





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 per share for this year or any subsequent period will necessarily match or exceed the historical published earnings or earnings per share of Roche.

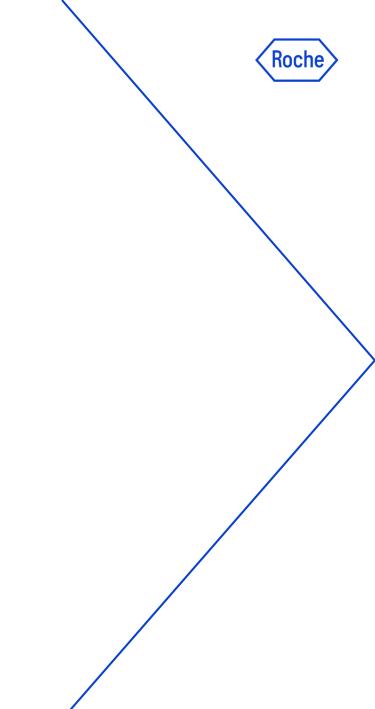
For marketed products discussed in this presentation, please see full prescribing information on our website www.roche.com

All mentioned trademarks are legally protected.

Welcome

Bruno Eschli

Head of Investor Relations



Agenda

Welcome

10:30 - 10:35 BST Bruno Eschli, Head of Investor Relations

Group Update

10:35 – 11:05 BST Thomas Schinecker, CEO Roche Group

Pharma Update and On-Market Portfolio

11:05 - 11:40 BST Teresa Graham, CEO Roche Pharmaceuticals

Late Stage Pipeline Oncology (Solid Tumors)

11:40 - 12:00 BST Levi Garraway, CMO and Head Global of Product Development

12:00 - 12:50 BST Lunch Break

Late Stage Pipeline Hematology

12:50 – 13:05 BST Charles Fuchs, SVP Global Head of Oncology and Hematology Product Development

Late Stage Pipeline Neuroscience, Immunology and Cardiovascular-Metabolism

13:05 – 13:30 BST Paulo Fontoura, SVP and Global Head of Neuroscience and Immunology

Late Stage Pipeline Ophthalmology

13:30 – 13:45 BST Christopher Brittain, VP and Global Head of Ophthalmology Product Development

13:45 - 14:30 BST **Q&A**

14:30 - 15:00 BST **Buffet reception**

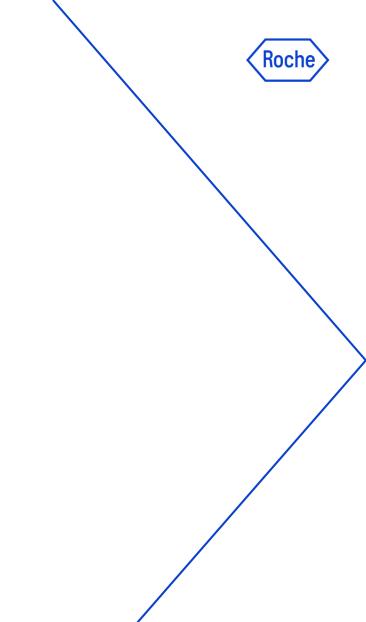




Group Update

Thomas Schinecker

CEO Roche Group





New Leadership Team

Performance and Outlook

Pharma R&D Excellence

Upcoming IR Events

Corporate Executive Committee since April 2023



Pharma R&D functions from early to late stage and partnering represented



Dr. Thomas Schinecker Chief Executive Officer Roche Group



Teresa Graham CEO Roche Pharmaceuticals



Matt Sause CEO Roche Diagnostics



Dr. Alan Hippe Chief Financial and Information Officer



Cristina A. Wilbur Chief People Officer



Claudia Böckstiegel General Counsel



Prof. Dr. Hans Clevers Head of Pharma Research and Early Development (pRED)



Dr. Aviv Regev Head of Genentech Research and Early Development (gRED)



Dr. James H. Sabry Global Head of Pharma Partnering



Dr. Levi Garraway Head of Global Product Development and Chief Medical Officer



Silke Hörnstein Head of Corporate Strategy and Sustainability



Barbara Schädler Head of Group Communications

Corporate Executive Committee: New members



Experienced leaders with breadth of scientific, commercial and strategic experience



Dr. Thomas Schinecker Chief Executive Officer Roche Group



Prof. Dr. Hans Clevers Head of Pharma Research and Early Development 'nRFD)



Teresa Graham CEO Roche Pharmaceuticals

- Excellent track record in multiple Pharma functions and across the portfolio
- Accomplished leader with strength in commercial operations combined with scientific depth



Matt Sause CEO Roche Diagnostics

- 20 years at Roche, experience in Diagnostics and Pharma
- Numerous country general management and global product leadership roles
- Successful leadership of Diagnostics' North America region



Dr. Levi Garraway Head of Global Product Development and Chief Medical Officer

- Outstanding career at Dana-Farber, Harvard Medical School, and the Broad Institute
- Award-winning cancer researcher with multiple breakthrough discoveries in cancer genomics and precision medicine



Silke Hörnstein Head of Corporate Strategy and Sustainability

- 20 years at Roche, experience across general management, global product and strategy leadership roles
- Successfully led Roche Diagnostics' transformation efforts including new strategy and implementation



Claudia Böckstiege General Counsel



Barbara Schädler Head of Group Communications

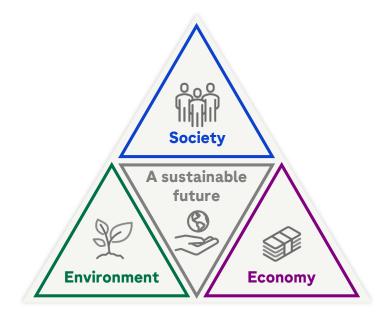
Sustainability now represented on CEC level



ESG is part of everything we do

- Develop **new medicines**, **diagnostics** and **integrated health solutions** that address the needs of diverse patient communities
- Increase access to our innovations globally with local communities in mind
- Care for our employees by prioritizing safety and health, promoting diversity, inclusion and equal opportunities

- Halve the environmental impact of our operations and products from 2019-2029
- Reduce greenhouse gas emissions to net zero no later than 2050
- Partner with suppliers to reduce their greenhouse gas emissions



- Invest in innovation and medical advances
- Contribute to economic growth in over 100 local economies
- Provide jobs and ensure livelihoods



New Leadership Team

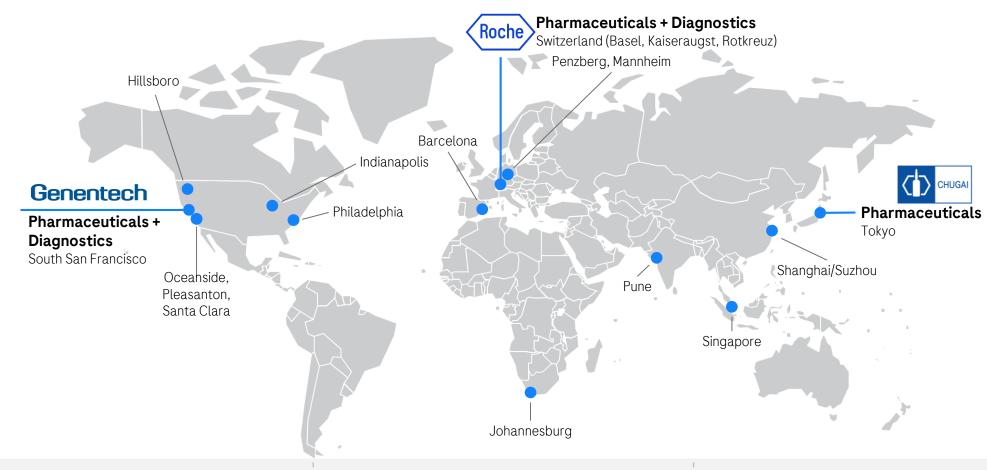
Performance and Outlook

Pharma R&D Excellence

Upcoming IR Events

Global Roche network delivering patient benefits worldwide





14mn

Patients treated with Roche medicines in 2022

29bn

Test conducted with Roche systems in 2022

14 yrs

in a row ranked as one of the top 3 most sustainable healthcare companies¹

Our achievements



Roche is continuously shifting the standard of care

A legacy of patient and business impact...

ımpact				
16	Blockbuster drugs in 2022, up from 7 in 2012			
#1	in neurology and hemophilia A ¹			
#3	in oncology ¹			
#1	in <i>in vitro</i> diagnostics ¹			
#1	top pharma as ranked by rare disease patient groups ²			
#1	Pharma in Al readiness ³			

...with a track record of establishing standard of care across new therapeutic areas



First and only therapy approved for RMS/PPMS



First bispecific antibody in AMD and DME



First and only prophylactic treatment for hemophilia A with/without inhibitors



First-in-class splicing modifier for the treatment of SMA

Roche delivered consistent growth through biosimilar erosion

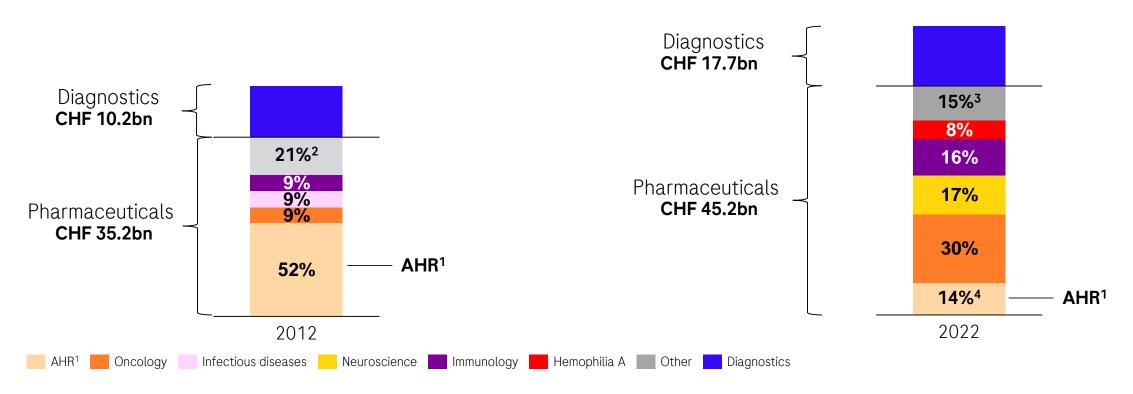


Successful diversification of our portfolio

From three oncology assets driving ~50% of sales in 2012...



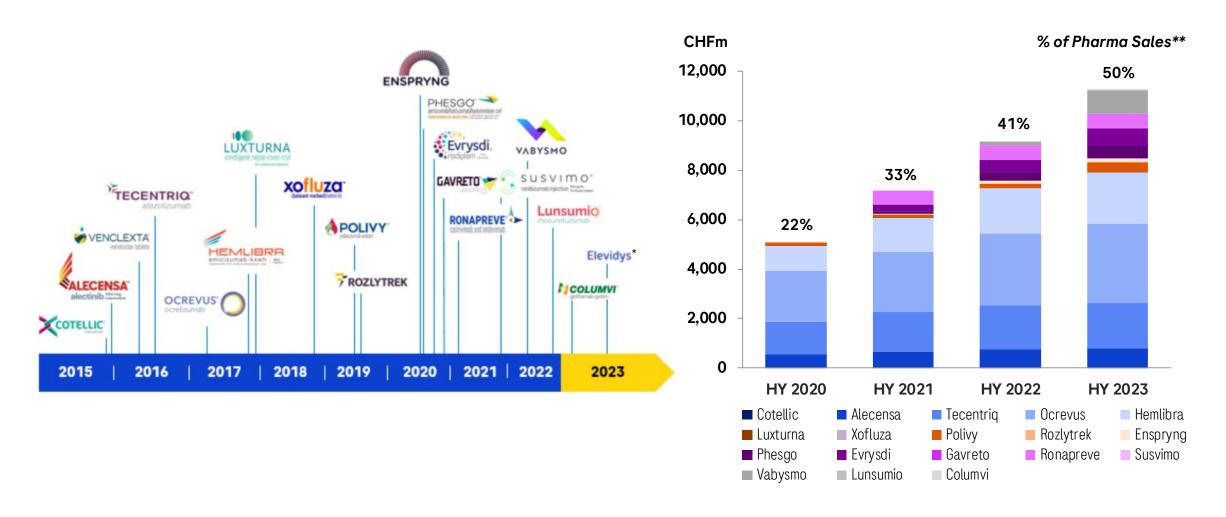
... to a diversified portfolio with assets that span multiple therapeutic areas today



Young portfolio: 20 NMEs launched since 2015 driving growth



Keeping launch momentum with two NMEs approved in 2023



Consensus outlook 2022-26*



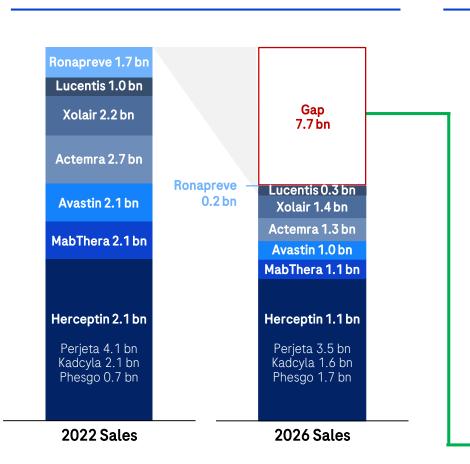
Growth driven by our young on-market portfolio; potential pipeline up-side

Biosimilar gap (22-26)

Consensus sales growth (22-26)

Post-HY 2023 consensus survey

Potential up-side³



Vabysmo	4.3 bn
Tecentriq	1.7 bn
Hemlibra	1.6 bn
Ocrevus	1.5 bn
Polivy	1.4 bn
Evrysdi	1.2 bn
Lunsumio	0.7 bn
Columvi	0.5 bn
Gazyva	0.4 bn
Alecensa	0.3 bn
Enspryng	0.3 bn
Susvimo	0.2 bn
Other in-market ¹	(0.5) bn
Pipeline Ph III ²	2.4 bn
thereof Elevidys	0.8 bn
thereof tiragolumab	0.7 bn
thereof giredestrant	0.3 bn
thereof crovalimab	0.3 bn
thereoffenebrutinib	0.2 bn
Total	16.1 bn

Additional up-side by late-stage NMEs / LEs poorly or not yet covered:

Oncology (inavolisib, divarasib, tobemstomig, autogene cevumeran), Hematology (SPK-8011), Ophthalmology (ASO factor B in GA, anti-IL-6 mAb, Enspryng in TED), Neuroscience (Enspryng in gMG, anti-latent myostatin mAb, trontinemab, prasinezumab), Immunology (Gazyva in LN, astegolimab, ASO Factor B in IgAN), Cardiovascular & Metabolism (zilebesiran)

^{*}All estimates are based on Post HY 2023 consensus collected by FTI Consulting on behalf of Roche (n=18); ¹ Activase/TnKase, Esbriet, Pulmozyme, CellCept, Erivedge, Cotellic, Gavreto, Xofluza, Rozlytrek; Luxturna ² included in >50% of the sell-side models; ³Assets covered on average by only 17% of the sell side models; NME=new molecular entity; LE=line extensions

Important launches ahead in Diagnostics



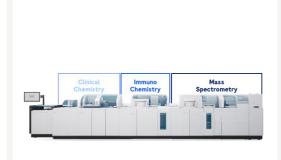
Diagnostics to deliver mid to high single digit growth in coming years

Core & Molecular Lab



- Menu expansion driving growth, averaging >25 assay launches/approvals per year¹
- >240 assays running on >100k installed cobas® serum work area instruments
- >2.5k installed cobas® 6800/8800/ 5800 instruments

Mass spectrometry



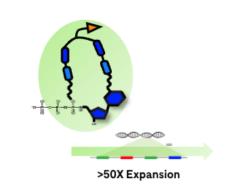
- First fully integrated and automated mass spectrometry
- Launch menu complimentary to immunoassay offering, including >40 key parameters at launch
- CE launch planned for end of 2024 (FDA approval expected in 2025)

Continuous glucose monitoring (CGM)



- Subcutaneously inserted sensor to measure glucose values in interstitial fluid
- Personalized management of diabetes
- Digital tools to support disease management for users and healthcare professionals

Next generation sequencing (NGS)



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

^{1.} average 2018 – 2022; excludes claim extensions for new instruments, excludes Biotin updated assays, COVID-19, Custom Biotech, TiB Molbiol & Genmark, RUOs, IVDR transitions; CGM=continuous glucose monitoring; NGS=next generation sequencing

FY guidance confirmed - strong half year performance



Base business with continued strong momentum; COVID sales washed-out by Q1 24

Guidance¹



Pharma: Key products with strong growth and momentum from ongoing launches

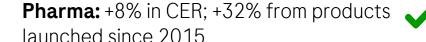
Diagnostics: Base business with solid growth

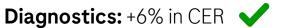


COVID-19 sales for Diagnostics and Pharma expected to decline by roughly CHF 5bn

AHR² sales expected to erode by roughly CHF 1.6bn

HY Results





COVID-19 sales: CHF -2.7bn 🗸

AHR² sales: CHF -0.6bn ✓



New Leadership Team

Performance and Outlook

Pharma R&D Excellence

Upcoming IR Events

Roche R&D has multiple proven strengths





Strategy and portfolio

- Commitment to scientific excellence and discovery of novel modalities (e.g. ADCs, bispecifics)
- Ability to expand successfully into new therapeutic areas



Operating model and structure

- Autonomous early stage R&D units gRED, pRED and Chugai, specialized in their respective domains
- Successfully launched 20 NMEs in the last 8 years



Talent, culture and mindset

- Breadth and depth of expertise across a range of disease areas
- Leaders in emerging areas such as computational biology, new disease models, and protein engineering



Capabilities, tech, and Al

- Strong organizational loyalty, external reputation and ability to attract top scientific talent
- Leveraging thought leadership in generative AI and deep learning approaches

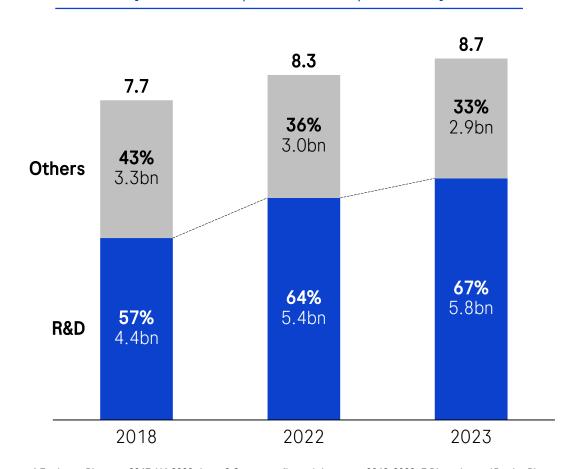
Commitment to innovation

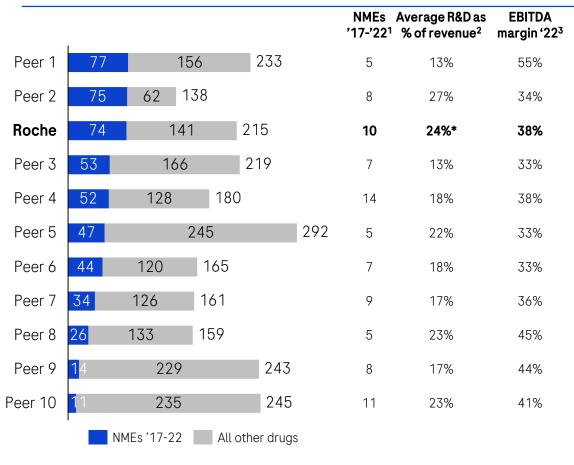


After reallocating resources to R&D, focus is now on 'R&D Excellence'

HY Roche Pharma R&D investment allocation (2018-2023, % of OPEX, CHF bn)

R&D investment and profitability¹ Recently approved NME share of NPV (2022, USD bn)



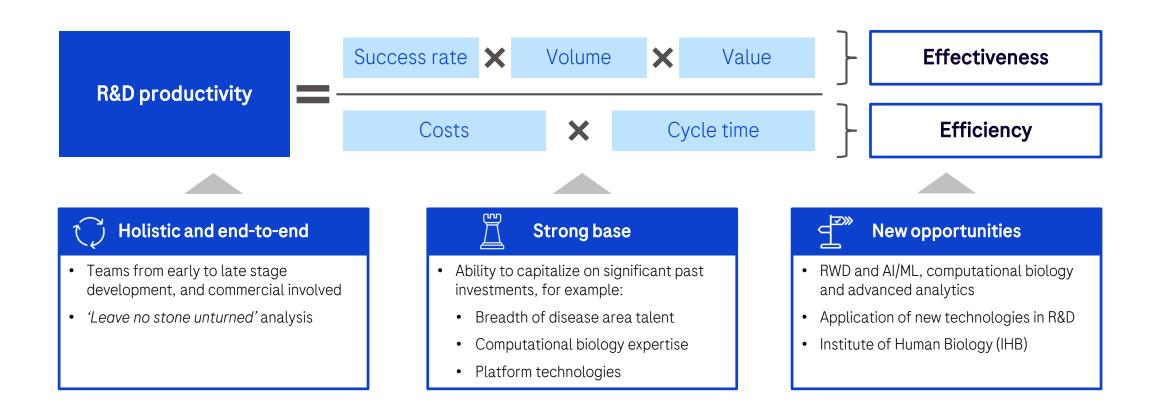


Holistic, end-to-end analysis of our R&D productivity



22

Commitment to delivering the worlds most impactful medicines



RWD=real-world data; AI/ML=artificial intelligence/machine learning

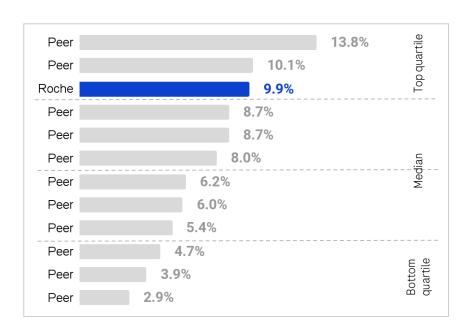


Roche with leading success rate by molecule...

...but higher Phase III failure rate recently

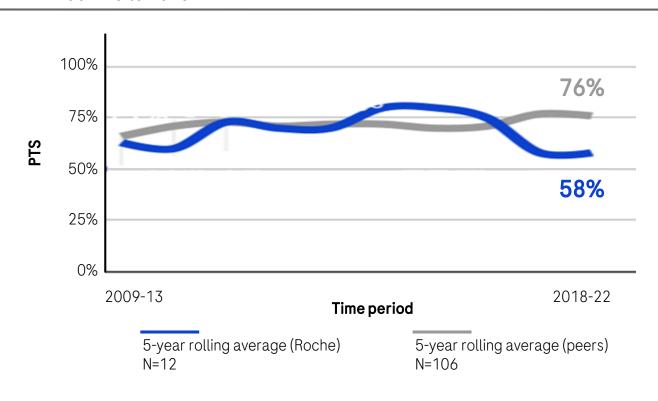
Molecule success (PoL Preclinical - Approval)

2018-22 Industry Distribution



Molecule Success Rate in Phase III*

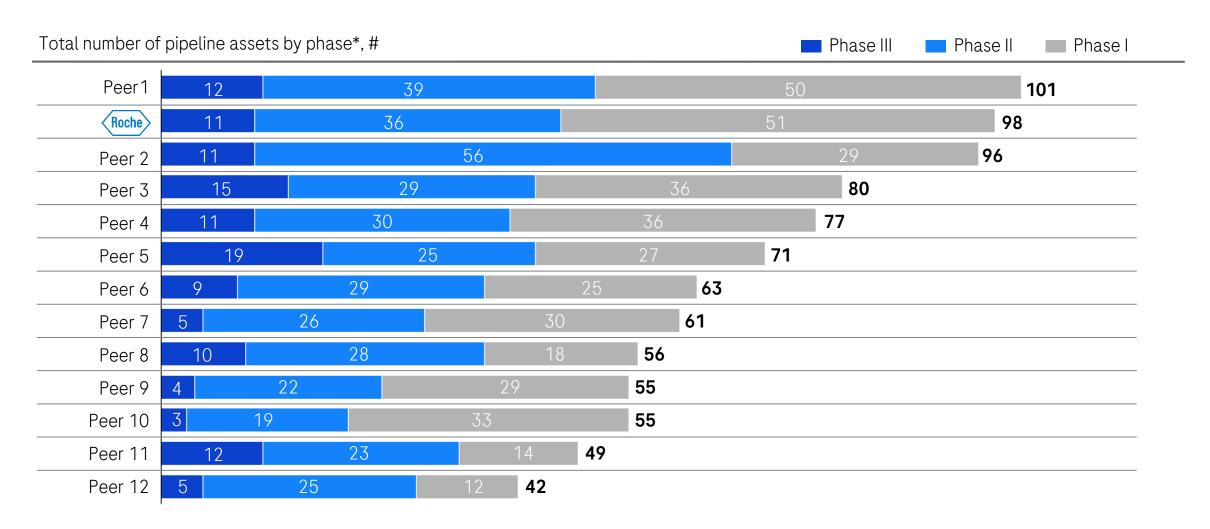
2009-13 to 2018-22



^{*}Values on the Molecule Success Rate trend in phase III graph represent outcomes in the 2018-22 horizon. Graphs start with 2009-13 data and then show 5-year average trend through 2018-22 horizon; PTS=probability of technical success; Source: KMR Benchmarking analysis

Number of pipeline assets in Phase I to III

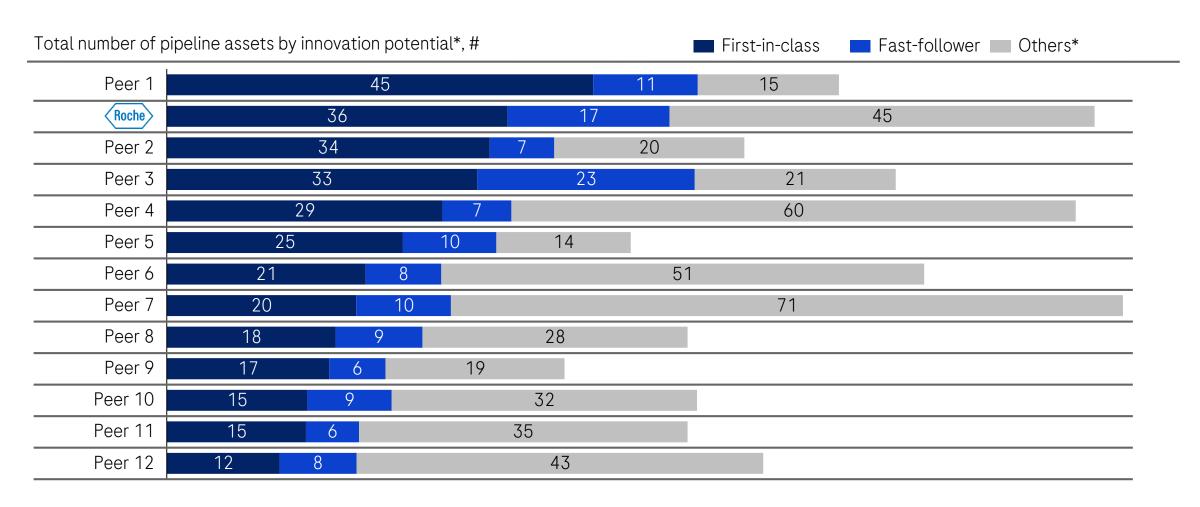
Roche ranks #2 in total pipeline volume



^{*}Excludes pipeline products in pre-registration, registration and filed; Peer 1-12 are other large-cap Pharma Source: Pharmaprojects (February 2023), McKinsey attrition analytics

Pipeline assets segmented by innovation potential

Roche ranks #2 in number of NMEs with first-in-class potential

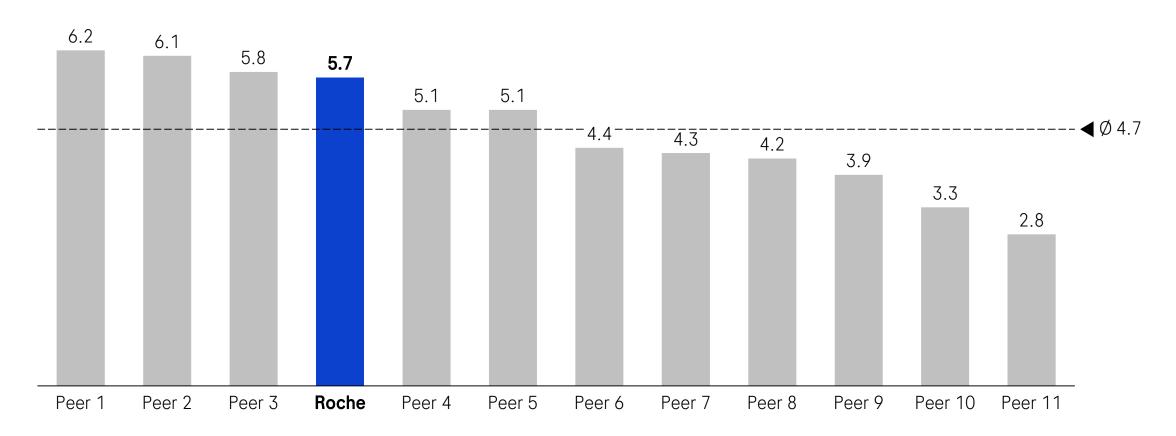


^{*}NMEs that are neither first-in-class or best-in-disease, or without disclosed MoA, are grouped as 'Others'; Peer 1-12 are other large-cap Pharma Source: Pharmaprojects (March 2023)

R&D spend per NME launch

Roche spend is above industry average

R&D spend per NME launch², bn USD, 2018-2022¹

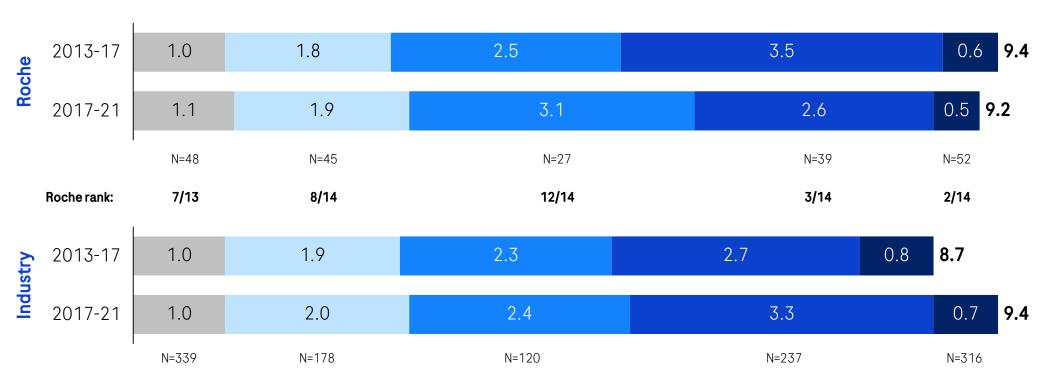


^{1.} Average annual pharmaceutical R&D Spend from 2018-2022 (device and generics R&D spend excluded whenever reported separately). Pre-acquisition R&D spend for mega-merged entities (M&A >\$10Bn) is included to account for NME pipeline continuity; Only asset products sales included; 2. Restricted to NMEs launched 2018-23 with visible revenues for that company (any year in visible forecast data). NME = New Molecular Entity (including novel biologics). Partnered launches can be assigned to multiple companies if there are revenues associated with several players; Source: EvaluatePharma March 2023

Development timelines compared to industry

Roche with faster than average Phase III cycle time, but lagging in Phase II





^{*} Phase II cycle time encompasses Phase Ib expansions (in Oncology), single arm Phase IIs and randomized Phase IIs. A great portion of projects in Phase II are Oncology Phase Ib expansions, where a higher SoC bar in most indications (requiring assessment of time-to-event endpoints in order to ungate a larger Phase III study) might be one of the factors contributing to longer duration over time

Levers to drive R&D excellence were identified



28

E.g., go/no go decisions based on critical review of scientific and commercial risk

E.g., leverage RWD and AI to increase research output and focus on clinical stage external innovation

E.g., focus on assets with best-indisease and first-in-class potential, manage portfolio value mix

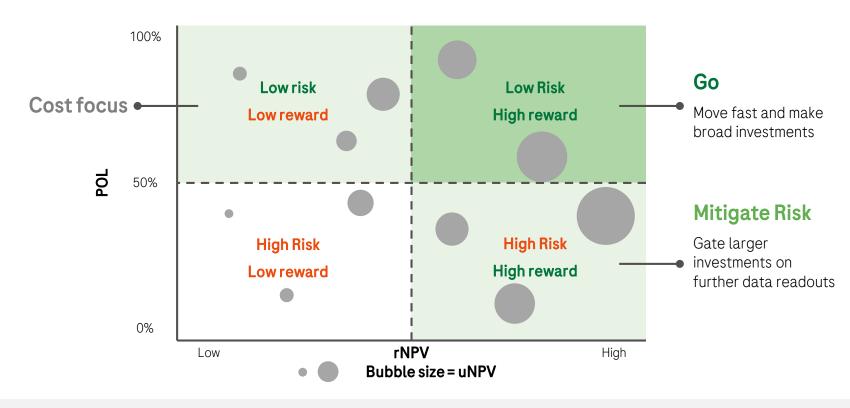


RWD=real-world data; Al=artificial intelligence

Prioritization of our R&D investments



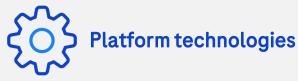
Pharma portfolio management with an end-to-end perspective



Additional dimensions



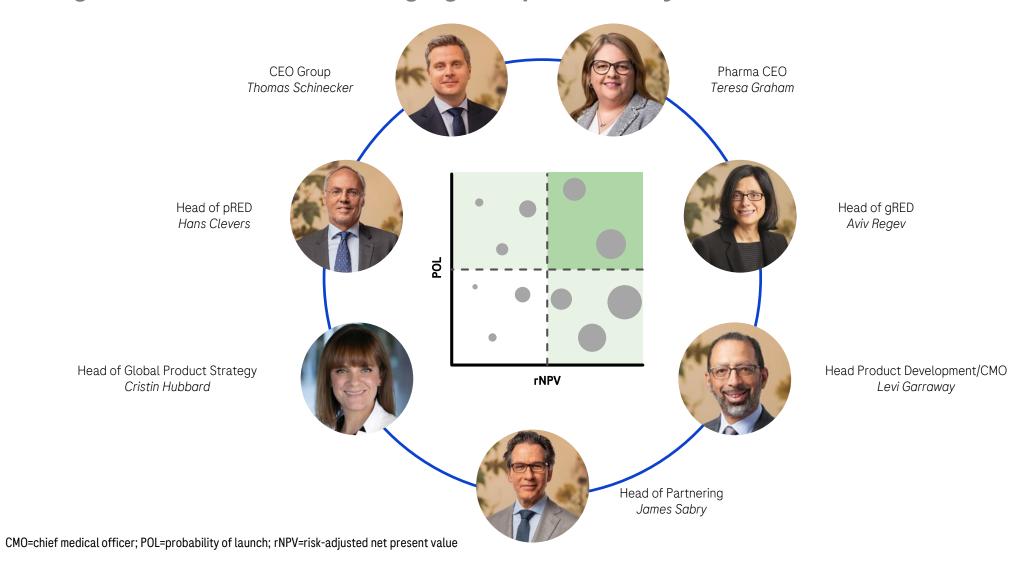




Portfolio committee established



Taking a holistic view and managing R&D productivity end-to-end



Pipeline acceleration via partnering



Deals of the past two years increasingly focused on clinical stage NMEs*

TA	NME	Indication	Partner	Development stage
	P-CD19CD20-ALLO1	B-cell malignancies	POSEIDA THERAPEUTICS	Pre-clin. Ph I
	P-BCMA-ALLO1	Multiple myeloma	THERAPEUTICS	PhI
	AR degrader	mCRPC	Jemincare	PhI
	camonsertib	Solid tumors	REPARE	PhI
	KSQ-4279	Solid tumors	KSQ	PhI
	OpRegen	Geographic atrophy	- LINEAGE CELL THERAPEUTICS	Ph II
	ASO factor B	IgAN	IONIS	Ph II Ph III
	vixarelimab	IPF & SSc-ILD	KINIKSA	Ph II
	zilebesiran	Hypertension	*2 Alnylam*	Ph II
Oncology / Hematology Ophthalmology Development stage at time of deal Current development stage Immunology Cardiovascular & Metabolism Positive proof of concept data				

^{*}Table shows clinical stage NME deals completed 2021-2023 YTD; TA=therapeutic area; mCRPC=metastatic castrations-resistant prostate cancer; AR=androgen receptor; IgAN=immunuglobululin A nephropathy; ASO=antisense oligonucleotide; IPF=idiopathic pulmonary fibrosis; SSC-ILD=systemic sclerosis-interstitial lung disease

Evolution of our R&D engines, with impact on the full value chain

Leveraging the newest technologies to bring unprecedented changes

Computational Biology, AI/ML and advanced computation

- Acceleration of biological insights
- Systematic discovery of targets and biomarkers
- More efficient target prioritization and development (efficacy, safety, tractability)
- Digital endpoints delivering new patient insights and building holistic solutions for patients

Roche Leader



Head of gRED Aviv Regev



Head of gRED Computation John Marioni

Organoids: Creating reliable predictive models emulating the human body

- Roche launched the Institute of Human Biology (IHB)
- Engineering the most advanced organoids to explore physiology, understand diseases and develop new therapies
- Accelerate discovery and development of new medicines
- Core areas: exploratory research, bioengineering, translation & technologies



Head of pRED Hans Clevers



Head of IHB Matthias Liitolf

New technologies enabling unprecedented changes along the full value chains of Pharma and Diagnostics



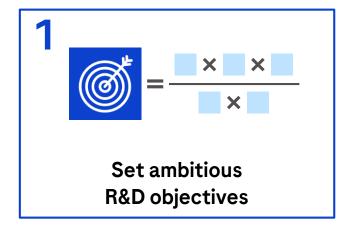
Our Operating Principles: How we shape our culture

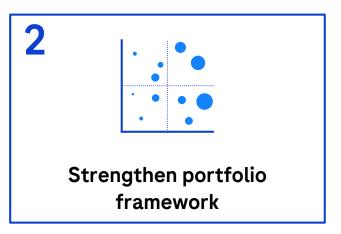
Putting patients first is at our core; additional key areas to focus on going forward

Put patients first	I always act as if patients I know are in the room and do what's best for them.		
Follow the science	w the science I seek answers through experiments, data and debate, and act on facts.		
Act as one team	I care, collaborate and commit without boundaries, and trust others to do their part.		
Embrace differences	I seek diverse perspectives, invite opposing views, and challenge myself and others.		
Accelerate learning	I push to learn new things even if difficult, and openly share my successes and failures.		
Simplify radically	I eliminate complexity, reuse with pride, and accomplish more with less.		
Make impact now	I take accountability to do what's right, deliver value fast, and don't wait for certainty.		
Think long term	I choose actions today that benefit future generations.		

R&D focus areas to speed up delivery of our medicines

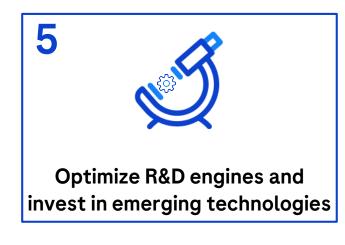
















New Leadership Team

Performance and Outlook

Pharma R&D Excellence

Upcoming IR Events

Upcoming IR events on Neuroscience, Digitalization and Diagnostics





Neuroscience Update on Oct 30

Virtual event

- Neuroscience pipeline and strategy
- Latest data on:
 - Ocrevus Ph III (OCARINA II) in MS
 - fenebrutinib Ph II (FENopta) in MS
 - trontinemab Ph I dose escalation in AD
 - GSM (Gamma secretase modulator) Ph I in AD



Roche Digitalization Day on Nov 29

Virtual event

- Roche experts to present how digitalization (incl. RWD and AI/ML) transforms our Pharmaceuticals and Diagnostics businesses in an unprecedented way
- Use cases covering early R&D, clinical development, regulatory, manufacturing, supply chain and commercialization to be presented
- Discussion of novel product opportunities at the interface between Diagnostics and Pharmaceuticals



Roche Diagnostics Day in H1 2024

Hybrid event (virtual / on-site)

- Management to update on Diagnostics midterm outlook
- Deep-dives into the current product portfolio
- Updates on key development projects, including mass spectrometry (launch scheduled for 2024), continuous glucose monitoring (CGM) and next-generation sequencing (NGS)

Angiogenesis 2023 🧹

Virtual Monday, 13 February 16:30 to 18:00 CET Roche ESG Day

Virtual Tuesday, 23 May 15:30 to 17:00 CEST EHA 2023

Virtual Monday, 12 June 16:30 to 17:30 CEST Roche Pharma Day London

Monday, 11 September 10:30 to 14:30 BST Neuroscience Update Virtual

Monday, 30 October TBA **Roche Digitalization Day** Virtual

Wednesday, 29 November TBA

ASH 2023Virtual
December

TBA

Roche Diagnostics Day Virtual / hybrid H1 2024 TBA



Teresa Graham

CEO Roche Pharmaceuticals





Pharma Update

On-Market Portfolio With Further Growth Potential

Significant Growth Opportunities Ahead





All regions delivering strong growth, intensifying currency headwinds in Q2

	2023	2022	Chang	ge in %
	CHFm	CHFm	CHF	CER
Pharmaceuticals Division	22,681	22,347	1	8
United States	11,743	11,363	3	7
Europe	4,105	4,104	0	5
Japan	2,210	2,202	0	14
International	4,623	4,678	-1	9

CER=Constant Exchange Rates

Why we changed our customer engagement model



Why we changed



Roche's changing portfolio



Shifting customer expectations for industry engagement



Data and technology as disrupters



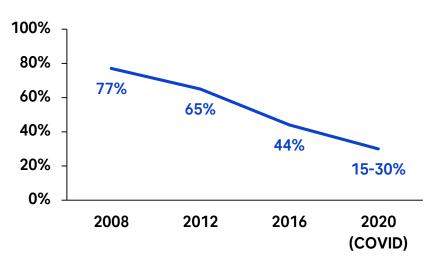
Price pressures



Patient influence in healthcare decision making

In-person, product-specific field approach not meeting customer needs

Industry representative's access to physicians (US)



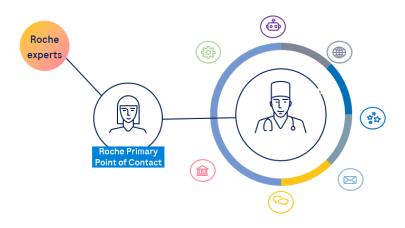
- Providers increasingly refused to meet industry; customers confused by multiple touchpoints
- Desire for more scientific exchange and patient/ account support

New customer engagement model driving future growth



Integrated customer experience and greater agility

How we are changing



- Empowered teams organized around local healthcare markets, with accountability for the whole portfolio
- Improved customer experiences and partnerships with a reduced number of broader and more impactful roles
- Delivering coordinated, personalized experiences through all channels

Impact we see today

- Successful uptake of new products (e.g. Vabysmo)
- 2 Increased P&L flexibility
- Flexibility in resource deployment to higher impact channels (e.g. digital patient support)

4 Positive customer feedback

P&L=Profit and loss

Pharma Corporate Access Goal



Opportunities to remove barriers and substantially increase access

Access levers	Inclusive clinical trials	Regulatory filing & reimbursement	Affordability \$	Capacity enablement	Partnerships	
Mid-term outcomes	Support health equity and diversity in our clinical research and trials Substantial acceleration of regulatory filling & reimbursement approval		Support development of new, integrated and tailored affordability solutions for different population health/group needs	Support infrastructure development through external partnerships	Mobilize partnerships with global/regional organizations to solve a gap in local care	
Our mission	Accelerate & adap processes	EXO	and local capabilities -		y fit-for-purpose d solutions	

Responsible pricing as we advance the standard of care

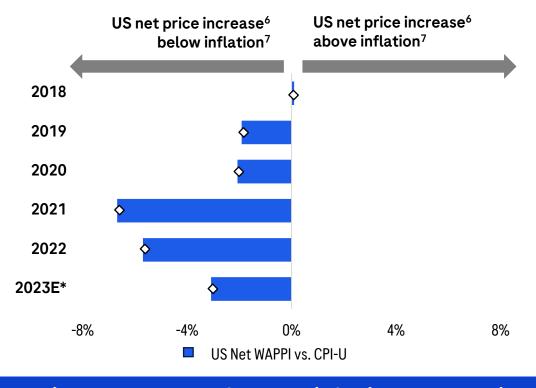


Savings for healthcare systems and lower out-of-pocket costs for patients

Key products priced below competitors in the US



Historical net price increases below CPI in the US



No impact expected from IRA inflationary penalties



Pharma Update

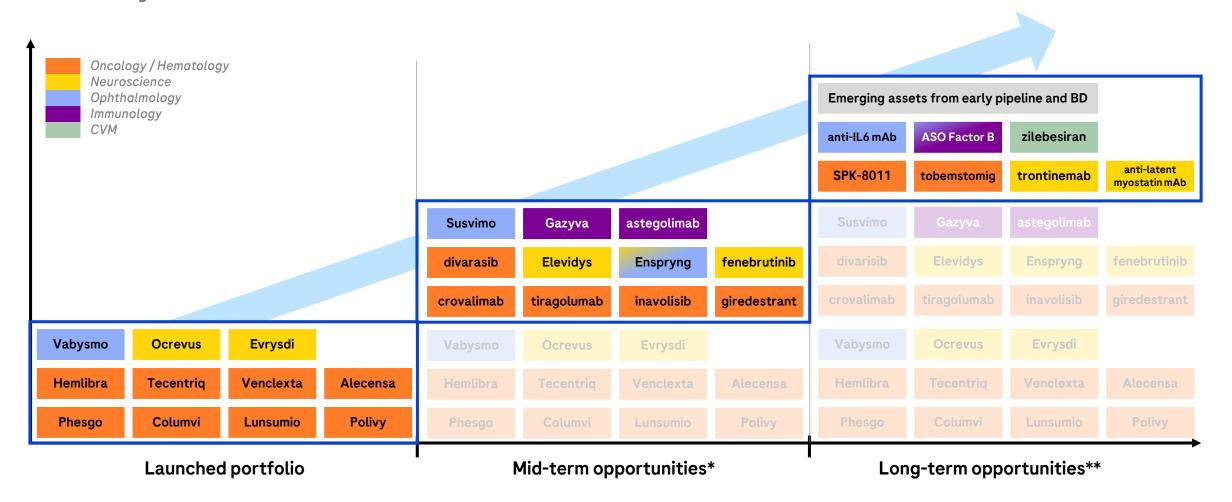
On-Market Portfolio With Further Growth Potential

Significant Growth Opportunities Ahead

Building blocks for future growth through 2030



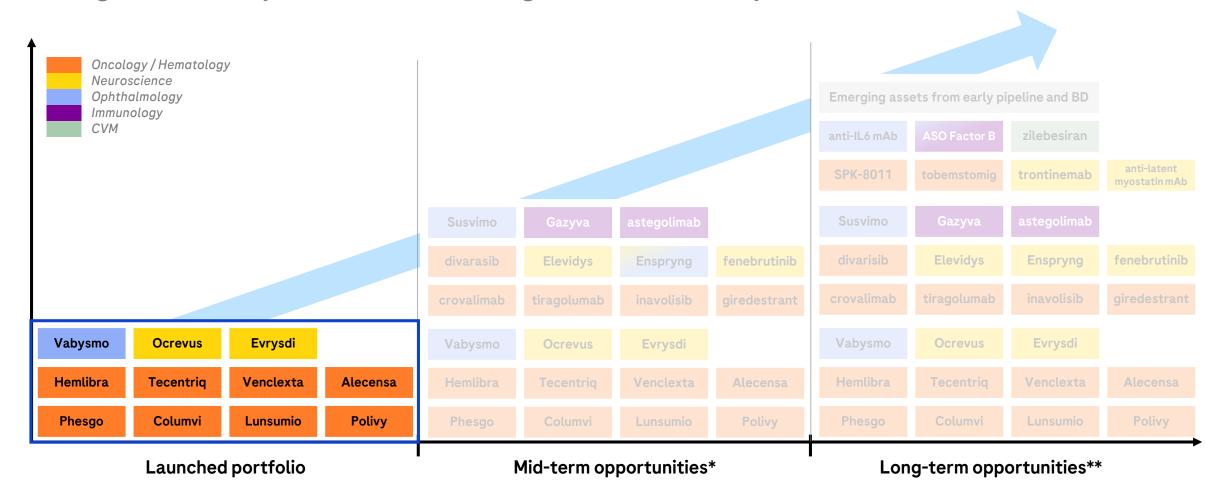
Currently 16 blockbusters on the market



Building blocks for future growth through 2030

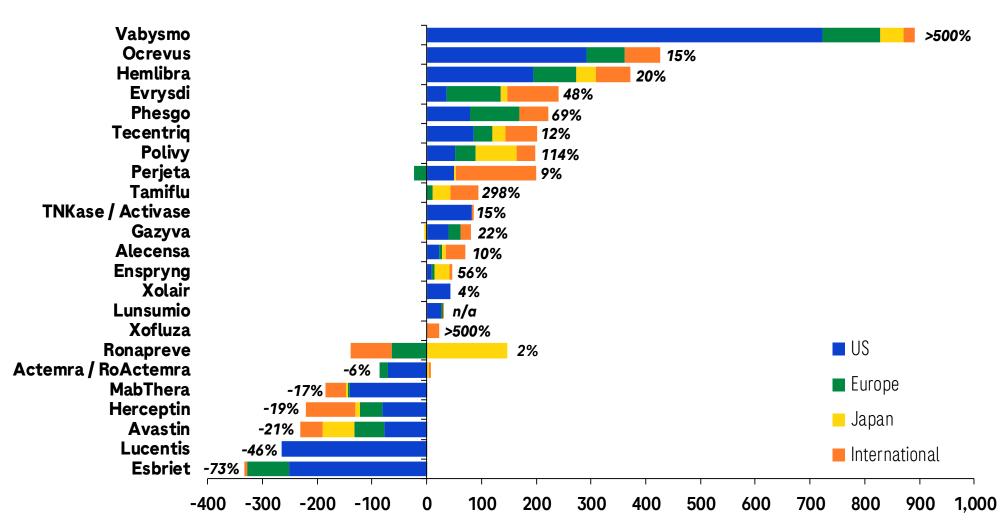


Young on-market portfolio with strong momentum and potential for line extensions









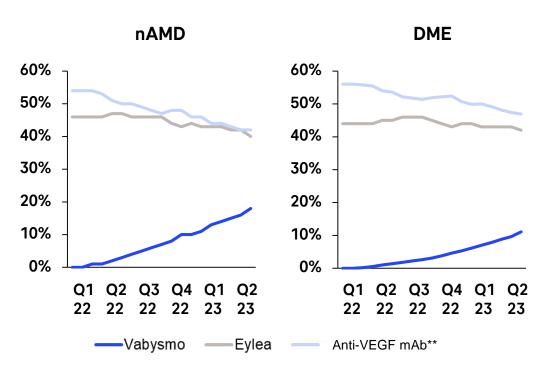
Vabysmo: Expecting more than CHF 2bn sales in 2023



Highly successful first launch under new commercial model



US patient share since launch*



Vabysmo performance update

- US market share reaches 18% in nAMD, and 11% in DME in Q2; 1/3 naive patients and 2/3 switches (mostly from aflibercept)
- >20% market-share in UK, Switzerland within 1 year of launch; Double-digit market shares achieved in Japan, Australia
- Anatomic benefits observed in switch patients in the real world drive confidence for earlier line usage (TRUCKEE)¹

Outlook

- Filed for 3rd indication RVO in US/EU (FDA PDUFA date set for 22 December)
- Expect public reimbursement for all EU-5 by end 2023

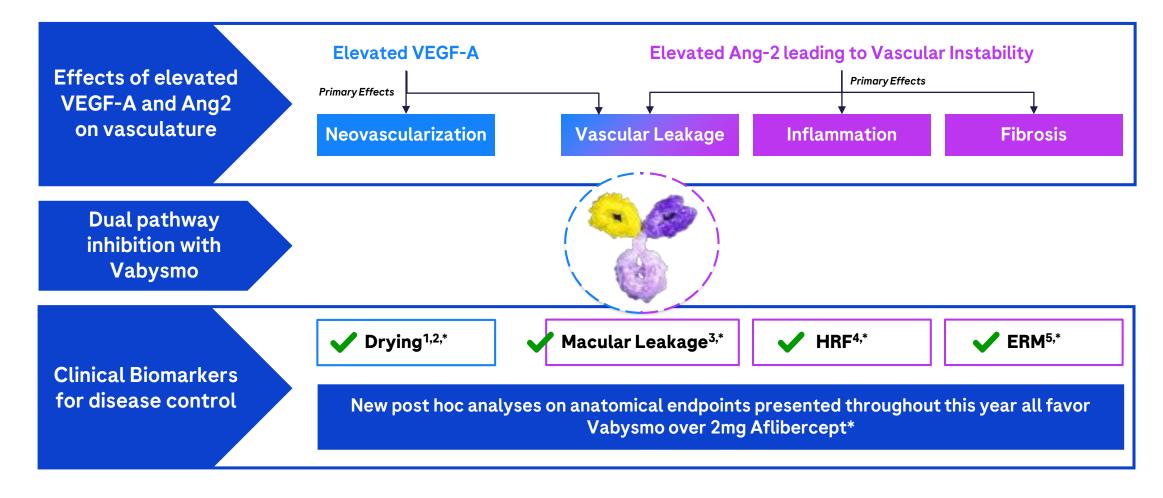
Further potential to grow our Ophthalmology franchise: Relaunch of Susvimo, satralizumab in TED and anti-IL-6 mAb in UME and DME

Vabysmo: Benefits of dual pathway supported by anatomic results



Comprehensive disease control and extended durability



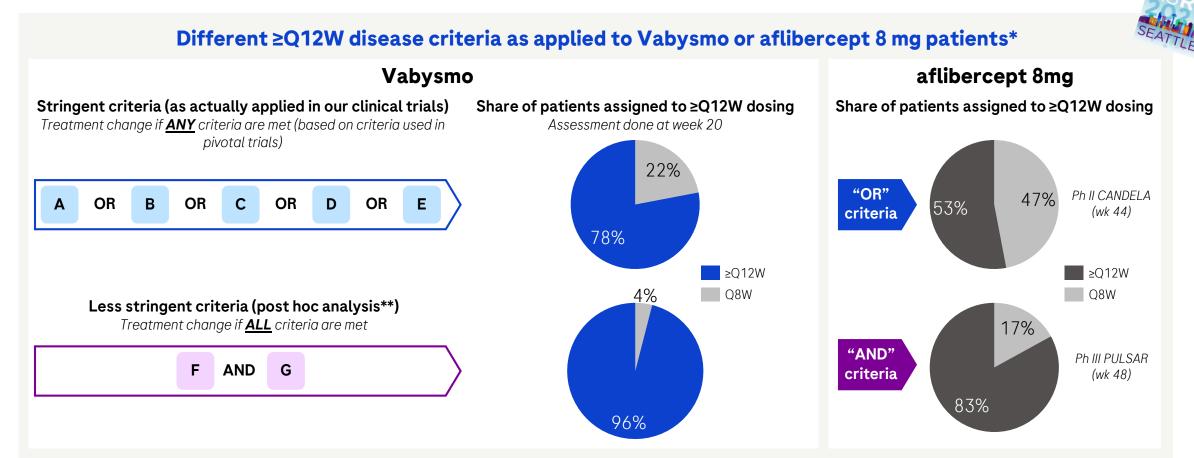


¹Dhoot et al. Macula Society 2023 Annual Meeting; ²Csaky et al. Angiogenesis 2023 Annual Meeting; ³Goldberg et al. ARVO 2023 Annual Meeting; ⁴Maunz et al. ARVO 2023; ⁵ Jaffe et al. ASRS 2023 Annual Meeting; *based on post-hoc, exploratory analysis with nominal p-value statistical analysis not adjusted for multiple testing, no formal statistical conclusions can be drawn; Ang-2=angiopoietin-2; VEGF-A=vascular endothelial growth factor A; HRF=hyper-reflective foci; ERM=epiretinal membrane; Eylea (aflibercept) is a registered trademark/product of Regeneron/Bayer

Vabysmo: Disease activity criteria chosen affect durability outcomes



Vabysmo nAMD trials use vision or anatomical disease activity criteria, reflecting clinical practice¹



- Ph III TENAYA/LUCERNE trial with stringent patient-centric criteria resulted in 22% of patients being allocated to Q8W dosing
- Using less stringent criteria, only 4% of patients would have been assigned to Q8W dosing (post hoc analysis)

^{1.} Zarbin et al. ASRS, 2023; *Criteria: A=≥5 letters BCVA loss vs avg. BCVA over previous 2 scheduled visits, due to nAMD, B=≥ 10 letters BCVA loss vs highest BCVA recorded over previous 2 scheduled visits, due to nAMD; C=>50 µm CST increase vs avg. BCVA over previous 2 scheduled visits; D=≥ 75 µm CST increase vs lowest CST recorded at either of previous 2 scheduled visits; E=Presence of new macular hemorrhage*, due to nAMD activity; F=>5 letters BCVA loss vs week 16 BCVA; G=> 25 µm CST increase vs week 16 CST or new macular hemorrhage; **Post-hoc analysis of patients dosing eligibility at week 20, patients not actually assigned based on 'and' criteria in TENAYA/LUCERNE; This analysis is not intended as a cross-trial comparison; This analysis cannot predict whether faricimab-treated patients in TENAYA & LUCERNE would have achieved non-inferiority vs aflibercept 2mg / 8mg if the treatment regimen had been modified; additional patients with a missing Week 20 assessment were considered to have met disease activity criteria and were treated Q8W; Q8W=every 8 weeks

Susvimo: Continuous 6m delivery preferred by 93 % patients vs IVT



Commercial US relaunch expected in 2024 and ex-US 2025+



Stronger vision outcomes with potential for extended ≥Q6M dosing

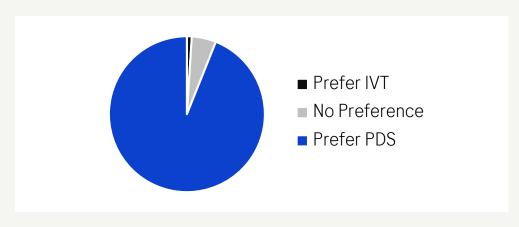


Continuous delivery of aVEGF via PD implant



refill exchanges per year

93% of patients prefer Susvimo to IVT injections¹



Ongoing development for the Port Delivery Platform

- October 2022: SUSVIMO voluntarily recalled due to manufacturing variability; root cause identified and progress made to implement technical solution
- February 2023: Positive data from pivotal Ph III studies in DME (PAGODA) and DR (PAVILLION) presented at Angiogenesis:
 - DME: Improved vision (Q6M dosing)²
 - DR: Superior improvement in ≥ 2-Step ETDRS-DRSS (Q9M dosing)³
 - Trend toward improved safety profile with evolved surgical implantation training and technique^{2,3}
- Q4 2023: Clinical trials expected to restart
 - Ph IIIb (VELODROME) assessing Q9M dosing in nAMD
 - First trials of next generation bispecifics (DutaFabs)

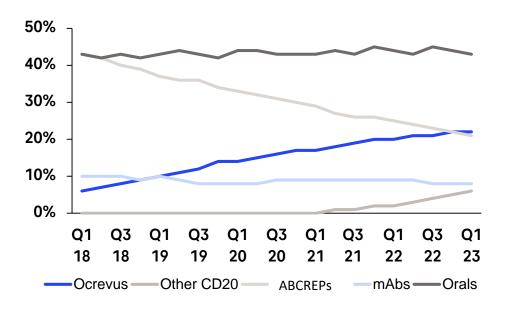
Ocrevus: Continued growth in all markets around the world



Opportunity to expand overall CD20 class and gain class share



MS total patient share (global)*



Ocrevus performance update

- Ocrevus with 22% patient share globally (>300k pts treated)
- High proportion of patients free of disease progression after 10 years of treatment highlighting importance of early treatment
- Higher retention rate than other MS medicines
- Only drug in RMS and PPMS

Outlook

- Positive Ph III (OCARINA II) results to be presented at ECTRIMS
- 10 year safety/efficacy data to be presented at ECTRIMS
- Treatment of choice for family planning: Pregnancy/lactation data to be submitted to health authorities in 2024
- Ph III (GAVOTTE/MUSETTE) Ocrevus high dose: Trials fully recruited; potential to further improve control of disability progression

Further potential to grow our MS franchise: fenebrutinib has opportunity to disrupt oral class, currently comprising >40% of the global market

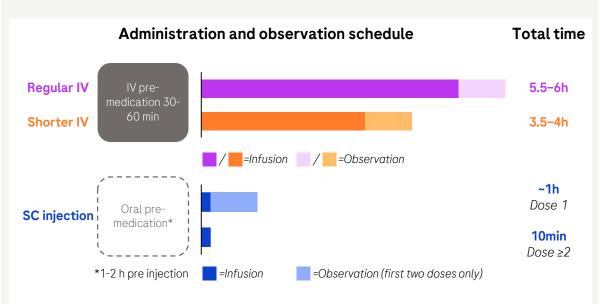
Ocrevus: Positive Ph III (OCARINA II) results for Q6M SC dosing



Further improving treatment experience and expand usage

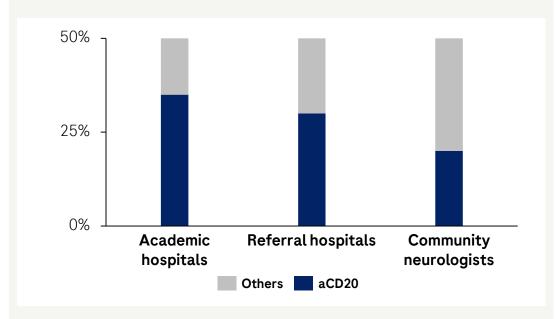


Cutting administration time from 3.5-6hrs to 10 min



- Ph III (OCARINA II) evaluating subcutaneous Q6M dosing of Ocrevus for noninferiority vs Ocrevus IV in RMS and PPMS met primary and secondary endpoints
- Ocrevus SC has the potential to enable at-home administration and increases potential for Ocrevus use in centers with IV capacity constraints
- 6m dosing drives best-in-disease compliance/retention with improved convenience while continuing to deliver equivalent safety/efficacy

US: Estimated aCD20 patient share by Tx setting*



- Academic hospitals: Strong aCD20 use, strong Ocrevus IV presence
- Referral hospitals: Ocrevus SC will enable on-site treatment, complementing already strong aCD20 use
- Community neurologists: Ocrevus SC with the potential to address low aCD20 penetration due to limited infusion capabilities

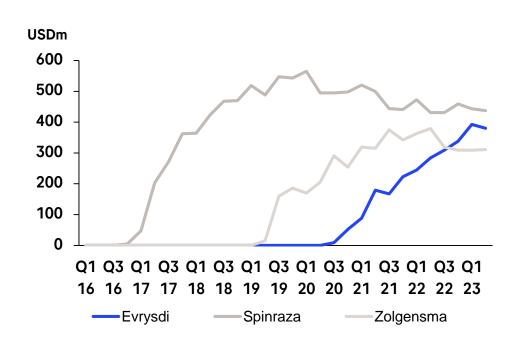
¹ Hauser S.L. et al, ACTRIMS-ECTRIMS 2020; *Source: IQVIA claims data and IQVIA NSP (Dec 2022 – May 2023); Tx=treatment, MS=multiple sclerosis; IV=intra-venous; SC=Subcutaneous; RMS=relapsing multiple sclerosis; PPMS=primary progressive MS; Q6M=dosing every 6 months

Evrysdi: Becoming a global SMA market leader

>11,000 patients treated worldwide



Worldwide SMA sales*



Evrysdi performance update

- Significant population of untreated adults remain in key markets
- >40% of patients in the US are not on any DMT
- Nearly half of Evrysdi new patients starts are treatment naïve
- Patients continue to switch to Evrysdi for the following reasons: tolerability concerns and lack/loss of efficacy (Spinraza) and hope of additional benefit (Zolgensma)¹
- EU label expansion for infants under 2 months achieved in August

Outlook

- Continued global market share gains driven by switch and naïve
- Access driving growth; Evrysdi approved in >100 countries globally

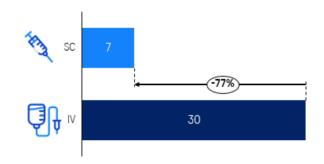
Further potential to grow our SMA franchise: Ph II/III combination trial with anti-latent myostatin mAb (GYM329) ongoing

Tecentriq: First PD-1/L1 with subcutaneous formulation



Improving convenience for patients, saving resources for healthcare systems

SC administration time (in minutes)



Roche wins first approval for subcutaneous Tecentriq

The subcutaneous formulation of Tecentriq has been approved in the UK for all indications that its intravenous counterpart has received approval.

By Phalguni Deswal

News | August 30, 2023

Tecentriq performance update

- Reaching peak share in first-in-class indications (SCLC, HCC)
- US/EU launch in adjuvant NSCLC ongoing
- Tecentrig SC: Great Britain approval in August

Outlook

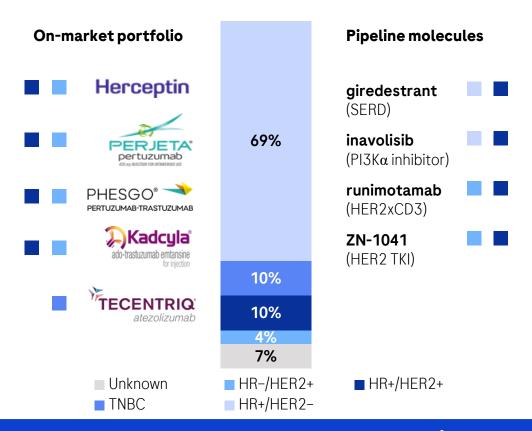
- Tecentriq SC: CHMP opinion expected in Q4; US approval delayed to 2024
- Ph III (IMvoke010) Tecentriq in adj SCCHN results expected in Q4
- Ph III (SKYSCRAPER-01) Tecentriq + tiragolumab final OS results in 1L
 PD-L1+ NSCLC expected in Q4 / Q1
- Ph III (SKYSCRAPER-14) Tecentriq + tiragolumab in 1L HCC initiated
- Ph III (IMbrave050) in adj. HCC met primary endpoint RFS, OS immature

Potential for LEs: Ph III in adjuvant SCCHN and pivotal tiragolumab combination program ongoing

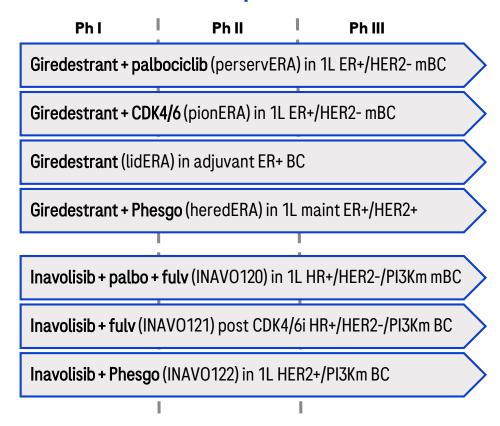
Growing portfolio in breast cancer: Expanding beyond HER2+ BC



Breast cancer cases by subtype¹



Ph III clinical development overview



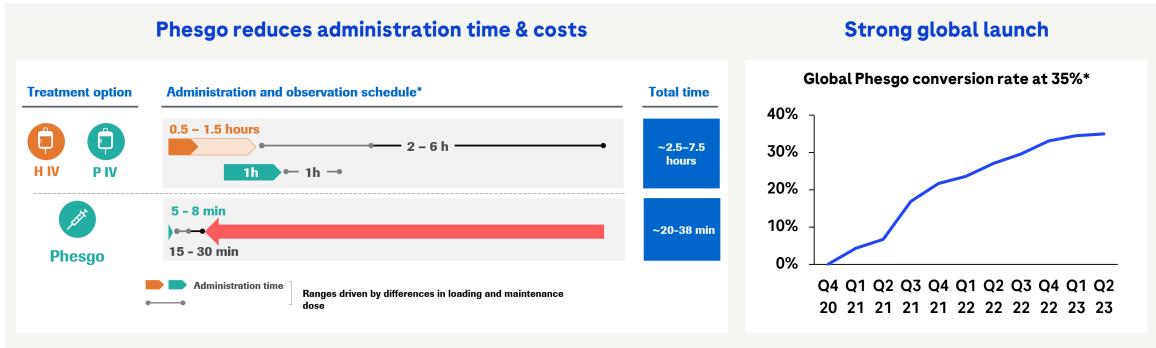
Further potential to grow our breast cancer franchise: Expanding into HR+ with two NMEs in Ph III, including in combination with Phesgo

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; HER2=Human Epidermal growth factor Receptor 2; HR=Hormone receptor; TNBC=Triple negative breast cancer; SERD=Selective estrogen receptor degrader; ER=Estrogen receptor; PI3K=Phosphoinositide 3-Kinase; TKI=Tyrosine kinase inhibitor

Phesgo: Rapid conversion in early launch countries



Significantly reducing healthcare costs and resource use

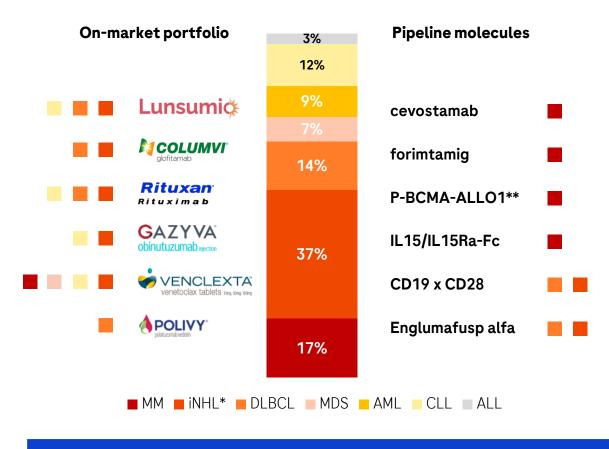


- 85% of patients preferred Phesgo for subcutaneous administration over the intravenous formulation of Perjeta and Herceptin
- Phesgo conversion rate at 35% in early launch countries; conversion in key markets: UK 92%, France, 59%, US: 19%, Germany 16%
- Phesgo expanding eBC market share
- Pivotal Phesgo on-body-injector (OBI) development ongoing

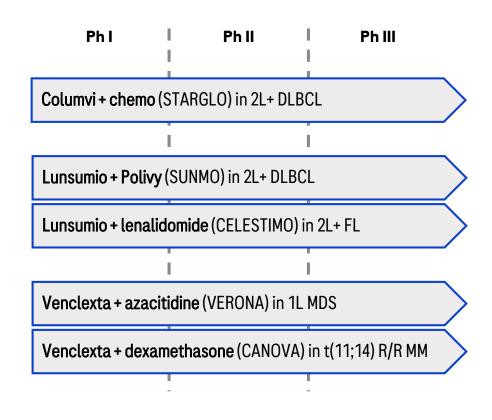
Growing portfolio in malignant hematology



Hematologic tumor cases by subtype¹



Ph III clinical development overview



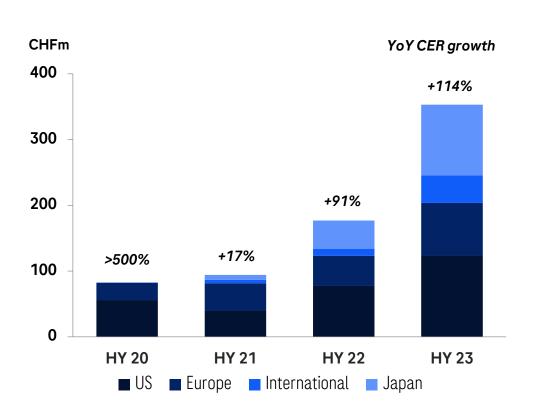
Further potential to grow our hematology franchise:
Taking Columvi and Lunsumio into earlier lines, as well as 6 NMEs into new indications

Polivy: Accelerated growth following 1L DLBCL approval



Transforming the standard of care in 1L DLBCL again after 20 years

Global Polivy sales



Polivy performance update

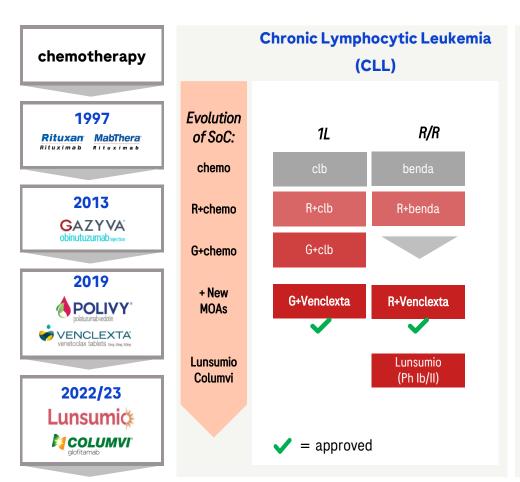
- Currently approved in >80 countries in 1L DLBCL
- Strong 1L DLBCL uptake especially in US, EU and JP
- Growing patient shares in 1L DLBCL (IPI 0-5), US 13%, Germany 21%, UK 26% and Japan 32%
- Updated treatment guidelines established Polivy as standard of care in 1L DLBCL in key markets such as US (NCCN category 1), Germany and Japan

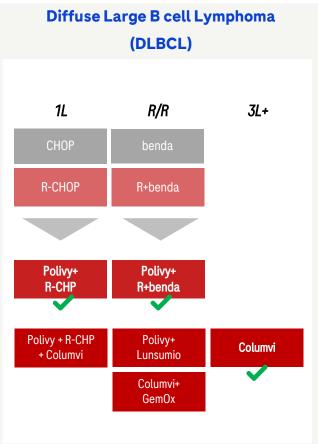
Outlook

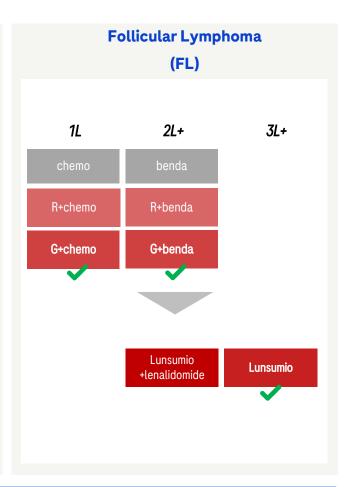
- Further growth expected driven by additional approvals and positive reimbursement decisions in EU and international markets
- Comprehensive development program, including Polivy combinations in 1L / 2L+ DLBCL with first-in-class bispecifics Lunsumio and Columvi

Hematology: Shifting the standard of care in CLL, DLBCL, and FL









Building on the standard of care with new best-in-class and/or first-in-class combinations

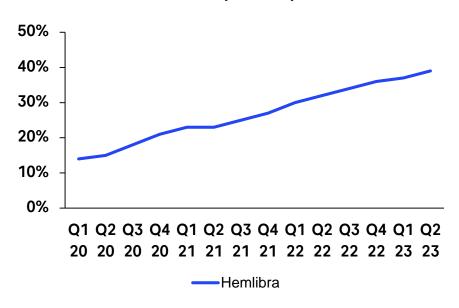
Hemlibra: Expecting continued market share gains globally





Steady patient share gains in US and globally

US/EU5 total Hemophilia A patient share



Hemlibra performance update

- ~21,000 patients treated globally
- Outstanding profile with >2/3 of patients on monthly or Q2W SC dosing and zero risk of developing inhibitors over time
- Non-inhibitor approved in >100 countries and reimbursed in 58
- Further penetration among moderate/severe patients who remain uncontrolled on FVIII ongoing; high satisfaction amongst switchers

Outlook

- Focus on access opportunities in non-inhibitors (severe and moderate); some countries already with ~70% non-inhibitor patient share (CA, UK, FR)
- Driving growth in key accounts which are below peak share potential
- Increasing international access

Further growth potential in our Hemophilia A franchise: SPK-8011 gene therapy program and NXT-007 bispecific development ongoing

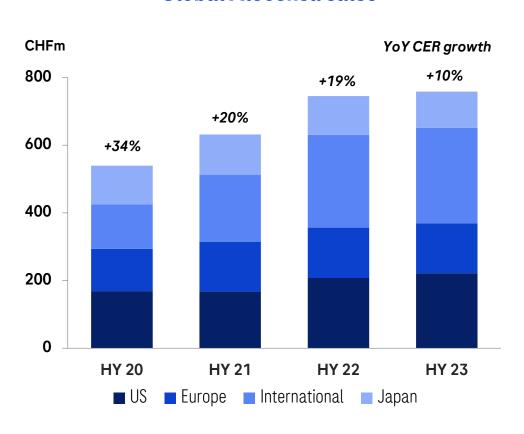
^{*} US/EU5 Patient Share within Hemlibra labelled population, source: affiliate data (UK NHS Providers, US sales volume triangulated with IQVIA claims data, DE, ES, IT field force, France volumes); Q2W= every two weeks dosing

Alecensa: Unprecedented Ph III results in adjuvant ALK+ NSCLC

Continued >70 market share with further growth potential



Global Alecensa sales



Alecensa performance update

- Market leadership in 1L ALK+ NSCLC globally established
- Growth driven by International markets

Outlook

- Continued leadership and growth in 1L ALK+ NSCLC globally
- Expanding into early disease with ~45% of all ALK+ eNSCLC patients being tested at this stage*
- Positive Ph III (ALINA) results of Alecensa in adjuvant ALK+ NSCLC results to be presented at upcoming conference; first-in-class filing ongoing
- Ph III (TAPISTRY) tumor-agnostic multi-cohort study including Alecensa ongoing

^{*} US data; ZS Primary Market Research, August 1st Release; CER=constant exchange rates; ALK=anaplastic lymphoma kinase; NSCLC=non-small cell lung cancer

2023: Key late-stage newsflow*



	Compound	Indication	Milestone	
	Hemlibra	Moderate hemophilia A	EU approval	✓
	Polivy + R-CHP	1L DLBCL	US approval	✓
Pogulatory	Vabysmo	RVO	US approval/EU filing	✓ EU filing
Regulatory	Tecentriq	Subcutaneous administration	US approval/EU filing	US 2024 / VEU filing
	Columvi (glofitamab)	3L+ DLBCL	US/EU approval	✓
	Xofluza	Influenza (paediatric 1+ yrs.)	EU approval	✓
	Tecentriq + Avastin	Adjuvant HCC	Ph III IMbrave050	✓
	Tecentriq + chemo	Neoadjuvant / adjuvant TNBC	Ph III GeparDouze/NSABP B-59	2024
	Tecentriq	Adjuvant SCCHN	Ph III IMvoke010	
	Tecentriq + chemo	Adjuvant TNBC	Ph III IMpassion030	X
	Tiragolumab + Tecentriq	1L PDL1+ NSCLC	Ph III SKYSCRAPER-01	Q4 2023 / Q1 2024
Phase III / pivotal	Tiragolumab + Tecentriq + chemo	1L esophageal cancer	Ph III SKYSCRAPER-08 (China only)	2024
	Venclexta + dexamethasone	t(11;14) R/R MM	Ph III CANOVA	
	Venclexta + azacitidine	1L high risk MDS	Ph III VERONA	
	Alecensa	Adjuvant ALK+ NSCLC	Ph III ALINA	✓
	Phesgo OBI (on body injector)	HER2+ BC	Ph I (pivotal)	
readouts	Crovalimab	PNH	Ph III COMMODORE 1/2	✓
	Columvi + GemOx	2L+ DLBCL	Ph III STARGLO	2024
	Lunsumio + Polivy	2L+ DLBCL	Ph III SUNMO	2024
	Elevidys (Delandistrogene moxeparvovec)	DMD	Ph III EMBARK	
	Ocrevus 6m SC	RMS / PPMS	Ph III OCARINA II	✓
	TNKase	Stroke patients 4.5-24h	Ph III TIMELESS	X
	Susvimo	DME	Ph III PAGODA	✓
	Susvimo	DR	Ph III PAVILION	✓
	Xolair	Food allergy	Ph III OUtMATCH	

Additional 2023 newsflow:

- Fenebrutinib: Positive Ph II (FENopta) results in RMS
- Elevidys US approval in DMD for 4 and 5 years old (Sarepta)
- Tiragolumab + Tecentriq + Avastin: Positive Ph I/II (MORPHEUS) results in 1L HCC
- Inavolisib + palbociclib + fulvestrant Ph III (INAVO120) data expected Q4 2023



Pharma Update

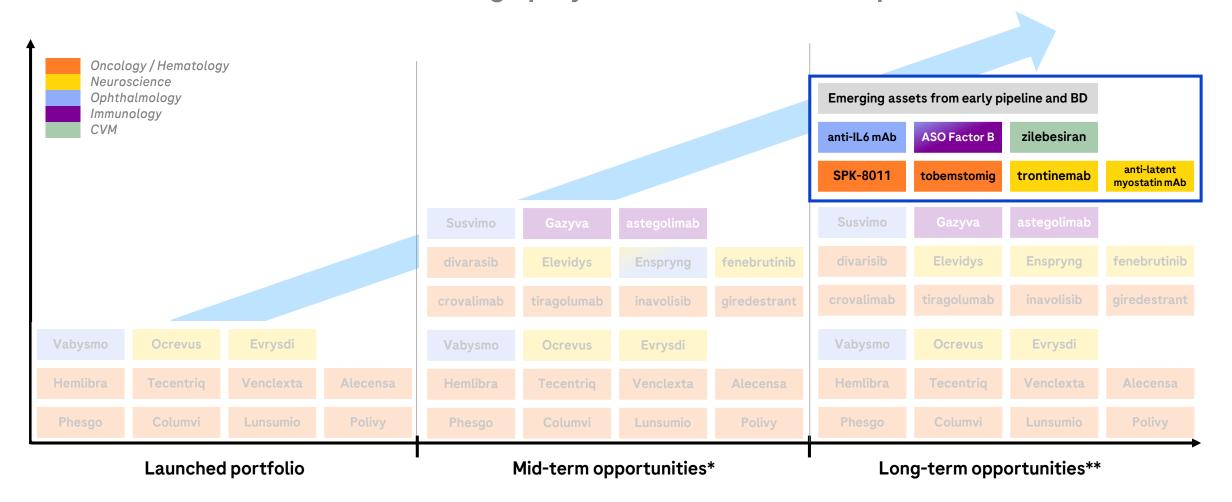
On-Market Portfolio With Further Growth Potential

Significant Growth Opportunities Ahead

Building blocks for future growth through 2030



Several mid-term in-house late-stage projects that can deliver upside

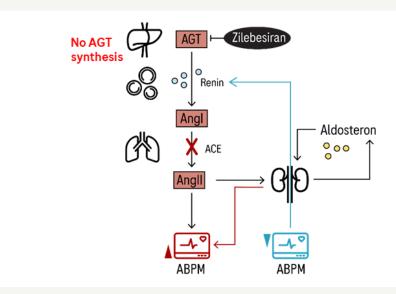


Adding to in-house opportunities through BD



Successful track record of disrupting the SoC and building new franchises

Zilebesiran (siRNA targeting AGT)



- siRNA targeting AGT, the precursor protein of all angiotensin peptides
- Consistent + durable BP control with potential for improved adherence
- Ph II (KARDIA-1/2) development program ongoing; positive KARDIA-1 results to be presented at upcoming scientific conference; KARDIA-2 data expected in early 2024

Our proven strengths



Strong track record of entering new therapeutic areas and disrupting established markets



Expertise in advancing inclusive research to address health equity in



Strong Pharma & Diagnostics partnerships with health systems allow for integrated disease management solutions



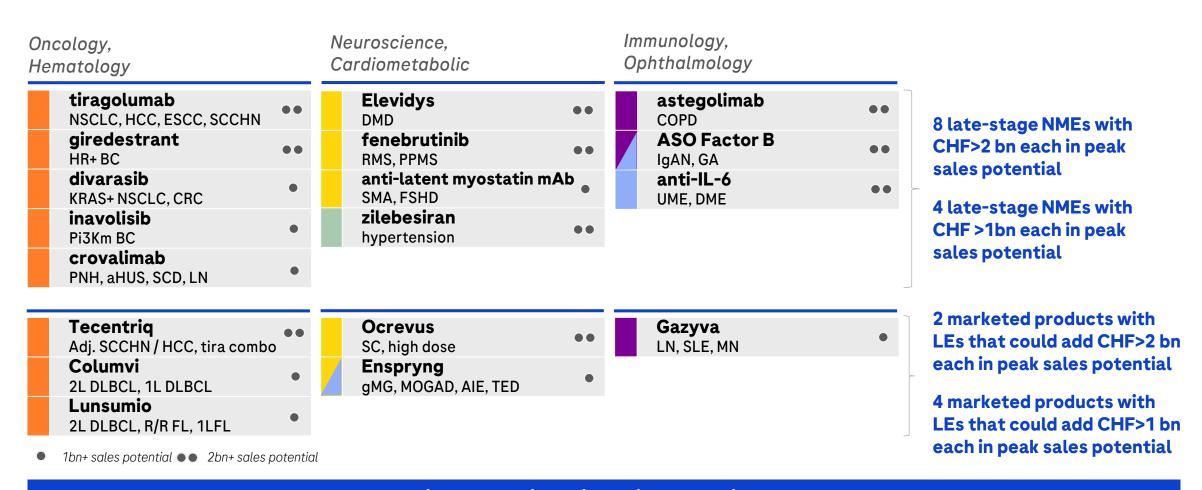
Integrated commercialization expertise utilizing an innovative customer engagement model



Prowess in access and policy shaping differentiates Roche in the industry

Key late-stage pipeline assets with 1bn+ sales potential*





Trial populations listed in appendix table

*8 with 2bn+ opportunities; LE=line extensions



Late Stage Pipeline Oncology (Solid Tumors)

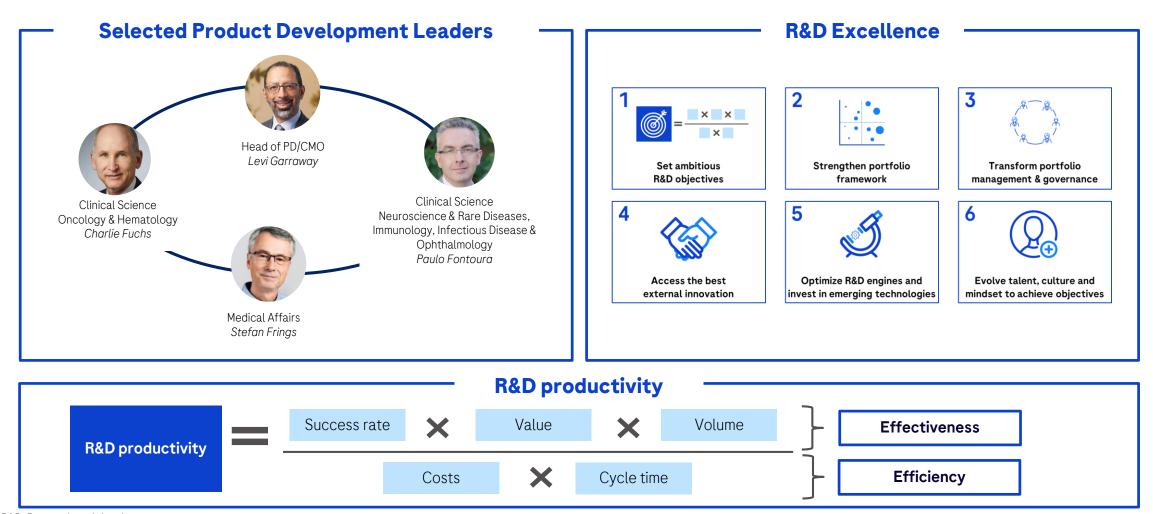
Levi Garraway

EVP, Head of Global Product Development and Chief Medical Officer

Product Development



Continued commitment to delivering the worlds most impactful medicines



R&D=Research and development 69

Strategic pillars of oncology













Precision medicine

Right medicines at the right patient

Early disease

Early diagnosis and treatment increases the chance for cure

Novel immunotherapy

Need more options for patients who have progressed on prior treatment

Rational combinations

Leverage breadth of oncology portfolio to explore new combinations

New modalities

Invest in potentially transformative science

Recent/emerging examples

inavolisib

INAVO120 (1L HR+ Pi3Km BC) data expected 2023

divarasib

Recently published data in NEJM

Alecensa

ALINA (adj ALK+ NSCLC) positive data

giredestrant

Potential to replace ET in eBC (and mBC)

tiragolumab + Tecentriq

Ph III in 1L HCC initiated

Tombestomig (PD1 x LAG3)

Multiple Ph II trials initiated (e.g. mUC, NSCLC, RCC)

Polivy + Columvi +R-CHP

Ph III trial in 1L DLBCL to be initiated

giredestrant + Phesgo

HeredERA (1L HER2+/HR+ BC)

AR Degrader

Ph I trial in mCRPC with FPI in O2

PROTAB

Recent paper published in Nature





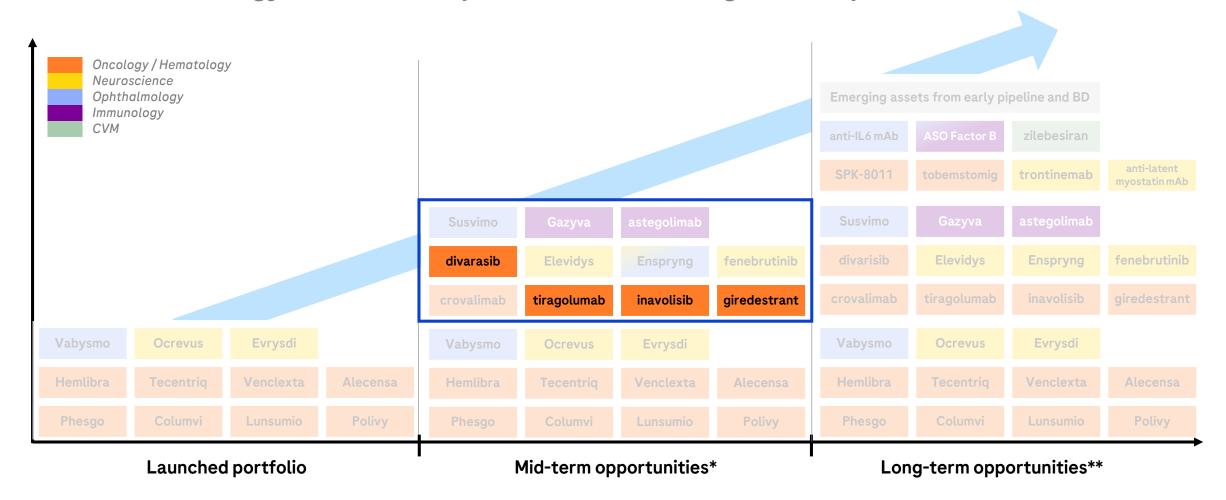
A leading portfolio differentiated on targets and modalities

ı	Ph I (26 NMEs)		Ph II			Ph III			Launched
RG6156	EGFRvIII x CD3	RG6058	tiragolumab			tiragolumab	***	DO (050	Alecensa
RG6185 RG6189	belvarafenib (pan-RAF inh) FAP-CD40	RG6058	Multiple indications	4.4	RG6058	Multiple indications	ma franch	RG6058	1L ALK+ NSCLC
RG6194	runimotamab (HER2 x CD3)	dhe							W 1 1
RG6279	eciskafusp alfa (PD1-IL2v)	RG6139	tobemstomig Solid tumors	ಯ್ಯಾಹಿಂದೆ	RG6114	inavolisib HR+ mBC	**	RG3502	Kadcyla HER2+ BC
RG6286	undislcosed		Solia tulliois	O,ÇO		HK+ MBC			TILITE: DO
RG6292	CD25 MAb		autagana aayyimaran						Perjeta
RG6323	IL15/IL15Ra-Fc	RG6180	autogene cevumeran 1L melanoma	on jour	RG6171	giredestrant HR+ BC		RG1273	HER2+ BC
RG6344	BRAF inhibitor (3)	mRNA	12 110 (3110 113			7.11 DG	34		
RG6353	HLA-G x CD3			a		divarasib	*	DC/2/4	Phesgo
RG6411	undisclosed			az poš	RG7440	2L NSCLC	0)	RG6264	HER2+ BC
RG6433	SHP2i								
RG6440	TGFβ (SOF10)	Small molecule		100	D07F00	Kadcyla	**************************************	RG7446	Tecentriq
RG6524	DLL3 trispecific		u molecule	704	RG3502	HER2+ eBC high risk	Oy	1107440	Multiple indications
RG6526 ¹	camonsertib	Antil 🔳	ody		RG7446	Tecentriq Multiple indications	w _a jbod	RG6268	Rozyltrek ROS1+ & NTRK+ NSCLC
RG6537	AR Degrader								
RG6596 ²	ZN-1041 (HER2 TKI)	Bisp	ecifics/Trispecifics						
RG6614 ³	KSQ-4279 (USP1 inh)	Neoa	antigen vaccines	24 j	RG6058	Alecensa ALK+ NSCLC adj			
RG7802	cibisatamab FAP-4-1BBL	mRNA	anagen vaccines						
RG7827 CHU		Fusio	on protein	40 \$		ALK+ NOCLO auj			
CHU	glypican-3 x CD3 codrituzumab								
CHU	CD137 switch antibody	Antil	oody drug conjugate						
CHU	RAS inhibitor	Cycl	ic peptides						
CHU	SPYK04	The state of the s	L-L						
CHU	SAIL66								
CITO	ONILOU								

Building blocks for future growth through 2030



4 NMEs in oncology with FIC/BIC potential in late stage development

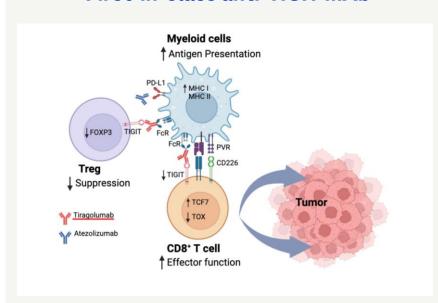


Tiragolumab development program continues to expand



Continued confidence in anti-TIGIT biological activity based on numerous evidence to date

First-in-class anti-TIGIT mAb



- Tiragolumab blocks the binding of TIGIT to its ligand PVR
- Tiragolumab activates T-cells and also modifies the tumor microenvironment by decreasing suppressive T-regs and activating myeloid cells via its intact Fc region
- This could lead to an enhanced anti-tumor immune response when combined with PD-L1 blockade

Clinical development program

	Indication	Ph I Ph II Ph III	
<i>a</i> la	1L NSCLC: PD-L1 high	SKYSCRAPER-01	Results in Q4/Q1
	Stage III unres. NSCLC	SKYSCRAPER-03	
Lung cancer	Neoadj / Adj NSCLC	SKYSCRAPER-05	
	1L NSq NSCLC	SKYSCRAPER-06	
R	1L uHCC	SKYSCRAPER-14 / IMbrave 152	
[م]	Locally advanced ESCC	SKYSCRAPER-07	LPI in Q3
GI/GU cancer	1L ESCC	SKYSCRAPER-08	Results in H1 2024
*	2L+PD-L1+Cervical Ca	SKYSCRAPER-04	Results in H2 2023
Other solid tumors	1L SCCHN	SKYSCRAPER-09	
***************************************	Fixed Dose Combination	SKYSCRAPER-11	
Formulations	Subcutaneous		

- Comprehensive development program ongoing
- Ph III SKYSCRAPER-14/IMbrave152 in 1L unresectable HCC initiated
- Ph III SKYSCRAPER-01 continues to the final OS analysis expected in Q4/Q1 (event-driven)

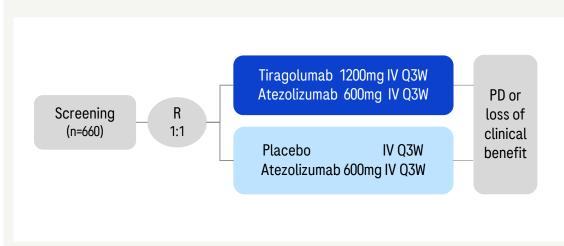
Tiragolumab in 1L NSCLC and 1L HCC



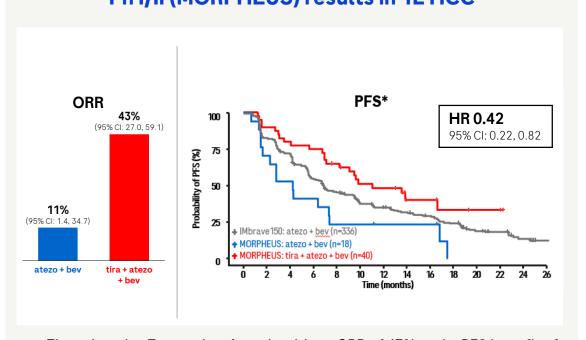
SKYSCRAPER-01 continues to final OS analysis; Ph III in HCC initiated

Ph I/II (MORPHEUS) results in 1L HCC

Ph III (SKY-01) trial design in 1L PDL1+ NSCLC



- At the 1st interim primary PFS endpoint not met; however, a numeric improvement was observed in both PFS and OS and curves were separating
- Inadvertent disclosure of 2nd interim analysis of SKYSCRAPER-01: study is ongoing and remains blinded to patients and investigators
- We are continuing the study as planned until the final analysis for overall survival
- At the 2nd interim OS was immature with a mOS of 22.9m for tiragolumab + Tecentriq vs 16.7m for Tecentriq (HR=0.81); no new safety signals



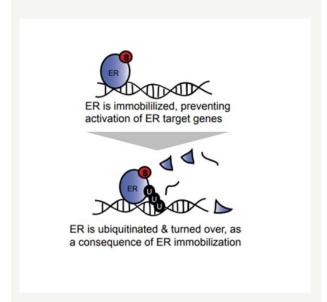
- Tiragolumab + Tecentriq + Avastin with an ORR of 43% and a PFS benefit of 58% (HR=0.42)
- Treatment benefit supported by benchmarking vs Ph III IMbrave 150 data
- No new safety signals

Giredestrant in HR+ breast cancer



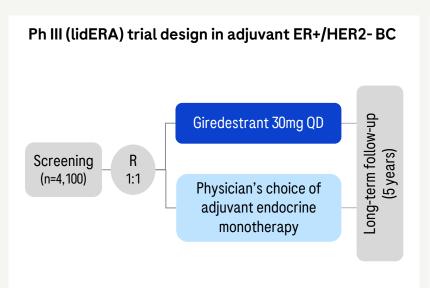
Potential new endocrine backbone potential across eBC and mBC

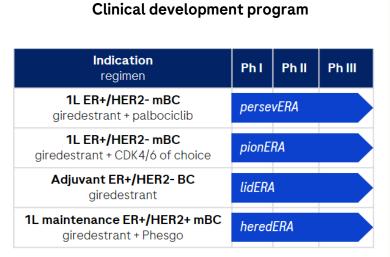
Selective ER degrader (SERD)



- Highest preclinical potency vs. other oral SERDs in development
- Combinable with all CDKis including: palbociclib, abemaciclib, ribociclib
- Well tolerated at all doses, with no dose-limiting toxicity

Broad development program in eBC and mBC



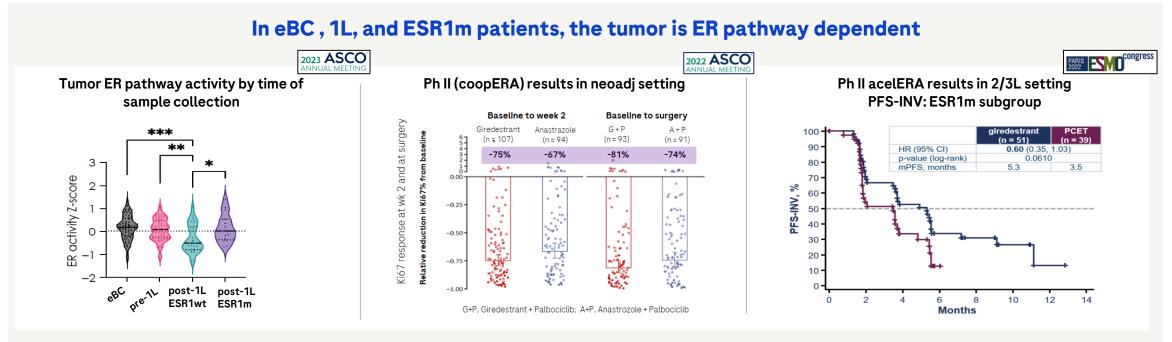


- Girdestrant has the potential to be best-in-class backbone endocrine agent in HR+ BC, either used alone or in combination, replacing standard of care (aromatase inhibitor, fulvestrant or tamoxifen)
- A single-arm lidERA substudy will investigate giredestrant + abemaciclib in high risk eBC patients; lidERA is ~1 yr ahead of other oral SERD competition in eBC
- Initiated additional Ph III (pionERA) trial in 1L mBC (girdestrant + CDK4/6 of choice vs. fulvestrant + CDK4/6 of choice)
- First results from Ph III persevERA (1L mBC) expected in 2025





Tumor response is correlated with higher tumor ER activity



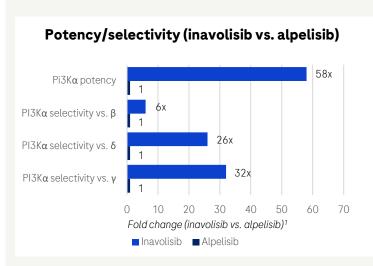
- Exploratory biomarker analysis of acelERA: Post 1L treatment, ER activity was maintained in patients with ESR1m tumors at levels similar to early BC and pre-1L, while activity was significantly lower in late-line patients with no ESR1 mutation
- Ph II (coopERA) in neoadjuvant setting: Final analysis confirmed greater suppression of Ki67 and rates of complete cycle arrest with giredestrant vs.
 anastrazole at time of surgery; Ki67 is a biomarker of proliferation associated with improved long-term efficacy outcomes in early stage disease
- Ph II (acelERA) in 2/3L setting: PFS benefit more pronounced in patients with baseline ESR1 mutations (HR 0.61 in ESR1m patients vs. HR 0.81 in all-comers)
 - Majority of 2L/3L patients appear to be no longer sensitive to endocrine inhibition but ESR1m patients' tumors are still dependent on ER signaling

Inavolisib in PI3K-mutant breast cancer



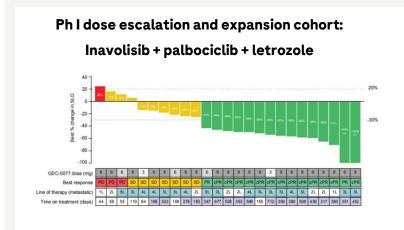
H2H trial vs alpelisib initiated; Ph III (INAVO120) results in 1L expected Q4 2023

Potential best-in-class PI3Kα inh



- Differentiated from existing PI3K inhibitors:
 - More potent and selective for PI3Kα subunit
 - Better in vivo efficacy
 - Greater safety margins allow for combination with ET and palbociclib at standard doses
- 40% of HR+/HER2- patients with *PI3K* mutations

Potential for differentiated safety, efficacy, and combinability





Clinical development program

- Strong efficacy and favorable safety as single agent or in combination with ET +/- CDK4/6i in patients with *PI3K*-mutant HR+ breast cancer
- Ph III INAVO120 in 1L HR+/PI3Km mBC data expected in Q4 2023
- Ph III INAVO121 post-CDKi (head-to-head vs. alpelisib) achieved FPI in Q2
- Ph III INAVO122 in 1L HER2+/PI3Km BC (combination with Phesgo) achieved FPI in Q3

ZN-1041 in HER2+ BC with brain metastases





Building on HER2+ breast cancer franchise, exploring novel combinations

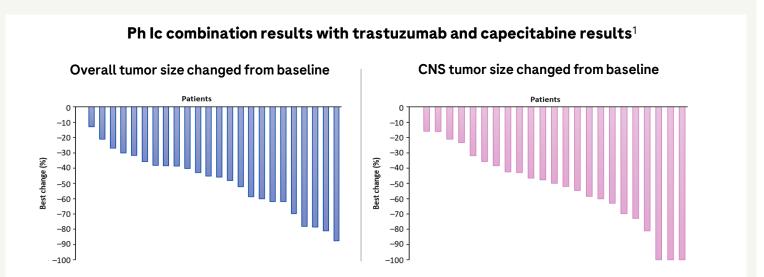


Potential best-in-class HER2 TKI

ТКІ	AUC _{br,u} /AUC _{pl,u}	Efflux transporter (P-gp/BCRP) substrate?
Tucatinib	0.004	Yes
Lapatinib	0.010	Yes
Neratinib	0.013	Yes
Pyrotinib	0.024	Yes
Epertinib	0.080	Yes
ZN-1041	0.470-0.770	No

- Differentiated by high blood-brain-barrier permeability and CNS retention
- ZN-1041 is not effluxed by P-gp and BCRP transporters, resulting in better CNS retention (>100-fold vs. tucatinib)¹

Encouraging preliminary activity and safety



- Well tolerated and promising GI safety profile observed compared to other HER2 TKIs
- May be combined with other established anti-HER2 backbones (e.g., Phesgo, Kadcyla, Enhertu) to improve efficacy outcomes, for both prevention and treatment of brain metastases
- Ph I trial in patients with HER2+ breast cancer ongoing

¹ Ma F, et al., ASCO 2023; BC=breast cancer; TKI=tyrosine kinase inhibitor; CNS=central nervous system; AUC=area under the curve; BCRP=breast cancer resistance protein; P-gp=P-glycoprotein; GI=gastrointestinal; HER2=Human Epidermal growth factor Receptor 2

Divarasib in KRAS G12C-mutant tumors



Potential best-in-class molecule; Ph II/III in 2L NSCLC ongoing

21 + CRC

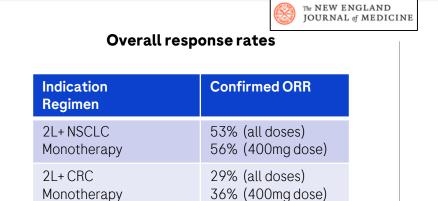
Divarasib + cetuximab

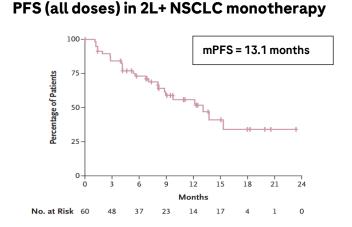


KRAS G12C inhibitor

- Divarasib is an irreversible covalent inhibitor of mutant KRAS G12C protein resulting in a locked inactive conformation
- Best-in-class potential being more potent and selective in vitro than sotorasib and adagrasib

Best-in-class potential supported by early clinical data





- Robust clinical benefit in patients with KRAS G12Cm NSCLC and CRC as monotherapy and in combination
- Manageable safety with reversible adverse events across tumor types

62%

- Pivotal Ph II/III trial in 2L NSCLC (BFAST) with divarasib cohort ongoing
- Ph Ib trials in 1L NSCLC (KRASCENDO) in combination with pembrolizumab and in 1L, 2L CRC (INSTRINSIC) in combination with cetuximab +/- FOLFOX/FOLFIRI) initiated

DNA Damage Response (DDR)

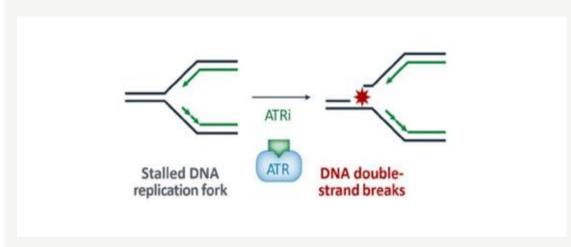






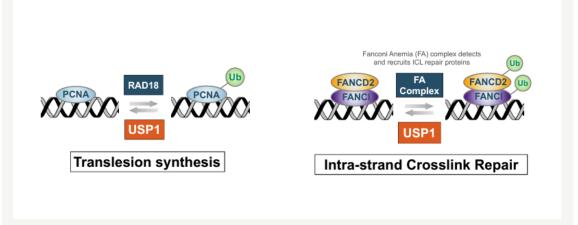
Building a diversified and differentiated portfolio in DDR

Camonsertib (ATR inhibitor)



- ATR is a key mediator of cellular DDR and is activated in response to DNA replication stress
- Preclinical studies suggest camonsertib to be more selective and potent vs. other ATRi in development with best-in-class potential
- Ongoing PhI/II (TRESR) demonstrated monotherapy responses in multiple tumors (ovarian, breast, prostate) including patients who received prior PARPi and prior platinum chemotherapy
- Currently investigated as monotherapy and in combo with various agents

KSQ-4279 (first-in-class USP1 inhibitor)



- USP1 is involved in DNA damage repair processes through mechanisms distinct from both PARPi and other targeted therapies
- KSO-4279 is a first-in-class small molecule inhibitor of USP1
- Combination with PARPi demonstrated strong activity in PARP naïve and PARP resistant mouse models
- Ph I trial in patients with advanced solid tumors ongoing





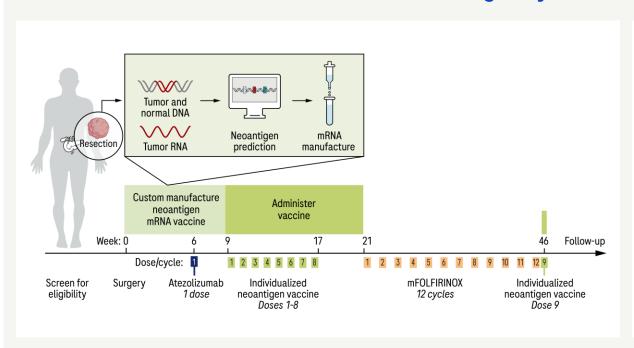


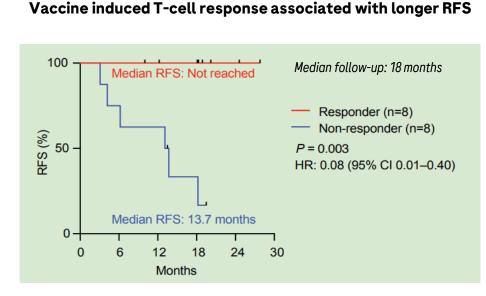
Neoantigen vaccine: Autogene cevumeran

Substantially and durably expanded T-cells, correlating with delayed recurrence



Phase I results in surgically resectable PDAC (target n=20)





- Autogene cevumeran expanded polyclonal IFNγ-producing neoantigen-specific CD8 + T-cells in 50% (n = 8/16) of patients from undetectable levels to large fractions (median 2.9%) of all blood T-cells
- Randomized trial in PDAC initiated, FPI expected Q3 2023
- Planning to initiate additional studies in other tumors

Advancing new modalities across key oncology pathways



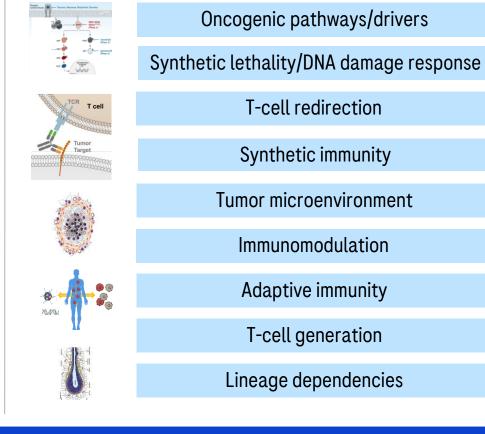


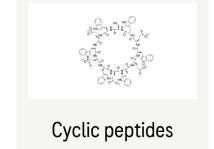
trispecifics



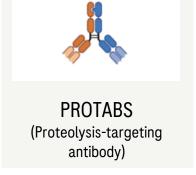
vaccines











Explore biology of early disease and transform treatment of cancer



Late Stage Pipeline Hematology

Charles Fuchs

SVP - Global Head of Hematology and Oncology Product Development

Roche: A leader in malignant and non-malignant hematology





Launching new standards of care

- Hemlibra in hemophilia A
- Polivy + R-CHP in 1L DLBCL
- Lunsumio in 3L+FL
- Columvi in 3L+ DLBCL



Investing in growing & new indications

- Established leader in DLBCL, FL, CLL and hemophilia A
- Expansion potential in malignant (AML, MM, MDS, MCL) and in nonmalignant hematology (PNH, aHUS, SCD)



Broad portfolio enables novel combinations

- 7 medicines on the market and 10 NMEs in clinical development
- Novel combinations in NHL (e.g. Polivy + CD20xCD3 bispecifics; Columvi + costimulatory molecules)



Exploring different modalities

- Bispecific antibodies
- Antibody drug conjugates
- Recycling antibody technology
- Gene therapy
- Allogeneic CAR-T



Improving patient / provider experience

- Fixed duration
- Simple dosing schedule
- Off-the-shelf availability
- Outpatient administration

Broad hematology pipeline enabling novel combinations



A pioneer in bispecific antibodies and antibody drug conjugates

	Ph I			Ph II			Ph III		R	egistration
RG6076	englumafusp alfa Heme tumors		RG6026	Columvi 1L ctDNA high risk DLBCL		RG6026	Columvi 2L+ DLBCL		RG6107	crovalimab PNH
RG6160	cevostamab r/r MM		RG6107	crovalimab SCD		RG7828	Lunsumio 2L+ FL & 2L+ DLBCL			Launched
RG6234	forimtamig MM		RG6357	dirloctogene samoparvovec Hemophilia A		RG6107	crovalimab aHUS		RG6026	Columvi 3L+ DLBCL
RG6323	IL15/IL15Ra-Fc Heme tumors				an de la company	RG7601	Venclexta r/r MM & 1L MDS		RG7828	Lunsumio 3L+ FL
RG6333	CD19 x CD28 r/r NHL	an in the second	Sma	ll molecule				7.0°C	RG7596	Polivy 1L & r/r DLBCL
RG6512	FIXa x FX Hemophilia			body				od pod	RG7601	Venclexta CLL & AML
RG6538*	P-BCMA-ALLO1 MM			ecifics e therapy					RG6013	Hemlibra Hemophilia A
RG6026	Columvi Heme tumors			on protein					RG7159	Gazyva CLL & FL
RG7828	Lunsumio Heme tumors	**		body drug conjugate geneic CAR-T cells					RG105	MabThera DLBCL, FL & CLL



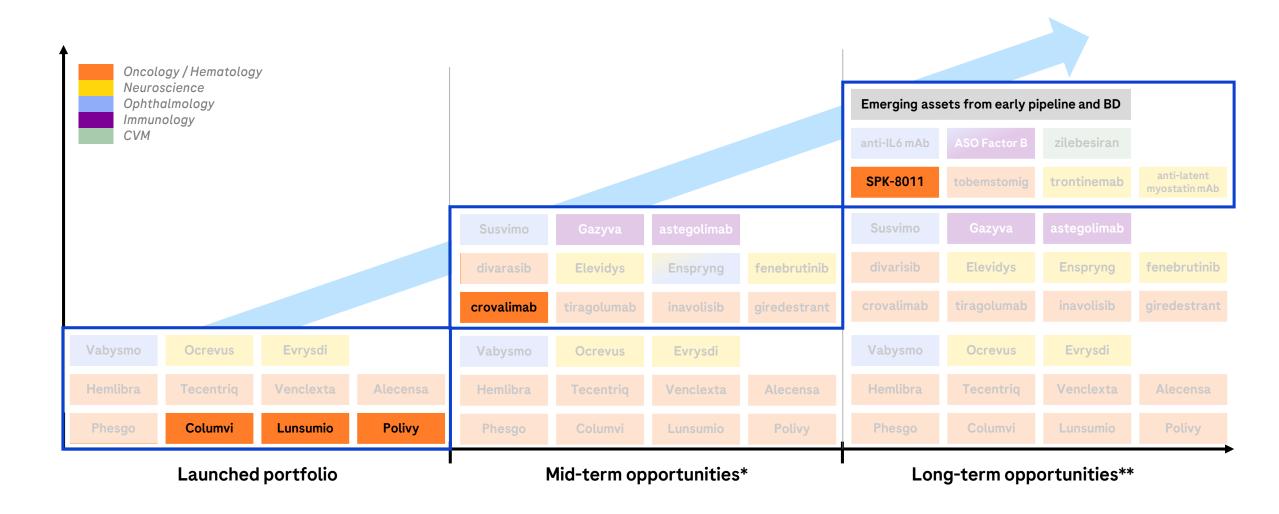
Update late-stage hematology pipeline

Malignant hematology: B-cell malignancies

Non-malignant hematology: PNH, Hemophilia A

Building blocks for future growth through 2030







Update late-stage hematology pipeline

Malignant hematology: B-cell malignancies

Non-malignant hematology: PNH, Hemophilia A

Polivy + R-CHP to become a new SOC in 1L DLBCL

Roche POLIVY polatuzumab vedotin

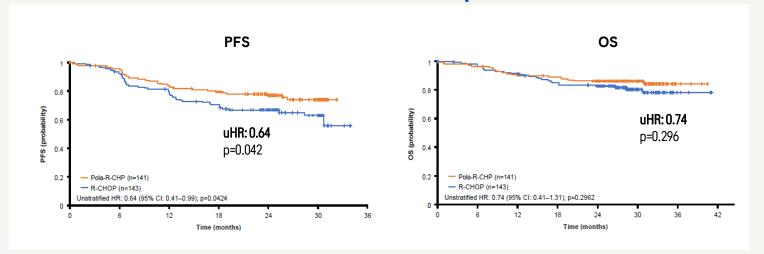
POLARIX subgroup data confirm benefit in elderly patients

Polivy + R-CHP first new treatment in >20 years in 1L DLBCL

Patients Previously untreated DLBCL Aged 18–80 years IPI 2–5 ECOG PS 0–2 PATIENT (POLARIX) trial design Polaruzumab vedotin (1.8mg/kg)* R-CHP + vincristine placebo Rituximab 375mg/m² 375mg/m² Cycles 7 & 8

- Sustained PFS benefit for Polivy+R-CHP (HR 0.76)
 vs. R-CHOP (mFU 39.7 mo)
- Safety comparable with that of R-CHOP
- Off-the-shelf and fixed duration treatment
- For all treatment settings, including community
- Approved in >80 countries
- Ph III Columvi+Polivy+R-CHP to initiate in 2023

Ph III (POLARIX) subgroup of ~280 patients (median age 74 yrs), similar baseline characteristics compared to ITT



- Clinically meaningful improvement in PFS with a uHR of 0.64 for Polivy+R-CHP vs R-CHOP
- OS data immature with a trend for reduction in the risk of death with a uHR of 0.74
- Similarly high treatment exposure across both treatment arms, highlights the tolerability of the Polivy+R-CHP regimen in elderly patients
- The safety profile of Polivy+R-CHP in patients aged ≥70 years with 1L DLBCL was generally similar to that of R-CHOP and consistent with that reported for the overall population aged 18-80 years

Lunsumio and Columvi: Tailored to address diverse patient and healthcare system needs in off-the-shelf approach



Approved in 3L+ follicular lymphoma

Lunsumio

- High CR rate and durable responses
- Favorable tolerability with low grade CRS
- No required hospitalization

For outpatient setting, indolent disease (FL) and elderly/unfit patients

Approved in 3L+ diffuse large B cell lymphoma

Columvi

- Best in class efficacy potential, high CR rates and durable responses comparable to CAR-Ts
- Well tolerated with low grade, predictable CRS; low rate of ICANS and discontinuations
- Minimal CRS in 1L DLBCL combined with R + chemo

For aggressive disease (1L DLBCL, R/R DLBCL, MCL)

CD20 x CD3 development program moving into earlier lines

Regimen	Indication	Ph I Ph II Ph III	
Lunsumio	3L+ FL		✓ US/EU approved
Lunsumio + Polivy	2L+ DLBCL (SCT-ineligible)	SUNMO	Readout 2024
Lunsumio + lenalidomide	2L+ FL	CELESTIMO	
Lunsumio	r/r CLL		
Lunsumio	1L DLBCL (elderly/unfit)		
Lunsumio + Polivy	1L DLBCL (elderly/unfit)		
Regimen	Indication	Ph I Ph II Ph III	
Columvi	3L+ DLBCL		✓ US/EU approved
Columvi + GemOx	2L+ DLBCL (SCT-ineligible)	STARGLO	Readout 2024
Columvi + CD19x4-1BBL	r/r NHL		
Columvi + CD19xCD28	r/r NHL		
Columvi + Polivy + R-CHP	1L DLBCL		Ph III to initiate in 2023

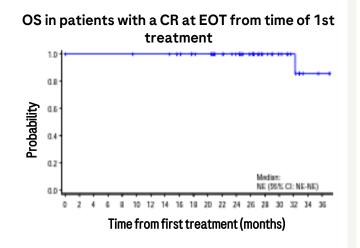
 Ph III readouts for Columvi + GemOx in 2L+ DLBCL (STARGLO) and Lunsumio + Polivy in 2L + DLBCL (SUNMO) expected 2024

Lunsumio: Durable efficacy with a manageable safety profile in patients with 3L+ FL after > 2 years of follow-up



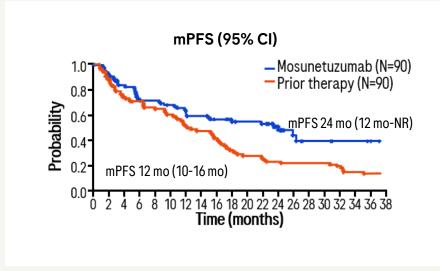
Pivotal Ph II (GO29781) in 3L+ FL

Efficacy summary	IRC N=90
CR rate, n (%)	54 (60)
ORR, n (%)	72 (80)
mPFS, mo (95% CI)	NE (26.3-NE)
Median follow-up, months (range)	28.3 (2–38)
24-mo DoCR rate, % (95% CI)	65 (39-90.5)
Median DoCR, months (95% CI)	NE (23.2-NE)



- Clinically meaningful outcomes in heavily pretreated r/r FL patients with a CR rate of 60% and median DoCR not reached; 24-month DoCR rate at 65%
- 24-month OS rate was 100% in patients with CR at EOT with mOS not reached
- No mandatory hospitalization; manageable safety and CRS (mostly low grade and during C1)
- Fixed-duration treatment: 8 cycles if CR after C8; 17 cycles if PR/SD after C8

Exploratory analysis of pivotal Ph II: Lunsumio versus last prior therapy¹



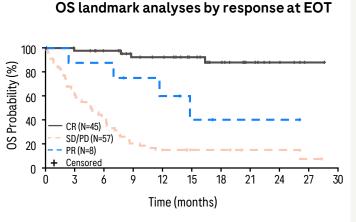
- Exploratory analysis demonstrated a 12-month improvement in mPFS with Lunsumio vs last prior therapy in the same patients despite being treated in later lines¹
- Similarly, DoCR was extended with mDoCR not reached with Lunsumio vs 15 months with last prior therapy

Columvi: Durable remissions achieved in 3L+ DLBCL with fixed-duration therapy

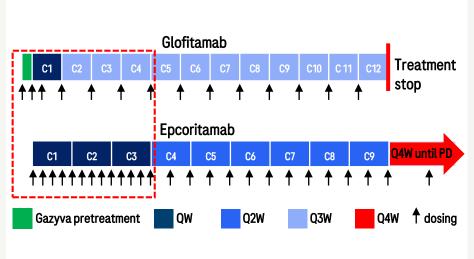


Pivotal Ph II (NP30179) in 3L+ DLBCL

Efficacy summary	IRC N=155*
CR rate, n (%) [95% CI]	62 (40) [32.2-48.2]
ORR, n (%) [95% CI]	80 (52) [43.5-59.7]
Median follow-up, months (range)	18.2 (0–33)
Ongoing CRs, n/N (%)	42/62 (68)
Median DoCR, months (95% CI)	26.9 (18.4-NE)



Columvi: Fixed duration and simple dosing schedule



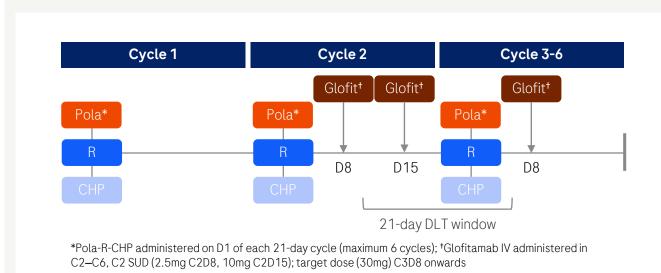
- *Intent-to-treat population; CI, confidence interval; NE, not estimable.
- Clinically meaningful outcomes in highly refractory r/r DLBCL patients with a CR rate of 40% and a median DoCR of 26.9 months following a fixed treatment
- Highly durable responses with 70% of patients with a CR at any time remaining in remission at 18 months post-EOT
- Majority of patients (92%, 30/45) with a CR at EOT are alive at 12 months after EOT
- Following step up dosing in C1, glofitamab is administered in a simple Q3W schedule, with fixed treatment duration of 12 cycles (= 8.5 months)
- Fixed-duration treatments help to avoid long term side effects, are convenient, and generate savings for the healthcare system

Columvi + Polivy + R-CHP in 1L DLBCL early data encouraging



Building upon POLARIX to address remaining unmet need

Ph I study design



Patient characteristics

- 24 patients enrolled, received study treatment**
- Median age 65.0 years
- Majority of patients had a high tumor burden

Endpoint assessment criteria

 Response rate assessed by PET-CT¹

Key inclusion criteria

 Aged ≥18 years, ECOG PS 0-3, IPI score 2-5

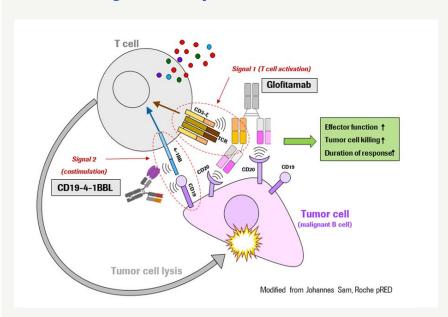
- Encouraging Ph I data with Columvi + Polivy + R-CHP demonstrating high CMR rates, irrespective of baseline IPI score, no patients had progressive disease
- Initiating treatment with Polivy + R-CHP (debulking) was associated with a low rate and mild severity of CRS (3 patients with G1 CRS only)
- More mature data to be presented at upcoming conference
- Ph III Columvi + Polivy+ R-CHP in 1L DLBCL to be initiated 2023

Englumafusp alfa (CD19-4-1BBL) in r/r NHL



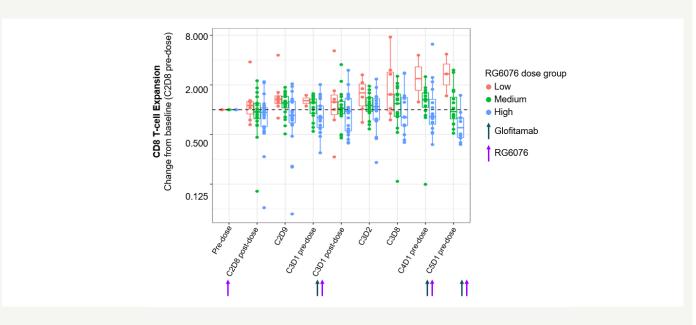
First-in-class B cell-targeted costimulatory T cell agonist

Englumafusp alfa + Columvi



- Signal 1: NK or T cell activation delivered by Columvi
- Signal 2: CD19-4-1BBL leads to enhanced NK and T cell activation and promotes a durable immune response
- First-in-class 4-1BB agonist with B cell targeted costimulation of T cells

Pharmacodynamic biomarker data support novel MoA



- A dose relationship with reversal of PD1+ terminally differentiated CD8 T-cell expansion in blood is emerging at the C3D8, C4D1, and C5D1 timepoints
- Data indicate that CD19-4-1BBL costimulation may lead to a more durable response to Columvi and potentially prevent disease escape
- Ph I studies for Columvi + CD19-4-1BBL or costimulatory bispecific CD19 x CD28 in r/r NHL ongoing

Off-the-shelf CAR-Ts for hematologic malignancies





Highly differentiated new generation of fully allogeneic CAR-Ts

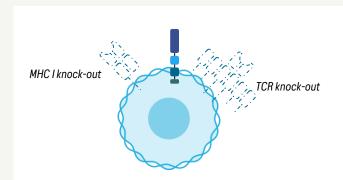
Long-lived self-renewing stem cell memory T cells

T_{SCM} Cell Stem cell memory



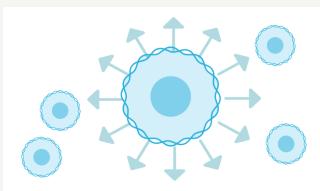
- Self-renewing
- Long-lived
- Multipotent
- Healthy donor derived
- T_{SCM} ideal cell type for CAR-T due to greater safety and durability
- piggyBac® superior non-viral gene insertion technology

High-fidelity, proprietary gene editing technology



 Addressing both Graft v Host and Host v Graft alloreactivity with Cas-CLOVER™ Gene Editing

Cost, scale and reach



 Proprietary booster molecule enables potential to deliver 100's of doses translating into lower cost, lower wait time and broader patient reach

- Ph I open-label dose-escalation study of P-BCMA-ALLO1 in MM ongoing: Early signs of efficacy and favorable tolerability profile
- P-CD19CD20-ALLO1 IND approved Q2 2023, Ph I in B-cell malignancies expected to start early 2024
- Additional allogeneic CAR-Ts in development for MM and AML



Update late-stage hematology pipeline

Malignant hematology: B-cell malignancies

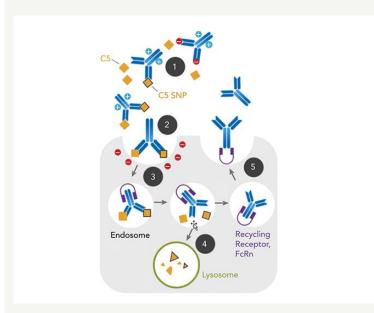
Non-malignant hematology: PNH, Hemophilia A





Positive Ph III data in PNH filed globally; US filing accepted on 1 Sep

Crovalimab (anti-C5 recycling Ab)



- Uses Chugai's recycling antibody technology (SMART-Ig)¹⁻⁶
- Rapid, long-lasting neutralization of C5 in complement mediated diseases
- Low volume administration supports convenient SC Q4W dosing at home

Broad development program in complement mediated diseases

	Indication	Ph I Ph II Ph III	
		COMPOSER	
PNH	Paroxysmal	COMMODORE 1 (switch)	
ГИП	nocturnal hemoglobinuria	COMMODORE 2 (naïve)	
-		COMMODORE 3 (China)	
~∐IIC	Atypical hemolytic	COMMUTE-a (adults)	
апоз	uremic syndrome	COMMUTE-p (pediatric)	
SCD	Sickle cell disease	CROSSWALK-c (chronic)	
300	Sickle cell disease	CROSSWALK-a (acute)	
LN	Lupus nephritis		~

- Ph III (COMMODORE 2/1) results in PNH show successful disease control in naïve patients and a favorable benefit-risk profile for patients switching from other C5 inhibitors
- Clear dosing advantage over current C5 inhibitors with the majority of COMMODORE 2/1 patients preferring crovalimab over previous therapy
- Filed globally in PNH; first approvals expected in 2024

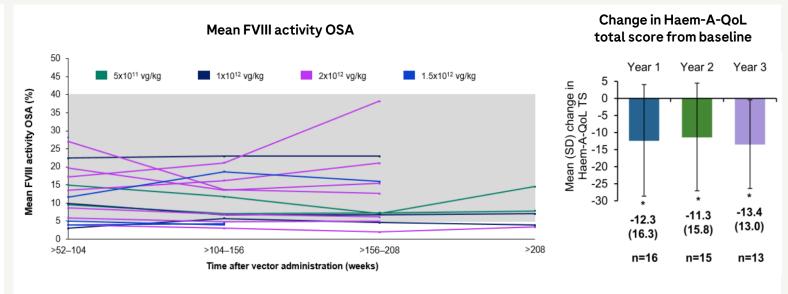
SPK-8011 in hem A: Durable FVIII activity observed up to 5 years



FVIII activity accompanied by durable clinical benefit in ABR, joint health and quality of life

Study design $5 \times 10^{11} \text{ vg/kg (n=2)}$ $1 \times 10^{12} \text{ vg/kg (n=3)}$ $2 \times 10^{12} \text{vg/kg (n=9)}$ $1.5 \times 10^{12} \text{ vg/kg (n=10)}$ 52 (±2) weeks 1-hour 4-year long-term follow up study: outpatient follow-up visits every 3-6 period IV infusion (n=24)months

Stable FVIII activity levels and improved QoL over long-term follow-up



Efficacy and safety of single SPK-8011* infusion:

(n=18)

- 16 participants with ≥1 year follow-up showed no apparent decrease in FVIII activity over time, with a majority expressing in the mild HA range
- 82-99% reductions in ABR and substantial reductions in FVIII consumption, no major safety signals
- Clinically meaningful improvements in joint health by total HJHS score at Year 2 and 3 and in total Haem-A-QoL at Years 1, 2, and 3
- Ph III study to open enrolment in 2H 2023

^{*} dirloctocogene samoparvovec; Croteau et al ASH 2022; Data cut-off: Oct 4 2022; analysis includes participants with >52 weeks of follow up (n=16). Grey shaded area indicates the mild range of hemophilia A; FVIII assessments obtained within 5 days of administration of a FVIII infusion were excluded; OSA=one-stage assay; FVIII:C=FVIII coagulant activity; HA=hemophilia A; QoL=Quality of life; ABR=Annualized bleeding rate; M.V. Ragni et al., ISTH 2023, B. Samelson-Jones et al., ISTH 2023



Late Stage Pipeline Neuroscience, Immunology and Cardiovascular-Metabolism

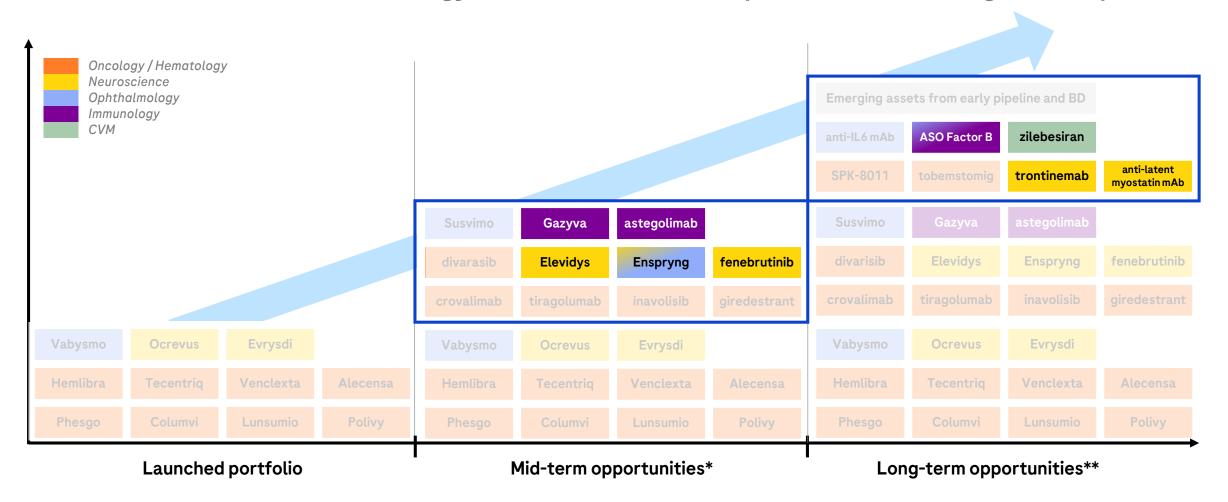
Paulo Fontoura M.D. Ph. D.

SVP and Global Head of Neuroscience and Immunology

Building blocks for future growth through 2030



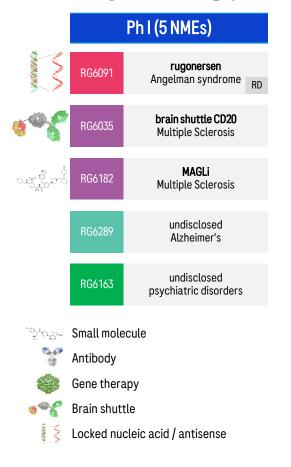
9 NMEs in Neuroscience, Immunology and CVM with FIC/BIC potential in late stage development

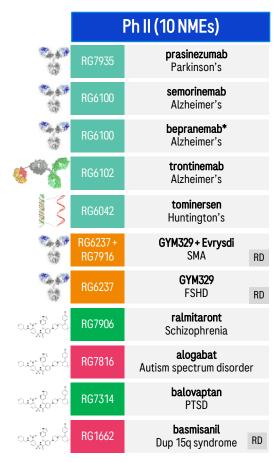


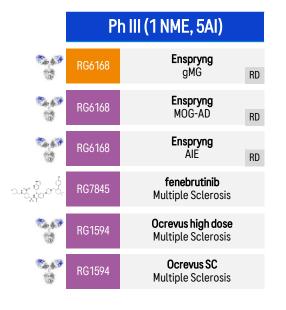
Neuroscience pipeline

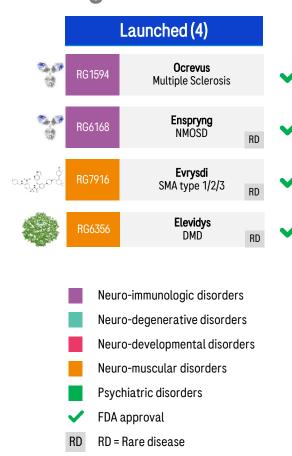


Industry leading portfolio differentiated on targets and platform technologies









Upcoming readouts

- Ph III (EMBARK) Elevidys (delandistrogene moxeparvovec) in DMD data expected in Q4 2023
- Ph III (LUMINESCE) Enspryng in gMG data expected in H1 2024

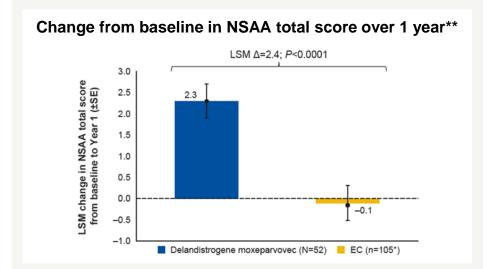
Elevidys, first FDA approved DMD gene therapy by partner Sarepta



Ph III (EMBARK) results expected in Q4



Pooled analysis of studies 101/102/103*



- Positive functional and clinically meaningful results up to 4 years after treatment with consistent safety
- US accelerated approval achieved by Sarepta in Q2
- First patient treated in the US in August
- · First ex-US approval in the UAE achieved

Development program

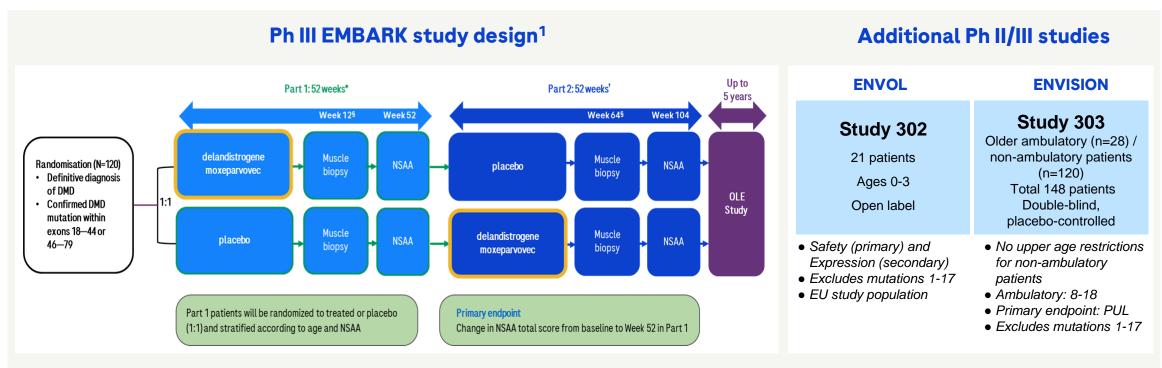
Study	DMD subgroup	Ph I Ph II Ph III	Comment
101	Ambulatory, 4-7 yrs.		✓ US approval (Sarepta)
102	Ambulatory, 4-7 yrs.		✓ US approval (Sarepta)
103 (ENDEAVOR)	Ambulatory, 3-18 <u>yrs</u> Non-ambulatory, all ages		✓ US approval (Sarepta)*
301 (EMBARK)	Ambulatory, 4-7 yrs.		EU filing and US label extension
302 (ENVOL)	Ambulatory, 0-3 yrs.		Expansion to younger DMD pts
303 (ENVISION)	Ambulatory, 8-18 <u>yrs</u> Non-ambulatory, all ages		Expansion to older ambulatory and non-ambulatory DMD pts

- Ph III (ENVISION) in older ambulatory and all ages non-ambulatory patients started in Q2 2023
- Ph II (ENVOL) in 0-3 year old ambulatory patients to initiate in H2 2023
- Ph III (EMBARK) results in Q4 2023; data to be filed in the EU / International and to facilitate non-age-restricted expansion of the US label

Elevidys development program







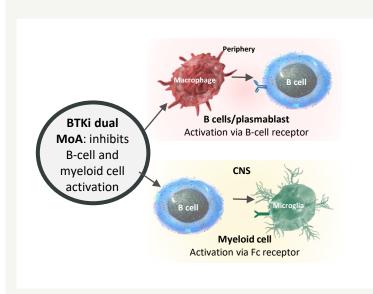
- Pivotal Ph III (EMBARK) trail: Two part design with an OLE study of up to 5 years; primary endpoint of change in NSAA total score from baseline to Week 52 in Part 1
- Ph III (ENVOL; Study 302): Open label trial in 0-3 year olds with safety as primary endpoint and expression as secondary
- Ph III (ENVISION; Study 303): Randomized trial in older ambulatory / non-ambulatory patients without an upper age restriction
- SV95C-SYDE, first ever digital endpoint approved as primary endpoint by EMA

Fenebrutinib, potential for a best-in-class BTKi in MS



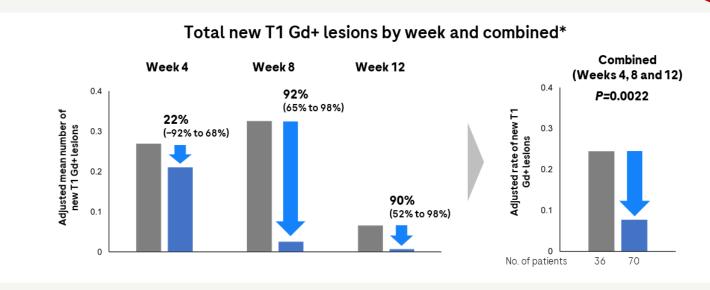
Additional Ph II (FENopta) data to be presented at ECTRIMS

Fenebrutinib (BTK inhibitor)



- Dual MoA targeting both B cells and myeloid cells
- Oral, highly selective and only reversible noncovalent BTK inhibitor in Ph III in MS
- Excellent selectivity limits off-target effects, potential for better safety outcomes

Ph II (FENopta) results in RMS



- FENopta biomarker study evaluated early impact of fenebrutinib on MRI outcomes and showed significant reductions in brain lesions in RMS patients, meeting primary and secondary endpoints
- Patients on fenebrutinib 4x likelier to have no new T1 Gd+ & N/E T2 lesions at weeks 4, 8 and 12 vs placebo
- Safety profile consistent with previous and ongoing trials
- CSF concentration data from Ph II (FENopta) trial to be presented at ECTRIMS on Oct 10-13th

Fenebrutinib, pivotal trials in RMS and PPMS ongoing



The only BTKi in H2H Ph III trial in PPMS vs Ocrevus

BTKi competitive landscape¹

Fenebrutinib	Tolebrutinib	Evobrutinib	Remibrutinib
OT NOW NH	H ₂ N N O N	H ₂ N _N N	F H F N N N N N N N N N N N N N N N N N
Non-covalent Reversible	Covalent Irreversible	Covalent Irreversible	Covalent Irreversible
WB B cell IC ₅₀ : 8nM	10 nM	84 nM	18 nM
WB Myeloid cell IC ₅₀ : 31nM	166 nM	1660 nM	67 nM
Ph III	Ph III FDA partial clinical hold	Ph III FDA partial clinical hold	Ph III
RMS, PPMS (vs Ocrevus)	RMS, SPMS, PPMS (vs Placebo)	RMS	RMS

Ph III program overview

Indication	Trial design	Ph I Ph II Ph III
RMS	vs placebo	FENopta 🗸
RMS	vs teriflunomide	FENhance 1/2
PPMS	vs Ocrevus	FENtrepid

- Potential to be best-in-class given high potency, high selectivity, reversibility, and only H2H study vs Ocrevus
- Large safety database of >2,500 pts who have been dosed with fenebrutinib*
- Further solidifying commitment to MS franchise

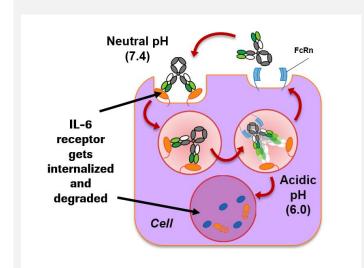
^{1.} Kramer, et al (2023) nature reviews neurology 289-304; Crawford, et al. (2018) J Med Chem 61, 2227-2245; Francesco, et al., ACTRIMS-ECTRIMS (2017) 200644. Haselmayer, et al. (2019) J Immunol 202, 2888-2906; Angst D, et al. (2020) J Med Chem 63, 5102-5118. MS=multiple sclerosis; H2H=head-to-head; RMS=relapsing multiple sclerosis; PPMS=primary progressive MS; BTK=Bruton's tyrosine kinase; nM=nanomolar; WD=whole blood; *As of Sept 2023: including non-MS Ph I/II studies

Enspryng in neurological disorders gMG, AIE, and MOG-AD



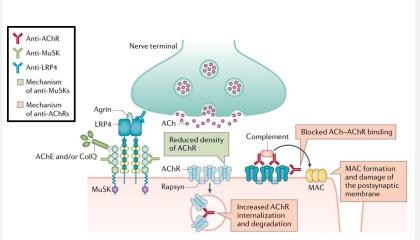
First-in-class anti-IL-6R mAB with best-in-disease potential in AcHR+ gMG

Enspryng (Anti-IL-6 receptor mAb)

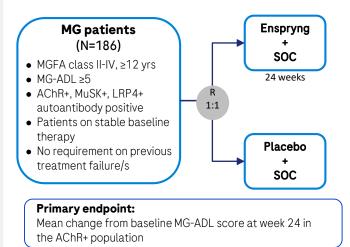


- Recycling mAb with high-affinity to soluble and membrane-bound IL-6R
- Engineered to enable maximal inhibition of IL-6 signaling
- Convenient SC Q4W home administration

gMG: Autoantibodies at the NMJ¹



Ph III (LUMINESCE) trial design



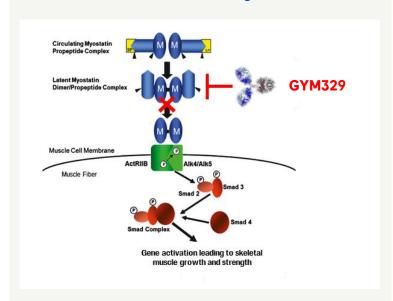
- IL-6 blockade has the potential to reduce autoantibody-mediated NMJ damage in gMG
- High unmet need: ~10-30% of patients fail SOC therapies with only up to 40% of patients on approved biologics achieve minimal symptom expression²
- Ph III (LUMINESCE) results in gMg expected in 2024
- Additional Ph III studies in 2 other autoantibody mediated rare neurological diseases ongoing with first-indisease potential: Ph III (CIELO) in AIE and Ph III (METEOROID) in MOG-AD

Anti-latent myostatin mAb to promote muscle growth in SMA



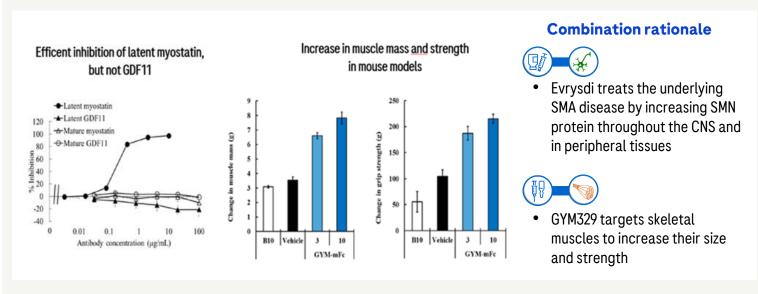
Ph II/III combination trial with Evrysdi ongoing

GYM329 (Anti-latent myostatin mAb)



- GYM329 binds latent myostatin, a key negative regulator of skeletal muscle growth and strength
- Unique sweeping¹ and recycling technology allows less frequent SC dosing and highly specific myostatin inhibition

Pre-clinical data in a mouse models of muscle disease



- GYM329 efficiently inhibits myostatin, but not the related muscle hormone GDF11, making it highly specific compared to other anti-myostatin Abs tested²
- GDF11 and myostatin act in opposite directions in muscle strength enhancement
- The combination of GYM329 + Evrysdi improved muscle size and strength in an animal model of SMA
- Ph II/III (MANATEE) of GYM329 and Evrysdi in SMA ongoing

^{1.} A sweeping antibody is a recycling antibody that has been further engineered to bind to FcRn at neutral pH; 2.Muramatsu H. et al., Nature Scientific Reports. 2021; SC=subcutaneous; CNS=central nervous system; mAb=antibody; SMA=spinal muscular atrophy; SMN=survival motor neuron; GDF11=growth differentiation factor 11; GYM329 in collaboration with Chugai

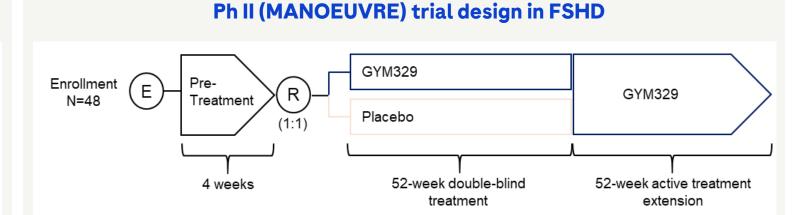
Anti-latent myostatin mAb in the neuromuscular disorder FSHD



Ph II (MANOEUVRE) in FSHD, a disorder with high unmet need, ongoing

Progressive asymmetric skeletal muscle weakness and wasting predominantly in the face, shoulder and upper arm muscles The lower limb and abdominal muscles are also involved Other symptoms can include retinal vascular pathology, hearing loss and respiratory impairment

- Genetic muscle disorder driven by ectopic expression of the DUX4 transcription factor
- Estimated global prevalence of 3.2–4.6 per 100,000, affecting adults and children¹
- Currently no DMTs against muscle wasting and weakness in FSHD



Primary endpoints:

- Percent change in contractile muscle volume (CMV) of quadriceps femoris as assessed by MRI bilaterally
- Percentage of participants with adverse events (AEs)
- Preclinical studies showed that GYM329 has superior muscle strength-improvement effects in mice compared with other anti-myostatin therapies²
- Treatment with GYM329 also resulted in muscle growth in healthy volunteers³
- Best-in-Disease potential: Ph II (MANOEUVRE) of GYM329 in FSHD ongoing
- GYM329 is further explored in additional diseases and combinations

^{1.} Faux-Nightingale A, et al. Arch Rehabil Res Clin Transl. 2021; 2. Igawa T, et al. Immunol Rev. 2016; 3. Internal data, unpublished; DMT=disease modifying therapy; E=enrollment; R=randomization; FSHD=facioscapulohumeral muscular dystrophy; MRI=magnetic resonance imaging; DUX4=double homeobox 4; DMT=Disease modifying therapy; GYM329 in collaboration with Chugai

Alzheimer's disease: Continuing to invest in high unmet need area



Neurology Update

Roche IR Event

Oct 2023

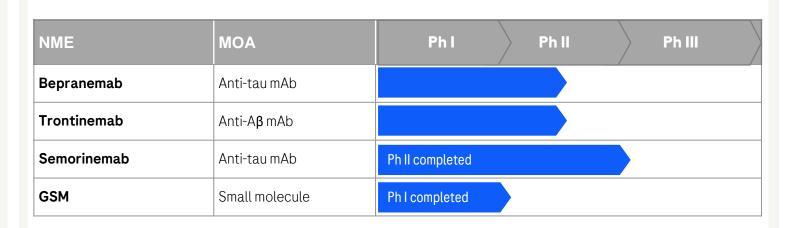
Leveraging key learnings to develop next generation therapies

AD program strategy



- Using prior experience and key learnings to develop effective clinical trials
- Leading diagnostic solutions, including screening and confirmatory tests, developing novel bloodbased and digital biomarker options

Clinical development program in Alzheimer's disease

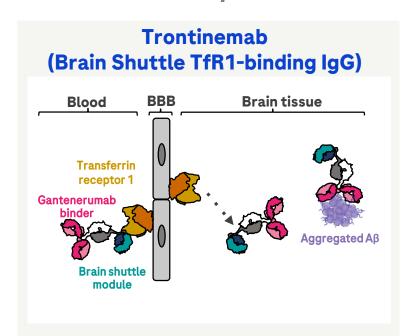


- Innovative Brain Shuttle technology to enable superior penetration of BBB, leading to deeper and faster AB reduction potential for better efficacy
- Investigating MoAs to target various stages of the anti-amyloid cascade with GSM acting early in the pathological process and anti-tau mAbs acting at the end of the cascade
- Ph I dose escalation for trontinemab and FIH data for GSM to be presented at CTAD 2023 on Oct 24-27th

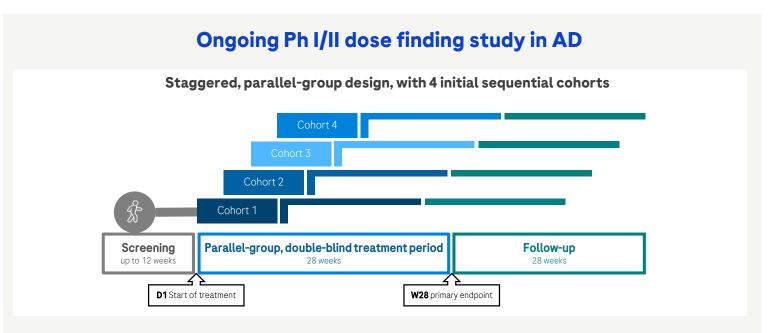


Trontinemab: First $A\beta$ -targeting Ab brain shuttle technology

Best-in-disease potential: Fast and highly efficient plaque removal after 3-6 months



- Trontinemab, brain shuttle, is an antibody format composed of gantenerumab and a linked transferrin receptor (TfR1) binding moiety
- The construct can achieve efficient transport over the blood brain barrier and target Aβ plaque in the brain¹



- Ongoing Ph I/II study investigating four patient cohors (10-15 patients per cohort) with prodromal or mild-to-moderate AD for 7 months and with an option to expand most promising cohorts
- Faster and more efficient plaque removal, could result in a more pronounced delay in disease progression compared to first generation anti-amyloid therapies
- Updated data from the ongoing Ph I/II study to be presented at CTAD 2023 on Oct 24-27th

Immunology, Infectious Disease and CVM pipeline



Gazyva Ph III data in lupus nephritis expected in 2024; zilebesiran in hypertension added

		Ph I (8 NMEs)	Ph II (8 NMEs)				Ph III (1 NMEs, 7 AI)		
	RG6107	crovalimab LN	Control of the contro	RG6299	ASO factor B IgA nephropathy		RG3648	Xolair Food allergy	
	RG6287	undisclosed aGVHD		RG6341	undisclosed Chronic cough		RG6149	astegolimab (Anti-ST2 COPD	
	RG6315	undisclosed Immunological disorders		RG6536	Vixarelimab IPF/SSc-ILD		RG7159	Gazyva Lupus nephritis	
014.12.00g	RG6421	TMEM16A potentiator cystic fibrosis		RG7854/RG63 46/ RG6084	ruzotolimod/xalnesiran/PDL1LNA HBV		RG7159	Gazyva Membranous nephropat	
	RG7828	Lunsumio (mosunetuzumab) SLE		RG6359	SPK-3006 Pompe disease		RG7159	Gazyva SLE	
	CHU	anti-HLA-DQ2.5x gluten peptides Celiac disease	1	RG6615	zilebesiran Hypertension		RG7159	Gazyva Childhood onset INS	
	CHU	RAY121 Immunology	§ §. > ■		• •	274. y	∞Š RG7159	Xofluza Influenza, pediatric	
217. B	RG6006	ABx MCP bacterial infections	Immunology Infectious dise	2222	Small molec	cule out to	ංද් RG784	Xofluza Influenza direct transmis	
21. B	RG6319	LepB inhibitor complicated urinary tract infection	Cardiovascula		ē 2	leic acid / antisense			
	RG6449	HBsAg MAb Chronic hepatitis B			Gene thera	ру			

Upcoming readouts

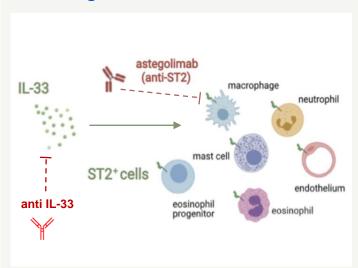
- Ph III (REGENCY) Gazyva in LN data expected in 2024
- Ph II (KARDIA-2) zilebesiran as add-on to one SoC in uncontrolled hypertension data expected early 2024

Astegolimab: First-in-class anti-ST2 mAb in COPD



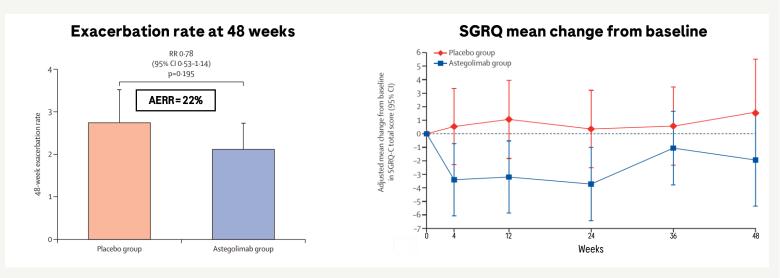
Early results show benefit in key endpoints throughout broad patient population

Astegolimab (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
- #3 cause of global deaths; no biologics currently approved in COPD

Ph IIa (COPD-ST2OP) results¹



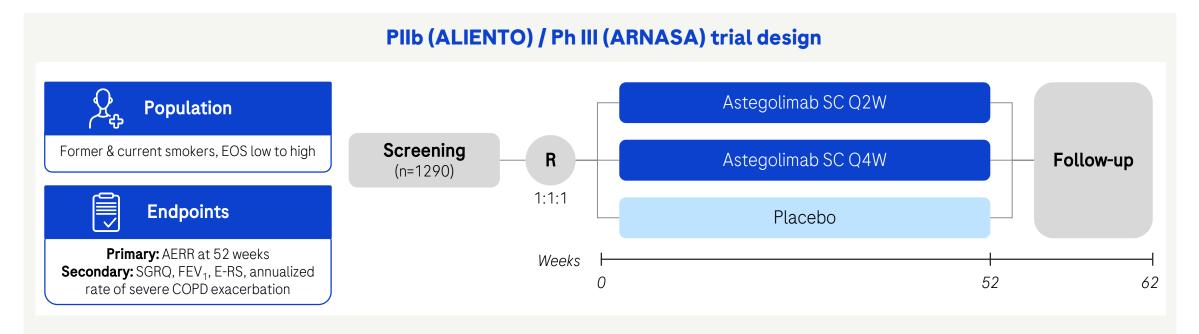
- Ph IIa (COPD-ST2OP): AER reduction of -22% (-37% in EOS low), reduction in SGRQ of -3.3 and increased FEV₁ by +40 ml
- Safe and well tolerated
- Earlier Ph II results in asthma with AER reduction of -43% (-54% in EOS low) support efficacy and safety profile in broad population, including EOS low²

¹ Yousuf et al. Lancet Respir. Med. 2022;10 (5):469-77; ²Kelsen et al. J Allergy Clin Immunol 2021;148(3)790-8; 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 guestionnaire; FEV₁=forced expiratory value

Astegolimab: Pivotal program results expected in 2025



Two pivotal trials ARNASA and ALIENTO with similar design currently ongoing

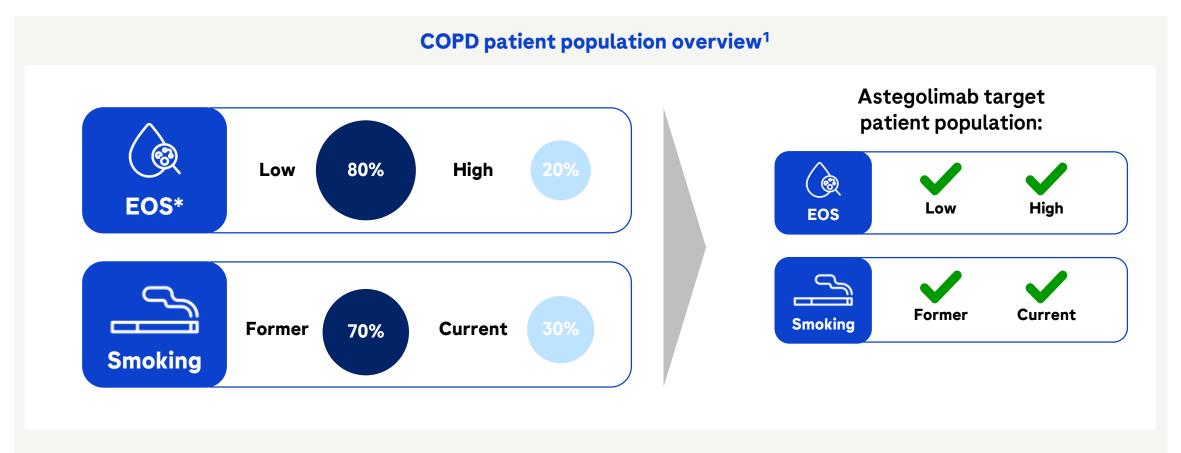


- Pivotal program includes up-scaled Ph IIb (ALIENTO) and Ph III (ARNASA); results expected in 2025
- Primary endpoint of change in AER at 52 weeks, with secondary endpoints focused on disease / health status (e.g. change in FEV₁ / SGRQ)
- · Broad patient population including former and current smokers, and EOS low to high
- Filing expected to be based on combined ARNASA and ALIENTO results
- OLE for ALIENTO and ARNASA was initiated in H1 2023

Astegolimab: Potential for biologic addressing broadest population



Aiming to address all COPD patients



- Near-term biologics in COPD are focused on EOS high or former smokers only
- Astegolimab with a unique potential to cover EOS low to high, as well as former and current smokers

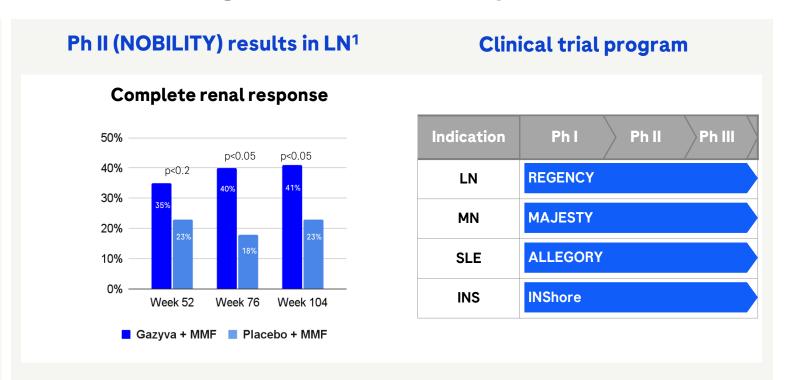
Gazyva with best-in-disease potential in lupus nephritis



Potential benefit in autoimmune diseases through sustained B cell depletion

Gazyva (glycoengineered anti-CD20 mAb) Type II anti-CD20 region Increased direct cell death Decreased CDC Reduced internalization Glycoengineered Fc region Higher FcYR affinity Increased ADCC/ADCP

- Greater potency than Rituxan in depleting peripheral and tissue B-cells
- Studies suggest that tissue based B-cells play a major role in lupus nephritis



- Ph II (NOBILITY) in LN met both primary and key secondary endpoints with no new safety signals; Placebo-corrected CRR of 22% at week 76^{2,3}
- Ph III (REGENCY) in LN fully recruited with results expected in 2024
- MN, SLE and INS: Complementary indications of the Gazyva program, with best-in-disease potential in MN, SLE and childhood onset INS

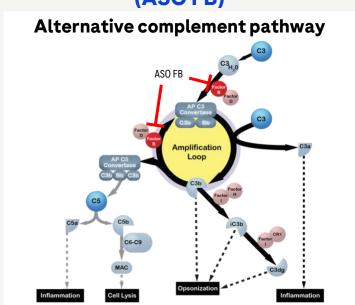
^{1.} Furie R, et al. Ann Rheum Dis 2022; 81:100-107; 2. Furie R et al. Lupus Science & Medicine 2020; 7 (Suppl 1):A27; 3. Furie R. et al; ACR 2019; mAb=monoclonal antibody; LN=lupus nephritis; MMF=mycophenolate mofetil; MN=membranous nephropathy; SLE=systemic lupus erythematosus; INS=Idiopathic nephrotic syndrome (Childhood onset INS also known as PNS=Pediatric nephrotic syndrome); CDC=complement-dependent cytotoxicity; ADCC=antibody-dependent cellular phagocytosis; CRR=complete renal response; IV=intravenous

Antisense oligonucleotide Factor B in IgAN



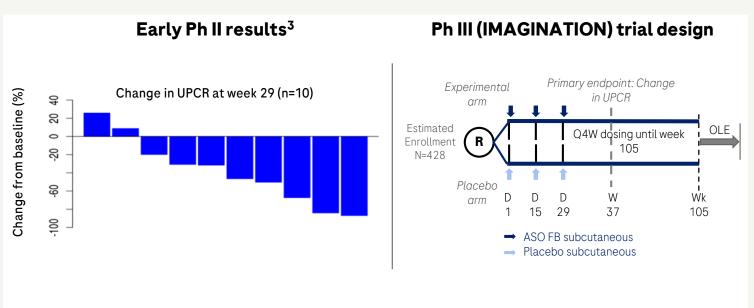
Positive Ph II UPCR results at 6 months; Ph III (IMAGINATION) initiated in Q2 2023

Antisense oligonucleotide Factor B (ASO FB)



- Globally, IgAN is the most common primary GN that can progress to renal failure
- High levels of CFB are associated with IgAN^{1,2}
- ASO FB downregulates CFB production by inhibiting mRNA translation

Clinical development program in IgA nephropathy



- Ph II study met its primary endpoint of change in 24-hour urinary protein, with 44% mean reduction in proteinuria from baseline to week 29^{3,4}
- Achieved secondary endpoint of change in UPCR from baseline to week 29; kidney function stable during the study³; updated Ph II data to be shared at medical conference in Q4 2023
- Ph III (IMAGINATION) of ASO FB in IgAN initiated in Q2 2023

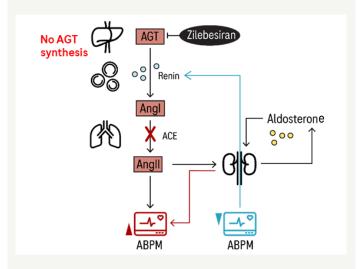
Zilebesiran with best-in-disease potential in hypertension





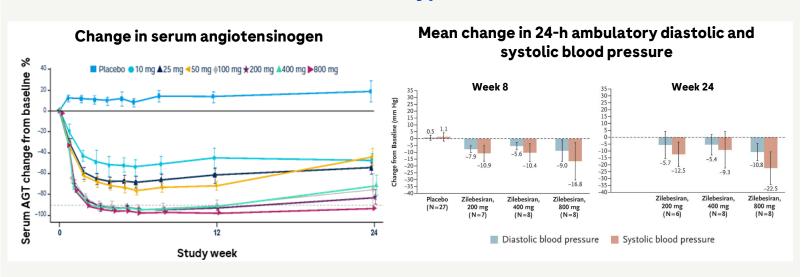
New MoA with tight upstream blockade of AGT pathway and strong early results

Zilebesiran (siRNA targeting AGT)



- siRNA targeting angiotensinogen, the precursor of all angiotensin peptides may avoid RAAS escape
- Consistent + durable blood pressure control with potential for improved adherence

Ph I results in hypertension¹



- Positive Ph I results:
 - >90% reduction of serum AGT for up to 6 months at single SC dose of zilebesiran ≥100mg
 - Decreases in systolic blood pressure (>10 mm Hg) and diastolic blood pressure (>5 mm Hg) by week 8 and sustained at 24 weeks at single SC dose of zilebesian ≥200mg
- Well tolerated, only mild-to-moderate injection site reactions and no TRAEs, hypotension or significant alterations of renal/liver function

Zilebesiran: Comprehensive development program ongoing

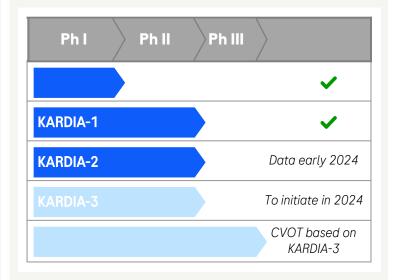


Positive Ph II (KARDIA-1) results to be presented at upcoming conference

Ph II (KARDIA-2) trial design Ph II (KARDIA-1) topline results Primary endpoint 24h mean SBP change at month 3 Secondary endpoints 24h mean SBP change at month 6 Office SBP change at month 3 & 6

- Ph II (KARDIA-1): Monotherapy in mild/moderate hypertension; met all primary and key secondary endpoints; data to be presented at upcoming scientific conference
- Ph II (KARDIA-2): Add-on to one SoC in uncontrolled hypertension; data expected early 2024
- Ph II (KARDIA-3): Add-on to SoC (2+ treatments) in uncontrolled hypertension with high CV risk; to be initiated in 2024
- Ph III: CV outcomes (MACE-type endpoint) in uncontrolled hypertension with high CV risk

Clinical development program



- Ph II (KARDIA-2) fully enrolled and ongoing
- Ph II (KARDIA-3) results will inform pivotal Ph III trial design
- Ph III to deliver robust label with CV outcomes benefits at launch
- Potential for expansion to other CV indications (e.g. heart failure)



Late Stage Pipeline Ophthalmology

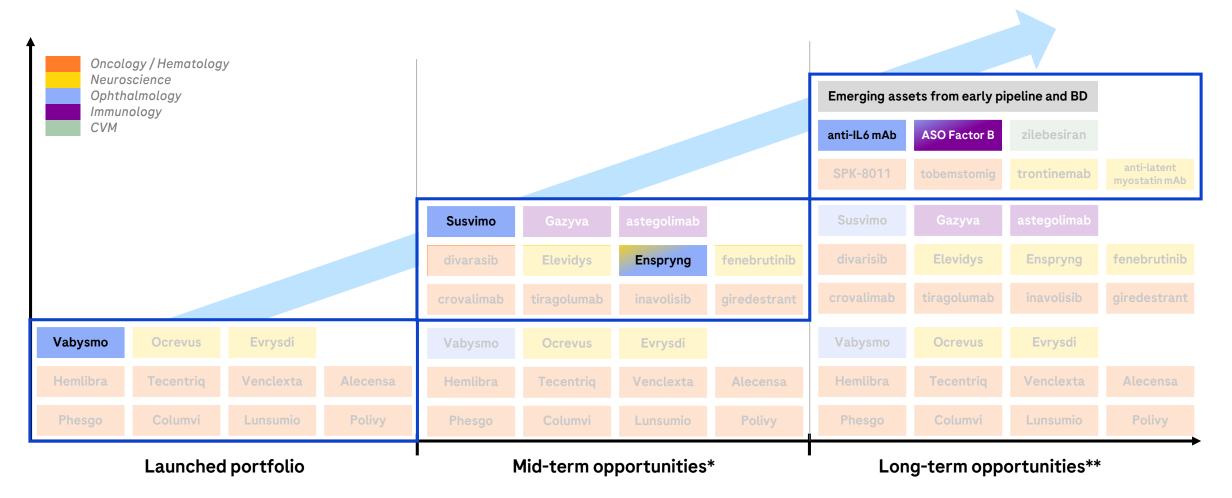
Christopher Brittain

Vice President and Global Head of Ophthalmology Product Development

Building blocks for future growth through 2030



5 novel targets in Ophthalmology with differentiated potential in late stage development



Roche poised for a leading role in Ophthalmology





Opportunities

- aVEGF therapies: transformed patient outcomes over 15-years
- Unmet need: superior efficacy and durability
- Changing landscape: aging population, diabetic epidemic, fast progressing science



Products and data

- Vabysmo: nAMD, DME approved RVO filing completed
- Susvimo:
 nAMD approval paused
 DME, DR filing planned
- Investment in RWE and VOYAGER study
- PhII data expected '24: ASO fB GA, anti-IL-6 DME
- Ph III anti-IL-6 in UME



Capabilities

- Leading in-house imaging data mastery: Al applications, fluid & genetic biomarkers
- Cell based and optogenetic gene therapy
- Leverage partnering



Leadership ambition

- Near-term: Vabysmo as IVT SoC relaunch of Susvimo
- Accelerate pipeline internally & externally: lead RWE supporting value of innovation
- Expand into adjacent ophthalmology areas expanding with satralizumab into TED

Ophthalmology strategy



Further improving the standard of care and expanding in new indications

Update on key clinical data & outlook

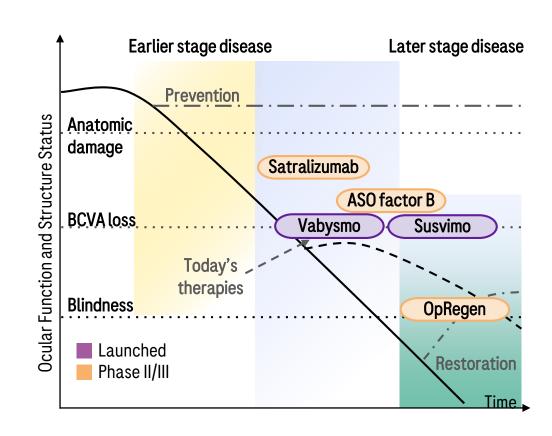
Vabysmo

- New data presented at ASRS 2023:
 - demonstrating reduced risk of epiretinal membrane (ERM) formation vs. aflibercept in patients with DME¹
 - real-world data reinforcing 1L benefits in DME² and nAMD³
 - positive anatomical outcomes demonstrated in DME⁴ and nAMD⁵
- Filed in US and EU Q2/3 2023 in RVO

Susvimo (port delivery system)

- Return to study enrollment Q4 2023 and US commercialization 2024
- Zifibancimig (VEGF-Ang2 DutaFab) with Ph1b FPI expected Q4 2023 (administration via port delivery system)

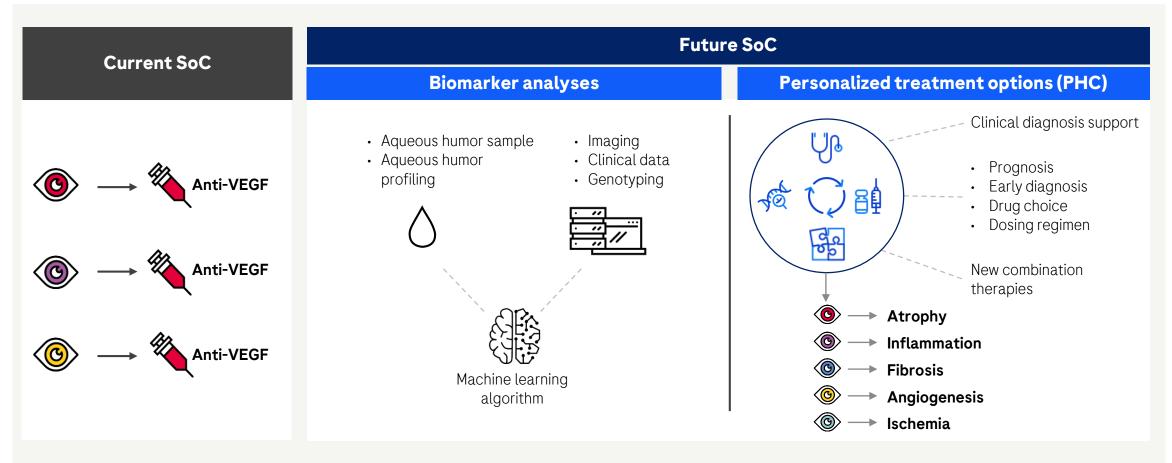
Improve outcome across all stages of ocular diseases



R&D focus area ophthalmology



Better visual outcomes in the future via diagnostics and combination therapies



Increased value for Healthcare ecosystems by delivering better care, improving efficiencies and optimizing resource utilization

Ophthalmology pipeline gaining momentum



Expanding into new disease areas with satralizumab initiating Ph III in TED

	Phase I	Phase II			Phase III		Lau		nched	
RG6351	NME Retinal disease	RG6179	anti-IL-6 DME		RG7716	Vabysmo ★ BRVO	RG	7716	Vabysmo nAMD	~
RG6209	NME Retinal disease	RG6501	OpRegen¹ GA	7	RG7716	Vabysmo CRVO	RG	7716	Vabysmo DME	✓
RG7921	NME RVO	RG6299	ASO factor B ² GA		RG6321	Susvimo DME	RG	6321	Susvimo nAMD	~
RG6120	Zifibancimig (VEGF-Ang2 DutaFab) nAMD			1	RG6321	Susvimo DR		nAMD	RVO	
					RG6179	anti-IL-6 UME		DME/UME Ga	■ Retinal ✓ FDA ap	disease proval
					RG6168	satralizumab TED	-	DR TED	★ Filed in	US & EU
								Antibody	§ Antiser	ise oligonuc
Uncomir	ng readouts:	•	for ASO factor Bi				**	DutaFab	Stem co	ell therapy

Data expected for anti-IL-6 in DME in 2024 and UME in 2025

PDS

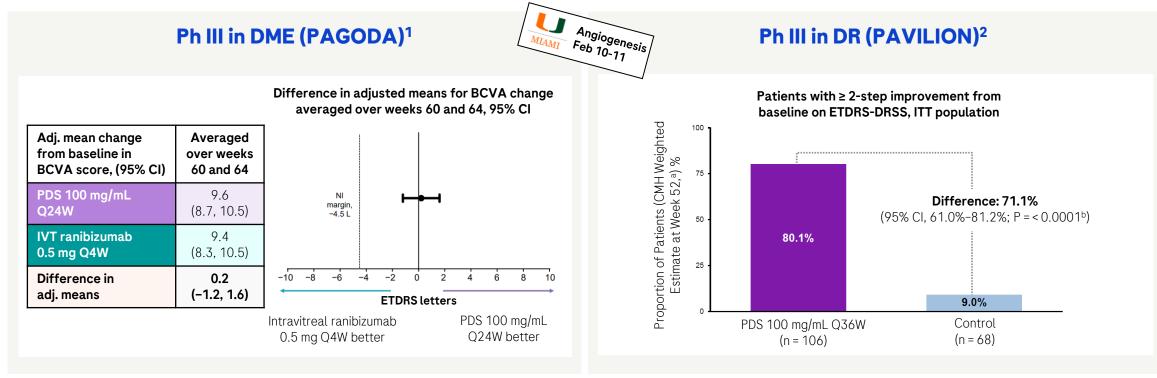
¹ In collaboration with Lineage Cell Therapeutics (LCTX); ² In collaboration with Ionis; nAMD=neovascular age-related macular degeneration; DME=diabetic macular edema; UME=Uveitic macular edema; DR=diabetic retinopathy; BRVO=branch retinal vein occlusion; CRVO=central retinal vein occlusion; GA=geographic atrophy; DutaFabs=dual targeting fragment antigen-binding; VEGF=vascular endothelial growth factor; Ang-2=angiopoietin-2; IL-6=inter-leukin-6; TED=Thyroid eye disease; PDS=Port delivery system; ASO=Antisense oligonucleotide

Susvimo: Adding new indications









Primary endpoint

BCVA score change from baseline averaged over weeks 60 and 64 as measured via ETDRS chart

Primary endpoint

Percentage of patients with a ≥2step improvement from baseline on the ETDRS-DRSS at week 52

^{1.} Khanani et al. Angiogenesis 2023; 2. Pieramici et al. Angiogenesis 2023; a The weighted estimate based on CMH method was stratified by baseline ETDRS-DRSS level (47 vs 53) and baseline intraretinal or subretinal fluid status (present vs absent). Missing ETDRS-DRSS is imputed using the last observed outcome prior to week 52. Patients with missing baseline outcomes are excluded. b CMH test; DME=Diabetic macular edema; DR=Diabetic retinopathy; BCVA=Best corrected visual acuity; ETDRS=Early treatment of diabetic retinopathy study; DRSS=Diabetic retinopathy severity scale; PDS=Port delivery system with ranibizumab; CI=Confidence interval; IVT=Intravitreal; ITT=Intention to treat; Q24W=Every 24 weeks; Q4W=Every 4 weeks; Q36W=Every 36 weeks

RG6179: Novel anti-IL-6 mAb for intraocular use



New data investigating anti-IL-6 in uveitic macular edema shared at ARVO 2023



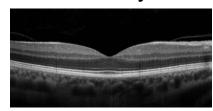
Anti-IL-6 mAb



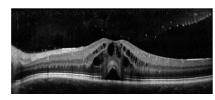
- Anti-IL-6 mAb binds IL-6 and inhibits all known forms of IL-6 signaling
- Specifically designed for intraocular use and optimized for a rapid systemic clearance

Uveitic macular edema

OCT scan: healthy macular

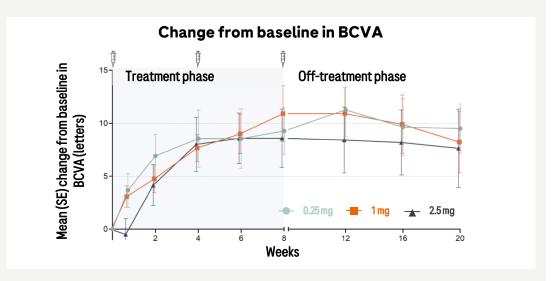


OCT scan: macular edema



- UME is a common result of intraocular inflammation, with only limited treatment options
- Inflammation causes vascular leakage & fluid accumulation within the retina²

Ph I data (DOVETAIL) presented at ARVO 2023¹



Preliminary clinical data in UME indicating:

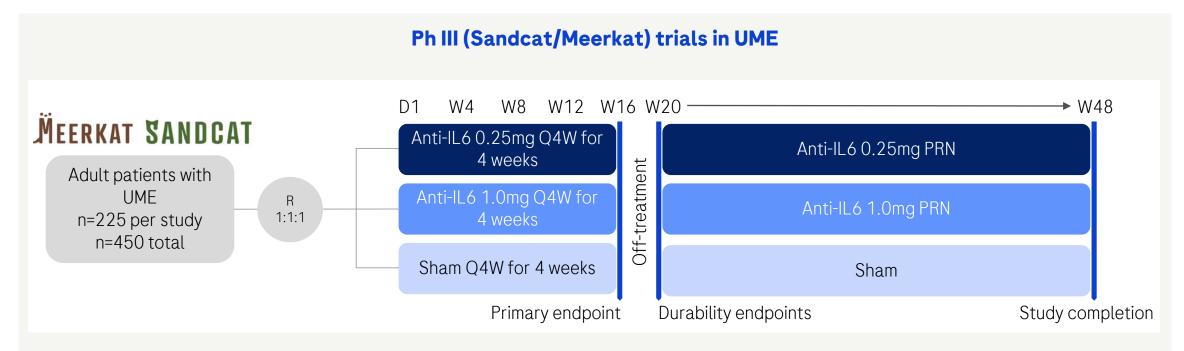
- Improved vision and absence of retinal fluid in all dosing cohorts
- 25 36% of patients gained 15 letters or more at week 12
- All doses of anti-IL-6 were well tolerated across all patients, with no treatment-related serious AEs, sustained IOP increase, or new cataracts
- Based on these Ph I findings, a Ph III clinical trial program is ongoing

^{1.} Sharma et al. ARVO 2023; 2. Koronis et al. Drug Des Devel Ther. 2019 Feb 19;13:667-680. doi: 10.2147/DDDT.S166092; UME=uveitic macular edema; IOP=intraocular pressure; IL-6=interleukin-6; AE=Adverse event; BCVA=Best-corrected visual acuity; SE=Standard error; OCT=Optical coherence tomography; mAb=Monoclonal antibody

RG6179: Novel anti-IL-6 mAb in UME and DME



Two identical Ph III studies in UME initiated Q1 2023



- Based on the Ph I (DOVETAIL) findings, and supported by PK/PD results, a Ph III study program investigating anti-IL-6 in UME (SANDCAT, MEERKAT) was initiated with FPI in Q1 2023 and data expected 2025
- Primary endpoint: Proportion of patients with ≥15 letters BCVA gain from baseline at week 16
- Ph II studies in DME (BARDENAS, ALLUVIUM) also ongoing

Satralizumab in thyroid eye disease

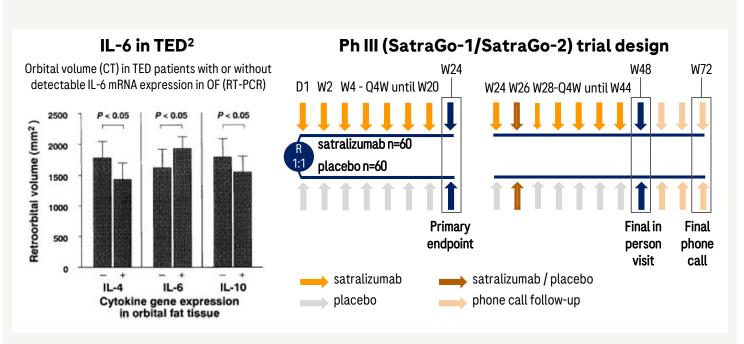


Potential disease-modifying treatment option with a well-established safety profile

Disease process of TED usually follows the trajectory of Rundle's curve* Active Phase 1-3 Years Inactive Phase 3+ Years

- Complex orbital inflammatory autoimmune disease¹
- Most common orbital disease in adults, with symptoms such as redness, dry eye, double vision, protrusion of the eye with periorbital swelling and vision loss¹
- Treatment options limited; faster and durable disease modification needed to prevent downstream fibrosis

IL-6 as a potential target for treating TED



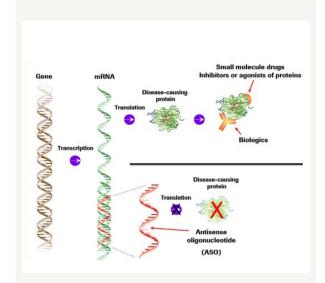
- IL-6 is a pleiotropic cytokine produced by orbital fibroblasts, macrophages and adipocytes of TED patients, mediating inflammation and fibrosis
- Satra binds to the IL-6R, preventing IL-6 from binding, inhibiting inflammatory signalling pathways^{3,4}
- Two identical Ph III studies investigating Satra in TED (SatraGo-1/SatraGo-2) initiated Q3 2023

^{*} Rundle's curve depicts schematically the typical course of thyroid eye disease severity with time; 1. https://eandv.biomedcentral.com/counter/pdf/10.1186/s40662-014-0009-8.pdf; 2. Hiromatsu et al. J Clin Endocrinol Metab. 2000 Mar;85(3):1194-9; 3. Traboulsee A, et al. Lancet Neurol 2020;19:402-412; 4. Yamamura T, et al. N Engl J Med 2019;381:2114-2124; TED=Thyroid eye disease; CT=Computed tomography; OF=Orbital fat; IL-6=interleukin-6; IL-6R=Interleukin-6 receptor; RT-PCR=Reverse transcriptase polymerase chain reaction; Satra=Satralizumab; W=week; IL-4(10)=Interleukin 4(10)



ASO factor B in GA: Targeting hyperactive alternative complement pathway via SC delivery

ASO factor B

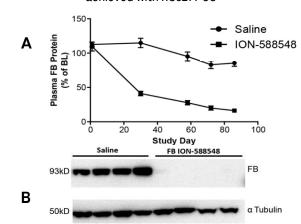


- Complement Factor B (CFB): key component of alternative complement pathway; associated with complement hyperactivity seen in GA
- Inhibits CFB gene expression & reduces the production of factor B protein

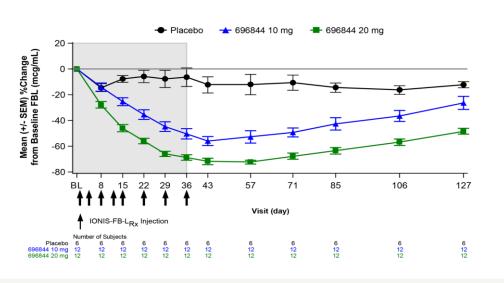
Preclinical and Ph I data

Preclinical results in monkeys¹

Systemic (A) and ocular (B) ASO FB protein knockdown achieved with RG6299 SC



Ph I: Significant dose-dependent reductions in plasma FB levels²



- Advantages of ASO factor B:
 - Potential for systemic Q4W SC administration, simultaneous treatment of bilateral GA and self-administration at home
 - More suitable option for treatment of early stage disease (e.g. iAMD)
- Ph II GOLDEN ongoing* with data expected 2024; pivotal study in planning stage

^{*}Managed by IONIS; 1. Grossman et al., Mol Vis 2017; 2. Guymer RG, et al. Presented at EURETINA 2020; ASO=antisense oligonucleotide; FB=Factor B; GA=geographic atrophy; CFB=Complement factor B; iAMD=intermediate age related macular degeneration; SC=Subcutaneous; Q4W=Every 4 weeks; SEM=Standard error of the mean; ASO factor B in-licenced from IONIS pharmaceuticals

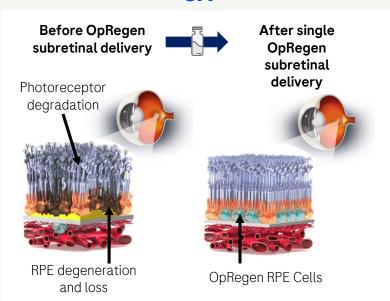
OpRegen in GA: Replenishing the retinal pigment epithelium



Encouraging early clinical data presented at ARVO 2022 and 2023

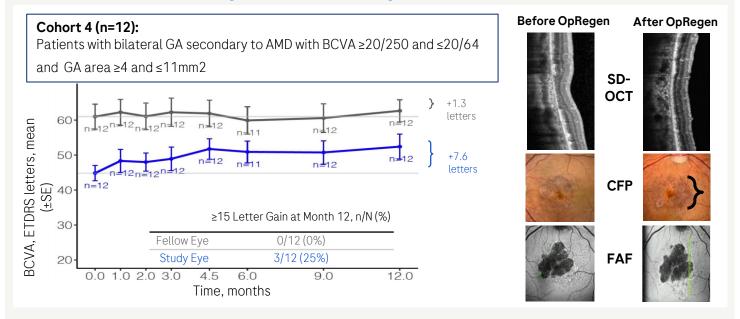


Potential to counteract RPE cell loss in GA



- OpRegen has the potential to counteract RPE cell loss in areas of GA by supporting retinal structure and function
- Ph IIa trial initiated Q1 2023, continuing to optimize subretinal surgical delivery

Ph I/IIa data: Outer retinal structure and visual function improvements in patients with impaired vision^{1,2}



- Preliminary evidence of outer retinal structure and visual function improvements with OpRegen was observed in patients with GA and impaired vision (Cohort 4 [n=12])
- Average 7.6 letter gain and 25% of patients with ≥15 Letter gain in Cohort 4
- OpRegen well tolerated in Ph I/IIa GA study with an acceptable safety profile and mostly mild AEs

Roche application of deep learning in ophthalmology

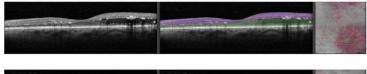


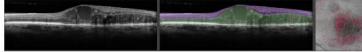
Vabysmo reduces HRF volumes more vs. aflibercept, indicating better disease control



The application of deep learning to segment hyperreflective foci

Representative predictions on YOSEMITE and RHINE (3 separate study eyes, all baseline)



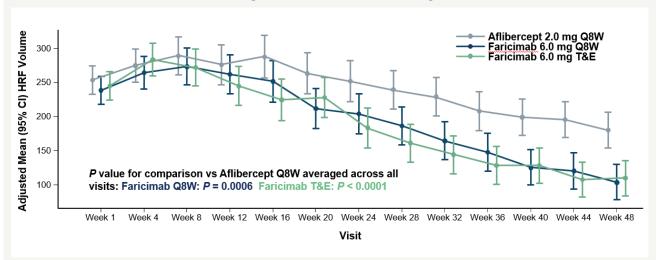




Original B-scan B-scan with predictions En face view

- HRF are small bright objects in the retina in patients with DME and may be imaging biomarkers for inflammation and disease progression
- DL was used to segment HRF, which were compared with HRF drawn by expert graders
- HRF model predictions were consistent with expert assessments

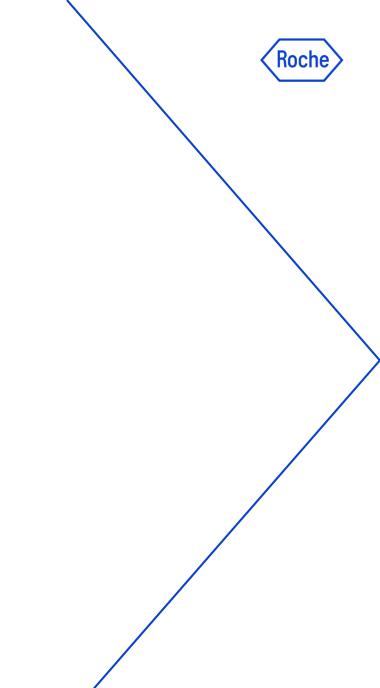
Vabysmo shown to reduced HRF volumes significantly more compared to aflibercept



- A post hoc analysis of YOSEMITE and RHINE demonstrated greater retinal HRF volume reductions in Vabysmo- vs. aflibercept-treated eyes at week 48
- Volume reductions indicate suppression of pathways that mediate inflammation
- Better resolution of the pathological manifestations of DME with Vabysmo support the therapeutic potential of dual Ang-2/VEGF-A inhibition in retinal diseases

Closing remarks

Thomas Schinecker | CEO Roche Group



Consensus outlook 2022-26*



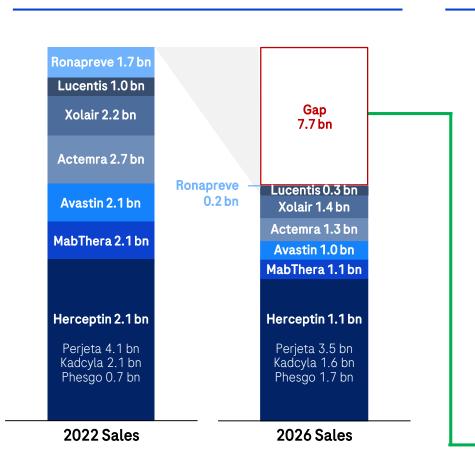
Growth driven by our young on-market portfolio; potential pipeline up-side

Biosimilar gap (22-26)

Consensus sales growth (22-26)

Post-HY 2023 consensus survey

Potential up-side³



1 03t 111 2020 consen	sus sui vey
Vabysmo	4.3 bn
Tecentriq	1.7 bn
Hemlibra	1.6 bn
Ocrevus	1.5 bn
Polivy	1.4 bn
Evrysdi	1.2 bn
Lunsumio	0.7 bn
Columvi	0.5 bn
Gazyva	0.4 bn
Alecensa	0.3 bn
Enspryng	0.3 bn
Susvimo	0.2 bn
Other in-market ¹	(0.5) bn
Pipeline Ph III ²	2.4 bn
thereof Elevidys	0.8 bn
thereof tiragolumab	0.7 bn
thereof giredestrant	0.3 bn
thereof crovalimab	0.3 bn
thereoffenebrutinib	0.2 bn
Total	16.1 bn

Additional up-side by late-stage NMEs / LEs poorly or not yet covered:

Oncology (inavolisib, divarasib, tobemstomig, autogene cevumeran), Hematology (SPK-8011), Ophthalmology (ASO factor B in GA, anti-IL-6 mAb, Enspryng in TED), Neuroscience (Enspryng in gMG, anti-latent myostatin mAb, trontinemab, prasinezumab), Immunology (Gazyva in LN, astegolimab, ASO Factor B in IgAN), Cardiovascular & Metabolism (zilebesiran)

^{*}All estimates are based on Post HY 2023 consensus collected by FTI Consulting on behalf of Roche (n=18); ¹ Activase/TnKase, Esbriet, Pulmozyme, CellCept, Erivedge, Cotellic, Gavreto, Xofluza, Rozlytrek; Luxturna ² included in >50% of the sell-side models; ³Assets covered on average by only 17% of the sell side models; NME=new molecular entity; LE=line extensions

Doing now what patients need next