Moreiras JV et al. AJO. 2018;195:181-90; TED=thyroid eye disease; IL-6=interleukin-6; IL6R=interleukin-6 receptor; SC=subcutaneous; CAS=clinical activity score

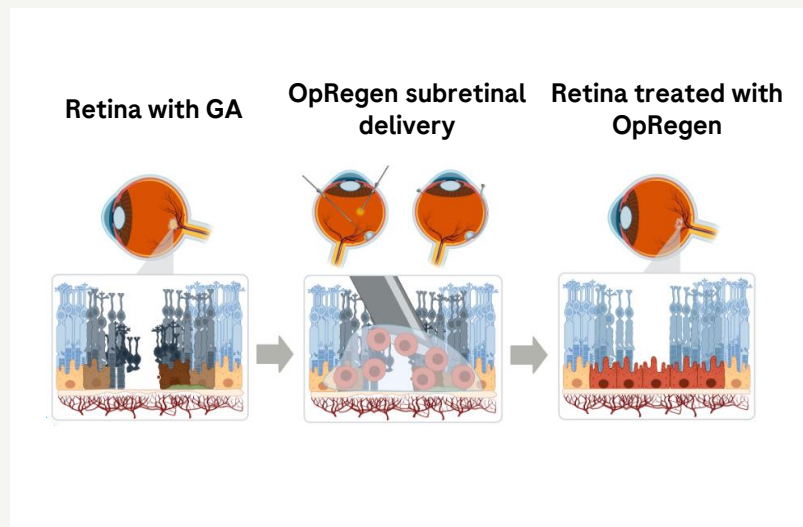


OpRegen in GA: Replenishing the retinal pigment epithelium

FDA RMAT Designation granted based on preliminary clinical evidence

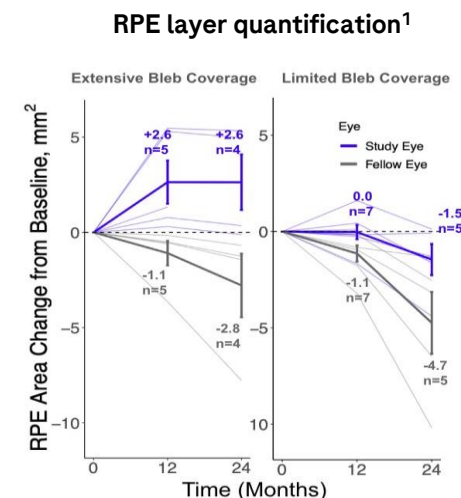
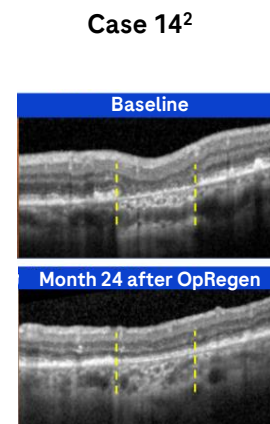
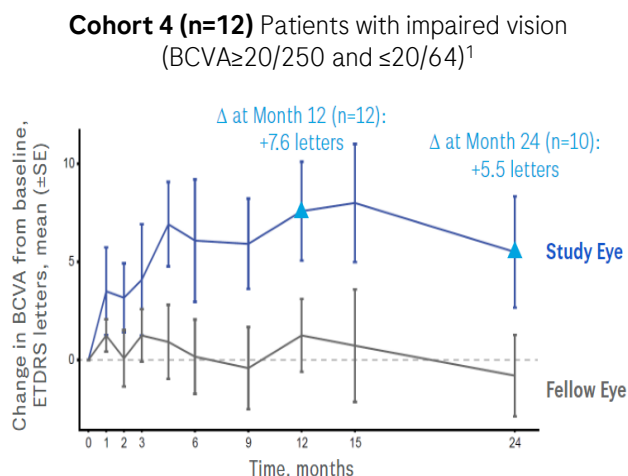


Potential to counteract RPE loss in GA



- OpRegen is a suspension of human allogeneic RPE cells delivered as a single injection to the subretinal space in area of GA lesion
- Ph IIa surgical development study currently enrolling; designed to optimize lesion targeting while maintaining safety profile

Ph I/IIa data: Visual function and retinal structure improvements sustained through month 24¹⁻²



- BCVA gains in patients in Cohort 4 (impaired vision) measured at month 12 remain evident at month 24, with an average 5.5 letter gain
- Preliminary evidence of maintenance of structural improvement maintained 24 months following OpRegen delivery
- With extended follow-up, OpRegen continues to show an acceptable safety profile

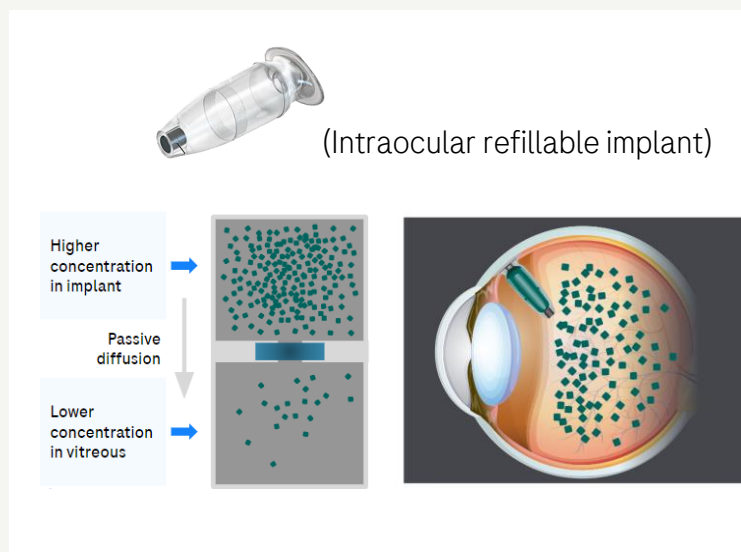
In collaboration with Lineage Cell Therapeutics, Inc. (LCTX); 1. Telander D, et al. Retinal Cell and Gene Therapy Innovation Summit 2024; 2. Banin E, et al. ARVO 2023; RMAT=regenerative medicine advanced therapy; RPE=retinal pigment epithelium; GA=geographic atrophy; BCVA=best-corrected visual acuity; ETDRS=early treatment of diabetic retinopathy study



Continuing to innovate on Port Delivery Platform beyond Susvimo

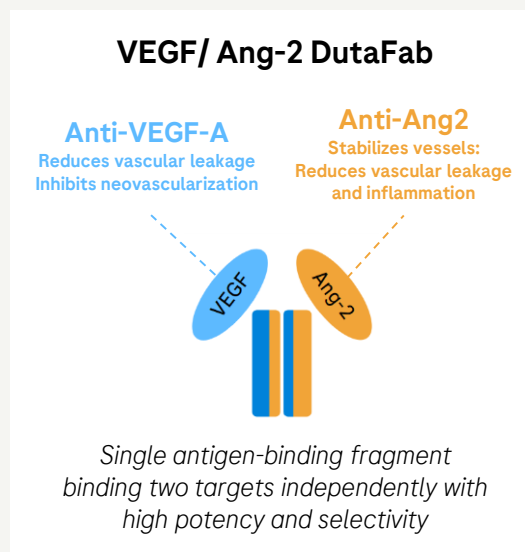
Zifibancimig in nAMD: Combining the benefits of dual VEGF/Ang-2 inhibition and continuous drug delivery

Port Delivery Platform (PDP)



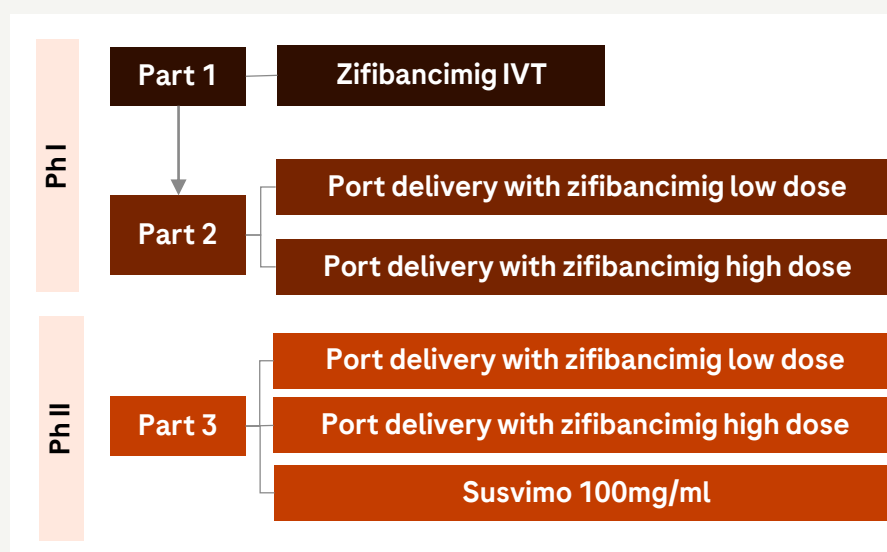
- Port Delivery Platform is designed for continuous delivery of customized molecules through passive diffusion
- Assets in development with Port Delivery Platform: 3 DutaFab molecules (including zifibancimig) and 2 preclinical molecules

Zifibancimig



- Zifibancimig is specifically designed for compatibility with Port Delivery Platform
- Potential for sustained vascular stability and improved visual outcomes with fewer refill-exchanges
- PhI/II (BURGUNDY, Part 2 and Part 3) in nAMD ongoing, data expected 2026

PhI/II (BURGUNDY) trial design



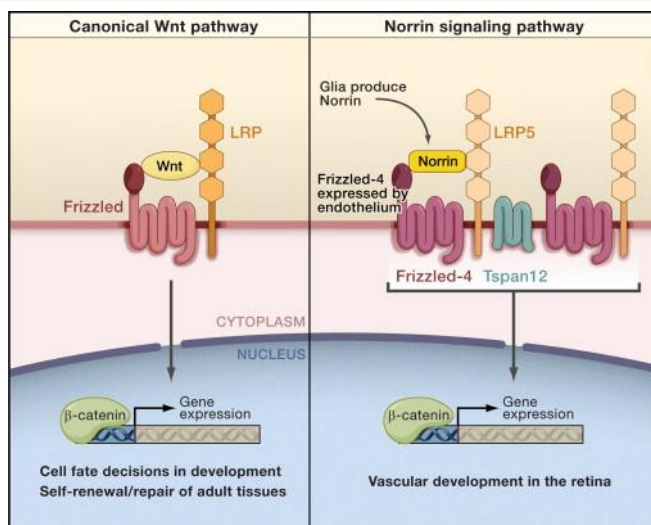
DutaFabs=dual targeting fragment antigen-binding; VEGF=vascular endothelial growth factor; Ang-2=angiopoietin-2; mAb=monoclonal antibody; IVT=Intravitreal; Q6M=every 6 months; nAMD=neovascular age-related macular degeneration



Investigating Wnt agonism with ANT-Pharm

Acquisition of AntlerA, a leader in Wnt signaling, added a library of anti-FZD/LRP drug candidates

Wnt pathway



- Extensive scientific expertise on the Wnt pathway in Roche
- Approaches mimicking the natural ligand Norrin, which agonizes the Wnt pathway, have been shown to be effective in restoring and maintaining a sealed blood retinal barrier in preclinical models
- Clinical proof of concept of agonizing Wnt has been demonstrated in DME

ANT-Pharm: A combinatorial Wnt-mimetic library platform



- ANT-Pharm is a library of anti-FZD/LRP molecules capable of activating the Wnt Pathway in various cell types and tissues
- Preclinical lead asset, has the potential to be best-in-class treatment for nAMD and DME
- Potential to expand to indications beyond Ophthalmology where Wnt signaling plays an important role

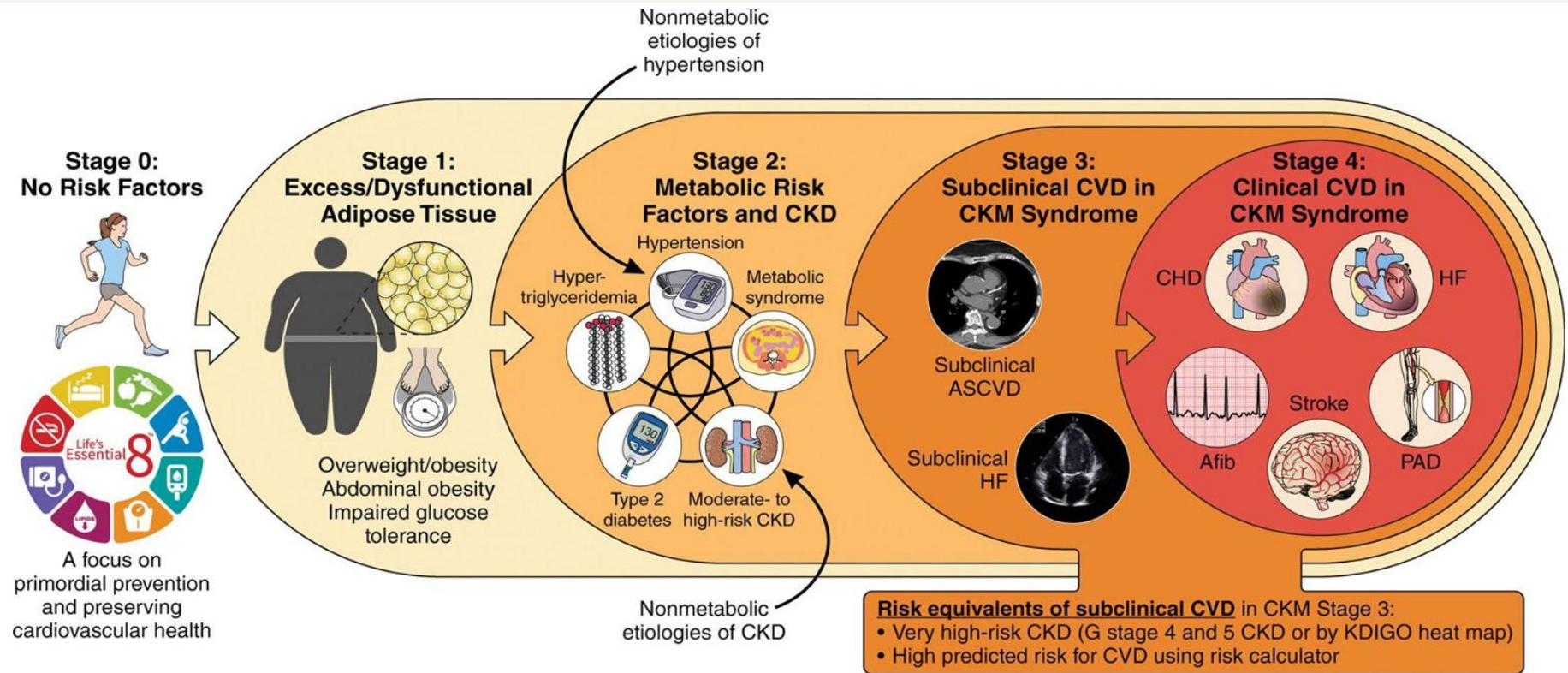
Cardiovascular, Renal and Metabolism

Manu Chakravarthy M.D. Ph. D.

SVP and Global Head of Cardiovascular, Renal and Metabolism (CVRM) Product Development



Cardiovascular, renal and metabolic diseases are interdependent, and obesity is a key driver



Individuals with a BMI ≥ 30 kg/m² carry more than a 40% elevated risk for overall mortality

Despite numerous approved treatments in cardiometabolic diseases, unmet needs remain

Strategic pillars of Cardiovascular, Renal & Metabolism at Roche



Incretins

Incretins to combat obesity as a driver for metabolic diseases



Comorbidities

Roche portfolio set up to address further causal factors of metabolic disease



Combinations

Establish a portfolio of combination therapies on the backbone of incretins



E2E patient solutions

Synergies with Roche Diagnostics and Digital Health solutions

Recent examples

CT-388/CT-868
 CT-388 BIC potential obesity ± T2D
 CT-868 BIC/FIC potential in OW/OB pts with T1D

CT-996
 BIC potential in obesity ± T2D

Hypertension
 Zilebesiran BIC and BID potential + SoC in people with established/high risk of CVD

Expansion to adjacent indications
 e.g., HFpEF, CKD, DR*, PD/AD*

GYM 329/CT-173
 Other MoAs can be tailored as add-on-therapies to address various comorbidities

Inflammation
 Selnoflast (NLRP3i) - ASCVD

CGM
 AccuChek SmartGuide including differentiating predictive algorithm to better control diabetes

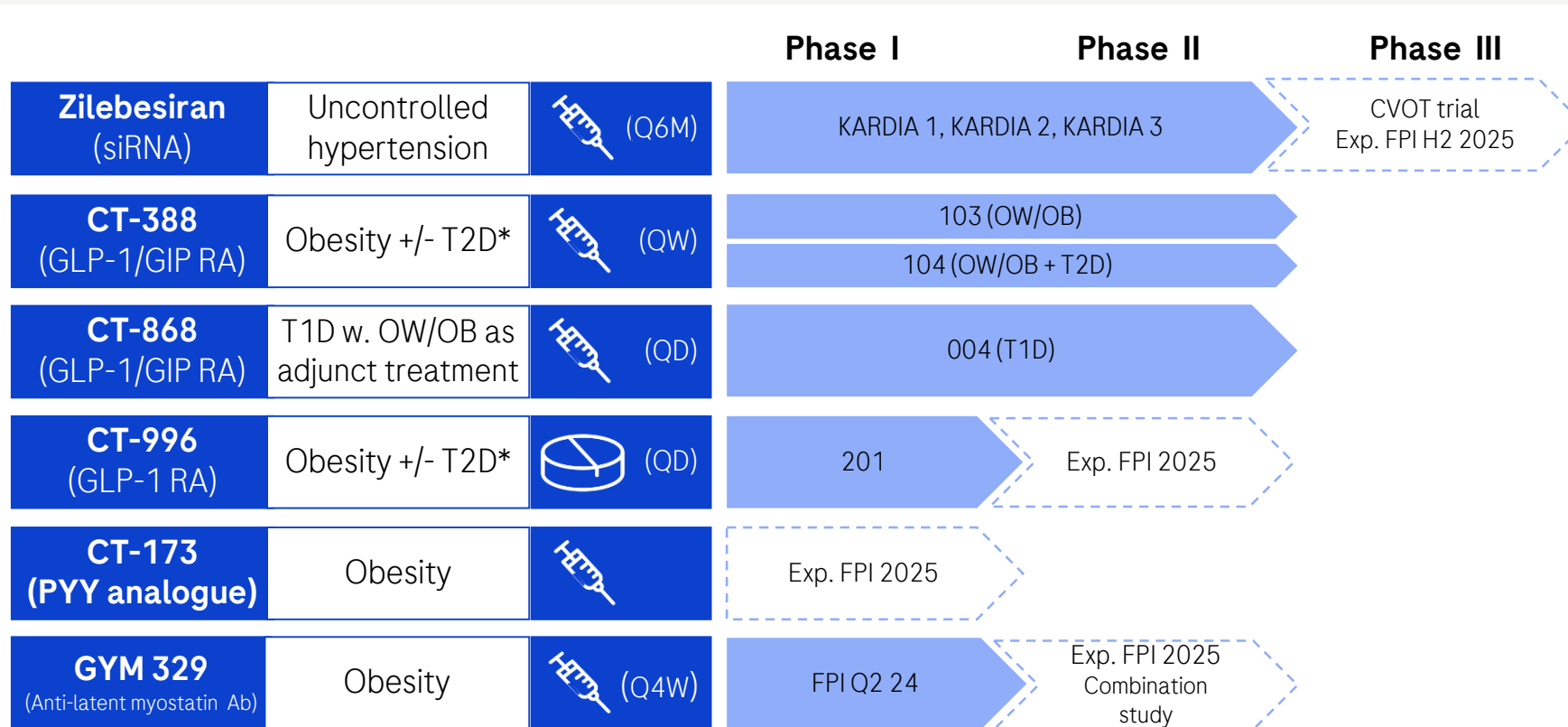
Detection
 Next generation solutions for the diagnosis of myocardial infarct (TropC), heart failure (proBNP), CV risk (Lp(a))

*Assets already exist within the current Roche Ophthalmology and Neurology pipeline to enable potential combinations with incretins

Roche Clinical Development in Cardiovascular, Renal & Metabolism

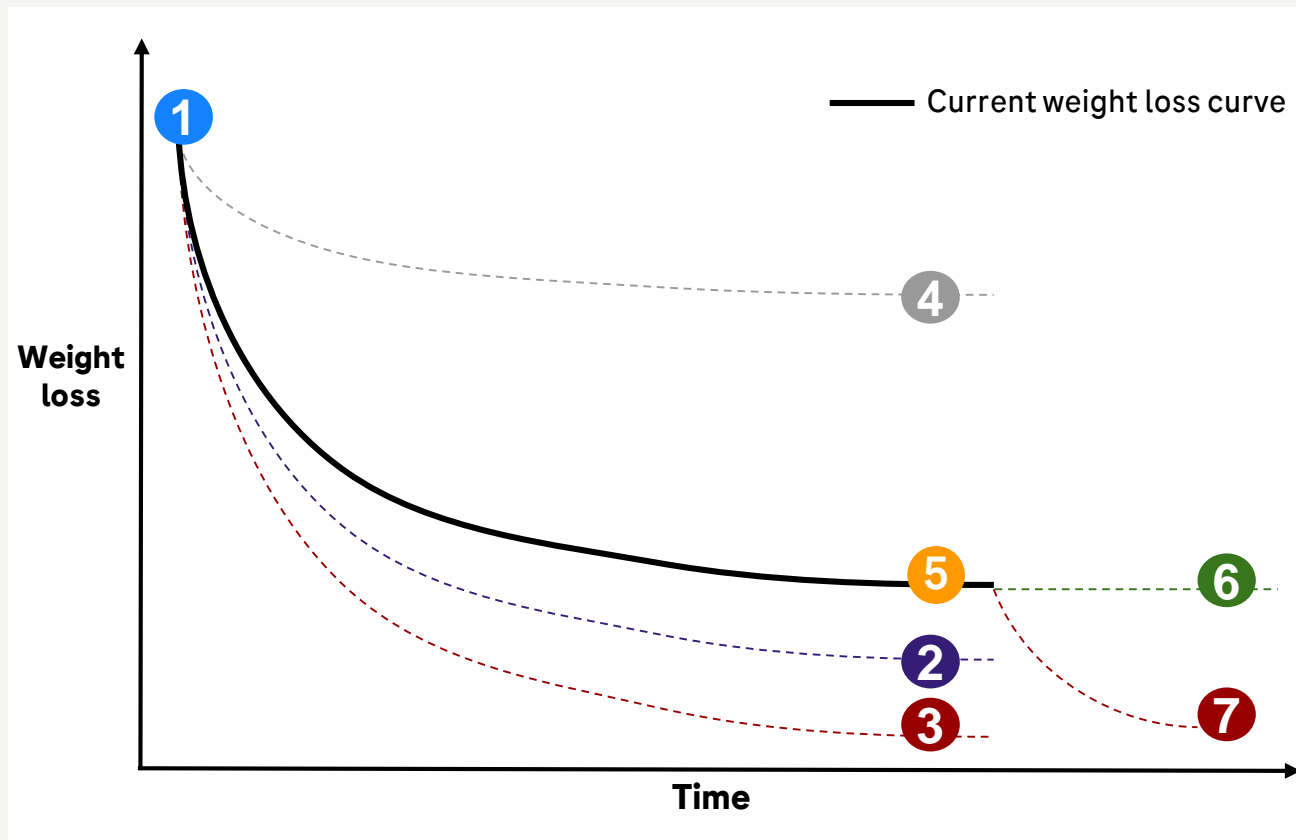
Broad portfolio of differentiated assets

Development program



GLP-1=glucagon-like peptide-1; GIP=glucose-dependent insulinotropic polypeptide; RA=receptor agonist; T2D=type-2 diabetes; T1D=type-1 diabetes; QW=once weekly; QD=once daily; OW=overweight; OB=obese; CVOT=CV outcomes trial; *Patients with obesity or overweight with at least one weight-related comorbidity including type 2 diabetes

Obesity: Addressing remaining unmet needs for weight loss and weight maintenance



Weight loss unmet needs

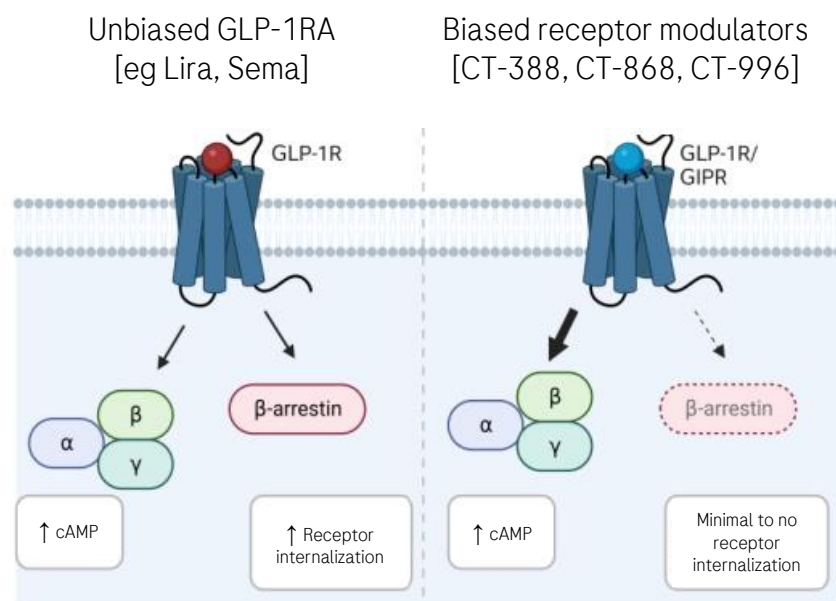
Roche portfolio

1	Improved tolerability and/or simple up-titration	CT-388 (low dose)
2	Better quality weight loss (muscle preservation)	GYM 329 + incretin
3	Deeper weight loss (esp. in patients with higher BMI)	CT-388 (high dose)
4	Non/inadequate responders	CT-173 + incretin
5	Improved convenience (orals) (equivalent efficacy to injectables)	CT-996
6	Weight maintenance	CT-996
7	Further weight loss once incretins achieve "plateau"	CT-173 + incretin

CT-388, 868 and 996 are purposefully designed with biased-signaling

Novel incretin agonists with unique signaling have potential to improve weight loss and glycemic control

CT-388, CT-996 and CT-868 are biased agonists



Minimal to no β-arrestin recruitment results in prolonged glucose lowering and weight loss

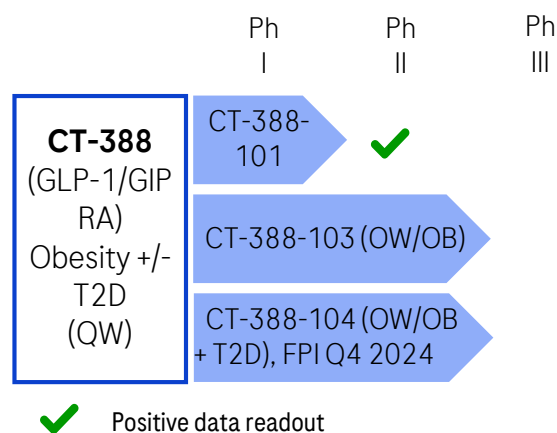
- CT-868, CT-388, and CT-996 are G protein-biased with robust cAMP potency and minimal to no β-arrestin recruitment
 - This biased signaling resulted in greater magnitude with more sustained glucose lowering and weight loss in relevant rodent models¹⁻³
- Other preclinical data support biased signaling to increase efficacy with reduced adverse effects^{4,5}

1. Rodriguez R et al. Presented at the American Diabetes Association 83rd Scientific Session, 23-26 June 2023; San Diego, CA. 2. Chakravarthy MV et al. Presented at the European Association for the Study of Diabetes, 59th Annual Meeting, 2-6 October 2023; Hamburg, Germany. 3. Luo J et al. Presented at the American Diabetes Association 84th Scientific Sessions; June 21-24, 2024; Orlando, FL. 4. Jones B. Br J Pharmacol. 2022 Feb; 179(4):492-510. 5. Smith, Lefkowitz, Rajagopal. Nature Reviews Drug Discovery 17, 243- 260 (2018), CA; cAMP=cyclic adenosine monophosphate; GLP-1R=glucagon-like peptide 1 receptor; GIPR=glucose-dependent insulinotropic polypeptide receptor

CT-388 being developed for overweight/obese patients +/- T2D

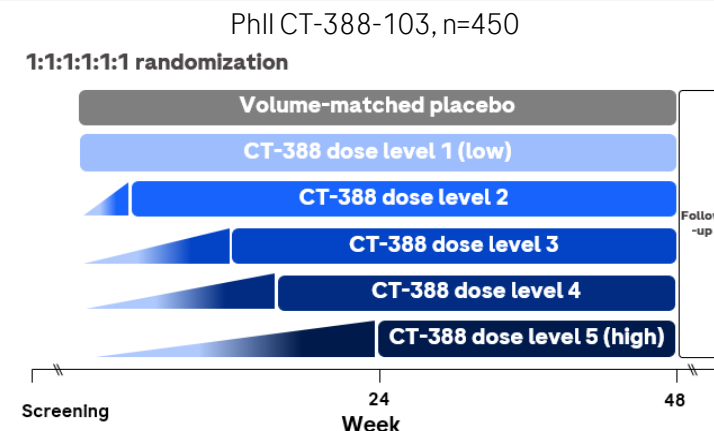
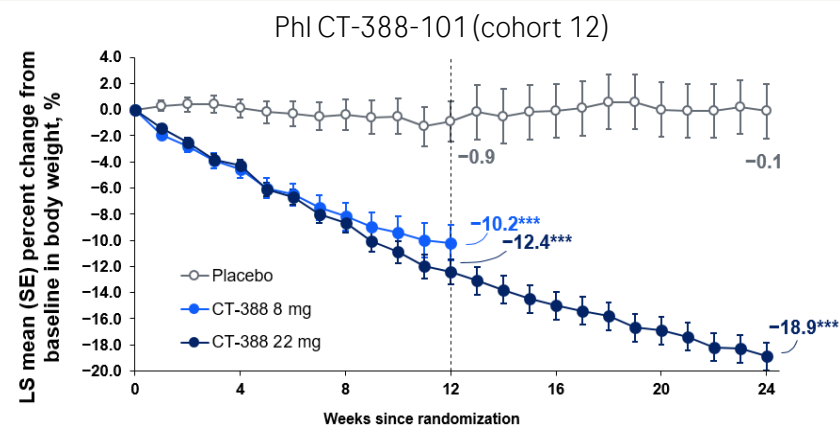
Robust Ph I weight loss results indicate best-in-class potential

Development program



- Positive Ph Ib data for patients with OW/OB at 12 weeks (cohort 11) and 24 weeks (cohort 12) were presented at EASD
- Data in OW/OB patients with T2D (cohort 13) are expected in Q4 '24

CT-388 led to clinically meaningful weight loss over 12 and 24 weeks of treatment¹, Ph2 study initiated



- 22 mg dose of CT-388 titrated within 8 weeks produced ~12%WL at week 12 and ~19%WL at week 24
- CT-388 tolerability profile generally consistent with other incretin-based therapies at a similar (early) stage of development
- CT-388-103 is a multi-center, randomized, double-blind, placebo-controlled, parallel group dose-finding study to evaluate the efficacy and safety of CT-388 at low, middle, and high doses (levels 1-5); FPI Q3 2024

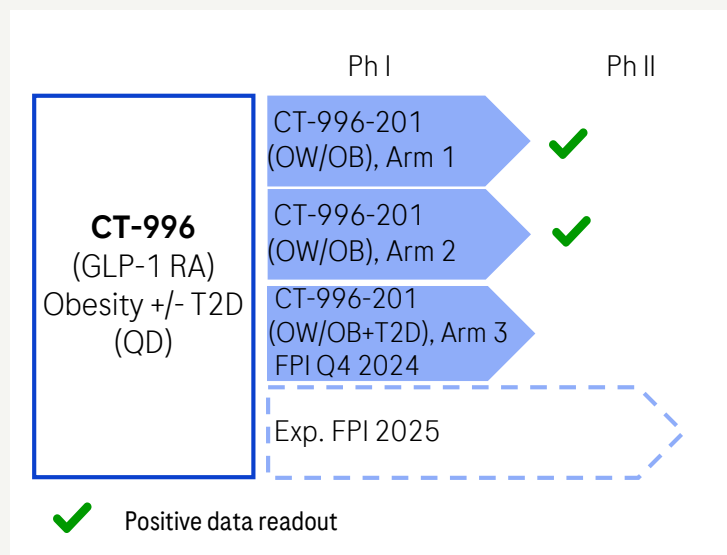
Clinical data support potential to be a best-in-class SC treatment for type 2 diabetes and chronic weight management

1. Chakravarthy et al, EASD 2024; *** P < 0.001 vs placebo. P values are nominal and have not been adjusted for multiplicity; CT-388-103: BMI=body mass index; EOT=end of treatment; QW=once weekly; SC=subcutaneous; GLP-1R=glucagon-like peptide 1; GIPR=glucose-dependent insulinotropic polypeptide receptor; T2D=type-2 diabetes; OW=overweight; OB=obese

CT-996 being developed for overweight/obese patients +/- T2D

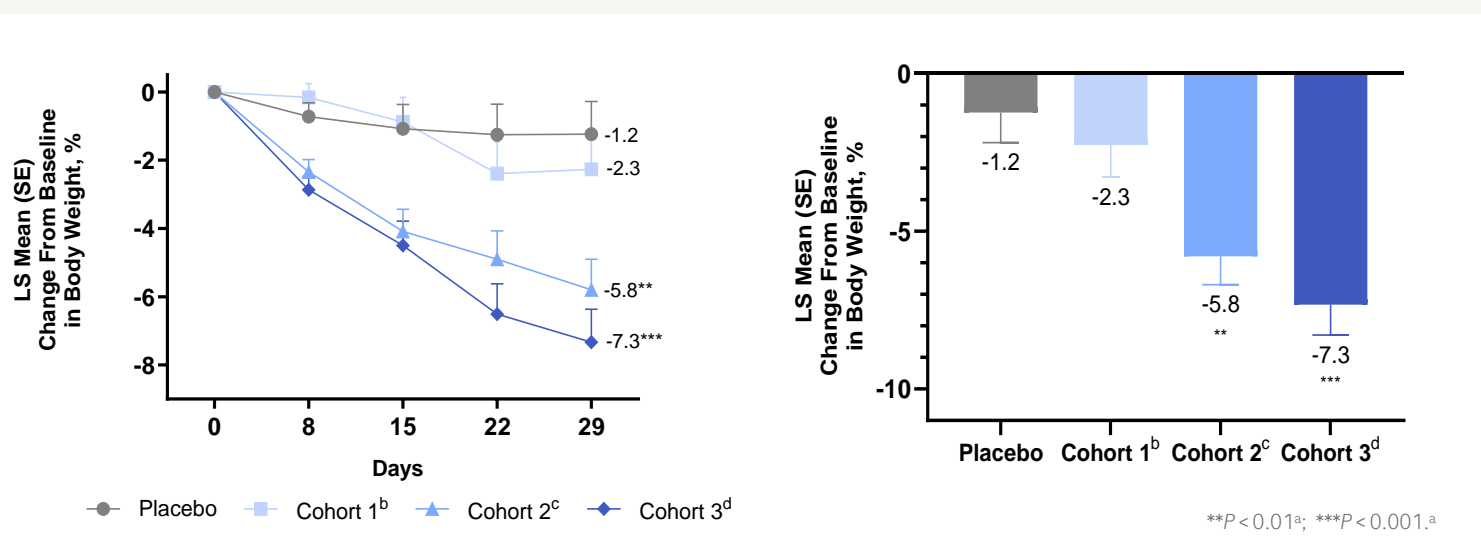
Potentially best-in-class oral small molecule with high bioavailability and no food restrictions

Development program



- Positive Ph I data in patients with OW/OB (arm 2) at 4 weeks were presented at EASD; arm 3 in pts with OW/OB+T2D is expected to have FPI in Q4 2024
- Ph II in OW/OB +/- T2D patients expected to start in 2025

Once-daily oral dosing of CT-996 over 4 wks with weight loss of up to 7.3%



- Percent change in body weight is linear over time with no plateau
- Clinically meaningful placebo-adjusted weight loss up to 6.1% was observed within 4 weeks
- GI-Related TEAEs were mostly mild and none were severe; patterns are generally consistent with other incretin therapies at a similar (early) stage of development
- Plasma half-life (17-22 hrs) supports once-daily dosing

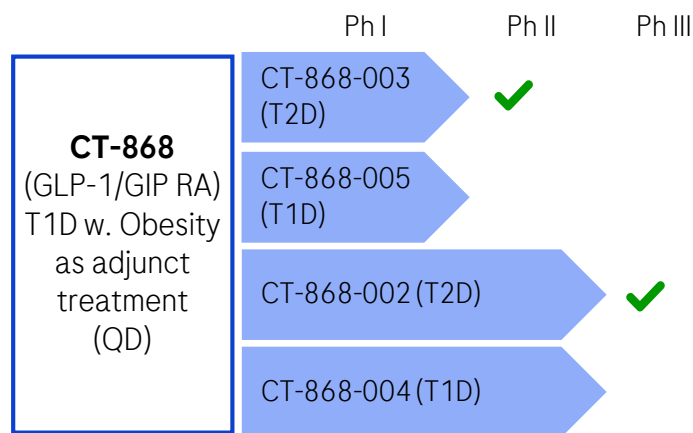
Clinical data support further evaluation for T2D, obesity, and obesity-related comorbidities; able to adequately address at scale

* Patients with obesity or overweight with at least one weight-related comorbidity including type 2 diabetes; GLP-1: Glucagon-like peptide 1; T2D=type-2 diabetes; OW=overweight; OB=obese, d= day; LS= least squares.; aP values are nominal and have not been adjusted for multiplicity.
 bCohort 1 (CT-996 10/30/60/90): planned 10/30/60/90 mg: each dose for 7 days (actual: all participants followed planned titration path).
 cCohort 2 (CT-996 10/30/60/90/120): planned 10 mg × 3d, 30 mg × 4d, 60 mg × 7d, 90 mg × 7d, 120 mg × 7d (actual: 2 participants needed 3 additional days at 90 mg before escalating to 120 mg; 1 participant remained at 60 mg).
 dCohort 3 (CT-996 10/30/50/80/120): planned 10 mg × 3d, 30 mg × 4d, 50 mg × 7d, 80 mg × 7d, 120 mg × 7d (actual: all except 1 participant followed the planned path; 1 participant decreased their dose from 50 mg to 30 mg to 10 mg and completed the study at 10 mg).

CT-868 being developed for overweight/obese patients with T1D

First-in-class and best-in-class potential as adjunctive therapy in patients with type 1 diabetes

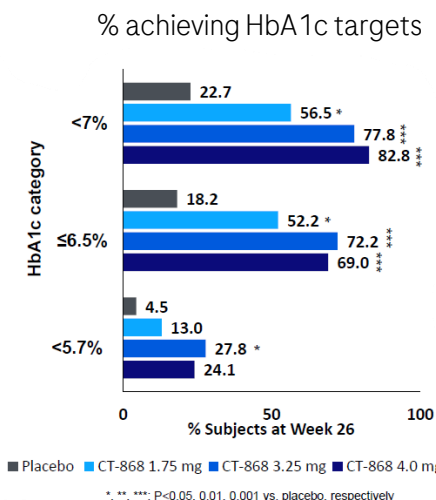
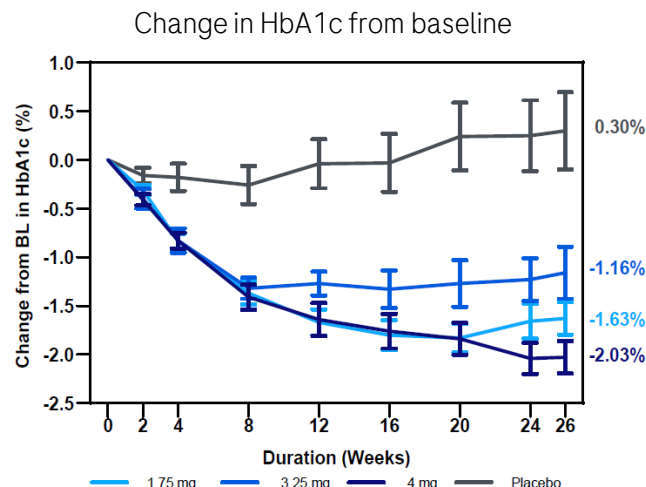
Development program



Positive data readout

- A Ph II proof-of-concept trial for glucose control in patients with T1D who are OW/OB (BMI >27) is ongoing
- Data expected in 2025

Clinically meaningful reduction in HbA1c demonstrated in T2D Ph II trial⁴



- Hypoglycemia¹, weight gain², CV disease³ and insulin resistance² remain unaddressed challenges for pts with T1D; insulin therapy exacerbates these
- CT-868 could have *insulin-independent* glucose disposal, via GIP activation
- CT-868 demonstrated robust glycemic control (-2.3% HbA1c lowering vs placebo) with ~70% of participants achieving HbA1c ≤6.5% at Week 26, even at low doses
- CT-868 improved CV risk factors (LDL-C, apoB, VLDL, TG, blood pressure) and liver enzymes

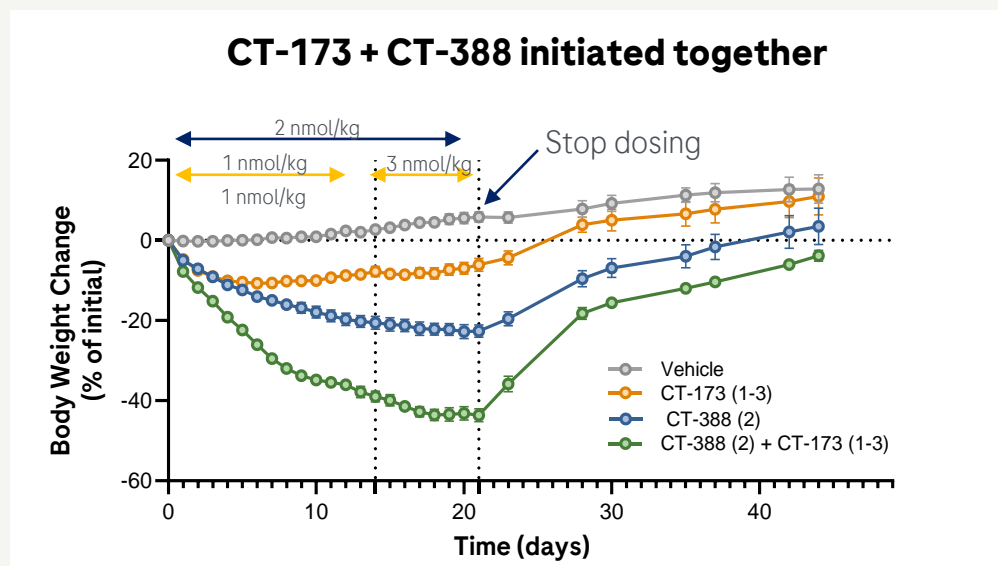
Flexible and easy integration into standard insulin regimens for patients with T1D through once-daily dosing

¹ Adverse events and their association with treatment regimens in the diabetes control and complications trial. Diabetes Care. 1995 Nov;18(11):1415-27. doi: 10.2337/diacare.18.11.1415. PMID: 8722064. ² Van der Schueren (2021). Obesity in people living with type 1 diabetes. The Lancet Diabetes & Endocrinology. 9(11), 776-785. ISSN: 2213-8587. ³ Vergès B. Cardiovascular disease in type 1 diabetes: A review of epidemiological data and underlying mechanisms. Diabetes Metab. 2020 Nov;46(6):442-449. doi: 10.1016/j.diabet.2020.09.001. Epub 2020 Sep 28. PMID: 32998054. ⁴ Chakravarthy MV, et al. Obesity Week 2023; GLP-1=glucagon-like peptide 1; GIPR=glucose-dependent insulinotropic polypeptide receptor; T1D=type-1 diabetes; T2D=type-2 diabetes; OW=overweight; OB=obese

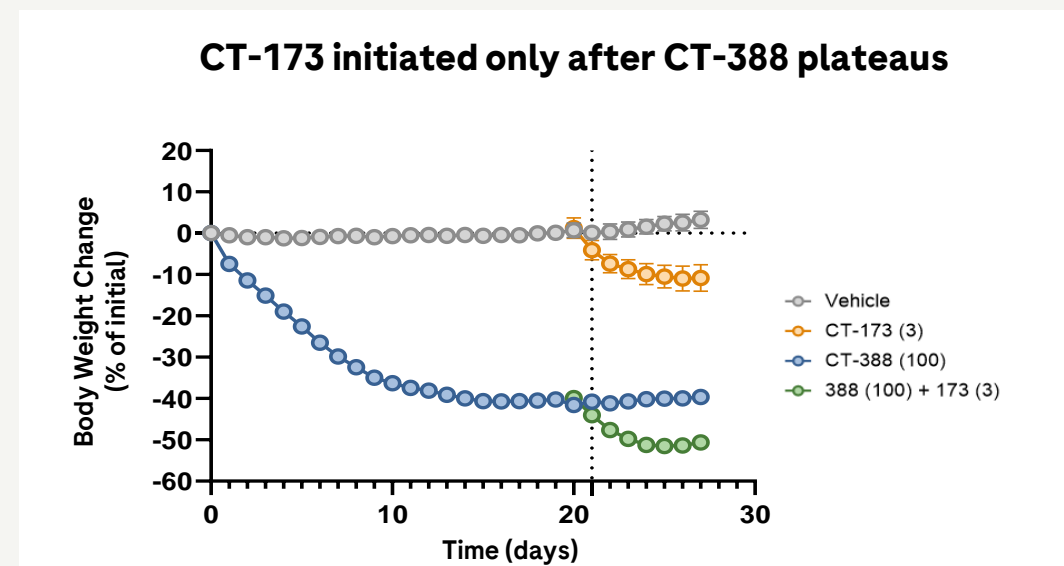
CT-173 + CT-388 further induced weight loss in DIO mice

In vivo data support CT-173+388 combination to overcome weight loss plateau, Ph I expected to start in 2025

Weight loss in DIO mice by combining CT-173 (PYY analogue) and CT-388 (QD dosing)



- Low dose CT-173 in combination with low dose CT-388 led to 44% weight loss in DIO mice (21% more vs CT-388 alone)
- Slower weight rebound after treatment stop (~4% weight loss 23 days later) compared with CT-388 or CT-173 alone



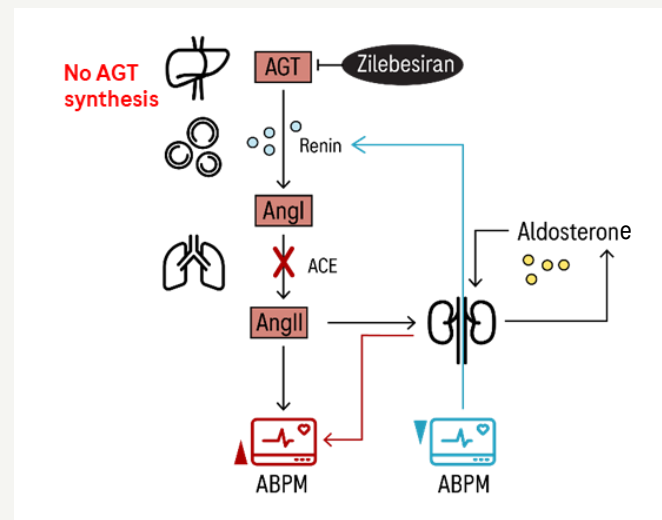
- Low dose CT-173 synergizes with high dose CT-388 even after CT-388's weight loss has plateaued and led to 52% weight loss
- Suggests orthogonal mechanisms could potentially reset body weight set points

Preclinical data demonstrate improved weight loss effect

Despite available therapies hypertension often remains uncontrolled

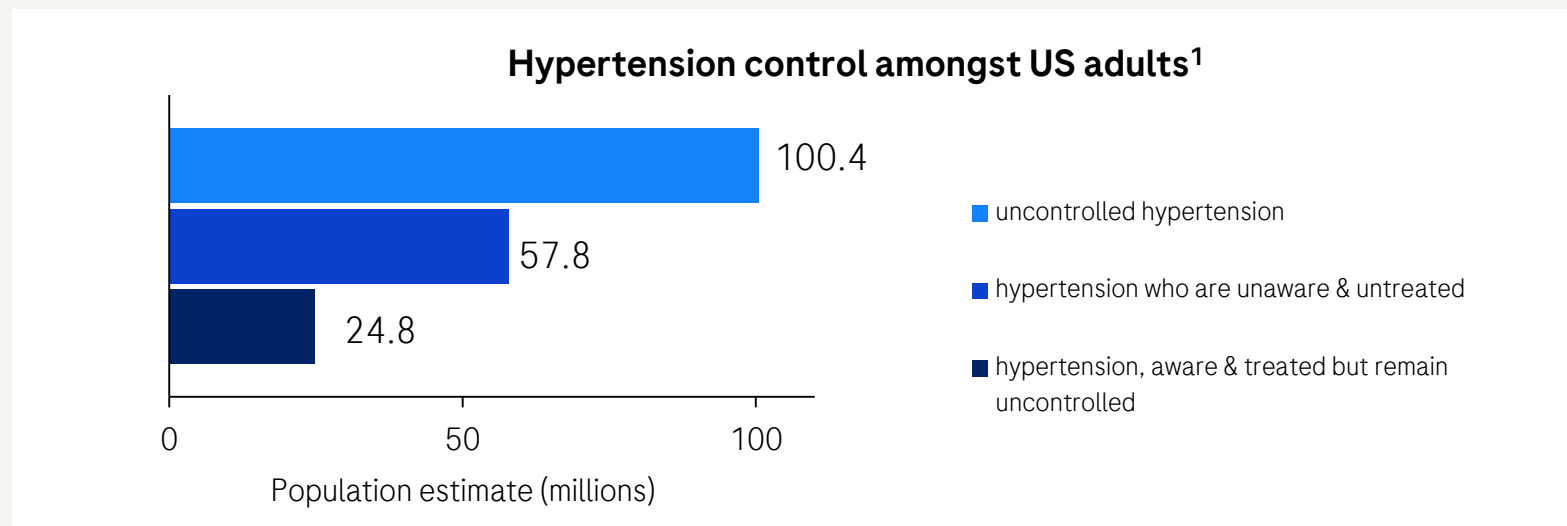
Zilebesiran has an innovative MoA with first-in-class and best-in-disease potential in hypertension

Zilebesiran (siRNA targeting AGT)



- siRNA targeting angiotensinogen, the most upstream precursor of all angiotensin peptides
- Could potentially prevent RAAS escape

Half of adults in US with uncontrolled hypertension unaware of their condition



- 1.6- to 3.0-fold increased risk of mortality (all-cause to stroke-related) in patients with treated but uncontrolled hypertension²
- Consistent + durable blood pressure control with improved adherence is therefore critically needed to change this trajectory

Zilebesiran has the potential for twice yearly SC dosing

¹ Richardson, Vaughan et al. JAMA Netw Open. 2024;7(9); ² Data is based on a study of 13,947 U.S. adults aged ≥18 years, enrolled in the Third National Health and Nutrition Examination Survey (1988–1994); MoA=mode of action; siRNA=small interfering RNA; SC=subcutaneous; RAAS=renin angiotensin aldosterone system; AGT=angiotensinogen; AngI/II=angiotensin I/II; ACE=angiotensin-converting enzyme; ABPM=ambulatory blood pressure monitoring; SoC=standard of care.

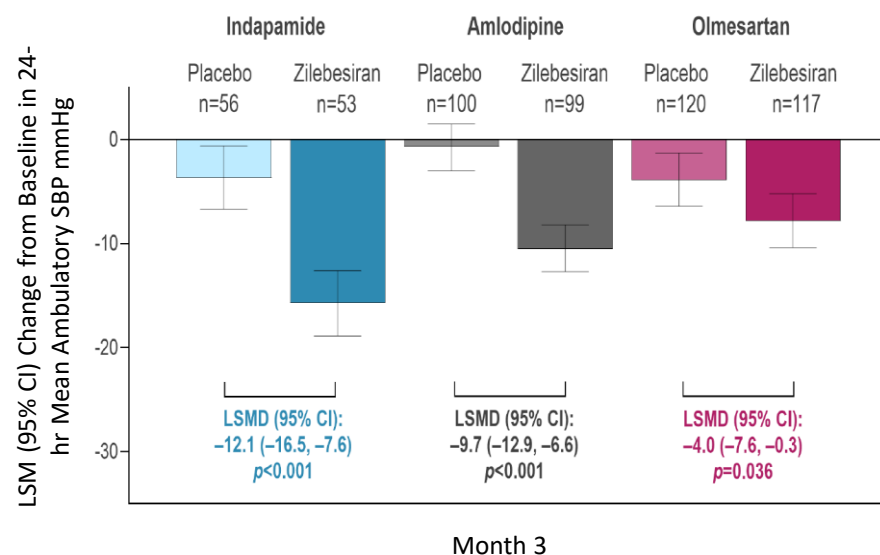
Zilebesiran with best-in-disease potential in hypertension

Robust Ph II results with zilebesiran alone and as add-on to SoC

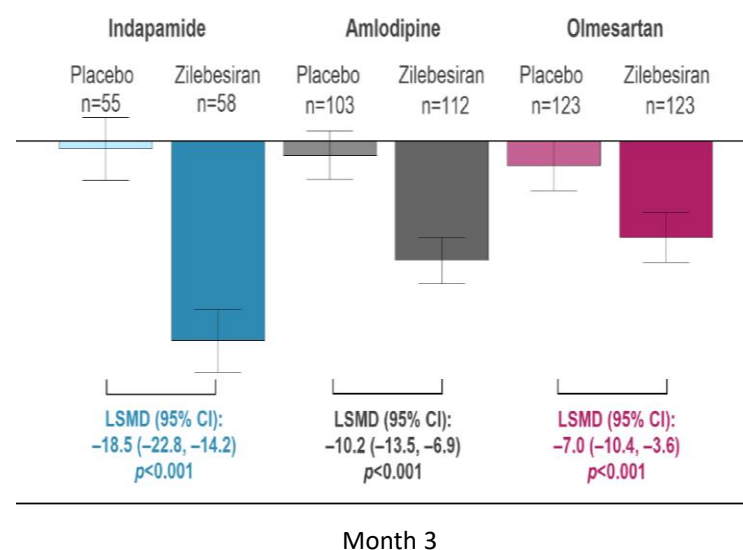


Ph II (KARDIA-2): Zilebesiran add-on to 1 SoC in mild-to-mod HTN

Primary endpoint: Change in baseline to month 3 in 24h mean ambulatory SBP*



Secondary endpoint: Change in baseline to month 3 in 24h Office SBP*



- Single dose reduced 24h mean ambulatory and office SBP at 3-mo when added to a diuretic, calcium channel blocker, or maximum-dose angiotensin receptor blocker
- Placebo-adjusted differences in blood pressure were sustained to month 6 despite add-on antihypertensive therapy
- Results support the potential for twice-yearly dosing

Bakris GL et al. KARDIA-2. Presented at the American College of Cardiology Annual Scientific Session & Expo, April 6-8, 2024, Atlanta, GA, USA

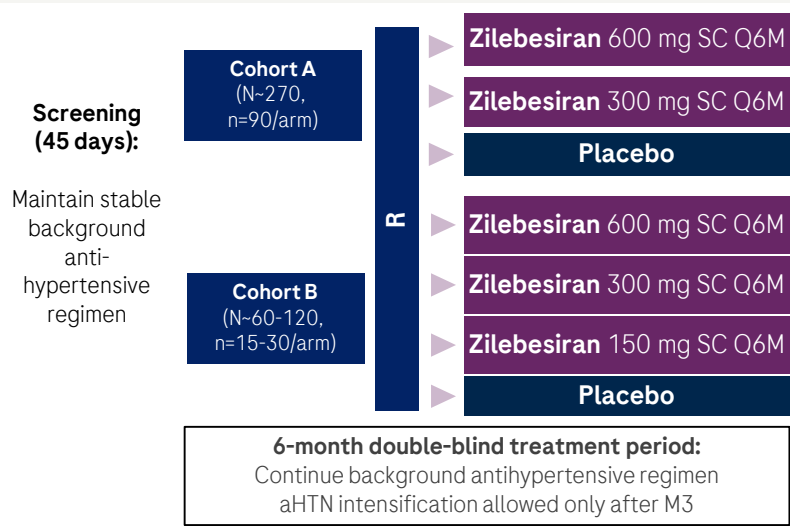
*Ambulatory/office blood pressure assessed while patients were receiving or within 2 weeks of stopping any rescue medication is censored; HTN= hypertension; SoC=standard of care; SBP=systolic blood pressure; CI=confidence interval; LSM=least-squares mean; LSMD=LSM difference; CV=cardiovascular; Q3M = every 3 months; Q6M = every 6 months; zilebesiran in partnership with Alnylam Pharmaceuticals

Zilebesiran: Comprehensive development program ongoing

Ph II (KARDIA-3) with zilebesiran as add-on to 2-4 SoC for uncontrolled hypertension with high CV risk initiated

Ph II (KARDIA-3): Combination Study in High CV Risk¹

FPI April 24



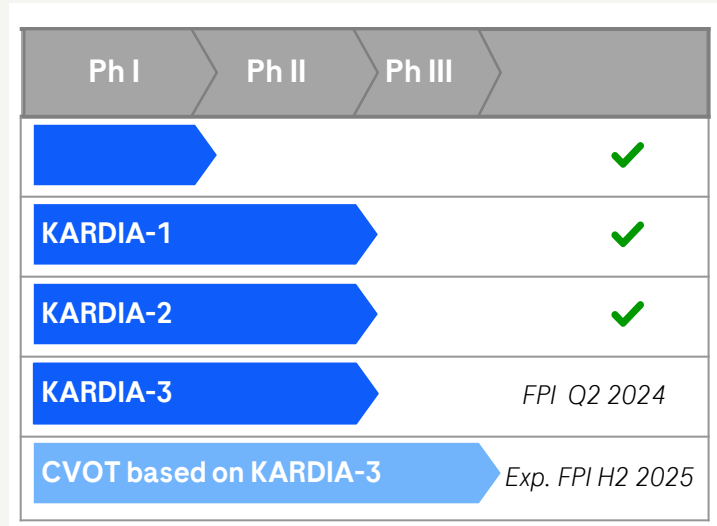
Primary Endpoint:

- Change at Month 3 in seated office SBP

Secondary Endpoints Include:

- Change at Month 3 and Month 6 in 24-hour mean SBP and DBP, assessed by ABPM
- Change at Month 3 in seated office DBP
- Change at Month 6 in seated office SBP and DBP
- Change in serum AGT

Clinical development program



- Ph II (KARDIA-1): Monotherapy in mild/mod hypertension; primary endpoint of reduction of 24-h mean systolic blood pressure at 3 months met
- Ph II (KARDIA-2): Add-on to 1 SoC in uncontrolled hypertension; primary endpoint of systolic blood pressure reductions in all arms at month 3 met
- Ph II (KARDIA-3): FPI 2024; Cohort A fully enrolled (results will inform pivotal Ph III trial design); Cohort B currently enrolling
- Ph III (CVOT): Composite MACE endpoint in uncontrolled hypertension at high CV risk, to deliver robust label and access with CV outcomes benefits at launch; Potential for expansion to other CV indications

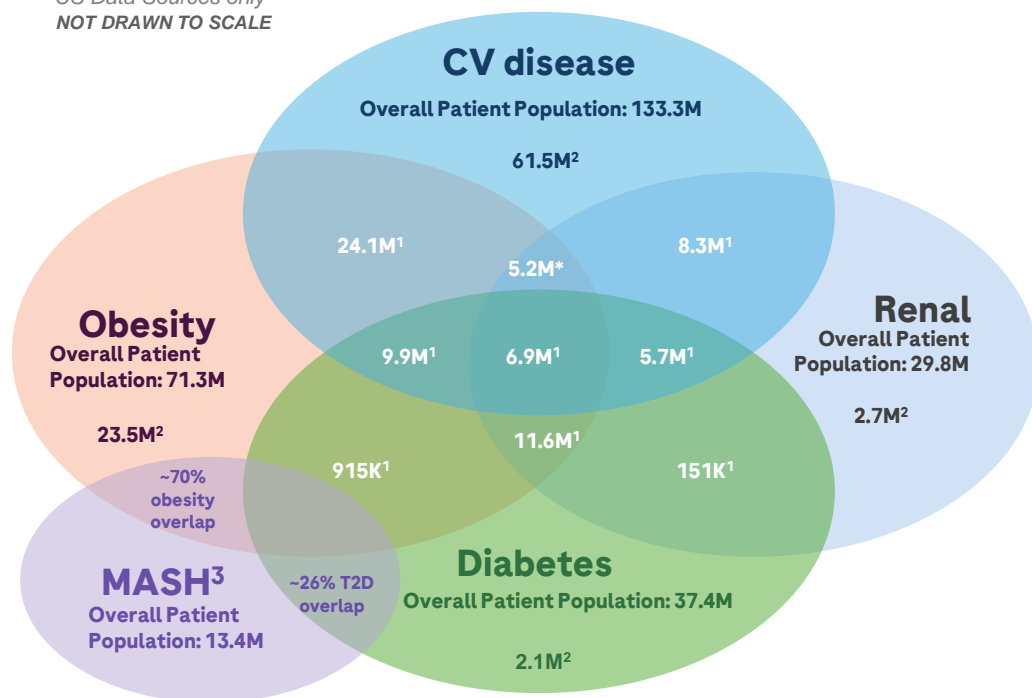
¹ NCT06272487; aHTN=antihypertensive; SBP=systolic blood pressure; SoC=standard of care; CV=cardiovascular; CVOT=CV outcomes trial; MACE=major adverse cardiovascular events; R=randomization; M=month; SC=subcutaneous; Q6M=every 6 months; QD=daily; zilebesiran in partnership with Alnylam Pharmaceuticals



Roche committed to rapidly expand footprint in CVRM

CVRM diseases continue to be the leading causes of death and have high patient overlap

US Data Sources only
NOT DRAWN TO SCALE



Roche is well-positioned to tackle one of the most important public health challenges of our modern times

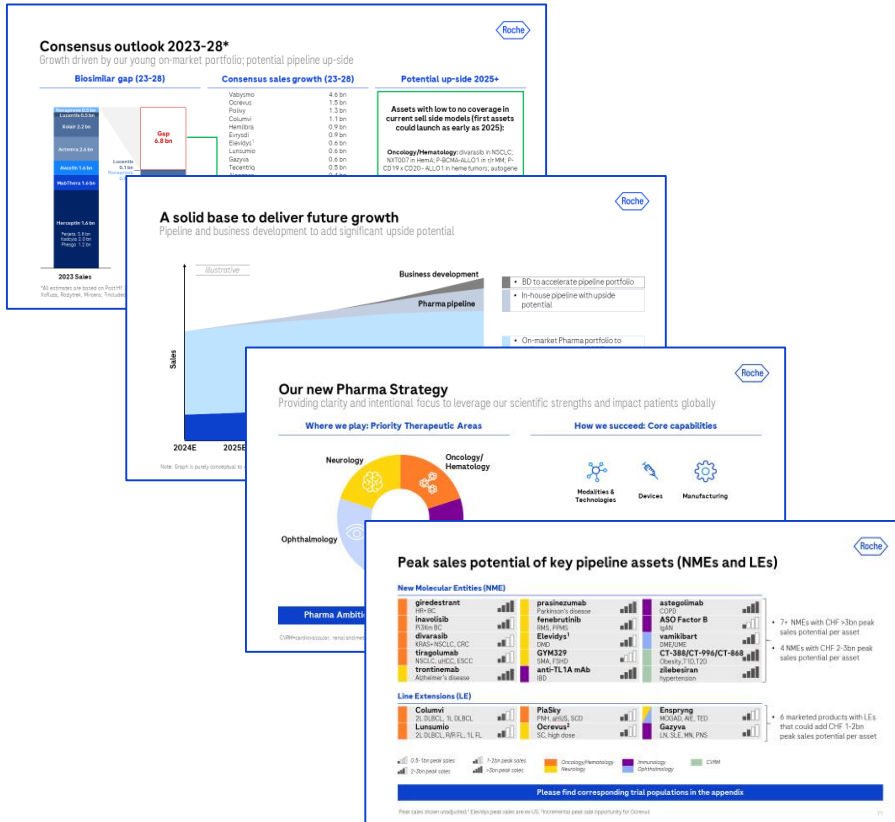
Core foundation of clinically validated MoAs

- Solid portfolio of foundational assets as well as innovative new MoAs to address CVRM diseases (>5 assets across CVRM, Immunology, Neurology, and Ophthalmology)
- Roche to build on successful acquisitions and partnering opportunities, e.g. Carmot and Alnylam

Time frame of analysis is January 2018 to June 2023. Source: IQVIA LAAD; US Market Access Strategy Consulting analysis, Cusi, K. Time to include Non Alcoholic Steatohepatitis in the Management of Patients with Type 2 Diabetes. Diabetes Care, 2020; 1 Represents number of patients in each Venn Diagram overlap; 2 Represents number of patients in a single TA, i.e., have no comorbidity overlap; 3 Overlap for MASH, Diabetes, and Obesity unknown; approximate percentages have been included. Patient population sizes include 2022+ data-active patients, or those with Rx or Dx claims in 2022 or 2023; CV=cardiovascular; CVRM=cardiovascular renal metabolism; MASH=metabolic dysfunction associated steatohepatitis; NME=new molecular entity

Setting up Roche for the next innovation cycle and long-term growth

Significant progress over past 12 months



Our young portfolio, people and scientific capabilities serve as a strong foundation for future growth

We have made significant progress over the last year:

- Strengthening our portfolio and implementing a new portfolio governance
- Implementing R&D Excellence and applying the 'Bar' to reach top-quartile R&D productivity
- Accelerating key assets and adding promising external molecules
- Establishing a purposeful balance between scientific exploration and focus on disease areas to continuously deliver transformative medicines
- Launching Pharma Strategy and defining 5 TAs, including CVRM, and core capabilities
- Focusing on synergies between Diagnostics & Pharma to address unmet needs along the entire patient journey

Thank you for your attention and we are happy to answer your questions



Appendix

Changes to the development pipeline

Pharma Day update

New to phase I	New to phase II	New to phase III	New to registration
<p>2 NMEs: RG6221 LTBR agonist RGXXXX* CDK4/2i (RGT-419B) - (HR+) breast cancer</p>	<p>1 NME: RG6512 FIXa x FX (NXT007) - hemophilia</p> <p>1 AI: RG6640 GLP-1/GIP RA (CT-388) - obesity + comorbidities***</p>	<p>1 NME: RG6631 anti-TL1A - ulcerative colitis</p>	
Removed from phase I	Removed from phase II	Removed from phase III	Approvals
<p>2 NMEs: RG6234 forimtamig monotherapy + combos - multiple myeloma RG6449 HBsAg Mab - chronic hepatitis B</p>	<p>4 NMEs: RG7854/ RG6346/ RG6084** ruzotolimod/xalnesiran/PDL1 LNA - HBV RG6139 tobemstomig monotherapy + combos - solid tumors</p>		<p>1 NME (EU): RG6107 PiaSky (crovalimab) - PNH</p> <p>2 AIs (EU): RG7716 Vabysmo – BRVO RG7716 Vabysmo – CRVO</p> <p>2 AIs (US): RG7446 Tecentriq SC - all approved indications RG1594 Ocrevus SC - RMS & PPMS</p>

Status as of September 18, 2024

*TBD; **combination platform; ***comorbidities include prediabetes, hypertension, dyslipidemia, obstructive sleep apnea

Roche Group development pipeline

Phase I (46 NMEs + 8 AIs)

RG6026	Columvi monotherapy + combos	heme tumors	CHU	glypican-3 x CD3	solid tumors
RG6058	tiragolumab combos	solid tumors	CHU	codrituzumab	HCC
RG6076	englumafusp alfa combos	heme tumors	CHU	CD137 switch antibody	solid tumors
RG6114	inavolisib	solid tumors	CHU	RAS inhibitor	solid tumors
RG6160	cevastamab	r/r multiple myeloma	CHU	SPYK04	solid tumors
RG6171	giredestrant monotherapy + combos	solid tumors	CHU	anti-CLDN6 trispecific	CLDN6+ solid tumors
RG6194	runimotamab	breast cancer	CHU	ROSE12	solid tumors
RG6221	LTBR agonist	solid tumors	RG6287	-	immunology
RG6279	eciskafusp alfa ± T	solid tumors	RG6315	-	fibrosis
RG6323	efbalropendekin alfa (IL15/IL15Ra-Fc) ± T	heme & solid tumors	RG6382	CD19 x CD3	SLE
RG6330	divarasib monotherapy + combos	solid tumors	RG6377	-	IBD
RG6344	BRAF inhibitor (3)	solid tumors	RG6418*	selnoflast	inflammation
RG6411	-	solid tumors	RG6421	TMEM16A potentiator	cystic fibrosis
RG6440	anti-latent TGF-β1 (SOF10)	solid tumors	RG7828	Lunsumio	SLE
RG6457	WRN covalent inhibitor	solid tumors	CHU	anti-HLA-DQ2.5 x gluten peptides	celiac disease
RG6468	-	solid tumors	CHU	Anti-complement C1s recycling antibody	Immunology
RG6524	DLL3 trispecific	solid tumors	RG6006	zosurabalpin	bacterial infections
RG6537	AR degrader	mCRPC	RG6436	LepB inhibitor	complicated urinary tract infection
RG6538 ¹	P-BCMA-ALLO1	heme tumors	RG6237	anti-latent myostatin	obesity
RG6540 ¹	P-CD19 x CD20 - ALLO1	heme tumors	RG6640	GLP-1/GIP RA (CT-388)	obesity +/- T2D
RG6596 ²	HER2 TKI	HER2+ BC	RG6652	GLP-1 RA (CT-996)	obesity +/- T2D
RG6614	USP1 inhibitor	solid tumors	RG6035	Brainshuttle™ CD20	multiple sclerosis
RG6648 ⁵	cMET ADC	solid tumors	RG6182	MAGL inhibitor	multiple sclerosis
RG7827	FAP-4-1BBL combos	solid tumors	RG6120	zifibancimig	nAMD
RG7828	Lunsumio monotherapy + combos	heme tumors	RG6209	-	retinal disease
RGXXXX**	CDK4/2i (RGT-419B)	(HR+) breast cancer	RG6351	-	retinal disease
			RG7921	-	RVO
			CHU	REVN24	acute diseases

Phase II (16 NMEs + 9 AIs)

RG6058	tiragolumab + T	NSCLC
	tiragolumab + T	1L PD-L1+ mSCCHN
RG6107	PiaSky (crovalimab)	sickle cell disease
RG6171	giredestrant	endometrial cancer
RG6180	autogene cevumeran	solid tumors
RG6357	dirloctocogene samoparvovec A	hemophilia
RG6512	FIXa x FX (NXT007)	hemophilia
RG6341	-	chronic cough
RG6536	vixarelimab	IPF/SSc-ILD
RG6631 ³	anti-TL1A	Crohn's disease
RG6615 ⁴	zilebesiran	hypertension
RG6641	GLP-1/GIP RA (CT-868)	T1D with BMI ≥ 25
RG6640	GLP-1/GIP RA (CT-388)	obesity + comorbidities***
RG6042	tominersen	Huntington's
RG6102	trontinemab	Alzheimer's
RG6237	anti-latent myostatin + Evrysdi	SMA
	anti-latent myostatin	FSHD
RG6289	gamma-secretase modulator	Alzheimer's
RG6356	Elevidys	0 to <4 year old DMD
RG6416	bepranemab	Alzheimer's
RG7816	alogabat	Angelman syndrome
RG7935	prasinezumab	Parkinson's
RG6179	vamikibart	DME
RG6501	OpRegen	geographic atrophy
CHU	anti-IL-8 recycling antibody	endometriosis

Status as of September 18, 2024

RG-No - Roche/Genentech; CHU - Chugai managed; ¹Poseida Therapeutics managed; ²Zion Pharma managed; ³Telavant managed; ⁴Alnylam Pharmaceuticals managed; ⁵MediLink managed; T=Tecentriq; *also developed in neurology; **TBD;***comorbidities include prediabetes, hypertension, dyslipidemia, obstructive sleep apnea; RA=Receptor agonist

	New Molecular Entity (NME)		Cardiovascular, Renal & Metabolism
	Additional Indication (AI)		Neurology
	Oncology / Hematology		Ophthalmology
	Immunology		Other

Roche Group development pipeline

Phase III (8 NMEs + 34 AIs)

RG3502	Kadcyla + T	HER-2+ eBC high-risk	RG6149	astegolimab	COPD
RG6026	Columvi + chemo	2L+ DLBCL	RG6299	ASO factor B	IgA
	Columvi + Polivy + R-CHP	1L DLBCL	RG66313	anti-TL1A	nephropathy ulcerative colitis
RG6058	Columvi	r/r MCL	RG7159	Gazyva	lupus nephritis
	tiragolumab + T	1L PD-L1 high NSCLC		Gazyva	membranous nephropathy
	tiragolumab + T + chemo	1L esophageal cancer		Gazyva	systemic lupus erythematosus
	tiragolumab + T	locally advanced esophageal cancer		Gazyva	childhood onset idiopathic nephrotic syndrome*
	tiragolumab + T	stage III unresectable 1L NSCLC		RG6152	Xofluza
RG6107	tiragolumab + T + Avastin	1L HCC	RG1594	Ocrevus higher dose	RMS & PPMS
RG6114	PiaSky (crovalimab)	aHUS	RG6168	Enspryng	MOG-AD
RG6171	inavolisib + fulvestrant	post CDKi HR+ PIK3CA-mut. BC	RG6356	Enspryng	autoimmune encephalitis
	inavolisib + Phesgo	1L HER2+ PIK3CA-mut. mBC	RG7845	Elevidys	amb. 8 to <18y & non amb. DMD
	giredestrant + palbociclib	1L ET sensitive ER+/HER2- mBC	RG6168	fenebrutinib	RMS
	giredestrant	ER+ BC adj	RG6179	fenebrutinib	PPMS
RG6330	giredestrant + Phesgo	1L ER+/HER2+ BC	RG6321	Enspryng	TED
	giredestrant + CDK4/6i	1L ET resistant ER+/HER2- BC	RG7716	vamikibart	UME
RG7446	divarasib	2L NSCLC	Susvimo	wAMD, 36-week	
	Tecentriq + platinum chemo	NSCLC periaj	Vabysmo	CNV	
	Tecentriq + BCG	NMIBC, high-risk			
	Tecentriq	ctDNA+ high-risk MIBC			
RG7601	Tecentriq + lurbinectedin	1L maintenance SCLC			
RG7828	Venclexta + azacitidine	1L MDS			
	Lunsumio + lenalidomide	2L+ FL			
	Lunsumio + Polivy	2L+ DLBCL			

Registration US & EU (2 NME + 4 AIs)

RG6114	inavolisib + palbociclib + fulv.	1L HR+ PIK3CA-mut. mBC
RG6152	Xofluza ³	influenza, pediatric (0-1 year)
RG6356	Elevidys ²	DMD
RG3625	TNKase ¹	stroke
RG6321	Susvimo ¹	DME
	Susvimo ¹	DR

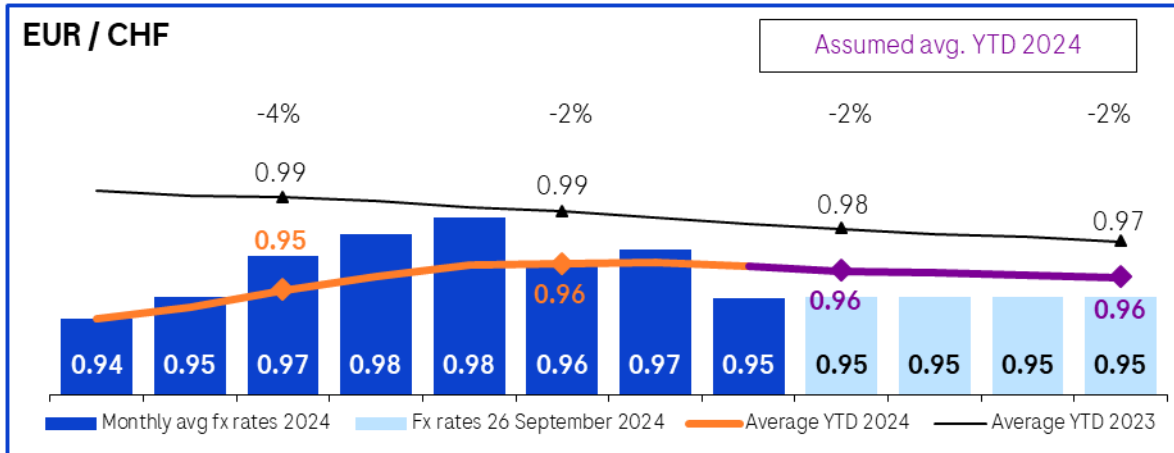
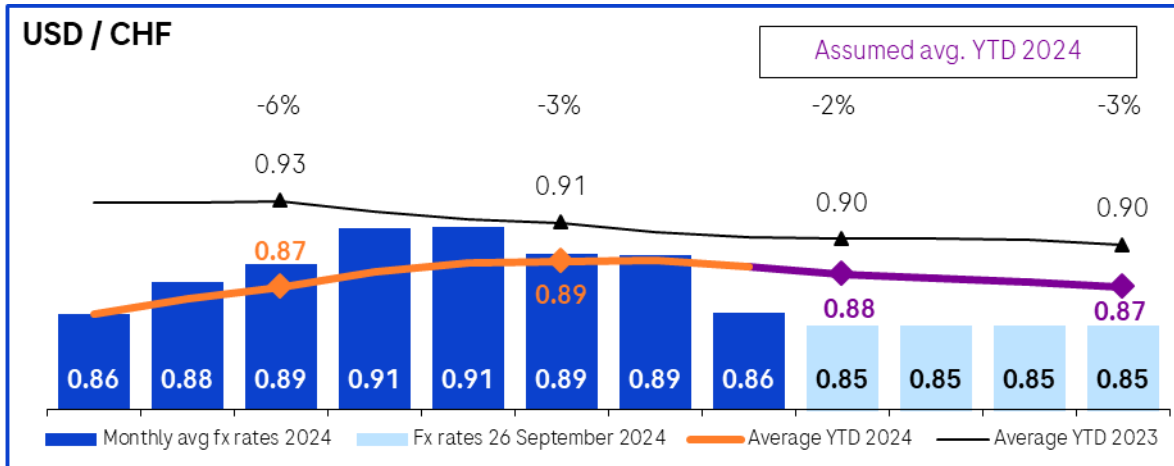
¹Filed in US

²Filed in EU, approved in US (Sarepta)

³Filed in EU

	New Molecular Entity (NME)		Cardiovascular, Renal & Metabolism
	Additional Indication (AI)		Neurology
	Oncology / Hematology		Ophthalmology
	Immunology		Other

Expected 2024 currency impact



Assuming the 26 September 2024 exchange rates remain stable until end of 2024,
2024 impact¹ is expected to be (%p):

	Q1	Q2	Q3	Q4
Sales	-8	-2	-3	-4

	Q1	HY	Sep YTD	FY
Sales	-8	-5	-4	-4
Core operating profit		-7		-6
Core EPS		-8		-7

¹On group growth rates

Doing now what patients need next