

Click below to navigate through the document

Company overview

Financial review

Conclusions

Appendix

References



**Investor presentation January 31, 2024** 









Click below to navigate through the document

Company overview

Financial review

Conclusions

Appendix

References

# Disclaimer

This presentation contains forward-looking statements within the meaning of the United States Private Securities Litigation Reform Act of 1995, that can generally be identified by words such as "potential," "expected," "will," "planned," "pipeline," "outlook," "confident," or similar expressions, or by express or implied discussions regarding potential new products, potential new indications for existing products, potential product launches, or regarding potential future revenues from any such products; or regarding results of ongoing clinical trials; or regarding ongoing or future share repurchases; or regarding potential future, pending or announced transactions; regarding potential future sales or earnings; or by discussions of strategy, plans, expectations or intentions, including discussions regarding our continued investment into new R&D capabilities and manufacturing; or regarding our approximate estimated peak sales, sales potential and other financial information; or regarding our capital structure; or regarding our focus on material environmental, social and governance factors; or regarding the consequences of the spin-off of Sandoz and our transformation into a "pure-play" innovative medicines company. Such forward-looking statements are based on the current beliefs and expectations of management regarding future events and are subject to significant known and unknown risks and uncertainties. Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those set forth in the forward-looking statements. You should not place undue reliance on these statements. In particular, our expectations could be affected by, among other things: uncertainties regarding the success of key products, commercial priorities and strategy; uncertainties in the research and development of new products, including clinical trial results and additional analysis of existing clinical data; uncertainties regarding the use of new and disruptive technologies, including artificial intelligence; global trends toward healthcare cost containment, including ongoing government, payer and general public pricing and reimbursement pressures and requirements for increased pricing transparency; uncertainties regarding our ability to realize the strategic benefits, operational efficiencies or opportunities expected from our external business opportunities; our ability to realize the intended benefits of our separation of Sandoz into a new publicly traded standalone company; our ability to obtain or maintain proprietary intellectual property protection, including the ultimate extent of the impact on Novartis of the loss of patent protection and exclusivity on key products; our performance on environmental, social and governance matters uncertainties in the development or adoption of potentially transformational digital technologies and business models; uncertainties surrounding the implementation of our new IT projects and systems; uncertainties regarding potential significant breaches of information security or disruptions of our information technology systems; uncertainties regarding actual or potential legal proceedings, including regulatory actions or delays or government regulation related to the products and pipeline products described in this presentation; safety, quality, data integrity, or manufacturing issues; our performance on and ability to comply with environmental, social and governance measures and requirements; major political, macroeconomic and business developments, including impact of the war in certain parts of the world; uncertainties regarding future global exchange rates; uncertainties regarding future demand for our products; and other risks and factors referred to in Novartis AG's current Form 20-F on file with the US Securities and Exchange Commission. Novartis is providing the information in this presentation as of this date and does not undertake any obligation to update any forward-looking statements as a result of new information, future events or otherwise.

AVROBIO is a registered trademark of AVROBIO, Inc. Voyager Therapeutics is a registered trademark of Voyager Therapeutics, Inc. Bicycle Therapeutics is a registered trademark of Bicycletx Limited. Clovis Oncology is a registered trademark of Clovis Oncology, Inc. Ionis is a registered trademark of Ionis Pharmaceutics, Inc. Legend Biotech is a registered trademark of Nanjing Legend Biotech Co., Ltd. Chong Kun Dang is a registered trademark of Chong Kun Dang Holdings Corp. Isomorphic Labs is a registered trademark of Isomorphic Labs Limited.







Click below to navigate through the document

Company overview

Financial review

Conclusions

**Appendix** 

References

# Company overview

Vas Narasimhan, M.D. **Chief Executive Officer** 





Click below to navigate through the document

**Company overview** 

Financial review

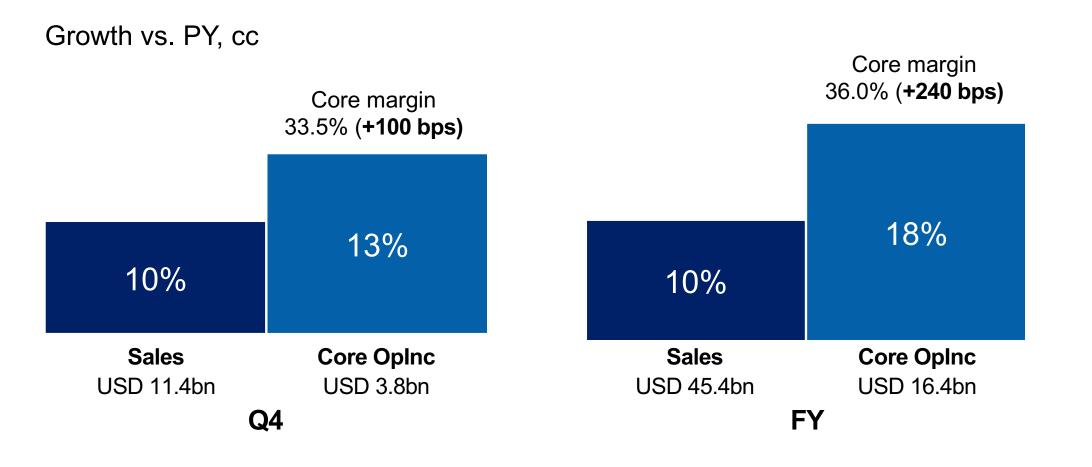
Conclusions

**Appendix** 

References

# Novartis delivers strong full year performance with margin expansion. Continuing innovation momentum with multiple positive Ph3 readouts

# Double-digit growth for sales and Core Oplnc for the quarter and full year<sup>1</sup>



## Several major innovation milestones in Q4

Fabhalta® (iptacopan) US approval in PNH

Cosentyx® US approval in HS

Cosentyx® US approval of IV formulation (PsA, AS, nr-axSpA)

Iptacopan Ph3 APPLAUSE study met its primary endpoint in IgAN

Atrasentan Ph3 ALIGN study met its primary endpoint in IgAN

Iptacopan Ph3 APPEAR-C3G met its primary endpoint in C3G

Scemblix® Ph3 ASC4FIRST met primary endpoints in 1L Ph+ CML-CP (Jan)

Successful spin-off of Sandoz

FY 2024 guidance<sup>1</sup>: Sales expected to grow mid single digit; Core OpInc expected to grow high single digit

Mid-term guidance<sup>1</sup> updated: Sales expected to grow +5% cc CAGR 2023-28; core operating income margin ~40%+ by 2027

OpInc – operating income. 1. As defined on page 37 of the Condensed Financial Report, Continuing operations include the retained business activities of Novartis, comprising the Innovative Medicines Division and the continuing Corporate activities Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 49 of Condensed Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.





Click below to navigate through the document

### **Company overview**

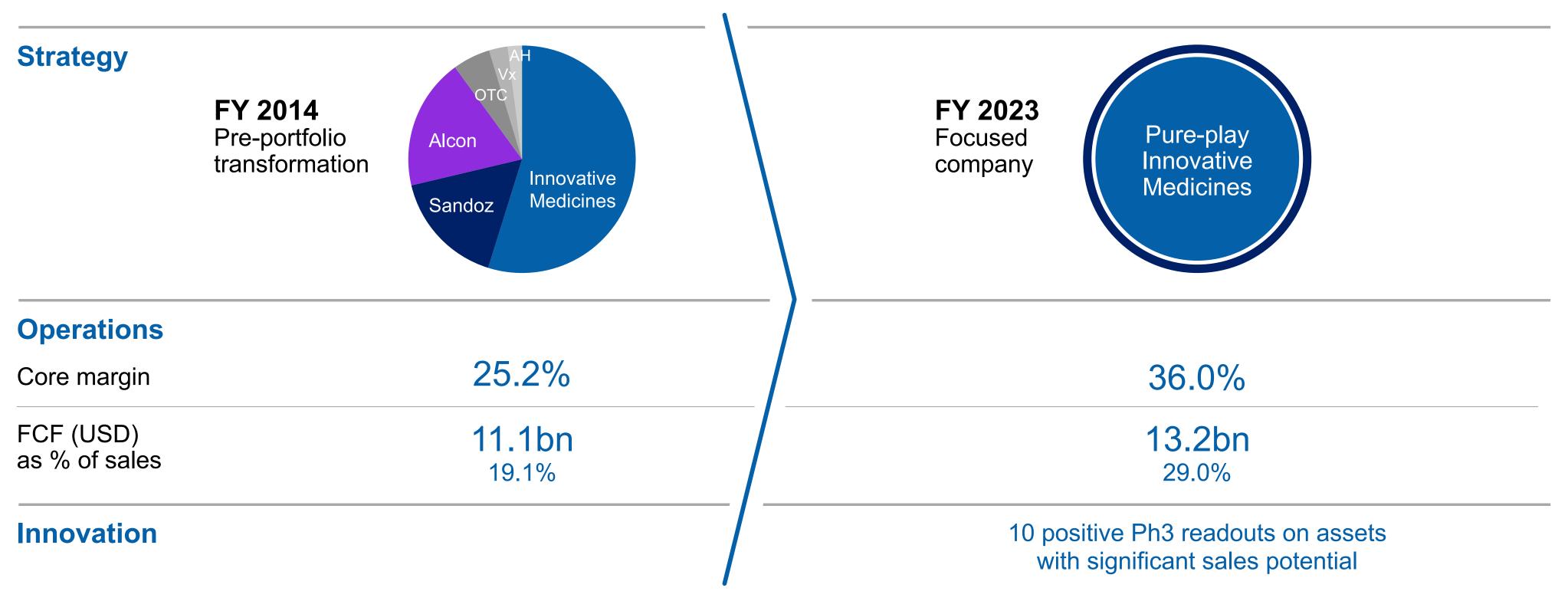
Financial review

Conclusions

**Appendix** 

References

# Completed the transformation; laying the foundation for our future growth



2014 figures reflecting revised free cash flow definition, 2023 figures reflect Continuing Operations. As defined on page 37 of the Condensed Financial Report, Continuing operations include the retained business activities of Novartis, comprising the Innovative Medicines Division and the continuing Corporate activities.





Click below to navigate through the document

**Company overview** 

Financial review

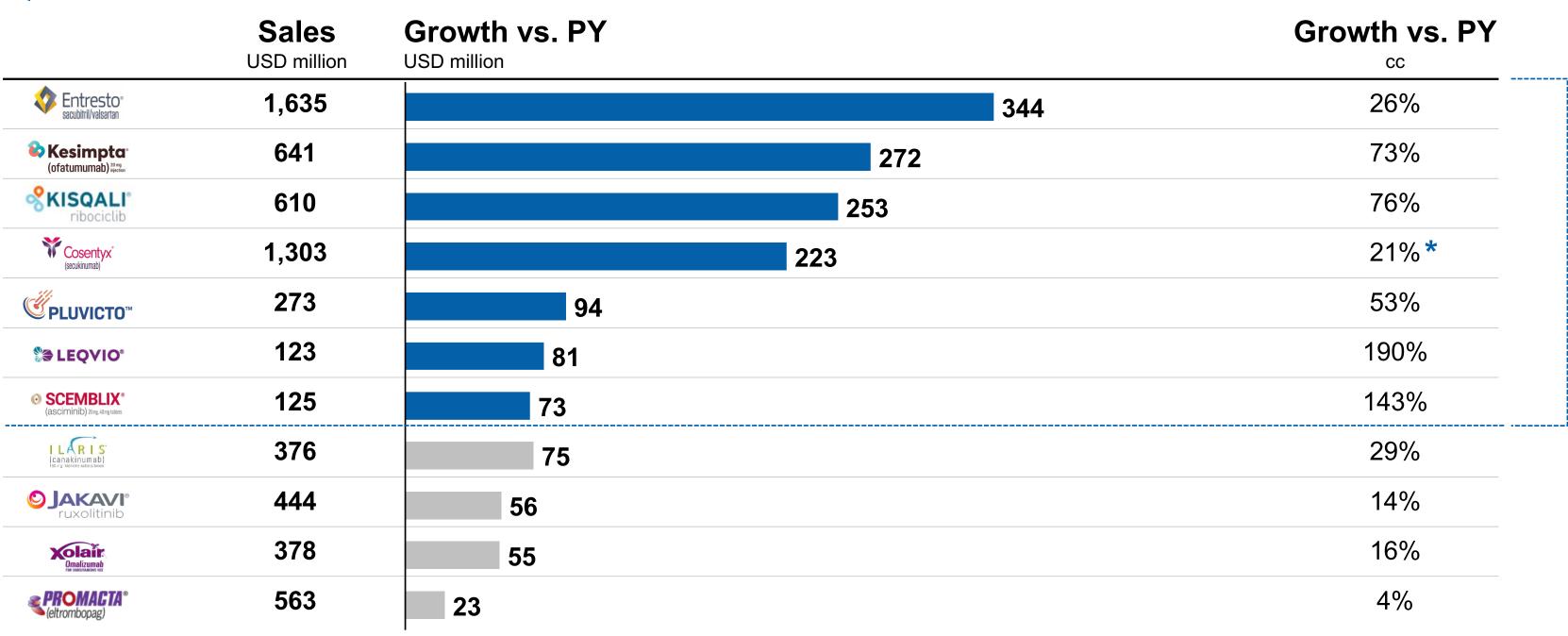
Conclusions

**Appendix** 

References

# Strong Q4 growth driven by performance from Entresto<sup>®</sup>, Kesimpta<sup>®</sup>, Kisqali<sup>®</sup> and Cosentyx<sup>®</sup>

### Q4 sales



Strong growth (+40% cc); expected to continue

\* Benefitting from lower prior year base.

Constant currencies (cc) is a non-IFRS measure; explanation of non-IFRS measures can be found on page 49 of Condensed Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.





Click below to navigate through the document

**Company overview** 

Financial review

Conclusions

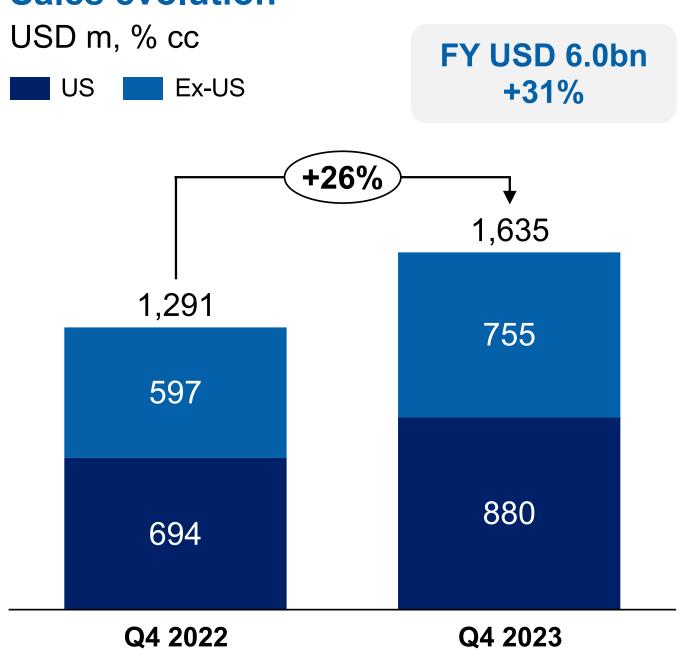
**Appendix** 

References

# Entresto® delivers 31% FY growth with sales reaching USD 6bn. Expecting USD 7bn peak sales

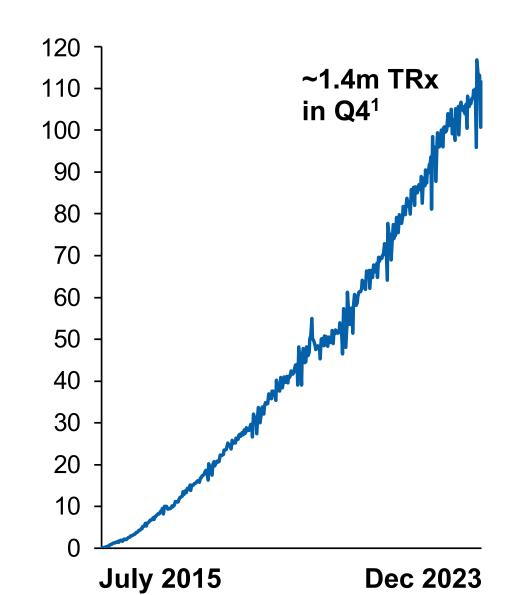






# **US** weekly TRx<sup>1</sup>





## **Continues strong momentum in Q4**

• US: **+27%** cc

• Ex-US: **+26%** cc

China/Japan: Contribution from HTN<sup>2</sup>

## **Confidence in future growth**

- Strong guidelines position<sup>3</sup> (US/EU)
- Further penetration in HF and HTN
- US: Forecasting purposes, we assume Entresto<sup>®</sup> LoE in 2025
- EU: RDP to Nov 2026<sup>4</sup>

**See last page for references (footnotes 1-4).** Constant currencies (cc) HTN – hypertension. LoE – loss of exclusivity. RDP – Regulatory data

Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 49 of Condensed Financial Report. TRx – total prescriptions. HF – heart failure RDP – Regulatory data protection.





Click below to navigate through the document

**Company overview** 

Financial review

Conclusions

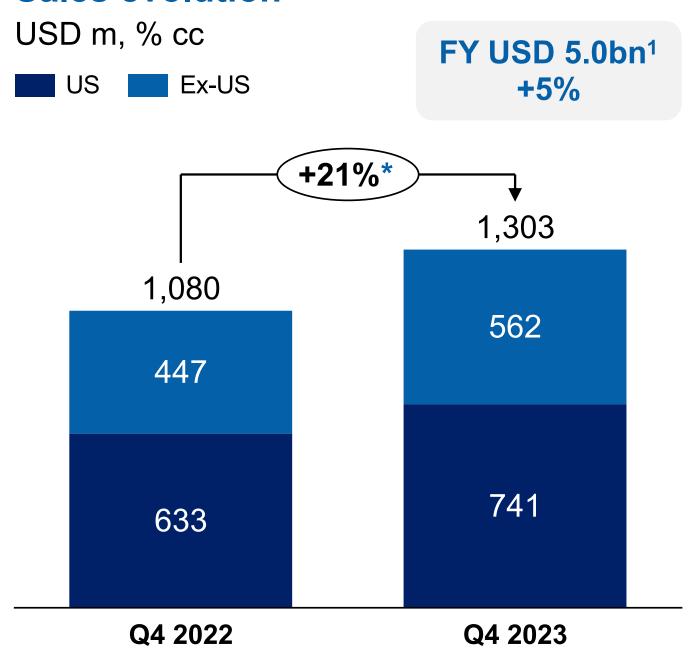
**Appendix** 

References

# Cosentyx® FY sales reached USD 5bn¹. Expect mid to high single-digit growth in 2024 and USD 7bn peak sales

**∜**Cosentyx®

### Sales evolution



## **Q4** performance benefitted from lower PY base

- US +17% cc; Ex-US sales +26% cc
- Lower PY base in US due to revenue deduction adjustments
- Launched IV and HS in US

### FY 2024: Expect mid to high single-digit growth

- US/EU: HS launch
- US: IV launch in adult PsA, AS and nr-axSpA
- China: PsA approved January 2024

## **Further Cosentyx**<sup>®</sup> innovation

 3 Ph3 studies ongoing: Giant Cell Arteritis, Polymyalgia Rheumatica, Rotator Cuff Tendinopathy

### Benefitting from lower prior year base

HS – moderate to severe hidradenitis suppurativa in adult population. IV – intravenous. PsA – psoriatic arthritis. AS – ankylosing spondylitis. nr-axSpA – non-radiographic axial spondyloarthritis. Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 49 of Condensed Financial Report. 1. Rounded from USD 4.98bn.





Click below to navigate through the document

**Company overview** 

Financial review

Conclusions

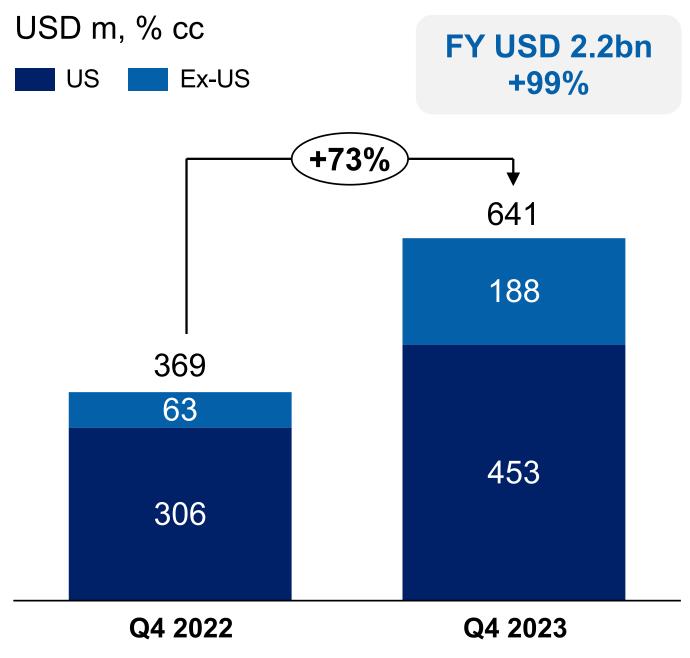
**Appendix** 

References

# Kesimpta® FY sales doubled (USD 2.2bn) and on track for USD 4bn peak based on compelling product profile







## Launch momentum continues across all regions

- >85k patients treated, majority naive or first switch<sup>1</sup>
- US (+48% cc in Q4): Demand-driven growth
- Ex-US (+193% cc in Q4): NBRx leadership in 7/10 major markets<sup>2</sup>

### **Compelling product profile**

- Clinically meaningful efficacy superiority over teriflunomide<sup>3</sup>
- 1 minute a month dosing at home/anywhere<sup>4</sup>
- ~90% find Kesimpta Sensoready® pen easy and simple to use (US RWE study)<sup>5,6</sup>
- 5-year efficacy<sup>7</sup>, safety and tolerability data<sup>8,9</sup>

See last page for references (footnotes 1-9). NBRx – new to brand prescription. MS – Multiple Sclerosis. Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 49 of Condensed Financial Report.





Click below to navigate through the document

**Company overview** 

Financial review

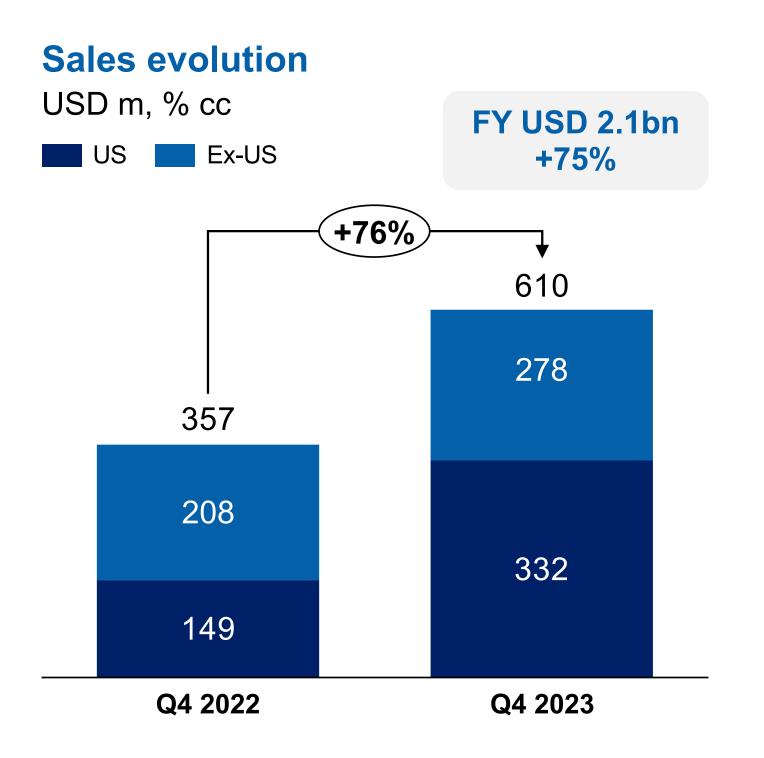
Conclusions

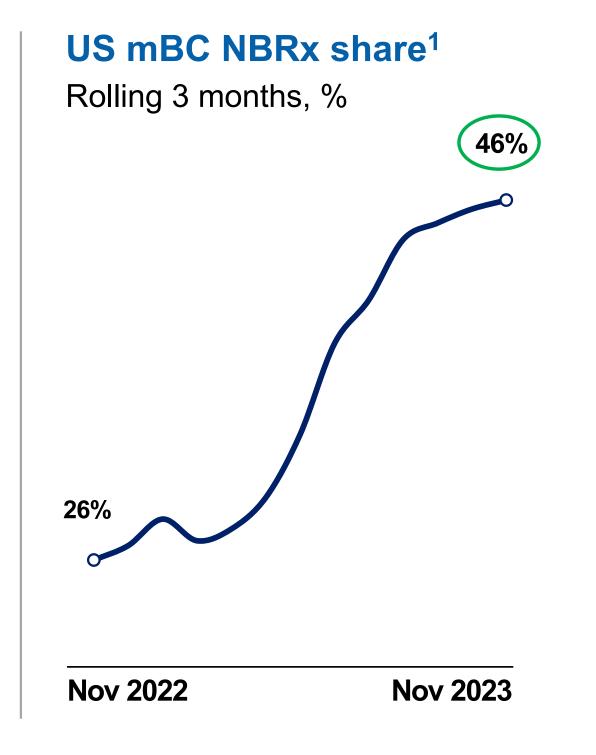
Appendix

References

# Kisqali® FY sales reached USD 2.1bn in metastatic breast cancer (mBC). Maintain USD 4bn peak sales guidance for mBC







# **Expect continued strong sales momentum in mBC**

- Statistically significant OS benefit proven across all 3 Ph3 pivotal trials<sup>2</sup>
- Recognized by NCCN guidelines with Category 1 designation for 1L and highest score by ESMO-MCBS<sup>3</sup>
- Median OS of ~5 years across all 3 pivotal trials when combined with letrozole or fulvestrant in 1L mBC

## **Adjuvant indication**

Filed in EU, US and China

mBC – metastatic breast cancer. NBRx – new to brand prescription. NCCN – national comprehensive cancer network. AI – aromatase inhibitor. 1. Of CDK4/6 mBC market, US 3 months ending Nov 2023, IQVIA Breast Cancer Market Sizing report. 2. MONALEESA-2: Hortobagyi et al, NEJM 2022; MONALEESA-7: Lu et al, Clin Cancer Res 2022; MONALEESA-3: Neven et al, ESMO Breast 2022. 3. NCCN Guidelines updated as of 27-Jan-2023. Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 49 of Condensed Financial Report.





Click below to navigate through the document

**Company overview** 

Financial review

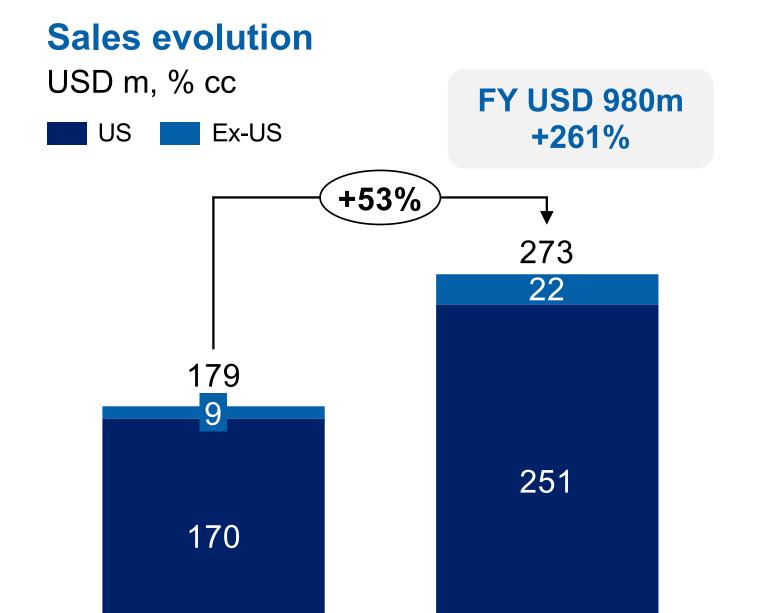
Conclusions

**Appendix** 

References

# Pluvicto® FY sales close to blockbuster. Supply now unconstrained. Maintain multi-bn peak sales guidance for current indication (post-taxane)





- Q4 sales grew YoY (+53% cc) and QoQ (+7% USD) driven by demand
- Treatment sites: 300+ US sites, vast majority active and regularly ordering
- Unconstrained supply: 99.9% of doses injected on planned day in Q4 in US: approval of Indianapolis site to increase capacity to 250k RLT doses in 2024
- Global network expansion: RLT facility investment in China and Japan
- Confident in 2024: Expect return to stronger QoQ growth following earlier supply disruption

### **Additional indications**

- PSMAfore (pre-taxane) expect US submission in H2 2024
- Additional studies in earlier stages of disease (PSMAddition in mHSPC, PSMA-DC in localized oligometastatic disease)

Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 49 of Condensed Financial Report.

Q4 2023



Q4 2022



Click below to navigate through the document

**Company overview** 

Financial review

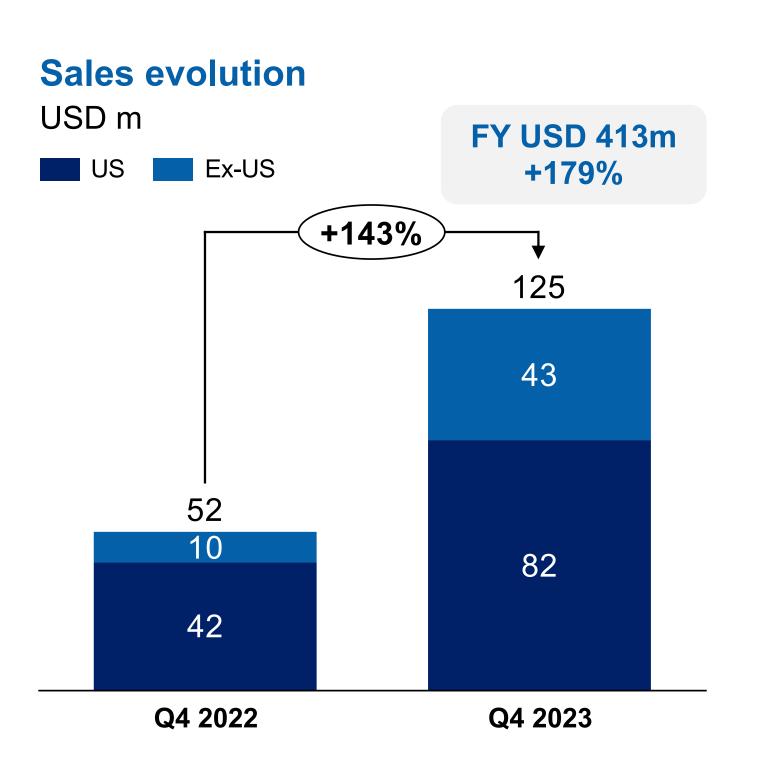
Conclusions

**Appendix** 

References

# Scemblix® continues strong launch trajectory, driven by increasing recognition of its differentiated profile and high unmet need in CML





- FY and Q4 sales more than doubled driven by highly differentiated profile
- Leading 3L+ market share in US (NBRx 43%, TRx 22%) and ex-US (TRx 28%)<sup>1</sup>
- **High unmet need** in 3L patients: >50% of hematologists aim to improve quality of life and management of side effects<sup>2</sup>
- ASCEMBL Ph3 data 3L with nearly **4 years of follow-up** reinforces **differentiated profile** vs. alternative TKIs; with sustained efficacy and safety benefit<sup>3</sup>
- Global rollout in 3L ongoing with approval in 60+ countries; access pathways in 25+, with consistently positive feedback from payers on added clinical benefit

Ph+ CML-CP – Philadelphia chromosome-positive chronic myeloid leukemia in chronic phase. 1. US: October rolling 3-months US IQVIA CML market sizing report (Jan 2024). Ex-US: IPSOS & IQVIA Oncology Dynamics, EU5 and JP, MAT October 2023). 2. Survey on unmet needs in CML at EHA: reveals the need for treatment decisions that balance quality of life, efficacy, and tolerability goals; Chronic Myeloid Leukemia Survey on Unmet Needs (CML SUN). 3. Mauro M.J. et al., ASH 2023, Poster 4536 (median follow-up of 3.7 years). Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 49 of Condensed Financial Report.





Click below to navigate through the document

**Company overview** 

Financial review

Conclusions

**Appendix** 

References

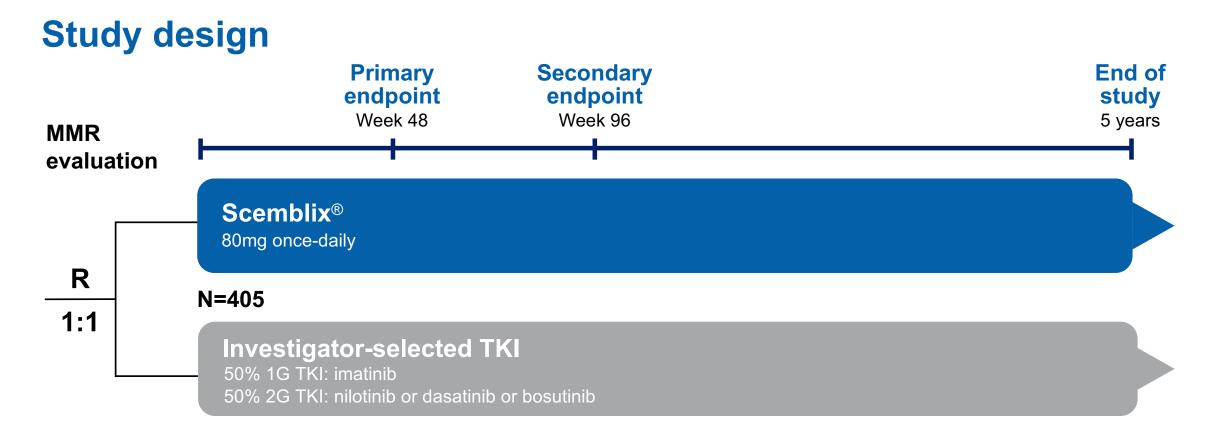
# Scemblix®: ASC4FIRST trial met both primary endpoints with clinically meaningful and statistically significant results

## **Both primary endpoints met**

- Scemblix shows superior MMR rates at week 48 vs. SoC TKIs in newly diagnosed Ph+ CML-CP patients
- Favorable safety and tolerability profile with fewer AEs and treatment discontinuations vs. SoC TKIs and no new safety signals were observed

### **Achievement of MMR**

• BCR-ABL1 ≤ 0.1% is associated with higher rates of EFS, PFS and OS¹



**Population:** Newly diagnosed adult patients with CML-CP with no prior TKI **Primary endpoints** as assessed by MMR at 48 weeks: Superiority of Scemblix® vs. 1) investigator choice TKI and/or 2) imatinib subgroup alone

Data will be presented at an upcoming medical congress

CML-CP 1L FDA submission anticipated in H1 2024

CML-CP – chronic myeloid leukemia in chronic phase. MMR – major molecular response (BCR-ABL 1IS ≤0.1%). SoC – Standard of care. TKI – tyrosine kinase inhibitor. 1. Saussele S et al. Leukemia; 32(5):1222-8; 2018; Hochhaus et al., Leukemia: 34:966-84, 2020.





Click below to navigate through the document

**Company overview** 

Financial review

Conclusions

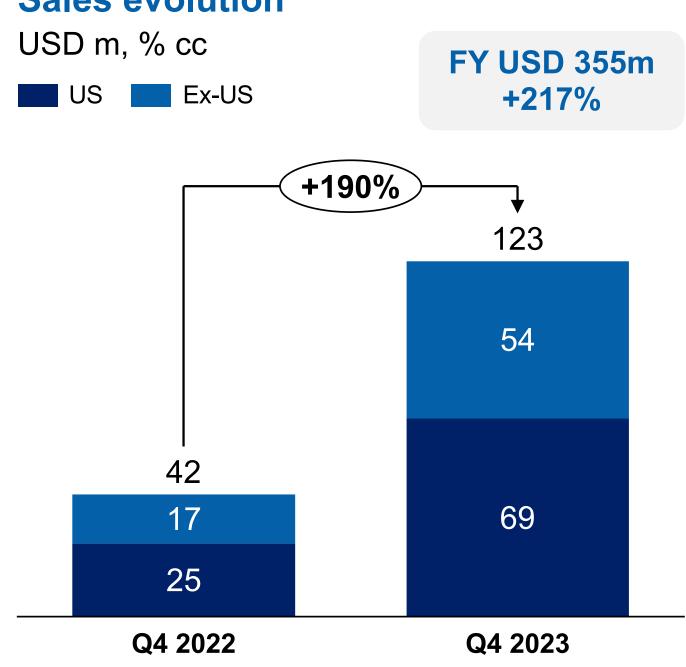
**Appendix** 

References

# Leqvio® adoption continues to expand across regions



### Sales evolution



# US: Steady growth, ahead of advanced lipid lowering market<sup>1</sup> Adoption

- 3,500 facilities have ordered Leqvio® (+13% vs. Q3)
- ~55% of business is from in-office buy & bill

### **Continued execution on growth enablers**

- Depth is increasing in key accounts
- Buy & bill is fastest growing acquisition channel
- Improved HCP targeting driving increase in breadth and depth

### **Ex-US: Rollout continues**

- 29 countries with public reimbursement
- 39 countries have private (commercial) coverage
- Solid early uptake in China self-pay market

### **Outcomes trials**

On track for readout 2026+

HCP – healthcare professional. 1. Includes PCSK9 mAbs and bempedoic acid. Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 49 of Condensed Financial Report.







### **GROWTH**

#### Content

Click below to navigate through the document

**Company overview** 

Financial review

Conclusions

Appendix

References

# Fabhalta<sup>®1</sup>: FDA approved with compelling label in PNH Positive early launch signals, expect modest ramp



### Strong product profile reflected in label

### **Compelling data**

- Hb improvement vs. C5i in patients with residual anemia
- Transfusion avoidance
- Comprehensive IVH and EVH control
- Demonstrated safety profile

### **Broad population**

- Adults with PNH
- Naive and switch

### **Oral administration**

- First oral monotherapy
- REMS requirements similar to other complement inhibitors



## Positive early launch signals, expect modest ramp

### **Launch execution**

- Promotion started early Dec incl. at ASH
- REMS and patient support programs live
- First patients initiated shortly after approval

### **Sentiment**

- Positive HCP sentiment on efficacy, safety and oral profile
- Strong interest from patients/patient groups

### Access

- Distribution with two national specialty pharmacies
- Bridge support in place pending payer coverage

PNH – paroxysmal nocturnal hemoglobinuria. C5i – complement 5 inhibitor. IVH – intravascular hemolysis. EVH – extravascular hemolysis. REMS – risk evaluation and mitigation strategies. ASH – American Society of Hematology HCP – healthcare professional. 1. Iptacopan is the generic name for unapproved indications





Click below to navigate through the document

#### **Company overview**

Financial review

Conclusions

Appendix

References

# Achieved our innovation milestones in 2023 10 positive Ph3 readouts for medicines with significant sales potential<sup>1</sup>

		Status update – as of end Q4	
Regulatory	Cosentyx® HS	EU approval (Q2), US approval (Q4)	
decisions	Cosentyx® 2ml Al	US approval (Q2)	
	Cosentyx® IV	US approval (Q4)	
	Fabhalta® (iptacopan) PNH	US approval (Q4)	
	Leqvio® Hypercholesterolemia	Japan and China approval in Q3	
Submissions	lptacopan PNH (US/EU/JP)	Filed in US, EU (Q2), JP (Q3)	
	Kisqali <sup>®</sup> HR+/HER2- BC (adj)	Filed in EU in Q3, in US in Q4	
	Pluvicto® mCRPC, pre-taxane (US)	US submission expected in 2024	
Readouts	Atrasentan IgAN	Met pre-specified interim analysis primary endpoint in Q4	
	Kisqali® HR+/HER2- BC (adj)	Primary endpoint met at interim analysis; 500 iDFS event milestone reached; data consistent with interim analysis (March 2023 <sup>2</sup> )	
	Iptacopan IgAN	Met pre-specified interim analysis primary endpoint in Q3	
	Iptacopan C3G	Met primary endpoint in Q4	
	Lutathera® GEP-NETs	Met primary endpoint in Q3	
	Remibrutinib CSU	Met primary endpoint in Q4	
Ph3 starts	Iptacopan in IC-MPGN	APPARENT trial (Q2)	
	Leqvio® CVRR primary prevention	VICTORION-1P (Q1)	
	lanalumab in immune thrombocytopenia	1L (VAYHIT1) and 2L (VAYHIT2) (H1)	
	lanalumab in systemic lupus erythematosus	SIRIUS-SLE 1 and 2 (Q1)	

## 10 positive Ph3 readouts

- 1 Kisqali<sup>®</sup> eBC NATALEE
- 2 Iptacopan PNH APPOINT
- 3 Remibrutinib CSU REMIX-1
- 4 Remibrutinib CSU REMIX-2
- 5 Lutathera® GEP-NETs NETTER-2
- 6 Iptacopan IgAN APPLAUSE
- Pluvicto® mCRPC pre-taxane PSMAfore
- 8 Atrasentan IgAN ALIGN
- 9 Iptacopan C3G APPEAR
- 10 Scemblix® 1L CML ASC4FIRST (Jan 2024)

HS – hidradenitis suppurativa. PNH – paroxysmal nocturnal hemoglobinuria. mCRPC – metastatic castration-resistant prostate cancer. FIR – first interpretable results. IgAN – immunoglobulin A nephropathy. C3G – complement 3 Glomerulopathy. IC-MPGN – immune complex membranoproliferative glomerulopephritis. 1. Readout or presentations 2. Interim analysis in March 2023, data presented at ASCO 2023.





Click below to navigate through the document

**Company overview** 

Financial review

Conclusions

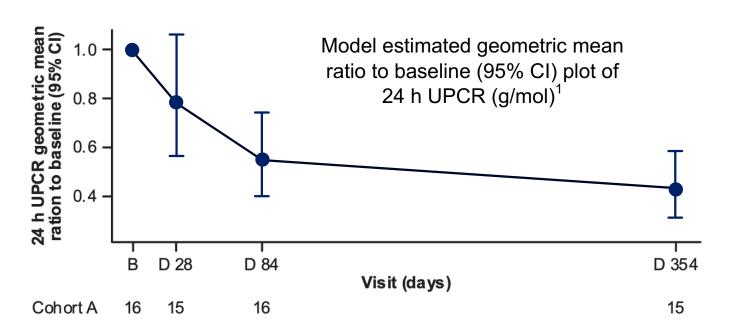
**Appendix** 

References

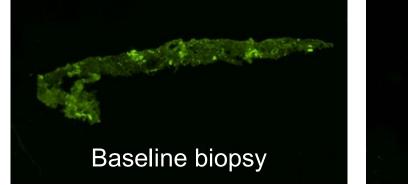
# Iptacopan: Ph3 APPEAR study demonstrates clinically meaningful and statistically significant proteinuria reduction in patients with C3G

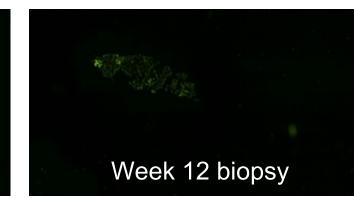
## Ph2 showed sustained benefits up to 1 year

Primary endpoint native kidney



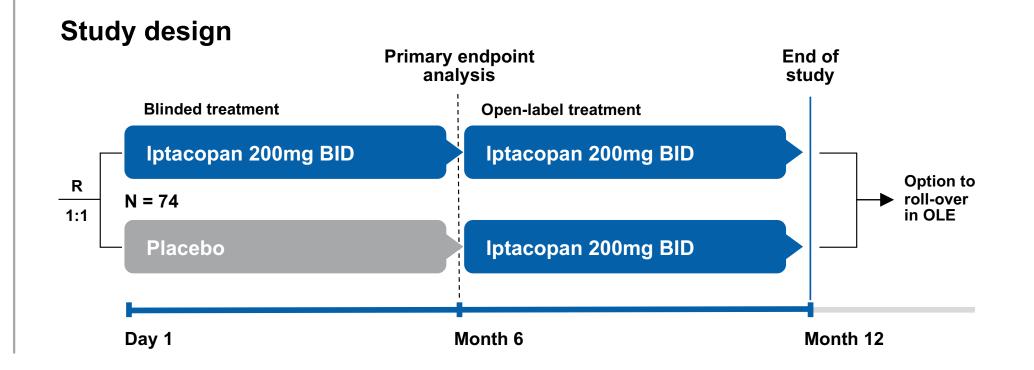
# Primary endpoint transplanted kidney<sup>2</sup>





## Ph3 met primary endpoint<sup>3</sup>

- Clinically meaningful and statistically significant proteinuria reduction at six-month analysis
- Safety profile consistent with previously reported data
- Simple administration: Oral



### Review results with health authorities for potential submissions in 2024

RoE – Roll-over extension. UPCR – urine protein creatinine ratio. CI – confidence interval. 1. ASN 2022 poster. 2. Kidney biopsy baseline → Week 12 C3 Deposit Score. Wong EK, et al. ePoster ASN 2021. 3. December 2023.





Click below to navigate through the document

#### **Company overview**

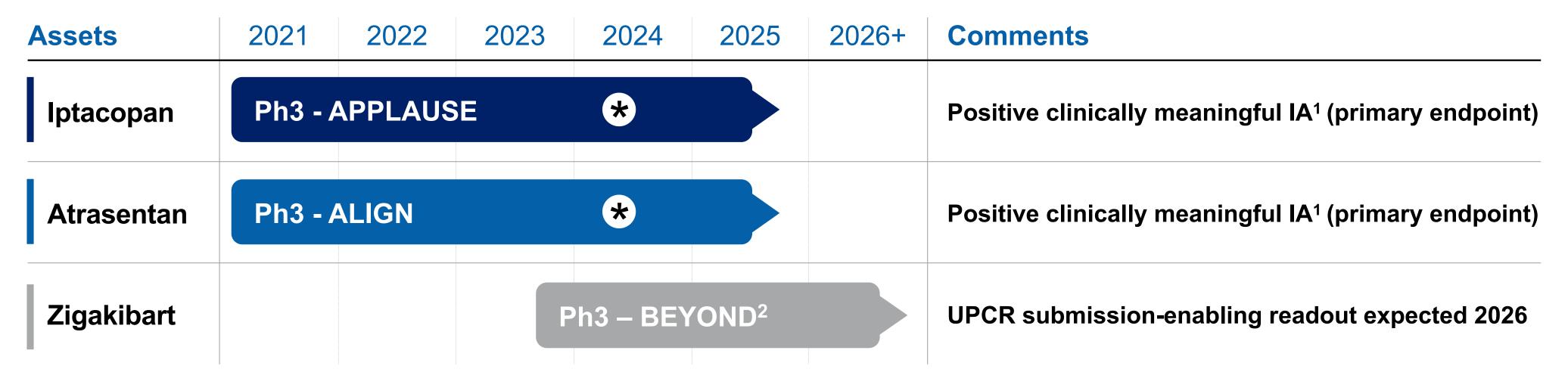
Financial review

Conclusions

**Appendix** 

References

# Iptacopan and atrasentan: Positive Ph3 readouts demonstrating clinically meaningful proteinuria reduction in IgAN



★ US submission for accelerated approval

Iptacopan and atrasentan FDA submissions expected in H1 2024, based on proteinuria reduction Studies continue to confirmatory endpoint (eGFR) in 2025

UPCR – urine protein creatinine ratio. 1. October 2023, 9 months readout may support US submission for accelerated approval. 2. Global, randomized, multicenter, double-blind, placebo-controlled Ph3 comparing safety and efficacy of zigakibart (600mg Q2W) vs. placebo in patients (N~272) with IgAN at risk of progressive loss of kidney function.





Click below to navigate through the document

Company overview

Financial review

Conclusions

Appendix

References

# Expect to continue our innovation momentum in 2024...

2024 selected key events (expected)

		H1 2024	H2 2024
Regulatory decisions	Fabhalta® PNH		EU, JP
	Kisqali® HR+/HER2- adj.BC		US, EU
Submissions	Atrasentan IgAN	US	
	Iptacopan C3G	US	EU
	Iptacopan IgAN	US	
	Pluvicto® mCRPC, pre-taxane		US
	Remibrutinib CSU		US, EU, JP
	Scemblix® CML 1L	US	JP
	Lutathera® GEP-NET 1L G2/G3	EU	
Readouts	Scemblix® CML 1L	Ph3 (ASC4FIRST)	
	Zolgensma® SMA IT		Ph3 (STEER)
	XXB750 Hypertension		Ph2
Ph3 starts	Pluvicto® Oligometastatic prostate cancer	Ph3	
	Opnurasib 1L NSCLC (combo)¹	Ph2/3	

PNH – paroxysmal nocturnal hemoglobinuria. mCRPC – metastatic castration-resistant prostate cancer. FIR – first interpretable results. IgAN – immunoglobulin A nephropathy. C3G – complement 3 Glomerulopathy. cCSU – Chronic spontaneous urticaria. CML – Chronic myeloid leukemia. SMA – Spinal muscular atrophy. NSCLC – Non-small cell lung cancer. 1. This is a seamless Ph2/3 trial.





Click below to navigate through the document

**Company overview** 

Financial review

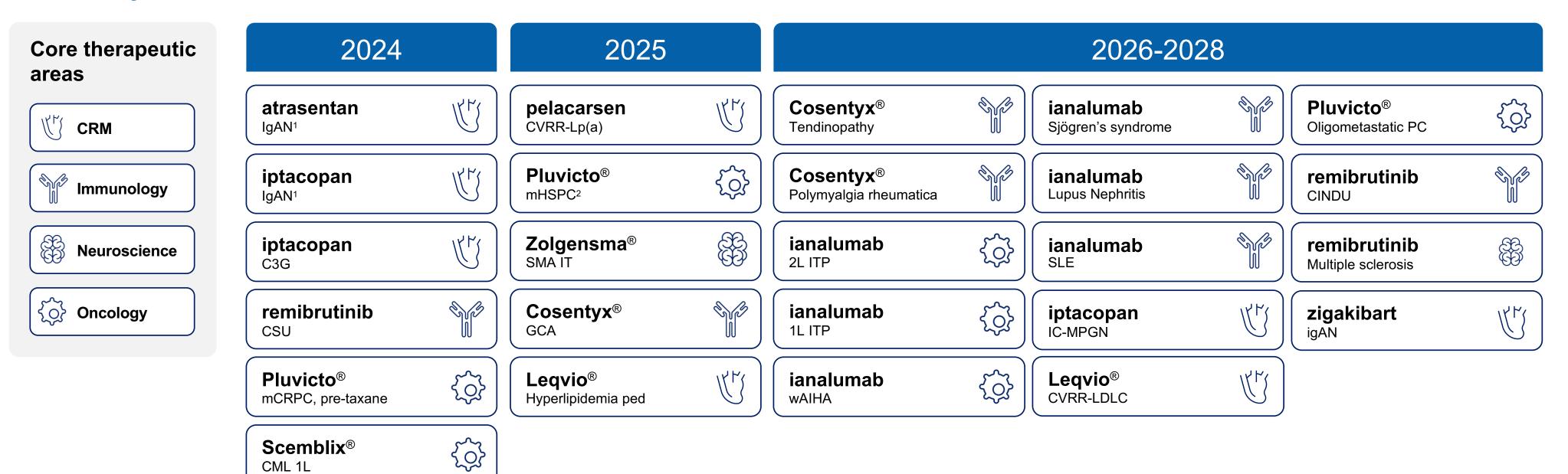
Conclusions

Appendix

References

# ... and to deliver >20 key submissions in core therapeutic areas by 2028

## Select key assets submission schedule





<sup>1.</sup> US submission for accelerated approval. 2. Event-driven trial endpoint.



Click below to navigate through the document

#### **Company overview**

Financial review

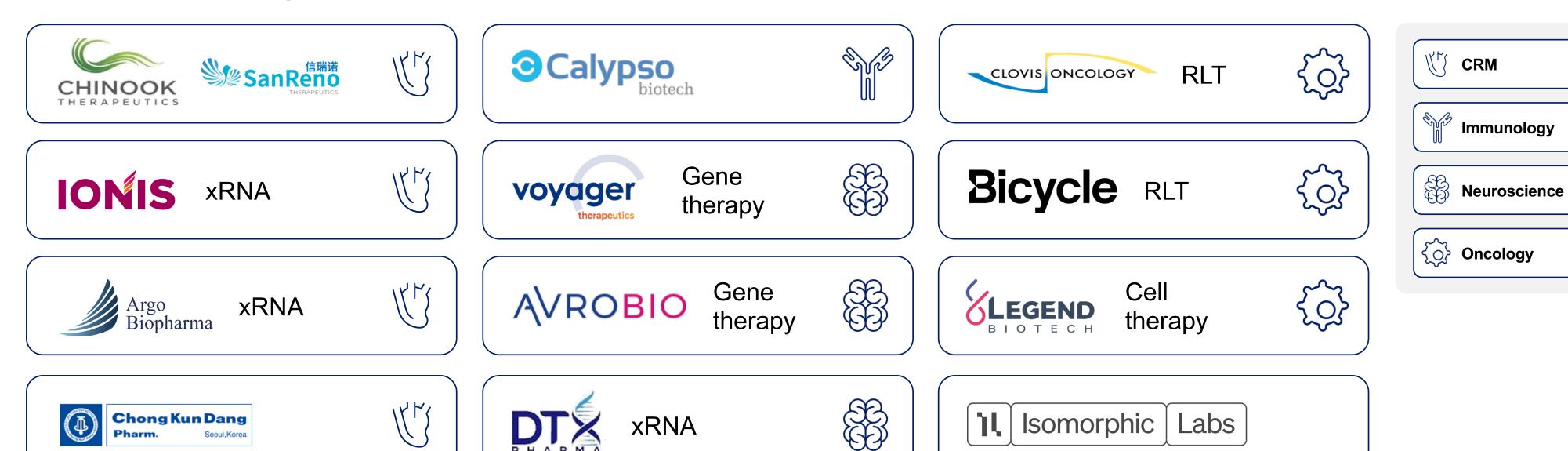
Conclusions

**Appendix** 

References

# We have signed >15 strategic deals during the last year, totaling >6bn USD, to enhance our pipeline across core therapeutic areas and technology platforms

## **Select recent examples**



Note: Number of strategic M&A and BD&L transactions announced, value reflecting upfront payments.





Click below to navigate through the document

#### **Company overview**

Financial review

Conclusions

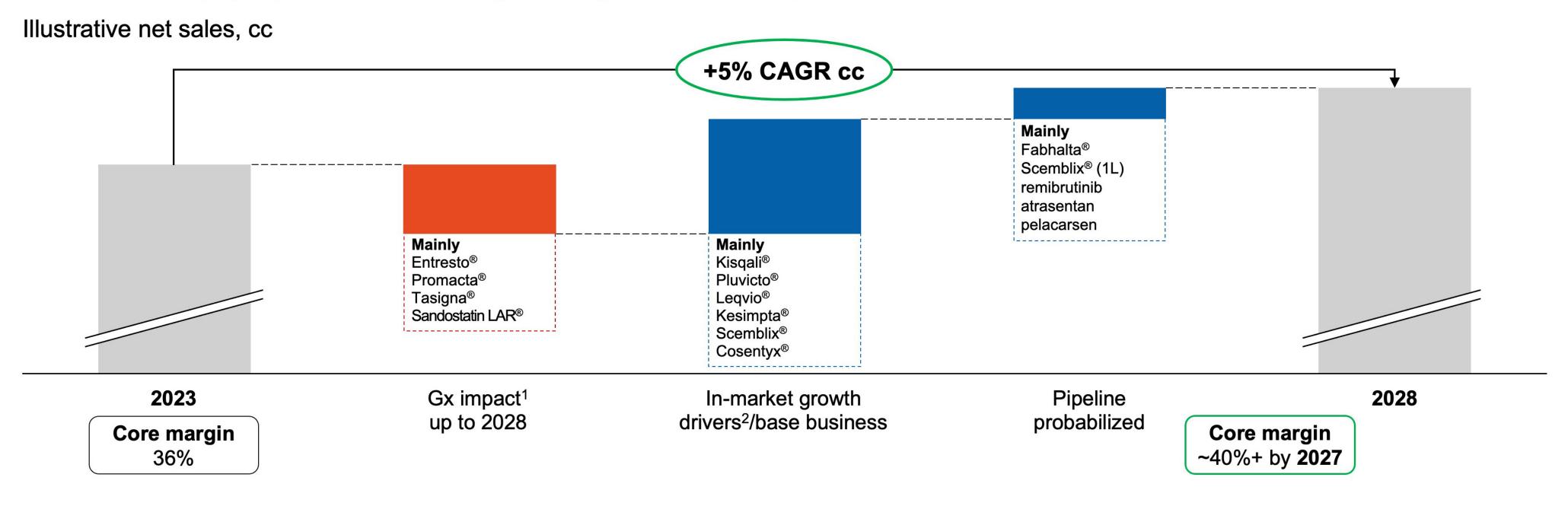
**Appendix** 

References

# Updating mid-term sales guidance: Expect to grow +5% CAGR 2023-2028 and maintaining core margin of ~40%+ by 2027

## **Updated mid-term guidance**

2023-2028 +5% (cc) expected sales CAGR (previous guidance 2022-27)



Note: All figures reflecting Continuing Operations. 1. For forecasting purposes, we assume Entresto US LoE in 2025. 2. Including indication expansion. Leqvio – licensed from Alnylam Pharmaceuticals, Inc. Pelacarsen – licensed from Ionis Pharmaceuticals. Inc.





Click below to navigate through the document

**Company overview** 

Financial review

Conclusions

Appendix

References

# We continue to focus on material environmental, social and governance factors alongside our pursuit of sustainable shareholder value creation

### **Value creation**

### Innovation and access to medicines

Future-proof pipeline addressing unmet need

**Broad access** to medicines

### Human Capital

Diversity, Equity & Inclusion

Culture

## **Risk mitigation**

### **Environmental Sustainability**

Climate

Water

# **Ethical**

**Ethics** 

Compliance

**Standards** 

Human rights Waste

# **Enablers**

Governance, transparency, non-financial reporting

# Consistent industry-leading performance across priority ESG ratings

#1 in Sustainalytics<sup>1</sup> Leaders group in MSCI Industry leader group in ISS ESG Leadership group in ATMI AA in CDP climate and water



# Right thing to do

Creating sustainable social and economic impact

ATMI – Access to Medicines Index. 1. Pharmaceuticals subindustry group. Copyright Morningstar Sustainalytics. All rights reserved.







Click below to navigate through the document

Company overview

**Financial review** 

Conclusions

Appendix

References

Financial review and 2024 guidance

**Harry Kirsch** 

**Chief Financial Officer** 







Click below to navigate through the document

Company overview

**Financial review** 

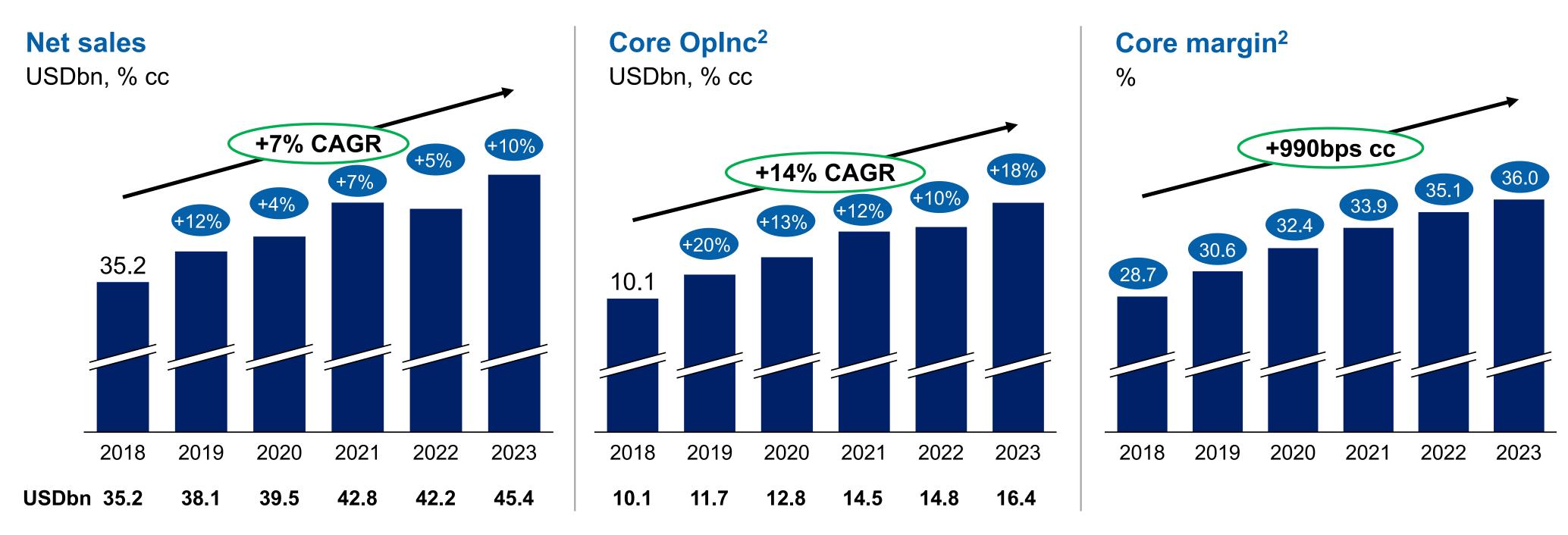
Conclusions

**Appendix** 

References

# Novartis continues to deliver strong operational performance over a number of years...

Continuing operations<sup>1</sup> performance, *numbers restated post-Sandoz spin-off* 



<sup>1.</sup> As defined on page 37 of the Condensed Financial Report, Continuing operations include the retained business activities of Novartis, comprising the Innovative Medicines Division and the continuing Corporate activities. 2. Core results and constant currencies are non-IFRS measures. Details regarding non-IFRS measures can be found starting on page 49 of the Condensed Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.





Click below to navigate through the document

Company overview

**Financial review** 

Conclusions

**Appendix** 

References

# ... and in 2023, met/exceeded our upgraded FY guidance

# Continuing operations<sup>1</sup>

In cc

FY guidance (Q3 earnings Oct 2023)

Actual results FY 2023 vs. PY

Prior guidance before upgrades (Q4 2022) Sales expected to grow high single-digit

+10%

Guidance as per Q4 2022 earnings
Sales expected to grow low to mid single-digit

Core operating income expected to grow mid to high-teens

+18%

Guidance as per Q4 2022 earnings
Core operating income expected to grow
mid to high single-digit

<sup>1.</sup> As defined on page 37 of the Condensed Financial Report, Continuing operations include the retained business activities of Novartis, comprising the Innovative Medicines Division and the continuing Corporate activities. Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 49 of Condensed Financial Report.



Click below to navigate through the document

Company overview

**Financial review** 

Conclusions

Appendix

References

# Robust top and bottom-line growth during the quarter and FY

Continuing operations <sup>1</sup>	Q4 2023	Change vs. PY	
USD million		% USD	% сс
Net sales	11,423	8	10
Core operating income	3,821	5	13
Core margin	33.5%		1% pts
Operating income	2,582	47	68
Net Income	2,638	101	130
Core EPS (USD)	1.53	10	16
EPS (USD)	1.29	108	140
Free cash flow	2,141	-38	

FY	Change vs. PY		
2023	% USD	% сс	
45,440	8	10	
16,372	11	18	
36.0%		2.4% pts	
9,769	23	39	
8,572	42	62	
6.47	18	25	
4.13	49	70	
13,160	9		

<sup>1.</sup> As defined on page 37 of the Condensed Financial Report, Continuing operations include the retained business activities of Novartis, comprising the Innovative Medicines Division and the continuing Corporate activities. Core results and constant currencies are non-IFRS measures. Details regarding non-IFRS measures can be found starting on page 49 of the Condensed Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.





Click below to navigate through the document

Company overview

**Financial review** 

Conclusions

**Appendix** 

References

# Continuing to create significant shareholder value

## **Investing in the business**

## Investments in organic business

R&D >USD 47bn, CAPEX >USD 6bn 2018-20231

Value-creating bolt-ons

>USD 33bn 2018-2023

# Returning capital to shareholders

## Consistently growing annual dividend<sup>2</sup>

>USD 42bn of dividends 2018-2023 No rebasing post Alcon and Sandoz spin-off

### **Share buybacks**

>USD 32bn 2018-2023 New USD 15bn SBB commenced in Jul 2023

# Whilst also creating shareholder value via numerous strategic actions

Jun 2018

Divested consumer health JV

Apr 2019
Spun Alcon

Nov 2021 **Exited Roche stake** 

**Substantial** 

cash

generation

Oct 2023
Spun Sandoz

1. Core R&D and CAPEX actuals. 2. In CHF.





Click below to navigate through the document

Company overview

**Financial review** 

Conclusions

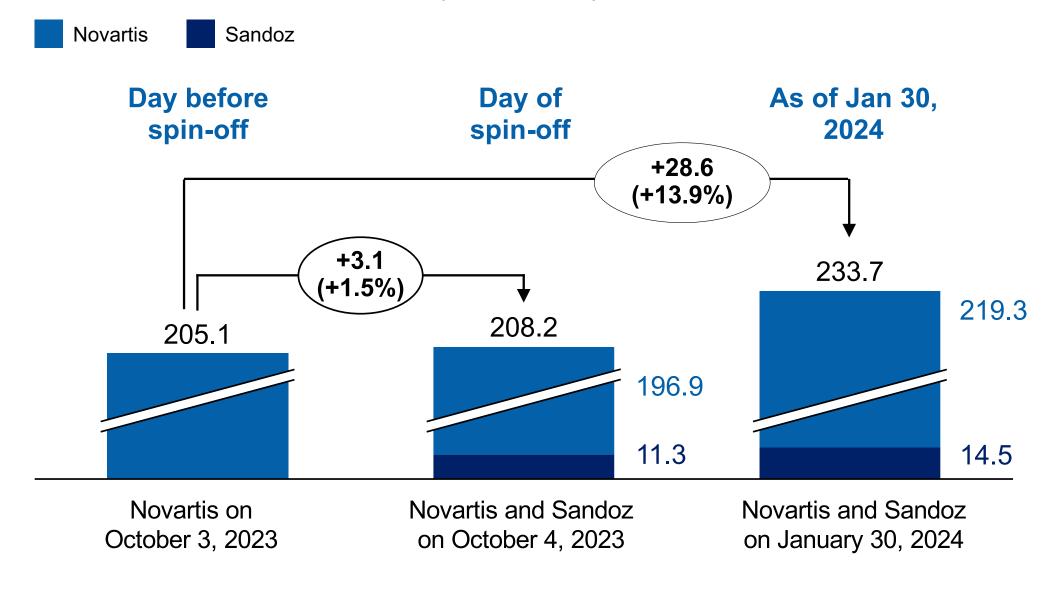
**Appendix** 

References

# For Novartis and Sandoz shareholders since October 3, 2023, USD 28.6bn (+13.9%) of value has been created

## Market capitalization growth since the Sandoz spin-off

Total market capitalization<sup>1,2</sup> (in USD bn)



## Sandoz spin-off highlights

- Completed the separation of Sandoz to create an independent company by way of 100% spin-off (Oct 4, 2023)
- Shares of Sandoz are listed on the SIX Swiss Exchange and traded OTC in the US
- Novartis continues with its consistently growing annual dividend with no re-basing post the Sandoz spin-off



<sup>1.</sup> Market capitalization of Novartis on October 3, 2023 is based on closing share price and outstanding shares of 2,055,060,483 (as per October 3); market capitalization for Novartis and Sandoz on October 4, 2023 are based on opening share prices on October 4, outstanding shares of 2,055,060,483 for Novartis and 431,000,000 shares for Sandoz; market capitalization for Novartis and Sandoz on January 30, 2024 are based on closing share prices on January 30, outstanding shares as of December 31, 2023 of 2,044,033,986 for Novartis and 431,000,000 shares for Sandoz. 2. USD values based on USD/CHF exchange rates as per the respective days; source: Bloomberg.



Click below to navigate through the document

Company overview

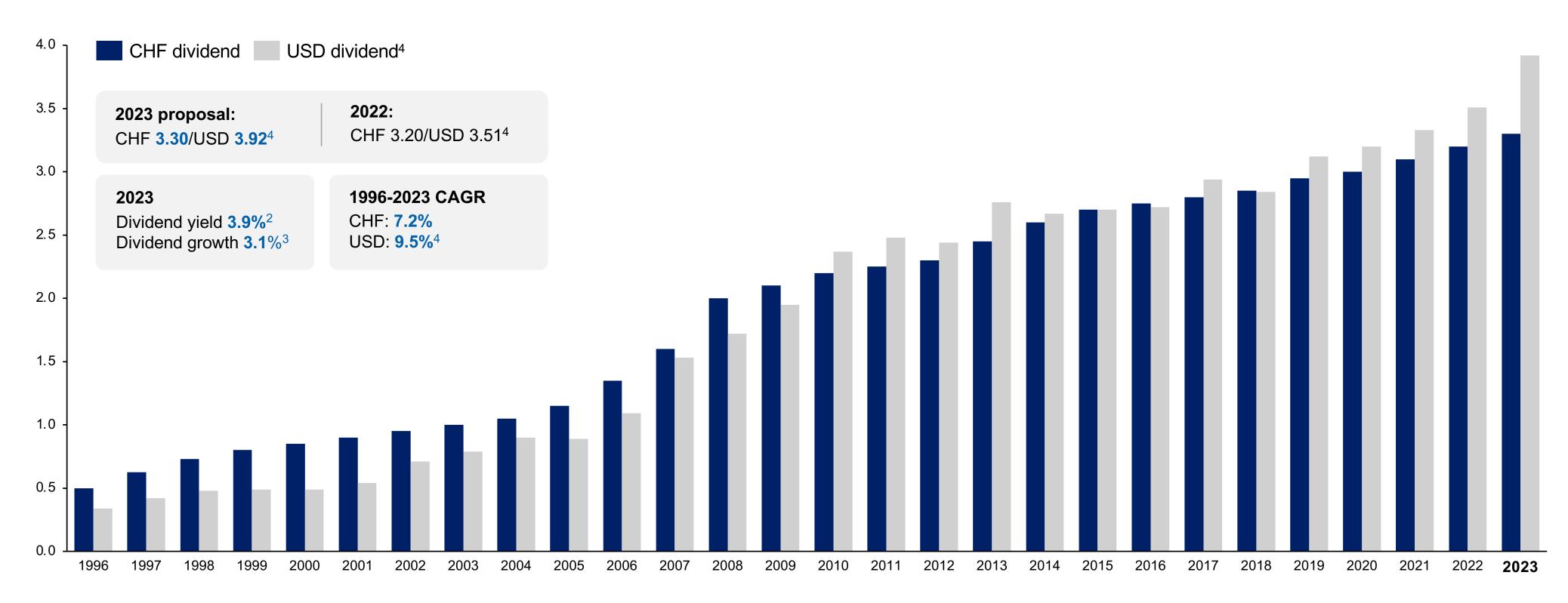
Financial review

Conclusions

**Appendix** 

References

# Novartis proposes 3.30 CHF/share<sup>1</sup> dividend at the AGM; 27th consecutive dividend increase (no rebasing post Sandoz spin-off)



<sup>1.</sup> Proposal to shareholders at the 2024 Annual General Meeting, taking place on March 5, 2024. 2. Based on the NOVN closing share price of CHF 84.87, as of December 29, 2023. 3. In CHF.



<sup>4.</sup> Historical dividends per share converted at historical exchange rates at the dividend payment dates as per Bloomberg; for 2023, translated into US dollars at the FX rate of CHF/USD of 1.189, as of December 31, 2023.



Click below to navigate through the document

Company overview

**Financial review** 

Conclusions

**Appendix** 

References

# Novartis (continuing operations<sup>1</sup>) 2024 full year guidance

Expected, barring unforeseen events; growth vs. PY in cc

Net sales expected to grow mid-single-digit

Core operating income expected to grow high single-digit

# **Key assumptions**

No US Entresto<sup>®</sup> Gx launch in 2024

# FY 2024 guidance on other financial KPIs

- Core net financial result: Expenses expected to be around USD 0.6bn to 0.7bn
- Core tax rate: Expected to be around 16-16.5%



<sup>1.</sup> As defined on page 37 of the Condensed Financial Report, Continuing operations include the retained business activities of Novartis, comprising the Innovative Medicines Division and the continuing Corporate activities. Core results and constant currencies are non-IFRS measures. Further details regarding non-IFRS measures can be found starting on page 49 of the Condensed Financial Report.



Click below to navigate through the document

Company overview

Financial review

Conclusions

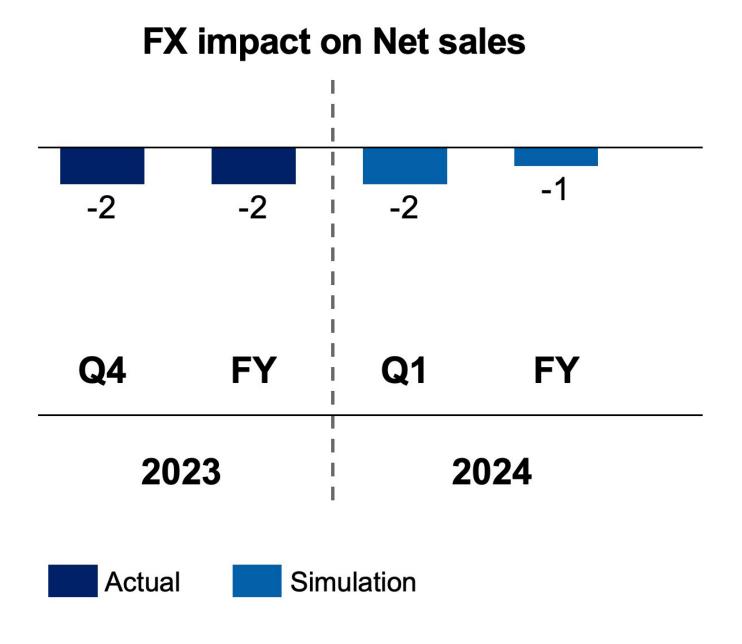
**Appendix** 

References

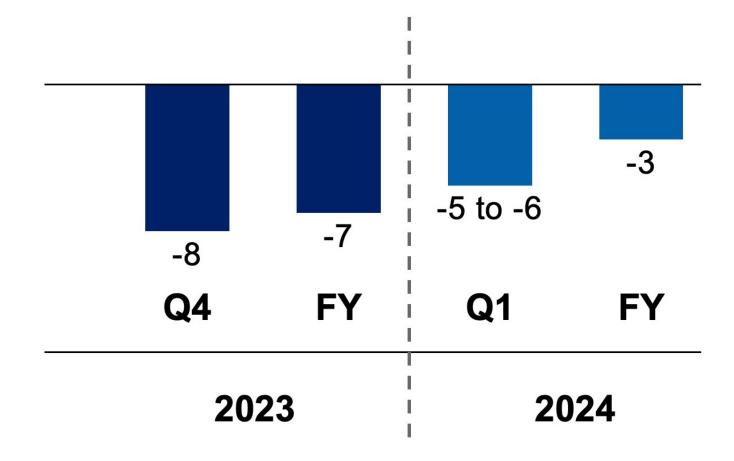
# Expected currency impact for Q1 and full year 2024

## **Currency impact vs. PY**

%pts, assuming late-January exchange rates prevail in 2024



## **FX** impact on Core operating income



Q4 Core OpInc FX impact includes app. -2%pts from the effect of mid Dec Argentina ARS devaluation<sup>1</sup>



<sup>1.</sup> Core results are non-IFRS measures as defined on page 49 of Condensed Financial Report. 2. IFRS requires for our Argentina subsidiary, as it operates in a hyperinflation economy, to translate for consolidation purposes their full year income statement to our USD presentation currency using the ARS closing rate, and not using the average exchange rate for the period. This results in the 9-months and the Q4 devaluation impact being recognized in Q4.





Click below to navigate through the document

Company overview

Financial review

Conclusions

**Appendix** 

References

# Conclusions

Vas Narasimhan, M.D. **Chief Executive Officer** 







Click below to navigate through the document

Company overview

Financial review

Conclusions

**Appendix** 

References

Very strong 2023: Double-digit growth for sales and Core Oplnc for the quarter and full year

**Met/exceeded all strategic, operational and innovation targets:** Including successful Sandoz spin-off; 10 positive Ph3 readouts with significant sales potential

Confident for 2024 and mid-term guidance of 5% cc sales CAGR 2023-28, ~40%+ margin by 2027





Click below to navigate through the document

Company overview

Financial review

Conclusions

### **Appendix**

Innovation: Pipeline overview Financial performance Innovation: Clinical trials Abbreviations

References

# Appendix







Click below to navigate through the document

Company overview

Financial review

Conclusions

### **Appendix**

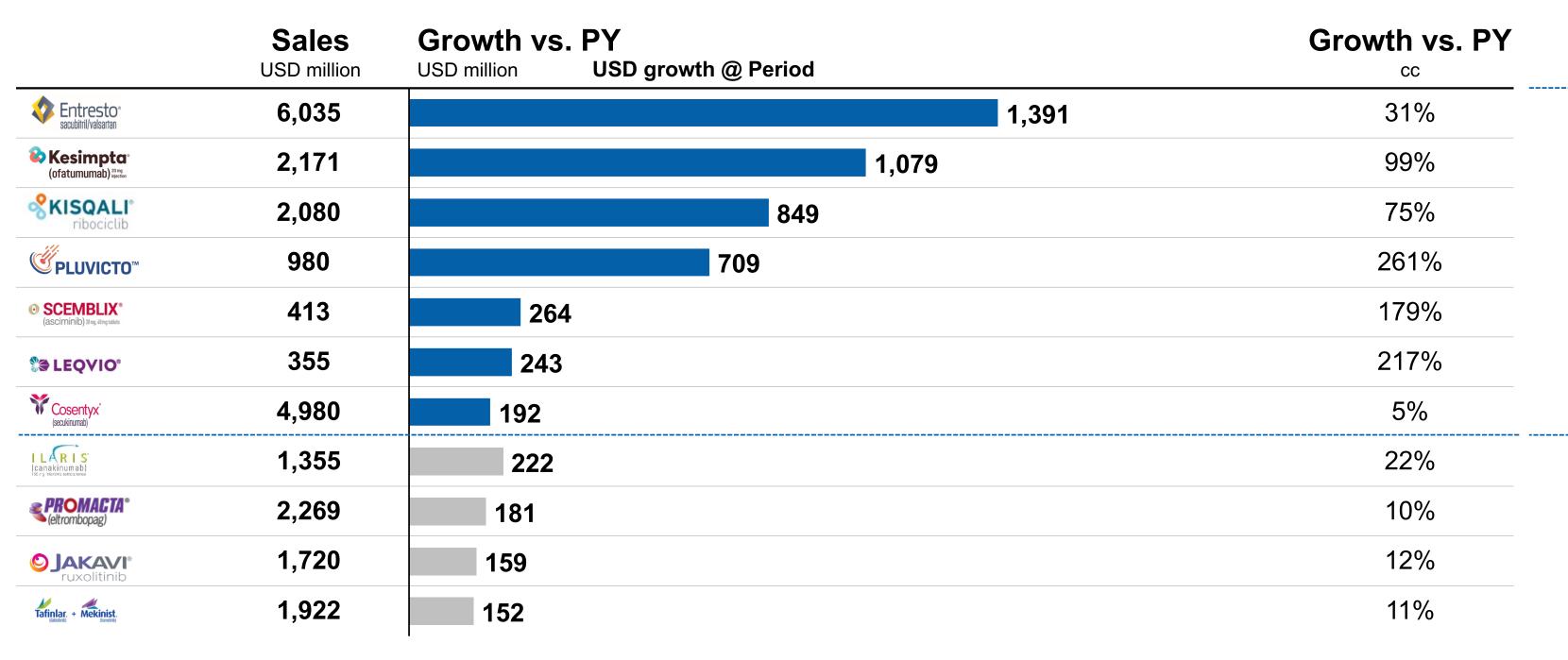
**Innovation: Pipeline overview** 

Financial performance
Innovation: Clinical trials
Abbreviations

References

# Strong FY growth driven by performance from Entresto<sup>®</sup>, Kesimpta<sup>®</sup>, Kisqali<sup>®</sup> and Pluvicto<sup>®</sup>

### FY sales



Strong growth (+40% cc); expected to continue

Constant currencies (cc) is a non-IFRS measure; explanation of non-IFRS measures can be found on page 49 of Condensed Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.





Click below to navigate through the document

Company overview

Financial review

Conclusions

**Appendix** 

Innovation: Pipeline overview

Financial performance Innovation: Clinical trials Abbreviations

References

# Our pipeline projects at a glance

	Phase 1/2	Phase 3	Registration	Total
Oncology	25	12	3	40
Solid tumors	18	6	3	27
Hematology	7	6	0	13
Immunology	17	10	1	28
Neuroscience	5	5	0	10
Cardiovascular, Renal and Metabolic	6	10	0	16
Others (thereof IB&GH)	11 (7)	4 (3)	0	15
	64	41	4	109

IB&GH: In-market Brands and Global Health.





Click below to navigate through the document

Company overview

Financial review

Conclusions

**Appendix** 

**Innovation: Pipeline overview** 

Financial performance Innovation: Clinical trials **Abbreviations** 

References

# Novartis pipeline in Phase 1

Oncol	Oncology				
Code	Name	Mechanism	Indication(s)		
Solid to	umors				
AAA603	<sup>177</sup> Lu-NeoB	Radioligand therapy target GRPR	Multiple solid tumors		
			Breast cancer		
			Glioblastoma multiforme		
AAA604	AAA604	Radioligand therapy target integrin beta-3/beta-5	Pancreatic cancer		
AAA614	AAA614	Radioligand therapy target FAP	Solid tumors		
AAA802	<sup>225</sup> Ac-PSMA-R2	Radioligand therapy target PSMA	Prostate cancer		
AAA817	<sup>225</sup> Ac-PSMA-617	Radioligand therapy target PSMA	Metastatic castration-resistant prostate cancer		
HRO761	HRO761	Werner inhibitor	Solid tumors		
IAG933	IAG933	-	Mesothelioma		
KFA115	KFA115	Novel immunomodulatory Agent	Solid tumors		
MGY825	MGY825	-	NSCLC		
NZV930	NZV930	CD73 antagonist	Solid tumors		
QEQ278	QEQ278	NKG2D/-L pathway modulator	Solid tumors		
Hemate	Hematology				
DFV890	DFV890	NLRP3 inhibitor	Low risk myelodysplastic syndrome		
PIT565	PIT565	-	B-cell malignancies		
YTB323	rapcabtagene autoleucel	CD19 CAR-T	Adult ALL		

Cardio	Cardiovascular, Renal and Metabolic				
Code	Name	Mechanism	Indication(s)		
DFV890	DFV890	NLRP3 inhibitor	Cardiovascular risk reduction		

# 17 lead indications

Lead indication

Neuroscience				
Code	Name	Mechanism	Indication(s)	
DFT383	DFT383	CTNS gene delivery	Cystinosis pre/post kidney transplant	
NIO752	NIO752	Tau antisense oligonucleotide	Alzheimer's disease	
			Progressive supranuclear palsy	

Immui	nology		
Code	Name	Mechanism	Indication(s)
MHV370	MHV370	TLR7, TLR8 Antagonist	Systemic lupus erythematosus

Others					
Code	Name	Mechanism	Indication(s)		
IB&GH					
EDI048	EDI048	CpPI(4)K inhibitor	Cryptosporidiosis		
EYU688	EYU688	NS4B inhibitor	Dengue		
INE963	INE963	-	Malaria, uncomplicated		





Click below to navigate through the document

Company overview

Financial review

Conclusions

**Appendix** 

**Innovation: Pipeline overview** 

Financial performance Innovation: Clinical trials **Abbreviations** 

References

# **Novartis pipeline in Phase 2**

Oncology					
Code	Name	Mechanism	Indication(s)		
Solid to	umors				
AAA601	Lutathera®	Radioligand therapy target SSTR	GEPNET, pediatrics		
			1L ES-SCLC		
			Glioblastoma		
JDQ443	opnurasib	KRAS inhibitor	NSCLC and CRC (mono and/or combo)		
TNO155	TNO155	SHP2 inhibitor	Solid tumors		
Hematology					
ABL001	Scemblix <sup>®</sup>	BCR-ABL inhibitor	Chronic myeloid leukemia, 2L, pediatrics		
PHE885	durcabtagene autoleucel	BCMA cell therapy	4L multiple myeloma		
PKC412	Rydapt <sup>®</sup>	Multi-targeted kinase inhibitor	Acute myeloid leukemia, pediatrics		
YTB323	rapcabtagene autoleucel	CD19 CAR-T	1L high-risk large B-cell lymphoma		

Neuro	science		
Code	Name	Mechanism	Indication(s)
BLZ945	sotuletinib	CSF-1R inhibitor	Amyotrophic lateral sclerosis
DLX313 <sup>1</sup>	minzasolmin	Alpha-synuclein misfolding inhibitor	Parkinson's disease

Cardio	Cardiovascular, Renal and Metabolic				
Code	Name	Mechanism	Indication(s)		
CFZ533	iscalimab	CD40 inhibitor	Lupus nephritis		
LNP023	iptacopan	CFB inhibitor	Lupus nephritis		
TIN816	TIN816	ATP modulator	Acute kidney injury		
XXB750	XXB750	NPR1 agonist	Hypertension		
			Heart failure		

1. DLX313 is the Novartis compound code for UCB0599.

# 20 lead indications

Lead indication

Immur	Immunology				
Code	Name	Mechanism	Indication(s)		
CFZ533	iscalimab	CD40 inhibitor	Sjögren's		
DFV890	DFV890	NLRP3 inhibitor	Osteoarthritis		
			Familial cold auto-inflammatory syndrome		
LNA043	LNA043	ANGPTL3 agonist	Osteoarthritis		
			Osteoarthritis (combos)		
LOU064	remibrutinib	BTK inhibitor	Food allergy		
			Hidradenitis suppurativa		
LRX712	LRX712	-	Osteoarthritis		
MAS825	MAS825	-	NLRC4-GOF indications		
MHV370	MHV370	TLR7, TLR8 Antagonist	Sjögren's		
			Mixed connective tissue disease		
NGI226	NGI226	-	Tendinopathy		
QUC398	QUC398	ADAMTS5 inhibitor	Osteoarthritis		
RHH646	RHH646	-	Osteoarthritis		
VAY736	ianalumab	BAFF-R inhibitor, ADCC- mediated B-cell depletor	Autoimmune hepatitis		
YTB323	rapcabtagene autoleucel	CD19 CAR-T	srSLE/LN		

Others					
Code	Name	Mechanism	Indication(s)		
IB&GF	1				
KAE609	cipargamin	PfATP4 inhibitor	Malaria, severe		
			Malaria, uncomplicated		
LXE408	LXE408	Proteasome inhibitor	Visceral leishmaniasis		
SEG101	Adakveo <sup>®</sup>	P-selectin inhibitor	Sickle cell disease, pediatrics		
Others	6				
CMK389	CMK389	IL-18 inhibitor	Pulmonary sarcoidosis		
LNP023	iptacopan	CFB inhibitor	iAMD		
LTP001	LTP001	SMURF1 inhibitor	Pulmonary arterial hypertension		
			Idiopathic pulmonary fibrosis		





Click below to navigate through the document

Company overview

Financial review

Conclusions

**Appendix** 

**Innovation: Pipeline overview** 

Financial performance Innovation: Clinical trials **Abbreviations** 

References

# **Novartis pipeline in Phase 3**

Oncol	Oncology					
Code	Name	Mechanism	Indication(s)			
Solid tu	ımors					
AAA617	Pluvicto <sup>®</sup>	Radioligand therapy target PSMA	Metastatic castration-resistant prostate cancer (mCRPC), pre-taxane			
			Metastatic hormone sensitive prostate cancer (mHSPC)			
			Oligometastatic prostate cancer			
AAA601 <sup>1</sup>	Lutathera <sup>®</sup>	Radioligand therapy target SSTR	Gastroenteropancreatic neuroendocrine tumors, 1st line in G2/3 tumors (GEP-NET 1L G3)			
BYL719	Piqray <sup>®</sup> , Vijoyce <sup>®</sup>	PI3K-alpha inhibitor	Lymphatic malformations			
JDQ443	opnurasib	KRAS inhibitor	2/3L Non-small cell lung cancer			
Hemato	logy					
ABL001	Scemblix®	BCR-ABL inhibitor	Chronic myeloid leukemia, 1st line			
ETB115	Promacta <sup>®</sup>	Thrombopoietin receptor (TPO-R) agonist	Radiation sickness syndrome			
LNP023	iptacopan	CFB inhibitor	Atypical hemolytic uraemic syndrome			
VAY736	ianalumab	BAFF-R inhibitor, ADCC-	1L Immune Thrombocytopenia			
		mediated B-cell depletor	2L Immune Thrombocytopenia			
			warm Autoimmune Hemolytic Anemia			

Cardiovascular, Renal and Metabolic			
Code	Name	Mechanism	Indication(s)
EXV811	atrasentan	ET <sub>A</sub> receptor antagonist	IgA nephropathy
FUB523	zigakibart	Anti-APRIL	IgA nephropathy
KJX839	Leqvio <sup>®</sup>	siRNA (regulation of LDL-C)	CVRR-LDLC
			Primary prevention
			Hyperlipidemia, pediatrics
LNP023	iptacopan	CFB inhibitor	IgA nephropathy
			C3 glomerulopathy
			C3 glomerulopathy, pediatrics
			IC-MPGN
TQJ230	pelacarsen	ASO targeting Lp(a)	Secondary prevention of cardiovascular events in patients with elevated levels of lipoprotein (a) (CVRR-Lp(a))

<sup>1. 177</sup>Lu-dotatate in US.

# 8 lead indications

Lead indication

Neuroscience				
Code	Name	Mechanism	Indication(s)	
AMG334	Aimovig <sup>®</sup>	CGRPR antagonist	Migraine, pediatrics	
BAF312	Mayzent <sup>®</sup>	S1P1,5 receptor modulator	Multiple sclerosis, pediatrics	
LOU064	remibrutinib	BTK inhibitor	Multiple sclerosis	
OAV101	AVXS-101	SMN1 gene replacement therapy	SMA IT administration	
OMB157	Kesimpta <sup>®</sup>	CD20 Antagonist	Multiple sclerosis, pediatrics	

Immunology				
Code	Name	Mechanism	Indication(s)	
AIN457	Cosentyx®	IL17A inhibitor	Giant cell arteritis	
			Polymyalgia rheumatica	
			Rotator cuff tendinopathy	
LOU064	remibrutinib	BTK inhibitor	Chronic spontaneous urticaria	
			Chronic spontaneous urticaria, pediatrics	
			CINDU	
QGE031	ligelizumab	IgE inhibitor	Food allergy	
VAY736	ianalumab	BAFF-R inhibitor, ADCC-	Sjögren's	
		mediated B-cell depletor	Lupus Nephritis	
			Systemic lupus erythematosus	

Others				
Code	Name	Mechanism	Indication(s)	
IB&GH				
COA566	Coartem®	PGH-1 (artemisinin combination therapy)	Malaria, uncomplicated (<5kg patients)	
KLU156	Ganaplacide + lumefantrine	Non-artemisinin plasmodium falciparum inhibitor	Malaria, uncomplicated	
QMF149	Atectura <sup>®</sup>	LABA + ICS	Asthma, pediatrics	
Others				
RTH258	Beovu®	VEGF Inhibitor	Diabetic retinopathy	





Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance
Innovation: Clinical trials
Abbreviations

References

# Novartis pipeline in registration

Oncology				
Code	Name	Mechanism	Indication(s)	
Solid tumors				
LEE011	Kisqali <sup>®</sup>	CDK4/6 Inhibitor	HR+/HER2- BC (adj)	
INC424	Jakavi <sup>®</sup>	JAK1/2 inhibitor	Acute GVHD, pediatrics	
			Chronic GVHD, pediatrics	

Immu	nology		
Code	Name	Mechanism	Indication(s)
IGE025	Xolair <sup>®</sup>	IgE inhibitor	Food Allergy





Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

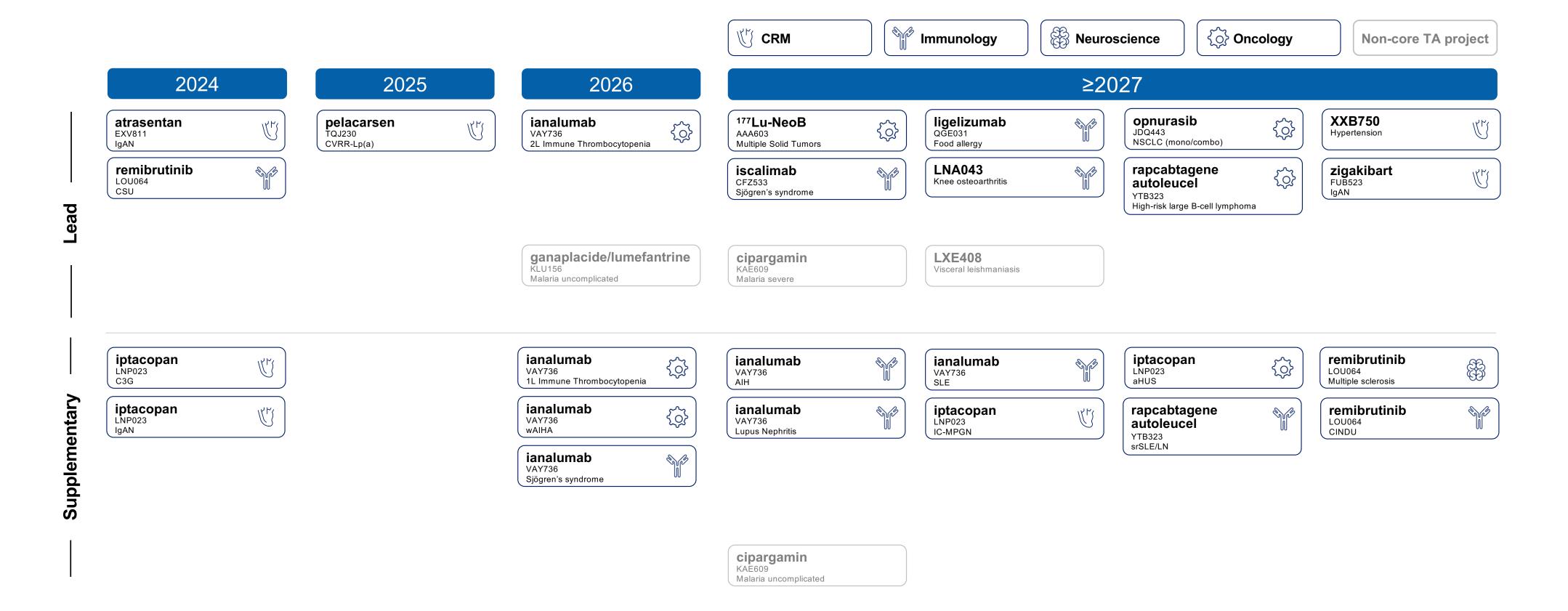
**Innovation: Pipeline overview** 

Financial performance
Innovation: Clinical trials
Abbreviations

References

# Novartis submission schedule

New Molecular Entities: Lead and supplementary indications







Click below to navigate through the document

Company overview

Financial review

Conclusions

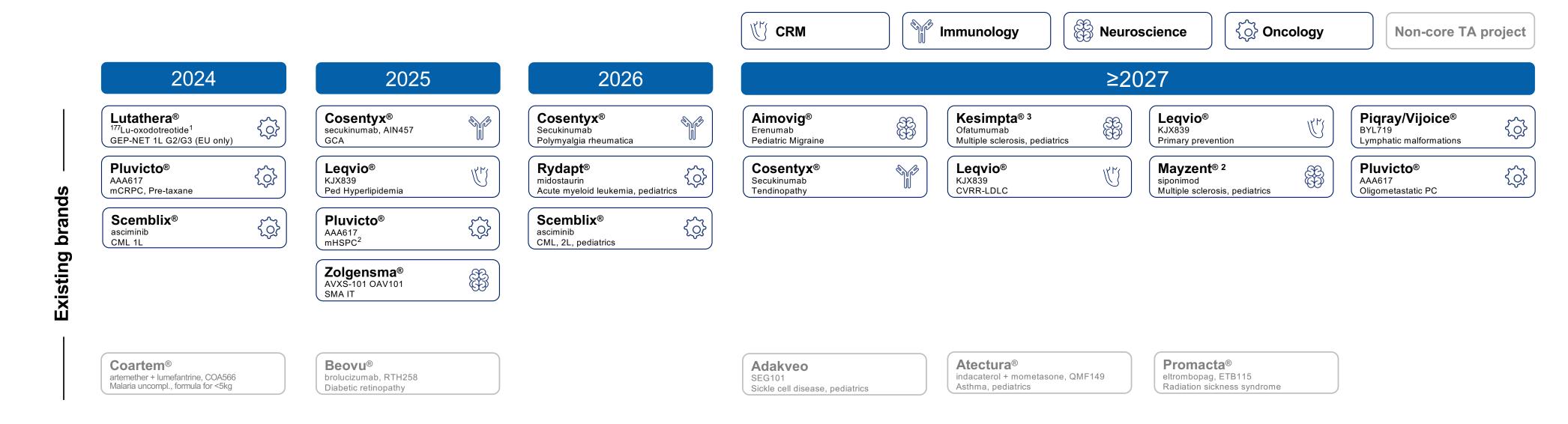
#### **Appendix**

#### **Innovation: Pipeline overview**

Financial performance
Innovation: Clinical trials
Abbreviations

References

# Novartis submission schedule Supplementary indications for existing brands





<sup>1. 177</sup>Lu-dotatate in US. 2. Event-driven trial endpoint. 3. Kesimpta and Mayzent: Pediatric trial in multiple sclerosis run in conjunction (NEOS).



Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

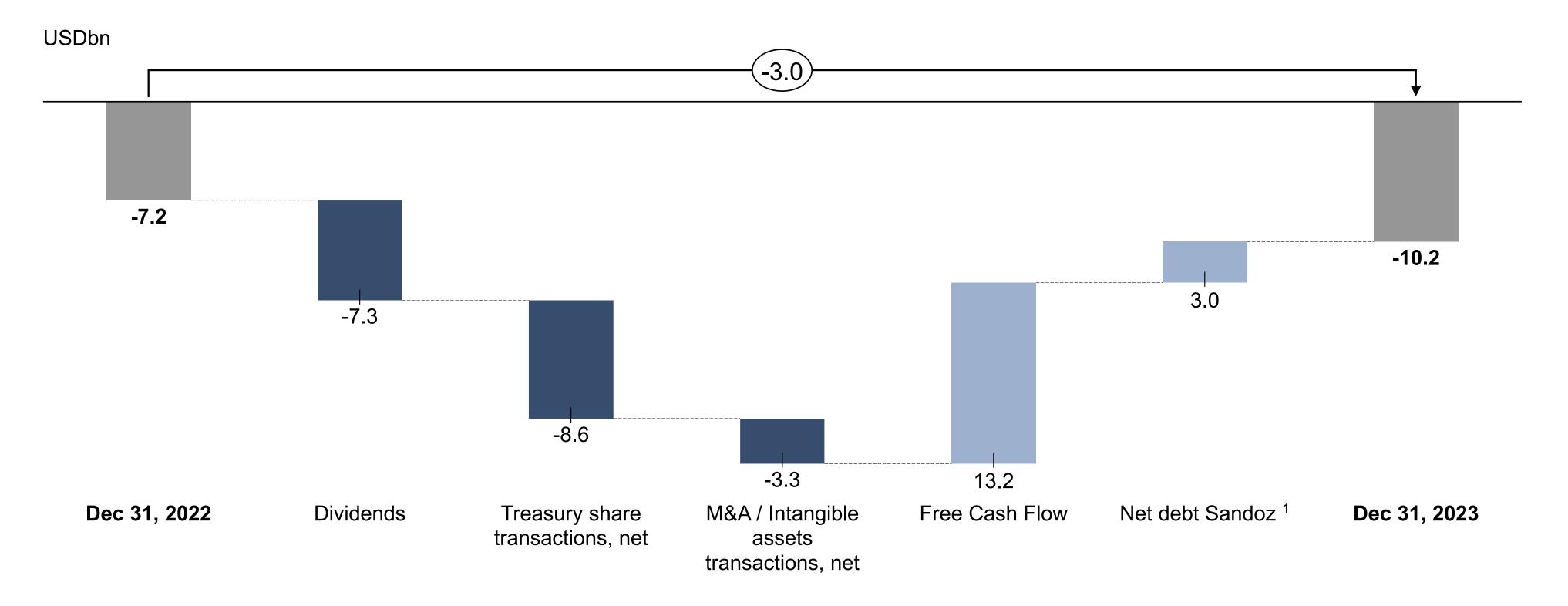
#### **Financial performance**

Innovation: Clinical trials

Abbreviations

References

# Net debt increased by USD 3.0bn mainly due to dividends and share buybacks, partly offset by FCF



<sup>1</sup> Reflects USD 0.7bn cash and cash equivalents, and USD 3.7bn of financial debts of Sandoz at the time of the spin-off.







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

Immunology

Neuroscience

Oncology

Other

**Abbreviations** 

Global Health

References

# **Clinical Trials Update**

Includes selected ongoing or recently concluded global trials of Novartis development programs/products which are in confirmatory development or marketed (typically Phase 2b or later).

For further information on all Novartis clinical trials, please visit: www.novartisclinicaltrials.com







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

> Cardiovascular, Renal and Metabolic

Immunology

Neuroscience

Oncology

Other Global Health

Abbreviations

References

# Cardiovascular, **Renal and Metabolic**







Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

> Cardiovascular, Renal and Metabolic Immunology Neuroscience

Oncology Other

Global Health

Abbreviations

References

# atrasentan - ETA receptor antagonist

# NCT04573478 ALIGN (CHK01-01)

Indication	IgA nephropathy
Phase	Phase 3
Patients	380
Primary	Change in proteinuria Time Frame: Up to Week 24 or approximately 6 months
Outcome Measures	Annualized total estimated Glomerular Filtration Rate (eGFR) slope estimated over 24 months
Arms Intervention	Arm 1 Experimental: Atrasentan, once daily oral administration of 0.75 mg atrasentan for 132 weeks
	Arm 2 Placebo comparator: Placebo once daily oral administration of placebo for 132 weeks
<b>Target Patients</b>	Patients with IgA nephropathy (IgAN) at risk of progressive loss of renal function
Readout Milestone(s)	2023 (primary endpoint for US initial submission) 2026 (24 months)
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

> Cardiovascular, Renal and Metabolic

Immunology Neuroscience

Oncology Other

Global Health

Abbreviations

References

# iptacopan - CFB inhibitor

# **NCT04578834 APPLAUSE-IgAN (CLNP023A2301)**

Indication	IgA nephropathy
Phase	Phase 3
Patients	450
Primary Outcome Measures	Ratio to baseline in urine protein to creatinine ratio (sampled from 24h urine collection) at 9 months Annualized total estimated Glomerular Filtration Rate (eGFR) slope estimated over 24 months
Arms Intervention	Arm 1 - LNP023 200mg BID Arm 2 - Placebo BID
Target Patients	Primary IgA Nephropathy patients
Readout Milestone(s)	2023 (primary endpoint for US initial submission, 9 months UPCR) 2025 (24 months)
Publication	TBD

# iptacopan - CFB inhibitor

# **NCT05755386 APPARENT (CLNP023B12302)**

Indication	Immune complex-mediated membranoproliferative glomerulonephritis
Phase	Phase 3
Patients	68
Primary Outcome Measures	Log-transformed ratio to baseline in UPCR (sampled from a 24-hour urine collection) at 6 months. [Time Frame: 6 months (double-blind)] To demonstrate the superiority of iptacopan compared to placebo in reducing proteinuria at 6 months.  Log-transformed ratio to baseline in UPCR at the 12-month visit (both study treatment arms) [Time Frame: 12 months]  To evaluate the effect of iptacopan on proteinuria at 12 months.  Log-transformed ratio to 6-month visit in UPCR at the 12-month visit in the placebo arm. [Time Frame: 12 months]  To evaluate the effect of iptacopan on proteinuria at 12 months.
Arms Intervention	Arm 1 experimental: Drug: iptacopan 200 mg b.i.d. (Adults 200mg b.i.d; Adolescents 2x 100mg b.i.d) Arm 2 placebo to iptacopan 200mg b.i.d. (both on top of SoC)
Target Patients	Patients (adults and adolescents aged 12-17 years) with idiopathic IC-MPGN
Readout Milestone(s)	2026
Publication	Vivarelli M, et al., Kidney International Reports (2023), Iptacopan in idiopathic immune complex-mediated membranoproliferative glomerulonephritis: Protocol of the APPARENT multicenter, randomized Phase III study







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

> Cardiovascular, Renal and Metabolic Immunology Neuroscience

Oncology Other

Global Health

Abbreviations

References

# iptacopan - CFB inhibitor

# NCT03955445 (CLNP023B12001B)

Indication	C3 glomerulopathy (C3G)
Phase	Phase 2
Patients	27 patients from ongoing Ph2 (sample size from Ph3 pending HA discussions Q1 2021), total patients for this study will increase
Primary Outcome Measures	Characterize the effect of LNP023 treatment on a composite renal response endpoint at 9 months (1. a stable or improved eGFR and, 2. a reduction in proteinuria and 3. an increase in C3 compared to the CLNP023X2202 baseline visit)
Arms Intervention	Open-label LNP023 200mg bid
Target Patients	Patients with C3 glomerulopathy
Readout Milestone(s)	2025
Publication	TBD

# iptacopan - CFB inhibitor

# NCT04817618 APPEAR-C3G (CLNP023B12301)

Indication	C3 glomerulopathy
Phase	Phase 3
Patients	83
Primary Outcome Measures	Log-transformed ratio to baseline in UPCR (sampled from a 24 hour urine collection)
Arms Intervention	Experimental: iptacopan 200mg b.i.d. Placebo Comparator: Placebo to iptacopan 200mg b.i.d.
Target Patients	Patients with native C3G
Readout Milestone(s)	2023
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance **Innovation: Clinical trials** 

> Cardiovascular, Renal

and Metabolic Immunology

Neuroscience

Oncology

Other Global Health

Abbreviations

References

# Leqvio® - siRNA (regulation of LDL-C)

# NCT03705234 ORION-4 (CKJX839B12301)

Indication	Hypercholesterolemia inc. Heterozygous Familial Hypercholesterolaemia (HeFH)
Phase	Phase 3
Patients	16124
Primary Outcome Measures	A composite of major adverse cardiovascular events, defined as: Coronary heart disease (CHD) death; Myocardial infarction; Fatal or non-fatal ischaemic stroke; or Urgent coronary revascularization procedure
Arms Intervention	Arm 1: every 6 months treatment Inclisiran sodium 300mg (given by subcutaneous injection on the day of randomization, at 3 months and then every 6-months) for a planned median duration of about 5 years  Arm 2: matching placebo (given bysubcutaneous injection on the day of randomization, at 3 months and then every 6 months) for a planned median duration of about 5 years.
Target Patients	Patient population with mean baseline LDL-C ≥ 100mg/dL
Readout Milestone(s)	2026
Publication	TBD

# Leqvio® - siRNA (regulation of LDL-C)

# NCT05030428 VICTORION-2P (CKJX839B12302)

Indication  Phase  Patients	Secondary prevention of cardiovascular events in patients with elevated levels of LDL-C  Phase 3  16970
Patients	16970
Primary Outcome Measures	Time to First Occurrence of 3P-MACE (3-Point Major Adverse Cardiovascular Events)
Arms Intervention	Arm 1: Experimental Inclisiran sodium, Subcutaneous injection Arm 2: Placebo Comparator, Placebo Subcutaneous injection
Target Patients	Participants with established cardiovascular disease (CVD)
Readout Milestone(s)	2027
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

> Cardiovascular, Renal and Metabolic

Immunology

Neuroscience Oncology

Other

Global Health Abbreviations

References

# Leqvio® - siRNA (regulation of LDL-C)

# NCT04652726 ORION-16 (CKJX839C12301)

Indication	Hyperlipidemia, pediatrics
Phase	Phase 3
Patients	141
Primary Outcome Measures	Percentage (%) change in low-density lipoprotein cholesterol (LDL-C) from baseline to Day 330
Arms Intervention	Group 1: Inclisiran sodium 300mg on Days 1, 90, 270, placebo on Day 360, inclisiran sodium 300mg on Days 450 and 630 Group 2: Placebo on Days 1, 90, 270, inclisiran sodium 300mg on Days 360, 450 and 630.
Target Patients	Adolescents (12 to less than 18 years) with heterozygous familial hypercholesterolemia (HeFH) and elevated low density lipoprotein cholesterol (LDL-C)
Readout Milestone(s)	2025
Publication	TBD

# Leqvio® - siRNA (regulation of LDL-C)

# NCT04659863 ORION-13 (CKJX839C12302)

Indication	Hyperlipidemia, pediatrics
Phase	Phase 3
Patients	13
Primary Outcome Measures	Percentage (%) change in low-density lipoprotein cholesterol (LDL-C) from baseline to day 330
Arms Intervention	Group 1: Inclisiran sodium 300mg on Days 1, 90, 270, placebo on Day 360, inclisiran sodium 300mg on Days 450 and 630.  Group 2: Placebo on Days 1, 90, 270, inclisiran sodium 300mg on Days 360, 450 and 630.
Target Patients	Adolescents (12 to less than 18 years) with homozygous familial hypercholesterolemia (HoFH) and elevated low density lipoprotein cholesterol (LDL-C)
Readout Milestone(s)	2025
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

> Cardiovascular, Renal and Metabolic

Immunology

Neuroscience

Oncology Other

Global Health

Abbreviations

References

# Leqvio® - siRNA (regulation of LDL-C)

# NCT05739383 VICTORION-1P (CKJX839D12302)

Indication	CVRR (Primary prevention)
Phase	Phase 3
Patients	14000
Primary Outcome Measures	Time to the first occurrence of 4P-MACE 4-Point-Major Adverse Cardiovascular Events (4P-MACE): composite of cardiovascular death, non-fatal myocardial infarction, non-fatal ischemic stroke, and urgent coronary revascularization
Arms Intervention	Arm 1 Experimental: Inclisiran Sodium 300mg, subcutaneous injection in pre-filled syringe Arm 2 Placebo
Target Patients	High-risk primary prevention patients
Readout Milestone(s)	2029
Publication	TBD

# Leqvio® - siRNA (regulation of LDL-C)

# NCT05763875 V-Mono (CKJX839D12304)

Indication	CVRR (Primary prevention)
Phase	Phase 3
Patients	300
Primary Outcome Measures	1.Percentage change in Low-density Lipoprotein Cholesterol (LDL-C) from baseline to day 150 compared with placebo [ Time Frame: Baseline, Day 150 ]
	2. Percentage change in LDL-C from baseline to day 150 compared with ezetimibe [ Time Frame: Baseline, Day 150 ]
Arms	Arm 1 Experimental: Inclisiran s.c and Placebo p.o
Intervention	Arm 2 Active Comparator: Placebo s.c. and Ezetimibe p.o.
	Arm 3 Placebo Comparator: Placebo s.c. and Placebo p.o.
Target Patients	Adult patients with primary hypercholesterolemia not receiving any lipid-lowering therapy (LLT), with a 10-year Atherosclerotic Cardiovascular Disease (ASCVD) risk of less than 7.
Readout Milestone(s)	2024
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

> Cardiovascular, Renal and Metabolic Immunology Neuroscience Oncology Other Global Health

References

Abbreviations

# pelacarsen - Antisense oligonucleotide (ASO) targeting Lp(a)

# NCT04023552 Lp(a)HORIZON (CTQJ230A12301)

Indication	Secondary prevention of cardiovascular events in patients with elevated levels of lipoprotein(a)
Phase	Phase 3
Patients	8323
Primary Outcome Measures	Time to the first occurrence of MACE (cardiovascular death, non-fatal MI, non-fatal stroke and urgent coronary re-vascularization)
Arms Intervention	TQJ230 80 mg injected monthly subcutaneously or matched placebo
Target Patients	Patients with a history of Myocardial infarction or Ischemic Stroke, or a clinically significant symptomatic Peripheral Artery Disease, and Lp(a) ≥ 70 mg/dL
Readout Milestone(s)	2025
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

> Cardiovascular, Renal and Metabolic

Immunology Neuroscience

Oncology

Other Global Health

Abbreviations

References

# XXB750 - NPR1 agonist

# NCT05562934 (CXXB750B12201)

Indication	Hypertension
Phase	Phase 2b
Patients	170
Primary Outcome Measures	Change from baseline in mean 24hr ambulatory systolic blood pressure at week 12
Arms	Arm 1 experimental: Dose 1
Intervention	Arm 2 experimental: Dose 2
	Arm 3 experimental: Dose 3
	Arm 4 experimental: Dose 4
	Arm 5 placebo comparator
Target Patients	Resistant Hypertension Patients
Readout Milestone(s)	2024
Publication	TBD

# XXB750 - NPR1 agonist

# NCT06142383 (CXXB750A12201)

Indication	Heart failure
Phase	Phase 2
Patients	720
Primary Outcome Measures	Change in log NT-proBNP from baseline to Week 16 [ Time Frame: Baseline to Week 16 ]
Arms	Arm 1 Placebo Comparator
Intervention	Arm 2 Experimental: XXB750 Low Dose
	Arm 3 Experimental: XXB750 Medium Dose
	Arm 4 Experimental: XXB750 High Dose
	Arm 5 Active Comparator: Sacubitril/valsartan, open label tablet
Target Patients	Patients with heart failure
Readout Milestone(s)	2026
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

> Cardiovascular, Renal and Metabolic Immunology Neuroscience

Oncology Other

Global Health Abbreviations

References

# zigakibart - Anti-APRIL

# NCT05852938 BEYOND (CFUB523A12301)

Indication	IgA nephropathy
Phase	Phase 3
Patients	292
Primary Outcome Measures	Change in proteinuria [ Time Frame: 40 weeks or approximately 9 months ]
Arms Intervention	Arm 1 Experimental: BION-1301 (Zigakibart) 600mg subcutaneous administration every 2 weeks for 104 weeks Arm 2 Placebo Comparator: Placebo subcutaneous administration every 2 weeks for 104 weeks
Target Patients	Adults with IgA Nephropathy
Readout Milestone(s)	2026
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

#### > Immunology

Neuroscience

Oncology

Other

Global Health

Abbreviations

References

# Immunology







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

#### > Immunology

Neuroscience Oncology Other

Global Health

Abbreviations

References

# Cosentyx® - IL-17A inhibitor

# NCT05767034 REPLENISH (CAIN457C22301)

Indication	Polymyalgia rheumatica
Phase	Phase 3
Patients	360
Primary Outcome Measures	Proportion of participants achieving sustained remission
Arms Intervention	Arm 1 Experimental: Secukinumab 300 mg, randomized in 1:1:1 ratio every 4 weeks
	Arm 2 Experimental: Secukinumab 150 mg, randomized in 1:1:1 ratio every 4 weeks
	Arm 3 Placebo : randomized in 1:1:1 ratio every 4 weeks
Target Patients	Adult patients with PMR who have recently relapsed
Readout Milestone(s)	2025
Publication	TBD

# Cosentyx® - IL-17A inhibitor

# NCT04930094 GCAPTAIN (CAIN457R12301)

Indication	Giant cell arteritis
Phase	Phase 3
Patients	348
Primary Outcome Measures	Number of participants with sustained remission
Arms Intervention	Experimental: Secukinumab 300 mg
	Placebo Comparator: Placebo
Target Patients	Patients with Giant Cell Arteritis (GCA)
Readout	Primary 2025
Milestone(s)	Final 2026
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

#### > Immunology

Neuroscience Oncology

Global Health

Other

Abbreviations

References

# Cosentyx® - IL-17A inhibitor

# NCT05722522 (CAIN457O12301)

Indication	Rotator cuff tendinopathy
Phase	Phase 3
Patients	234
Primary Outcome Measures	Change from BSL in in the Western Ontario Rotator Cuff Index (WORC) Physical Symptom Domain (PSD) score [Time Frame: At Week 16]: - Improving physical shoulder symptoms in participants with moderate to severe RCT at Week 16
Arms Intervention	Arm 1: Secukinumab 2 X 150 mg / 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratio Arm 2: Placebo 2X 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratio
Target Patients	Patients with moderate-severe Rotator Cuff Tendinopathy
Readout Milestone(s)	2025
Publication	TBD

# Cosentyx® - IL-17A inhibitor

# NCT05758415 (CAIN457O12302)

Indication	Rotator cuff tendinopathy
Phase	Phase 3
Patients	234
Primary Outcome Measures	Change from BSL in in the Western Ontario Rotator Cuff Index (WORC) Physical Symptom Domain (PSD) score [Time Frame: At Week 16]: - Change in physical shoulder symptoms in participants with moderate to severe RCT at Week 16
Arms Intervention	Arm 1 experimental: Secukinumab 2 X 150 mg / 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratio Arm 2 placebo: 2 X 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratio
Target Patients	Patients with moderate-severe Rotator Cuff Tendinopathy
Readout Milestone(s)	2025
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

> Immunology

Neuroscience Oncology

Other

**Abbreviations** 

Global Health

References

# ianalumab - BAFF-R inhibitor

# NCT03217422 AMBER (CVAY736B2201)

Indication	Autoimmune hepatitis
Phase	Phase 2
Patients	68
Primary Outcome Measures	Alanine aminotransferase (ALT) normalization
Arms Intervention	VAY736 Placebo control with conversion to active VAY736
Target Patients	Autoimmune hepatitis patients with incomplete response or intolerant to standard treatment of care
Readout Milestone(s)	2024
Publication	TBD

# ianalumab - BAFF-R inhibitor

# NCT05126277 SIRIUS-LN (CVAY736K12301)

In all a attack	
Indication	Lupus Nephritis
Phase	Phase 3
Patients	420
Primary Outcome Measures	Frequency and percentage of participants achieving complete renal response (CRR) [ Time Frame: week 72 ]
Arms Intervention	Arm 1: Experimental - ianalumab s.c. q4w in addition to standard of care (SoC) Arm 2: Experiemental - ianalumab s.c. q12w in addition to SoC Arm 3: Placebo comparator - Placebo s.c. q4w in addition to SoC
<b>Target Patients</b>	Patients with active Lupus Nephritis
Readout Milestone(s)	Primary 2027
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

#### > Immunology

Neuroscience Oncology

Global Health

Other

Abbreviations

References

# ianalumab - BAFF-R inhibitor

# NCT05349214 NEPTUNUS-2 (CVAY736A2302)

Indication	Sjögren's syndrome
Phase	Phase 3
Patients	489
Primary Outcome Measures	Change from baseline in EULAR Sjögren Syndrome Disease Activity Index (ESSDAI) score at Week 48 as compared to placebo
Arms Intervention	Arm 1: Experimental - ianalumab exposure level 1 Arm 2: Experimental - ianalumab exposure level 2 Arm 3: Placebo comparator
Target Patients	Patients with active Sjogren's syndrome
Readout Milestone(s)	Primary 2026
Publication	TBD

# ianalumab - BAFF-R inhibitor

# NCT05350072 NEPTUNUS-1 (CVAY736A2301)

Indication	Sjögren's syndrome
Phase	Phase 3
Patients	268
Primary Outcome Measures	Change from baseline in EULAR Sjögren Syndrome Disease Activity Index (ESSDAI) score at Week 48 as compared to placebo
Arms	Arm 1: Experimental - ianalumab
Intervention	Arm 2: Placebo comparator
Target Patients	Patients with active Sjogren's syndrome
Readout Milestone(s)	Primary 2026
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

#### > Immunology

Neuroscience Oncology

Other Global Health

**Abbreviations** 

References

# ianalumab - BAFF-R inhibitor

# NCT05639114 SIRIUS-SLE 1 (CVAY736F12301)

Indication	Systemic lupus erythematosus
Phase	Phase 3
Patients	406
Primary Outcome Measures	Proportion of participants on monthly ianalumab achieving Systemic Lupus Erythematosus Responder Index -4 (SRI-4) [ Time Frame: Week 60 ]
Arms Intervention	Experimental: Ianalumab s.c. monthly Experimental: Ianalumab s.c. quarterly Placebo Comparator: Placebo s.c. monthly
Target Patients	Patients with active systemic lupus erythematosus (SLE)
Readout Milestone(s)	2027
Publication	TBD

# ianalumab - BAFF-R inhibitor

# NCT05624749 SIRIUS-SLE 2 (CVAY736F12302)

ythematosus Responder
Ξ)







Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

#### > Immunology

Neuroscience Oncology Other Global Health

**Abbreviations** 

References

# LNA043 - ANGPTL3 agonist

# NCT04864392 ONWARDS (CLNA043A12202)

Indication	Knee osteoarthritis
Phase	Phase 2
Patients	550
Primary Outcome Measures	Change from baseline in the cartilage thickness of the medial compartment of the knee as assessed by imaging
Arms	LNA043 injection to the knee with dosing regimen A
Intervention	LNA043 injection to the knee with dosing regimen B
	LNA043 injection to the knee with dosing regimen C
	LNA043 injection to the knee with dosing regimen D
	Placebo injection to the knee
<b>Target Patients</b>	Patients with Symptomatic knee osteoarthritis
Readout Milestone(s)	Primary 2024
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

#### > Immunology

Neuroscience Oncology Other

Global Health

Abbreviations

References

# remibrutinib - BTK inhibitor

# NCT05030311 REMIX-1 (CLOU064A2301)

Indication	Chronic spontaneous urticaria
Phase	Phase 3
Patients	470
Primary Outcome Measures	Change from baseline in UAS7 (Scenario 1 with UAS7 as primary efficacy endpoint)
Arms	Arm 1: LOU064 (blinded)
Intervention	LOU064 (blinded) taken orally for 24 weeks, followed by LOU064 (open-label) taken orally open label for 28 weeks. Randomized in a 2:1 ratio (arm 1:arm 2)
	Arm 2: LOU064 placebo (blinded)
	LOU064 placebo (blinded) taken orally for 24 weeks, followed by LOU064 (openlabel) taken orally for 28 weeks. Randomized in a 2:1 ratio (arm 1:arm 2)
Target Patients	Adult Chronic Spontaneous Urticaria (CSU) patients inadequately controlled by H1-antihistamines
Readout Milestone(s)	2024 (Final)
Publication	TBD

# remibrutinib - BTK inhibitor

# NCT05032157 REMIX-2 (CLOU064A2302)

	,
Indication	Chronic spontaneous urticaria
Phase	Phase 3
Patients	455
Primary Outcome Measures	Change from baseline in UAS7 (Scenario 1 with UAS7 as primary efficacy endpoint)
	2. Absolute change in ISS7 an absolute change in HSS7 (Scenario 2 with ISS7 and HSS7 as co-primary efficacy endpoints)
Arms Intervention	Arm 1: LOU064 (blinded)
	LOU064A (blinded) taken orally b.i.d. for 24 weeks, followed by LOU064 (open-label) taken orally open label for 28 weeks
	Arm 2: LOU064 placebo (blinded)
	LOU064A placebo (blinded) taken orally for 24 weeks, followed by LOU064 (openlabel) taken orally open label for 28 weeks
	Eligible participants randomized to the treatment arms in a 2:1 ratio (arm 1: arm 2)
Target Patients	Adult participants suffering from chronic spontaneous urticaria (CSU) inadequately controlled by H1-antihistamines in comparison to placebo
Readout Milestone(s)	2024 (Final)
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

#### > Immunology

Neuroscience Oncology

Other

Abbreviations

Global Health

References

# remibrutinib - BTK inhibitor

# NCT05976243 (CLOU064M12301)

Indication	Chronic inducible urticaria
Phase	Phase 3
Patients	348
Primary Outcome Measures	<ol> <li>Proportion of participants with complete response in Total Fric Score; symptomatic dermographism [ Time Frame: Week 12 ]</li> <li>Proportion of participants with complete response in critical temperature threshold; cold urticaria [ Time Frame: Week 12 ]</li> <li>Proportion of participants with itch numerical rating scale =0; cholinergic urticaria [ Time Frame: Week 12 ]</li> </ol>
Arms Intervention	All arms oral, twice daily: Arm 1 Experimental Remibrutinib, symptomatic dermographism group Arm 2 Placebo symptomatic dermographism group Arm 3 Experimental Remibrutinib, cold urticaria group Arm 4 Placebo cold urticaria group Arm 5 Experimental Remibrutinib, cholinergic urticaria group Arm 6 Placebo cholinergic urticaria group
<b>Target Patients</b>	Adults suffering from CINDU inadequately controlled by H1-antihistamines
Readout Milestone(s)	2026
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

> Neuroscience

Oncology

Other

Global Health Abbreviations

References

# Neuroscience







Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

#### > Neuroscience

Oncology Other

Global Health

Abbreviations

References

# Mayzent® - S1P1,5 receptor modulator

# NCT04926818 NEOS (CBAF312D2301)

Indication	Multiple sclerosis, pediatrics
Phase	Phase 3
Patients	180
Primary Outcome Measures	Annualized relapse rate (ARR) in target pediatric participants
Arms Intervention	Arm 1: Experimental ofatumumab - 20 mg injection/ placebo Arm 2: Experimental siponimod - 0.5 mg, 1 mg or 2 mg/ placebo Arm 3: Active Comparator fingolimod - 0.5 mg or 0.25 mg/ placebo
Target Patients	Children/adolescent patients aged 10-17 years old with Multiple Sclerosis (MS). The targeted enrollment is 180 participants with multiple sclerosis which will include at least 5 participants with body weight (BW) ≤40 kg and at least 5 participants with age 10 to 12 years in each of the ofatumumab and siponimod arms. There is a minimum 6 month follow up period for all participants (core and extension). Total duration of the study could be up to 7 years.
Readout Milestone(s)	2026
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

#### > Neuroscience

Oncology Other

Global Health

Abbreviations

References

# remibrutinib - BTK inhibitor

# NCT05147220 REMODEL-1 (CLOU064C12301)

Indication	Multiple sclerosis
Phase	Phase 3
Patients	800
Primary Outcome Measures	Annualized relapse rate (ARR) of confirmed relapses [Core Part]. ARR is the average number of confirmed MS relapses in a year
Arms Intervention	Arm 1: Experimental; Remibrutinib - Core (Remibrutinib tablet and matching placebo of teriflunomide capsule) Arm 2: Active Comparator; Teriflunomide - Core (Teriflunomide capsule and matching placebo remibrutinib tablet)
	Arm 3: Experimental; Remibrutinib - Extension (Participants on remibrutinib in Core will continue on remibrutinib tablet)
	Arm 4: Experimental; Remibrutinib - Extension (on teriflunomide in Core) (Participants on teriflunomide in Core will switch to remibrutinib tablet)
<b>Target Patients</b>	Patients with relapsing Multiple Sclerosis
Readout Milestone(s)	Estimated primary completion 2026
Publication	TBD

# remibrutinib - BTK inhibitor

# NCT05156281 REMODEL-2 (CLOU064C12302)

	,
Indication	Multiple sclerosis
Phase	Phase 3
Patients	800
Primary Outcome Measures	Annualized relapse rate (ARR) of confirmed relapses
Arms Intervention	Arm 1: Experimental; Remibrutinib – Core Remibrutinib tablet and matching placebo of teriflunomide capsule Arm 2: Active Comparator; Teriflunomide – Core Teriflunomide capsule and matching placebo remibrutinib tablet Arm 3: Experimental: Remibrutinib – Extension Participants on remibrutinib in Core will continue on remibrutinib tablet
	Arm 4: Experimental: Remibrutinib - Extension (on teriflunomide in Core) Participants on teriflunomide in Core will switch to remibrutinib tablet
Target Patients	Patients with relapsing Multiple Sclerosis
Readout Milestone(s)	Estimated primary completion 2026
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

#### > Neuroscience

Oncology Other

Global Health

Abbreviations

References

# Zolgensma® - SMN1 gene replacement therapy

# NCT05089656 STEER (COAV101B12301)

Indication	Spinal muscular atrophy (IT administration)
Phase	Phase 3
Patients	125
Primary Outcome Measures	<ol> <li>Change from baseline in Hammersmith functional motor scale - Expanded (HFMSE) total score at the end of follow-up period 1 in treated patients compared to sham controls in the ≥ 2 to &lt; 18 years age group</li> </ol>
Arms Intervention	Arm 1: Experimental OAV101. Administered as a single, one-time intrathecal dose Arm 2: Sham Comparator: Sham control. A skin prick in the lumbar region without any medication.
Target Patients	Patients Type 2 Spinal Muscular Atrophy (SMA) who are ≥ 2 to < 18 years of age, treatment naive, sitting, and never ambulatory
Readout Milestone(s)	2024
Publication	TBD

# Zolgensma® - SMN1 gene replacement therapy

# NCT05386680 STRENGTH (COAV101B12302)

Indication	Spinal muscular atrophy (IT administration)
Phase	Phase 3B
Patients	28
Primary Outcome Measures	Number and percentage of participants reporting AEs, related AEs, SAEs, and AESIs [ Time Frame: 52 weeks ]
Arms Intervention	Experimental: OAV-101 Single intrathecal administration of OAV101 at a dose of 1.2 x 10^14 vector genomes
Target Patients	Participants with SMA who discontinued treatment With Nusinersen or Risdiplam (STRENGTH)
Readout Milestone(s)	2024
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

Immunology

Neuroscience

> Oncology

Other Global Health

Abbreviations

References

# Oncology







Click below to navigate through the document

Company overview

Financial review

Conclusions

# **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

> Oncology

Neuroscience

Other Global Health

**Abbreviations** 

References

# ianalumab - BAFF-R inhibitor

# NCT05653349 VAYHIT1 (CVAY736I12301)

Indication	1L Immune Thrombocytopenia
Phase	Phase 3
Patients	225
Primary Outcome Measures	Time from randomization to treatment failure (TTF)
Arms Intervention	Arm 1: Experimental: lanalumab Lower dose administered intravenously with corticosteroids oral or parentally (if clinically justified)  Arm 2: lanalumab Higher dose administered intravenously with corticosteroids oral or parentally (if clinically justified)  Arm 3: Placebo Comparator administered intravenously with corticosteroids oral or parentally (if clinically justified)
<b>Target Patients</b>	Adult patients with primary ITP
Readout Milestone(s)	2025
Publication	TBD

# ianalumab - BAFF-R inhibitor

# NCT05653219 VAYHIT2 (CVAY736Q12301)

Indication	2L Immune Thrombocytopenia
Phase	Phase 3
Patients	150
Primary Outcome Measures	Time from randomization to treatment failure (TTF)
Arms Intervention	Arm 1: Experimental: eltrombopag and ianalumab lower dose Arm 2: Experimental: eltrombopag and ianalumab higher dose Arm 3: eltrombopag and placebo
Target Patients	Primary ITP patients who failed steroids
Readout Milestone(s)	2025
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

> Oncology

Other Global Health

Neuroscience

Abbreviations

References

# ianalumab - BAFF-R inhibitor

# NCT05648968 VAYHIA (CVAY736O12301)

Indication	Warm autoimmune hemolytic anemia
Phase	Phase 3
Patients	90
Primary Outcome Measures	Binary variable indicating whether a patient achieves a durable response Durable response: hemoglobin level ≥10 g/dL and ≥2 g/dL increase from baseline, for a period of at least eight consecutive weeks between W9 and W25, in the absence of rescue medication or prohibited treatment
Arms Intervention	Arm 1: experimental lanalumab low dose (intravenously) Arm 2: experimental lanalumab high dose (intravenously) Arm 3: placebo Comparator (intravenously)
Target Patients	Previously treated patients with warm Autoimmune Hemolytic Anemia
Readout Milestone(s)	2026
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

## **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology Neuroscience

> Oncology

Other Global Health

Abbreviations

References

# iptacopan - CFB inhibitor

# NCT04889430 APPELHUS (CLNP023F12301)

Indication	Atypical haemolytic uraemic syndrome
Phase	Phase 3
Patients	50
Primary Outcome Measures	Percentage of participants with complete TMA response without the use of PE/PI and anti-C5 antibody
Arms Intervention	Single arm open-label with 50 adult patients receiving 200mg oral twice daily doses of iptacopan
Target Patients	Adult patients with aHUS who are treatment naive to complement inhibitor therapy (including anti-C5 antibody)
Readout Milestone(s)	2026
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

> Oncology

Other Global Health

Neuroscience

Abbreviations

References

# opnurasib - KRAS inhibitor

## NCT05132075 KontRASt-02 (CJDQ443B12301)

Indication	Non-small cell lung cancer, 2/3L
Phase	Phase 3
Patients	360
Primary Outcome Measures	Progression free survival (PFS)
Arms Intervention	Arm 1 Experimental: JDQ443  Arm 2 Active Comparator: Participant will be treated with docetaxel following local guidelines as per standard of care and product labels
Target Patients	Patients with advanced non-small cell lung cancer (NSCLC) harboring a KRAS G12C mutation who have been previously treated with a platinum-based chemotherapy and immune checkpoint inhibitor therapy either in sequence or in combination.
Readout Milestone(s)	2025
Publication	NA







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

> Oncology Other

Global Health

Neuroscience

Abbreviations

References

# Pluvicto® - Radioligand therapy target PSMA

### NCT04689828 PSMAfore (CAAA617B12302)

Indication	Metastatic castration-resistant prostate cancer, pre-taxane
Phase	Phase 3
Patients	450
Primary Outcome Measures	Radiographic Progression Free Survival (rPFS)
Arms Intervention	Arm 1: Participants will receive 7.4 GBq (200 mCi) +/- 10% <sup>177</sup> Lu-PSMA-617 once every 6 weeks for 6 cycles. Best supportive care, including ADT may be used Arm 2: For participants randomized to the ARDT arm, the change of ARDT treatment will be administered per the physician's orders. Best supportive care, including ADT may be used
Target Patients	mCRPC patients that were previously treated with an alternate ARDT and not exposed to a taxane-containing regimen in the CRPC or mHSPC settings
Readout Milestone(s)	Primary Analysis: 2022 (actual) Final Analysis: 2025
Publication	H2 2023

# Pluvicto® - Radioligand therapy target PSMA

### **NCT04720157 PSMAddition (CAAA617C12301)**

	,
Indication	Metastatic hormone sensitive prostate cancer
Phase	Phase 3
Patients	1126
Primary Outcome Measures	Radiographic Progression Free Survival (rPFS)
Arms Intervention	Arm 1: <sup>177</sup> Lu-PSMA-617 Participant will receive 7.4 GBq (+/- 10%) <sup>177</sup> Lu-PSMA-617, once every 6 weeks for a planned 6 cycles, in addition to the Standard of Care (SOC); ARDT +ADT is considered as SOC and treatment will be administered per the physician's order
	Arm 2: For participants randomized to Standard of Care arm, ARDT +ADT is considered as SOC and treatment will be administered per the physician's order
Target Patients	Patients with metastatic Hormone Sensitive Prostate Cancer (mHSPC)
Readout Milestone(s)	Primary Analysis: 2025
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

> Oncology

Other Global Health

Neuroscience

**Abbreviations** 

References

# Rydapt® - Multi-targeted kinase inhibitor

## NCT03591510 (CPKC412A2218)

Indication	Acute myeloid leukemia, pediatrics
Phase	Phase 2
Patients	20
Primary	Occurrence of dose limiting toxicities
Outcome Measures	Safety and Tolerability
Arms Intervention	Chemotherapy followed by Midostaurin
Target Patients	Newly diagnosed pediatric patients with FLT3 mutated acute myeloid leukemia (AML)
Readout Milestone(s)	2026
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

Neuroscience > Oncology

Other Global Health

Abbreviations

References

## Scemblix® - BCR-ABL inhibitor

## NCT04971226 ASC4FIRST (CABL001J12301)

Indication	Chronic myeloid leukemia, 1st line
Phase	Phase 3
Patients	402
Primary Outcome Measures	Major Molecular Response (MMR) at week 48
Arms	Arm 1: asciminib 80 mg QD
Intervention	Arm 2: Investigator selected TKI including one of the below treatments:
	- Imatinib 400 mg QD
	- Nilotinib 300 mg BID
	- Dasatinib 100 mg QD
	- Bosutinib 400 mg QD
Target Patients	Patients with newly diagnosed philadelphia chromosome positive chronic myelogenous leukemia in chronic phase
Readout Milestone(s)	2024 (actual)
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

> Oncology

Other Global Health

Neuroscience

Abbreviations

References

## **TNO155 - SHP2 inhibitor**

## NCT03114319 (CTNO155X2101)

Indication	Solid tumors (single agent)
Phase	Phase 1
Patients	255
Primary Outcome Measures	Number of participants with adverse events  Number of participants with dose limiting toxicities
Arms Intervention	Drug: TNO155 Drug: TNO155 in combination with EGF816 (nazartinib)
<b>Target Patients</b>	Adult patients with advanced solid tumors in selected indications
Readout Milestone(s)	2025
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology

> Oncology

Neuroscience

Other Global Health

Abbreviations

References

# Vijoice® - PI3Ki

## NCT05948943 EPIK-L1 (CBYL719P12201)

Indication	Lymphatic Malformation
Phase	Phase 2/3
Patients	230
Primary Outcome Measures	Stage 2: Radiological response rate at Week 24 of Stage 2 (adult and pediatric (6 - 17 years of age) participants) Time Frame: Baseline, Week 24
Arms Intervention	Arm 1: Experimental. Adult participants, alpelisib dose 1 (Stage 1)
	Arm 2: Experimental. Adult participants, alpelisib dose 2 (Stage 1)
	Arm 3: Experimental. Pediatric participants (6-17 years of age), alpelisib dose 2 (Stage 1)
	Arm 4: Experimental. Pediatric participants (6-17 years of age), alpelisib dose 3 (Stage 1)
	Arm 5: Experimental. Adult participants, alpelisib (Stage 2)
	Arm 6: Placebo comparator. Adult participants, placebo (Stage 2)
	Arm 7: Experimental. Pediatric participants (6-17 years of age), alpelisib (Stage 2)
	Arm 8: Placebo Comparator. Pediatric participants (6-17 years of age), placebo (Stage 2)
	Arm 9: Experimental. Pediatric participants (2-5 years of age), alpelisib (Stage 2)
Target Patients	Pediatric and adult patients with lymphatic malformations associated with a PIK3CA mutation
Readout Milestone(s)	2030
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

Immunology

Neuroscience

Oncology > Other

Global Health

Abbreviations

References

# Other







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology Neuroscience Oncology

> Other Global Health

Abbreviations

References

## Beovu® - VEGF Inhibitor

## NCT04278417 CONDOR (CRTH258D2301)

Indication	Diabetic retinopathy
Phase	Phase 3
Patients	694
Primary Outcome Measures	Change from Baseline in BCVA
Arms Intervention	Arm 1: RTH258 (brolucizumab) 6 mg/50uL  Arm 2: Panretinal photocoagulation laser initial treatment followed with additional PRP treatment as needed
Target Patients	Patients with proliferative diabetic retinopathy
Readout Milestone(s)	2024
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic

Immunology

Neuroscience

Oncology

Other

> Global Health

Abbreviations

References

# **Global Health**







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology Neuroscience

Oncology Other

> Global Health

Abbreviations

References

# cipargamin - PfATP4 inhibitor

## NCT04675931 KARISMA (CKAE609B12201)

Indication	Malaria severe
Phase	Phase 2
Patients	252
Primary Outcome Measures	Percentage of participants achieving at least 90% reduction in Plasmodium falciparum (P. falciparum) at 12 hours [ Time Frame: Day 1 (12 Hours)]
Arms	Arm 1: experimental, IV KAE609 Dose regimen 1
Intervention	Arm 2: experimental, IV KAE609 Dose regimen 2
	Arm 3: experimental, IV KAE609 Dose regimen 3
	Arm 4: active comparator, IV Artesunate
	Arm 5: Coartem, Standard of care
<b>Target Patients</b>	Patients with Malaria, severe
Readout Milestone(s)	2025
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology Neuroscience Oncology Other

> Global Health

**Abbreviations** 

References

# Coartem® - PGH-1 (artemisinin combination therapy)

## NCT04300309 CALINA (CCOA566B2307)

Indication	Malaria, uncomplicated (<5kg patients)
Phase	Phase 3
Patients	44
Primary Outcome Measures	Artemether Cmax
Arms Intervention	Experimental: artemether lumefantrine (2.5 mg:30 mg) artemether lumefantrine (2.5 mg:30 mg) bid over 3 days, from 1-4 tablets per dose
Target Patients	Infants and Neonates <5 kg body weight with acute uncomplicated plasmodium falciparum malaria
Readout Milestone(s)	Primary (actual) 2024 (final)
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

#### **Innovation: Clinical trials**

Cardiovascular, Renal and Metabolic Immunology Neuroscience Oncology Other

> Global Health

Abbreviations

References

# ganaplacide/lumefantrine - Non-artemisinin plasmodium falciparum inhibitor

## NCT05842954 KALUMA (CKLU156A12301)

Indication	Malaria, uncomplicated
Phase	Phase 3
Patients	1500
Primary Outcome Measures	PCR-corrected adequate clinical and parasitological response (ACPR) at day 29
Arms Intervention	Arm 1 experimental: KLU156 oral; 400/480 mg is the dose for patients with a bodyweight ≥ 35kg. Patients < 35kg will take a fraction of the dose according to weight group as defined in the protocol.  Arm 2 active comparator: Coartem, oral, dosing will be selected based on patient's body weight as per product's label.
<b>Target Patients</b>	Adults and children ≥ 5 kg Body Weight with uncomplicated P. Falciparum Malaria
Readout Milestone(s)	2025
Publication	TBD







Click below to navigate through the document

Company overview

Financial review

Conclusions

#### **Appendix**

Innovation: Pipeline overview

Financial performance

Innovation: Clinical trials

**Abbreviations** 

References

# **Abbreviations**

ΑI Auto-injector

AIH Autoimmune hepatitis

atypical Hemolytic Uremic Syndrome aHUS

**ALL** Acute lymphoblastic leukemia ALS Amyotrophic lateral sclerosis

Acute myeloid leukemia **AML** 

BC Breast cancer

C3G C3 glomerulopathy

**CART** Chimeric androgen receptor T CLL Chronic lymphocytic leukemia **CML** Chronic myeloid leukemia

CRC Colorectal cancer

COPD Chronic obstructive pulmonary disease

COSP Chronic ocular surface pain CSU Chronic spontaneous urticaria

Secondary prevention of cardiovascular events in patients with elevated levels of lipoprotein (a) CVRR-Lp(a)

CVRR-LDLC Secondary prevention of cardiovascular events in patients with elevated levels of LDLC

DME Diabetic macular edema

**DLBCL** Diffuse large B-cell lymphoma refractory **ESCC** Esophageal squamous-cell carcinoma

FL Follicular lymphoma **GCA** Giant cell arteritis

**GVHD** Graft-versus-host disease

**GRPR** Gastrin releasing peptide receptor

HCC Hepatocellular carcinoma HD Huntington's disease

HR LBCL High risk large B-cell lymphoma

IA Interim analysis

**iAMD** Intermediate age-related macular degeneration

**IC-MPGN** Immune complex membranoproliferative glomerulonephritis IgAN IgA nephropathy

IPF Idiopathic pulmonary fibrosis ITP Immune thrombocytopenia LBCL Large B-cell lymphoma

LN Lupus nephritis

mCRPC Metastatic castration-resistant prostate cancer

MDS Myelodysplastic syndrome

mHSPC Metastatic hormone sensitive prostate cancer Metastatic pancreatic ductal adenocarcinoma mPDAC

MS Multiple sclerosis

NASH Non-alcoholic steatohepatitis

Non-metastatic castration-resistant prostate cancer nmCRPC

NPR1 Natriuretic peptide receptor 1

nr-axSpA Non-radiographic axial spondyloarthritis

NSAI Non-steroidal aromatase inhibitor

**NSCLC** Non-small cell lung cancer

OS Overall survival PFS Prefilled syringe

PNH Paroxysmal nocturnal haemoglobinuria

PsA Psoriatic arthritis

rHR Resistant hypertension

rMS Relapsing multiple sclerosis

rPFS Radiographic progression free survival

SLE Systemic lupus erythematosus

SMA Type 1 Spinal muscular atrophy (IV formulation) SMA Type 2/3 Spinal muscular atrophy (IT formulation)

SpA Spondyloarthritis

T1DM Type 1 Diabetes mellitus

Warm autoimmune hemolytic anemia **wAIHA** 







Click below to navigate through the document

Company overview

Financial review

Conclusions

Appendix

References

# References

#### Entresto<sup>®</sup> (slide 7 references)

- 1 IQVIA National Prescription Audit.
- 2 Approved indications differ by geography. Examples include "indicated to reduce the risk of cardiovascular death and hospitalization for HF in adult patients with CHF. Benefits are most clearly evident in patients with LVEF below normal." (US), HFrEF (EU), HFrEF and HTN (China) and CHF and HTN (JP). HTN is not an approved indication in the US and EU.
- 3 AHA/ACC/HFSA/ESC.
- 4 Extension of regulatory data protection to November 2026 in EU based on approval of pediatric indication.

#### Kesimpta® (slide 9 references)

- 1 Data on file. Global data as of Nov 2023.
- 2 Data on file.
- 3 Kappos et al., AAN 2020, Ofatumumab Versus Teriflunomide in Patients with Relapsing Multiple Sclerosis: Phase 3 ASCLEPIOS I and II Trials.
- As per stability technical specification data, when the patient is ready to inject, it typically takes less than 1 minute a month to administer. Once-monthly dosing begins after the initial dosing period, which consists of 20 mg subcutaneous doses at weeks 0, 1, and 2. Patient must take pen out of the refrigerator 15-30 minutes before self-administering. Please see Instructions for Use for more detailed instructions on preparation and administration of KESIMPTA.
- Ross AP, Nicholas J, Tai MH, et al. US Real-world satisfaction and experience with injection and autoinjector device for ofatumumab indicated for multiple sclerosis. LB09. Presented at: Consortium of Multiple Sclerosis Centers Annual Meeting; May 31-June 3, 2023; Aurora, CO.
- 6 Novartis KESIMPTA Sensoready® Pen survey HEORUSV201392 in US. June 2022.
- 7 Efficacy outcomes as measured by disability progression and brain volume change.
- 8 Cohen et al, Poster presented at American Academy of Neurology, Boston, 22-27 April 23.
- 9 Cohen et al, oral presentation at American Academy of Neurology, Boston, 22-27 April 23.

