### Benevolent

## **Because it Matters**

Innovation, accelerated

Interim Results

For the six months ended 30 June 2024

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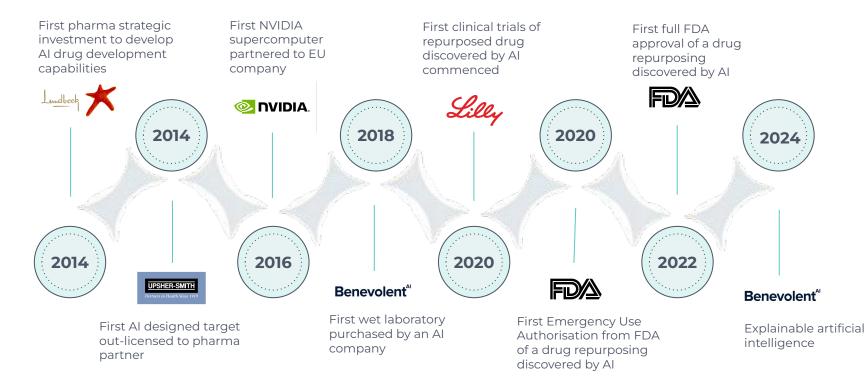
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### **Industry firsts** Creating the future of AI in drug discovery and development



# Leading AI innovations in Drug Discovery and Development

### Strengthened leadership for innovation and growth





Dr. Joerg Moeller CEO

**Dr. Ivan Griffin** CBO and co-founder



Dr. Anne Phelan CSO

nne an

James Malone CTO

### Benevolent Platform™: The Industry's Most Established and Validated AI Solution



AstraZeneca

Merck

Proprietary pipeline of novel drug programmes in areas of high unmet need

Collaborations:

### Business model



External commercial offerings enabled by the Platform: TargetID - Molecular Design/Chemistry - Indication Expansion/Drug repurposing



Proprietary preclinical & clinical pipeline targets identified & developed in-house - commercial approach to out-license/partner at value inflection points

Supported by an experienced Board of Directors at the forefront of their fields...



**Peter Allen** Chair



**Kenneth Mulvany** Deputy Chair and founder



**Ian Nicholson** Non-Executive Director

**Jeremy Sohn** Non-Executive Director

# H1 2024 key business highlights (inc. post period)



#### Leadership updates

- Jan'24 appointed Joerg Moeller, CEO
- Apr'24 appointed Dr. James Malone, CTO
- May'24 appointed NEDs
   Peter Allen (Chair),

Ken Mulvany (founder, Deputy Chair) Ian Nicholson and Jeremy Sohn

- Jun'24 Michael Brennan - co-founder returned, consultancy basis
- Jul'24 Dr. Ivan Griffin co-founder, transitioned to CBO



#### **Business development**

- Revitalised approach
- Strengthened and reorganised - enhanced focus on execution
- Supported by R&D leadership network of CEO and the Board
- Initial indicators are positive - pipeline of active collaborations and out licensing discussions significantly increased

Jul'24 - Appointment of Deutsche Numis as UK and pan-European capital markets adviser

**Capital markets adviser** 

 Significant step in initiating more effective market engagement



- Mar'24 BEN-8744 (UC) - positive topline Phase I (safety/PK)
- BEN-34712 (ALS) IND enabling studies progress, IND-ready H2'24
- BEN-28010 (GBM) completed regulatory toxicology studies and is ready for onward partnering/out licensing
- Ten additional
   programmes regularly
   evaluated to replenish
   pipeline as assets are
   successfully out
   licensed



Collaborations

AstraZeneca - target identification

- May'24 HF target moved into AZ discovery portfolio
- Jun'24 SLE target moved into AZ discovery portfolio

#### Merck KGaA - chemistry

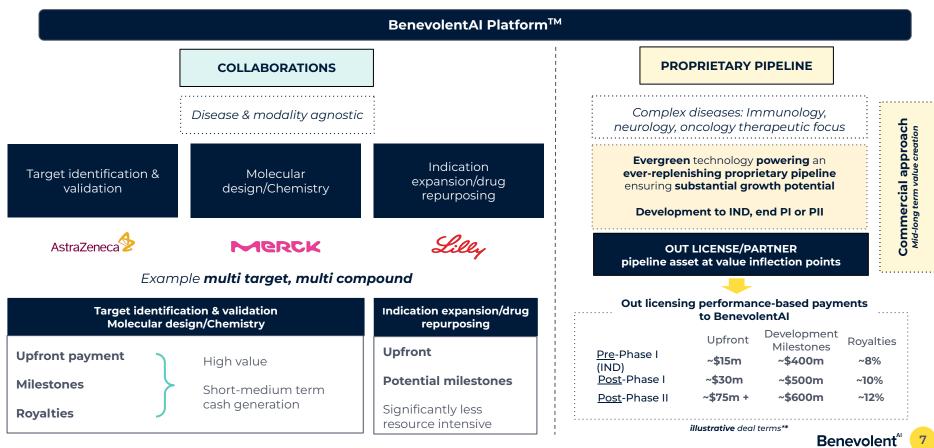
• Newer collaboration made **progressing well** 

## Drug development is failing patients

Expensive & high risk			Long R&D cycles		Poor efficacy & high societal cost	
<b>\$160bn+</b> spent per year on drug R&D	<b>\$2.6bn</b> in average R&D and to market cost per drug	rate in drug	<b>10 years</b> to market	<b>9,000</b> diseases with no effective treatment	Leading drugs effective on <b>30-50%</b> of patients	Approved cancer drugs have poor response rates, with only <b>7%</b> showing an OS advantage

- Pharma R&D has become **slower and more expensive over time**, despite more investment and improvements in technology
- Primary reasons for failure are **poor understanding of disease biology,** unexpected **toxicity**, and inability to **identify the most suitable patient** to treat with a given drug

### Business model — multiple routes to value creation

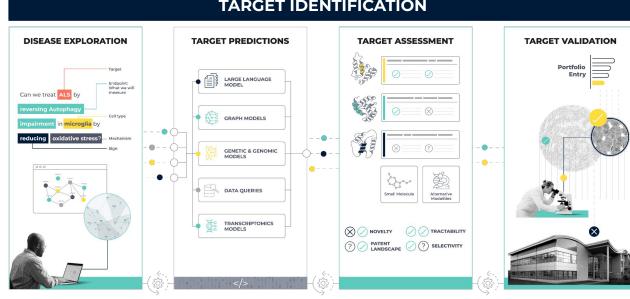


### The Benevolent Platform<sup>™</sup> empowers scientists with industry-leading drug discovery AI

**Comprehensive data foundations** 

**Biology first** 

**Hypothesis driven** 



**TARGET IDENTIFICATION** 

- Proprietary AI models reason across multi-modal data to discover novel targets
- Enables scientists to **assess** & select only the most promising targets to take into wet lab experiments
- Efficiently surfaces scientific evidence to support higher confidence decisions
- Data fed back into the Knowledge Graph to enhance future predictions

### Target ID: Continue to deliver and extend over many years

- 2019 Multi-year collaboration Chronic kidney disease (CKD) and idiopathic pulmonary fibrosis (IPF)
- 2020 Milestone hit for CKD
- 2021 Milestone hit for IPF
- 2022 Collaboration **extended** to Heart Failure (HF) and Systemic lupus erythematosus (SLE)
- 2022 Second milestone hit for CKD
- 2022 Second and third milestone hit for IPF

May 2024 HF target moves into AZ discovery portfolio

Jun 2024 SLE target moves into AZ	
discovery portfolio	



### Therapeutic areas - Current focus



Heart failure



Systemic lupus erythematosus (SLE)

#### Milestones

• 7 Novel targets accepted for development

#### **Financial terms**



- Initial and extension collaboration on similar financial terms
- Upfront payment and research funding
- Discovery, development and commercial **milestone payments**

### e

Tiered royalties on net sales

Generated revenue of c.\$40m (2019-2023)

# Chemistry: New collaboration off to a strong start

Sept 2023 Multi year / multi compound collaboration

Using our **chemistry capabilities** to bring forward pre clinical development compounds **into the Merck pipeline** 

Opening up **new offering in chemistry** 



# Therapeutic areas - initial delivery of three novel small molecule drug candidates



Oncoloav



Neuroloav



Immunology

### Substantial financial upside



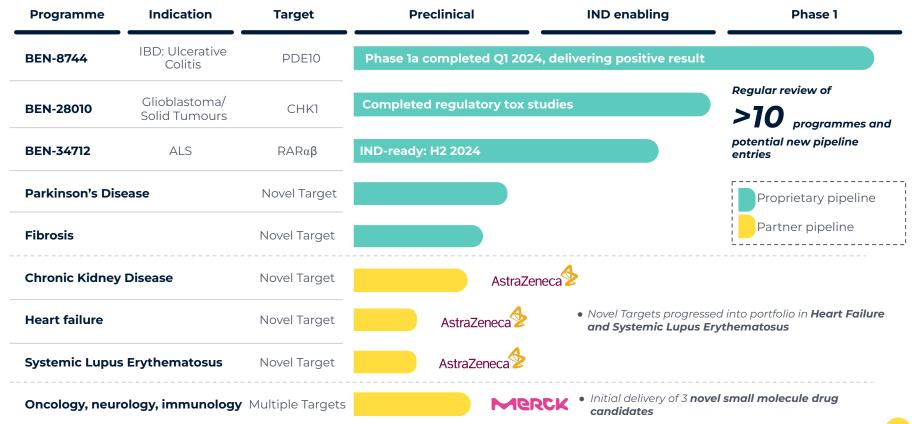
#### Up to \$594 million of total value, including:

- Upfront payment
  - Discovery, development and commercial
     **milestones**



Tiered royalties on net sales

# High potential proprietary and partner pipeline



Benevolent

## BEN-8744 (PDE10 inhibitor) - significant opportunity in IBD

BEN-8744 is expected to provide an efficacious disease modifying oral treatment for UC/CD

Dual effect: barrier/inflammation BEN-8744 will target moderate and severe UC/CD patients, addressing the unmet need left by existing therapies including:

- Patients' refractory to
   anti-TNFs or other biologics
  - Improved safety and tolerability profile compared to competitors
- Efficacy **20-40% of Moderate-severe UC patients do not respond** to anti-TNF (main treatment paradigm)<sup>(1)</sup>
- Safety current treatments have many side effects, from steroids to anti-TNF and JAK inhibitors (black box warnings)<sup>(2)</sup>

Recent **deal activity** in IBD driven by **desire for oral small molecules** (vs. more expensive biologics) and **novel targets** 

\_ Lilly/Morphic & Abbvie/Landos - oral small molecules

Merck / Prometheus & Abbvie/celsius - novel targets



**High unmet need** for an alternative **oral small molecule** treatment option with **improved safety profile** AND **efficacy in treatment of refractory patients** 

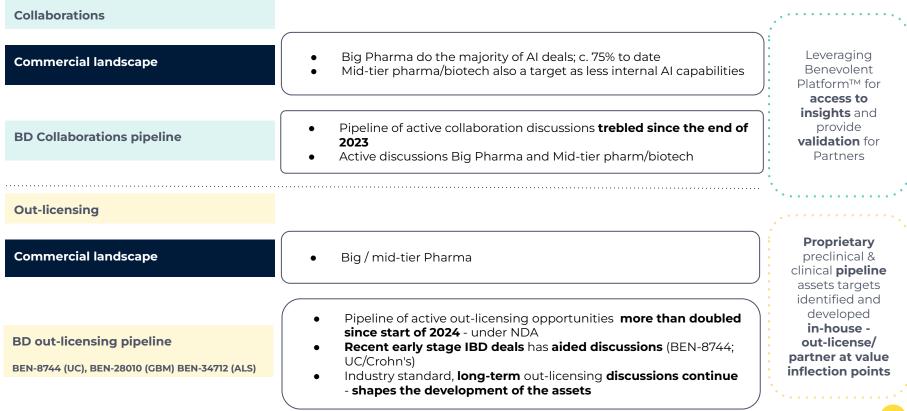
#### BEN-8744 dual effect, addresses

- Patients' response to current treatments AND safety issues - very attractive from a deal perspective
- BEN-8744 offers rational combination with all currently approved drug classes - attractive to companies with products

# IBD attracts deals in early clinical stage with increasing value

Date	Acquirer	Acquiree	Stage at time of deal	Asset	Values USDm inc. upfronts
Jul'24	Lilly	MORPHIC	Completed Phase 2a in UC, ongoing Phase 2b in UC/Crohn's	Oral small molecule (selective α4β7 inhibitor)	c.\$3.2bn
Jun'24	abb∨ie	celsius	Completed Phase 1a (healthy volunteers)	Antibody (TREM1 antagonist)	\$250m
May'24	abbvie		Completed Phase 1b in ulcerative colitis	Oral, small molecule (NLRX1 antagonist )	\$138m
Dec'23	Roche	<b>.</b> •Telavant	Completed Phase 2b for IBD	Antibody (TL1A antagonist)	\$7.1bn
Jun'23	Se MERCK	<b>Prometheus</b> Biosciences	Completed Phase 2b in both UC and Crohn's disease	Antibody (TL1A)	\$10.8bn

### Business Development pipeline/ landscape



### Financial Highlights (unaudited) - as at 30 June 2024

Reported operating loss

# £32.3m

#### (H12023: £45.9m)

Reduction of 30% reflecting both the impact of reduced restructuring costs and the prioritisation of research and development activities.

Revenue

# **£2.8m** (H12023: £5.3m)

Revenue decrease as expected, with the initial target identification efforts for the AstraZeneca collaboration now reducing, the newer Merck collaboration is now generating revenue to replace it, with additional revenue expected from this collaboration in the second half of 2024 through to 2026, once the development milestones are received, for work already completed.

Cost of Sales<sup>1</sup>

## £3.6m

#### (H12023: £0.8m)

Cost of sales consists of research and development expenditures that directly relates to work carried out on revenue generating collaboration agreements. The 364% increase reflecting the costs of operating the chemistry collaboration which are similar to those incurred by the Group on a proprietary programme basis.

Research and development (R&D) spend<sup>1</sup>

# £19.9m

#### (H12023: £36.3m)

Primarily driven by reduction in cost base due to restructuring programs announced in May '23 and April '24 and reflects the company's prioritisation of certain programmes in its proprietary pipeline.

<sup>1</sup> The comparative information for the six months to 30 June 2023 has been adjusted to reflect cost of sales being presented for the first time in the period Cash, cash equivalents and short term deposits

# £38.1m

(31 December 2023: £72.9m) (30 June 2023: £84.3m)

Post period receipt of £12.1m for R & D Tax credits claimed during H1 2024.

**Operating cash outflow** 

£35.3m

(H12023: £45.6m)

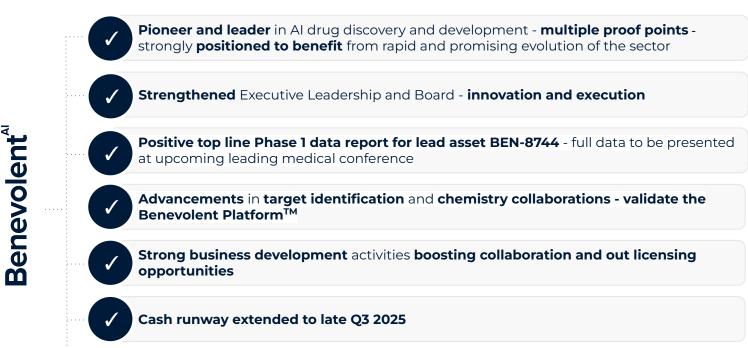
Operating cash outflow before changes in working capital

# £29.3m

(H12023: £37.9m)



### BenevolentAI - overview and H1 2024 summary















# Appendix

### H1 2024 - Financial Highlights

- Reported operating loss reduction of 30% from £45.9 million (H1 2023) to £32.3 million, reflecting both the impact of reduced restructuring costs and the prioritisation of research and development activities.
- Revenue has decreased by 46% from £5.3 million in H1 2023 to £2.8 million, primarily due to
  the anticipated scaling down of the target identification efforts within our AstraZeneca
  collaboration and the newer Merck collaboration now generating revenue to replace it.
  Additional revenue is expected from the Merck collaboration in the second half of 2024
  through to 2026, once the development milestones are received, for work already
  completed. Since its inception in 2019, the AstraZeneca collaboration has generated
  approximately £32 million, and BenevolentAl continues to be eligible for discovery,
  development, and commercial milestones, as well as tiered royalties on net sales.
- Reported research and development spend<sup>1</sup> reduction of 45% from £36.3 million (H1 2023) to £19.9 million, reflecting continued and focussed investment in the proprietary pipeline and innovation of the Benevolent Platform<sup>™</sup> and excluding directly attributable cost of sales.
- Normalised research and development spend<sup>1</sup> reduction of 39% from £32.2 million (H1 2023) to £19.5 million, consistent with the reported research and development spend, but excludes the one-off costs of restructuring in the period.
- Normalised operating loss reduction of 26% from £40.6 million (H1 2023) to £30.0 million.
- Operating cash flow before changes in working capital reduced by 23% from £37.9 million (H1 2023) to £29.3 million.
- Cash, cash equivalent, and short-term deposits reduced by 48% from £72.9 m (FY 2023) to £38.1 m with the cash runway extended to late Q3 2025.

	H1 2024	H1 2023	
	<b>'000</b> '	<b>'000</b> '	% Change
Revenue	2,834	5,297	(46%)
Cost of sales	(3,551)	(765)	364%
Reported research and development spend	(19,927)	(36,282)	(45%)
Normalised research and development spend	(19,534)	(32,230)	(39%)
Reported administrative expenses Normalised administrative	(12,245)	(14,209)	(14%)
expenses	(10,282)	(12,971)	(21%)
Reported operating loss	(32,311)	(45,850)	(30%)
Normalised operating loss	(29,955)	(40,560)	(26%)
Reported basic and diluted EPS, expressed in pence Normalised basic and diluted	(20.3p)	(31.2p)	(35%)
EPS, expressed in pence	(18.4p)	(27.0p)	(32%)
	30 June 2024 31	December 2023	
Cash, cash equivalents and short-term deposits	38,078	72,906	(47.8%)

<sup>1</sup>The comparative information for the six months to 30 June 2023 has been adjusted to reflect cost of sales being presented for the first time in the period. See note 3 of the interim condensed consolidated financial statements for further details

### **Reported to Normalised<sup>1</sup>**

	Six months ended 30 June	Six months ended 30 June
	2024 £'000	2024 £'000
Reported operating loss	(32,311)	(45,850)
Adjustments for:		
R&D - Restructuring programme expenses	393	4,052
Administrative - Restructuring programme expenses	427	1,238
Revaluation of investments	1,536	-
Normalised <sup>1</sup> group operating loss	(29,955)	(40,560)

The HY 2024 reported operating loss driven in part by £0.8m non-recurring provision for restructuring programme undertaken across R&D and Administrative, reflecting full year costs recognised at the point of committing to the plan April 2024

The reported operating loss also includes a  $\pounds 1.5m$  one-off charge relating to the fair value reduction in one of the Group's unlisted equity investments, not present in the comparative period.

The HY 2023 reported operating loss included £5.3m non-recurring provision for restructuring that was committed to in May 2023.

1. Excludes exceptional costs related to the restructuring programme and revaluation of investments.

### Cash flows for underlying Operating activities

	Six months ended 30 June	Six months ended 30 June	
	2024	2023	
	£'000	£'000	
Normalised <sup>1</sup> operating loss	(29,955)	(40,560)	
Depreciation & amortisation	1,074	1,530	
Equity SBP expense	875	6,211	
Foreign exchange loss	102	391	
Cash flows from changes in working capital	(12,239)	(20,117)	
Cash expended from underlying operating activities	(40,143)	(52,545)	
Opening cash balance <sup>2</sup>	72,906	130,182	
Closing cash balance <sup>2</sup>	38,078	84,320	

Cash expended from underlying operating activities has reduced to £40.1m from £52.5m in H12023 consistent with the reduced operating loss.

1. Excludes exceptional costs related to the restructuring programme and revaluation in one of the Group's unlisted equity investments.

2. Includes cash, cash equivalents and short-term deposits (maturity between 3 and 12 months).

### **COMPANY INFORMATION**

**Listed on EuroNext;** April 2022 (Euronext Amsterdam: BAI)

Offices in London and laboratories in Cambridge UK c.180 employees

#### Key Shareholders (Sept '24):

Ken Mulvany (co-founder) - 26.7% Temasek Life Sciences - 14.8% Zaoui - 7.1% (Odyssey sponsors) Ally Bridge Group - 6.7% Link - 5% Lansdowne Partners - 4.5% Schroders - 3.8%

#### Strategic/partnership shareholders:





### BenevolentAI: Leading AI innovations in Drug Discovery and Development

#### Strengthened leadership for innovation and growth









Dr. Joerg Moeller CEO Dr. Ivan Griffin CBO and co-founder

Dr. Anne Phelan CSO

James Malone CTO

# Supported by an experienced Board of Directors at the forefront of their fields...





**Peter Allen** Chair Kenneth Mulvany Deputy Chair and founder



Ian Nicholson

Non-Executive

Director



Jeremy Sohn Non-Executive Director

Benevolent<sup>a</sup>

# Discovering and developing medicines is challenging

Industry R&D Productivity

"Eroom's law"

#### Worldwide Total Pharmaceutical R&D Spend in 2014-2028



96%

overall failure rate in drug development

**30-50** %

efficacy for leading drugs

**10** years

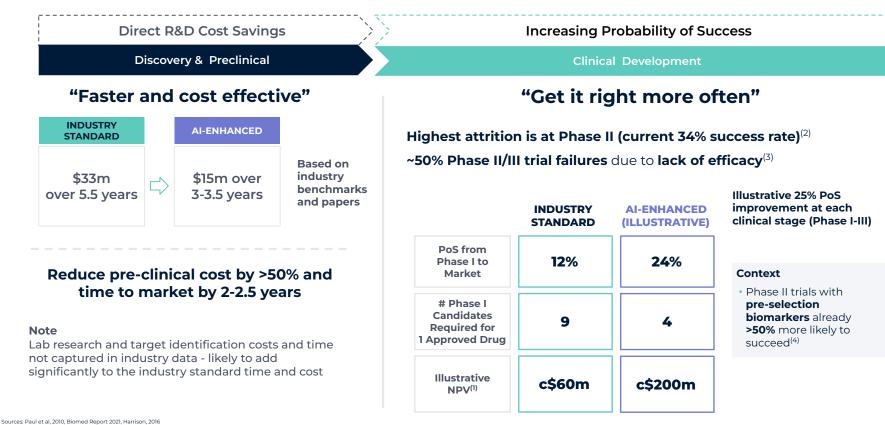
to market

\$2.6 bn

in average R&D and to market cost per drug

- Pharma R&D has become **slower and more expensive over time**, despite more investment and improvements in technology
- Primary reasons for failure are **poor understanding of disease biology,** unexpected **toxicity**, and inability to **identify the most suitable patient** to treat with a given drug

## The AI value proposition for pharma R&D

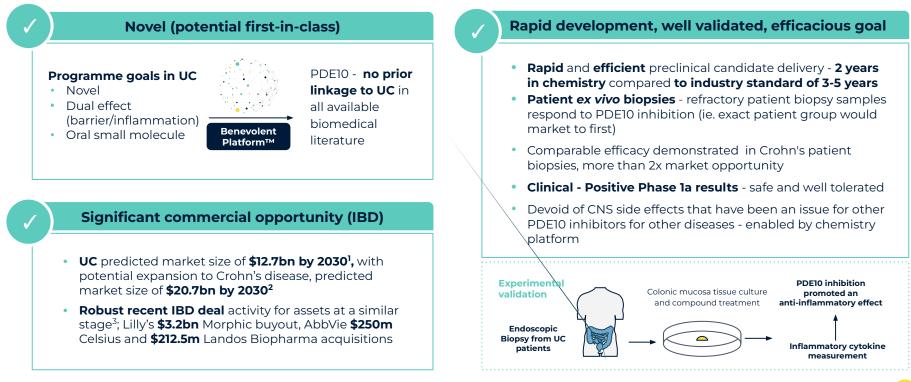


Note: For illustrative purposes only (i) illustrative NPV for a theoretical \$750m peak sales drug during initial 10Y on the market (assumes (i) peak sales reached 5 years post-launch, (ii) 90% gross margin, (iii) 20% S&M expenses, (iv) 20% tax, (v) a 10% discount rate) and (vi) excludes any terminal value). (2) Based on Paul et al Nat Rev Drug Discov 2010. (3) Based on Harrison, Nat Rev Drug Discov 2016 (4) Based on Biomed Report 2021.

## Proprietary pipeline products are highly differentiated

Asset	МоА	Target market	Market size and recent deals
BEN-8744: Ulcerative Colitis (UC)	PDE10 inhibitor	Moderate-to-severe Ulcerative Colitis (and Crohn's)	<ul> <li>Potential first-in-class, peripherally restricted, oral PDE10 inhibitor</li> <li>UC predicted market size of \$9.6bn by 2030<sup>1</sup>, with potential expansion to Crohn's disease (\$13bn by 2030<sup>2</sup>)</li> <li>Robust recent IBD deal activity for assets at a similar stage; Lilly's \$3.2bn Morphic buyout, AbbVie \$250m Celsius and \$212.5m Landos Biopharma acquisitions</li> </ul>
BEN-28010: Glioblastoma (GBM)	CHK1 inhibitor	Naive and recurrent GBM regardless of MGMT methylation status	<ul> <li>Potential first-in-class CNS penetrant CHK1 inhibitor, for GBM and other solid tumours (e.g lung) with brain metastases - vastly increasing market potential</li> <li>Life-changing potential in a high unmet space (SoC only extends survival by 15 months<sup>3</sup> and only ~65% of patients respond to SoC<sup>4</sup>)</li> <li>\$868.5M market in GBM alone by 2030<sup>5</sup>, potential to expand into broad brain metastases market - significant opportunity - underdeveloped market with lack of effective treatments</li> </ul>
BEN-34712: Amyotrophic Lateral Sclerosis (ALS)	RARαβ agonist	Sporadic and familial forms of ALS	<ul> <li>Potential first-in-class, CNS-penetrant RARαβ agonist; broad potential across multiple ALS subtypes</li> <li>Limited treatment options and potential to greatly add value for patients (SoC only extends survival by ~6 months<sup>6</sup>)</li> <li>ALS market \$1bn by 2030<sup>7</sup> with significant potential and high recent deal activity; Lilly paid \$45m upfront for preclinical ALS asset (QurAlis Jun 24)</li> </ul>
Parkinson's Disease	Novel Target	Parkinson's and related synucleinopathies	<ul> <li>Potential first-in-class CNS-penetrant inhibitor of neuroinflammatory target</li> <li>Parkinson's predicted market size \$11.5bn by 2029<sup>8</sup></li> </ul>
Fibrosis	Novel Target	Fibrotic indications including MASH	<ul> <li>Potential first-in-class antifibrotic target</li> <li>MASH global market size of \$10.7bn by 2030<sup>9</sup>, with potential to expand to other fibrotic indications.</li> </ul>

# BEN-8744 – Ulcerative Colitis (UC) (PDE10 inhibitor) – on track for demonstrating clinical efficacy



#### Benevolent<sup>a</sup> 2

### **BEN-8744 Phase la** - positive topline data announced Mar'24

**Primary objective:** investigate the safety and tolerability of multiple doses and the effect of food on pharmacokinetic profile of BEN-8744 in healthy volunteers, aged 18-65 years

- Met primary objective
- BEN-8744 was **safe and well tolerated,** with no Serious Adverse Events (SAEs) reported in any dose cohorts
- **Importantly**, given liabilities associated with PDE10 inhibitors previously in clinical development for other CNS indications, **no evidence of CNS-associated adverse events**
- Pharmacokinetic profile of BEN-8744 generated **suggested twice daily dosing** should achieve desired PDE10 target coverage to elicit potential therapeutic effect in subsequent clinical studies in UC patients

### BEN-8744 Phase la

Study objectives: assess the safety and tolerability of single and multiple oral doses, and the effect of food on pharmacokinetic profile of BEN-8744 in healthy volunteer subjects (18-65 yrs)

Part A	Part B	Part C
Single Ascending Dose (SAD)	Food Effect	Multiple Ascending dose (MAD)

- MAD study, subjects were dosed twice daily for 14 consecutive days
- BEN-8744 or placebo was administered to 8 healthy subjects (BEN-8744 n=6; placebo n=2) in both the single and multiple dose cohorts
- In total 6 SAD and 2 MAD cohorts were completed. A total of 54 subjects were exposed to BEN-8744; 36 in the SAD, 12 in the MAD and 6 in the food effect study

#### Importance of Phase Ia results

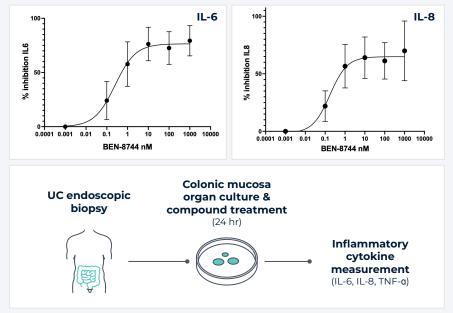
- PDEIOs previously studied for CNS indications failed to progress due to dose limiting CNS mediated side effects
- A clean safety profile through SAD and MAD doses is a big step forward for the use of PDE10 inhibitors as a
- therapeutic treatment
- Results from this study inform the preferred dose for the next stage of development

### Increased confidence to clinical translation

Ex vivo human UC and CD patient biopsy samples retain inflammatory phenotype:

PDE10 demonstrates robust efficacy in 80% of biopsies, irrespective of tofacitinib response.

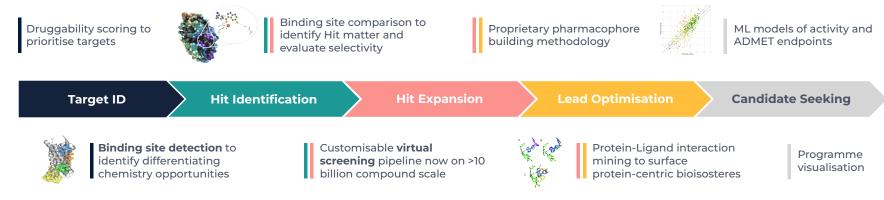
Literature explicitly links cGMP signalling to gut homeostasis, barrier integrity and clinical symptoms of IBD BEN-8744 potently inhibits inflammatory cytokine release from UC & Crohn's ex-vivo colon biopsies Summary data: % inhibition (biopsies from 15 IBD patients)



# Molecular Design — expertise in structure-based design, virtual screening and machine learning

We combine deep expertise in drug discovery with innovative techniques in structure-based design, virtual screening and machine learning.

- Highly experienced drug discovery team with a proven track record of taking nascent programme ideas and delivering drugs to the clinic
- Chemoinformatic and AI tools impacting all stages of a drug programme from target selection through to candidate nomination
- Empowering chemists to design better drugs in fewer cycles candidate drugs delivered in as little as 2 years from programme inception compared to 3-5 year industry standard



## Indication expansion - capability validation

### Backdrop to baricitinib approval

How we did it so fast

- >4,000 clinical trials related to COVID were registered with the FDA
- 485 repurposed drugs were registered for COVID clinical trials
- Tens of billions was spent on developing treatments
- FDA emergency use approval in Nov 2020 and full approval in May 2022

### NOVEL RAPID EFFECTIVE **Benevolent Platform** Our technology and AI workflows identified a previously unknown antiviral mechanism of Baricitinib to identify, 9 months to emergency **48**hrs approval, 14 months to full approval 38% **Reduces mortality by a significant 38% Only one** repurposed drug proposed by AI was x1 approved by the FDA and recommended by WHO BARICITINIB 2019-2Cov Antiviral mechanism

**Benevole** 

