

A life saving cell and gene therapy company

November 2022

Forward Looking Statements



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Oxford Biomedica: Becoming a leading innovative-led global viral vector partner for cell and gene therapy companies



• Over 500 biotechs and majority of Big Pharma active in the space¹

Viral vectors play a critical role in cell and gene therapy

- Strong double digit growth forecasted for both the AAV and Lentiviral Vector outsourced supply market²
- Still many more gains to be realised by increasing scale, purity and capability

OXB is well positioned to solve our customer's manufacturing challenges

• Through proprietary technologies and continuous innovation in viral vectors

Track record of high quality vector manufactured at pace

- Large-scale commercial manufacture of the adenovirus-based Oxford AstraZeneca COVID-19 vaccine
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OXB has capabilities across all key vector types

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¹ McKinsey & Company, 2020

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² Source: Company data and third party research. Lentiviral and γ-retrovirus global vector supply market (outsourced) expected to grow at 17% CAGR and AAV at 25% CAGR ('20-'26).

Biome



III Bristol Myers Squibb

Boehringer

Ingelheim

A business at the heart of cell and gene therapy



A leader in viral vectors enabling the delivery of life-saving cell and gene therapies

operational infrastructure

and proven commercial

Established global

supply capabilities

- First FDA approved CAR-T cell therapy with Novartis for Kymriah[®]
- 20+ programmes with big pharma and innovative biotech companies across all key vector types
- Industrialising viral vectors \rightarrow Driving treatment cost down through innovation
- Proven commercial supply capability in 30 countries
- Facilities spanning more than 200,000 sq ft¹
- · Seven facilities across Oxford, UK and Boston, US



AstraZeneca

UNOVARTIS

A high growth business with a diversified customer base

- · Vector agnostic with innovative capabilities spanning lentivirus, adenovirus and AAV
- The outsourced supply market for adenoviral, AAV and integrating vectors is estimated to be worth c.\$2.8 billion by 2026 growing to c.\$4.8 billion by 2030²
- · Proprietary platform technology protected by IP, patents and know-how

¹ Includes manufacturing, laboratory and office space ² Source: Company data

A global leader across all key vector types





¹ Since H1 2021

Viral Vector Manufacturing to Continue its Growth Trajectory

CAGR



'20 - '26 Global Viral Vector Supply (Outsourced)¹ (In \$ billions) 2.8 16% 2.4 1.9 1.7 1.7 1.6 25% 1.2 (25%) 17% 2020 2021 2022 2023 2024 2025 2026 Adeno-associated virus (AAV) Oxford Biomedica current Adenovirus capabilities

Entire market now fully addressable with multisite, multi-technology capable labs & manufacturing

¹Source: Company estimates and third party research

Lenti and y-retrovirus

AAV Manufacturing and Innovation Business



In March 2022, Oxford Biomedica broadened its leading viral vector offerings by incorporating Homology Medicines' established AAV capabilities into a newly formed AAV Manufacturing and Innovation Business in the US with Homology Medicines as 20% owner



- Robust business development pipeline
- New deal announced in H1 with at least one additional deal targeted for H2 2022
- Additional c.23,000 sq ft of fallow area is being developed for analytical, office, warehouse and GMP space





Innovative CDMO Services

Customer-centric Leading provider of scale up solutions and commercial supply

2022 Innovative Services Update





Announced an LSA with **Cabaletta Bio** for their DSG3-CAART programme Amended and expanded the License and Clinical Supply Agreement with Juno/BMS to include two new viral vector programmes

Announced a LSA with an undisclosed partner for their lead CAR-T programme.

Signed a new three-year MSDA to facilitate potential future manufacturing opportunities with AstraZeneca. Oxford Biomedica expects to recognise aggregate revenues of approx. £30m from AZ in 2022 Oxbox, OXB's largest manufacturing facility spanning 84,000 sq. ft received MHRA approval for the fill finish suite, bringing this previously outsourced function inhouse

Announced a LSA with an undisclosed late-stage cell and gene therapy company for their lead programme, a cell-based therapy targeting a rare indication

Signed an agreement with a new partner granting the new customer access to the Oxford Biomedica Solution's AAV platform



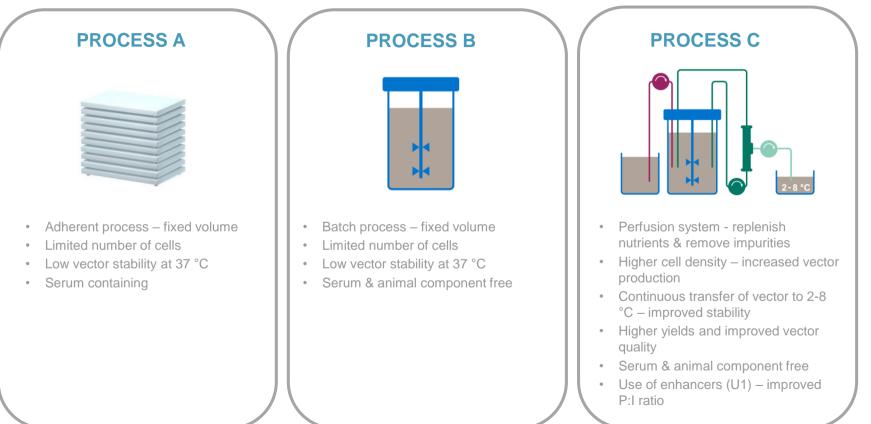


Platform

Innovation-centric Driving industrialisation of viral vectors

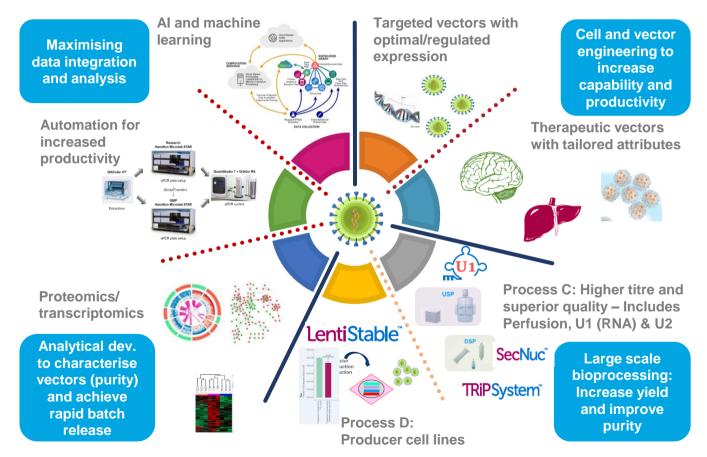
Evolution of the OXB platform process – upstream





Proprietary Platform Innovation





Recent innovations

- Process C successfully transferred to GMP
 - Improved productivity
 - Increased purity
 - Superior quality of vector (P:I ratio)
- Exemplification of novel Dual plasmid AAV system at 2000L scale
- 4th generation Lentiviral vectors to launch in 2023 with additional capabilities
- GMP qualification of routine automated cell based assays (Titre and RCL)







Gene Therapeutics

Patient-centric Leveraging expertise to deliver lentiviral vector based gene therapies

Gene Therapeutics Pipeline



Product	Indication	Pre-Clinical	Phase I	Phase I/II	Phase II	Phase III	Approval
OXB Proprietary Unencumbered Products							
OXB-302	Acute Myeloid Leukaemia						
OXB-401							
OXB-40Y	Undisclosed liver indications						
OXB-40Z							
Axo-Lenti-PD ¹	Parkinson's disease						
				Ex vivo	programmes	In vivo	programmes

• Review of therapeutic product strategy led by new CMO, Dr. Ravi Rao (joined in April 2022)

- Ongoing review of strategic options to externally fund an appropriate future pipeline of products and other novel opportunities → to be executed in 2023
- Aim to maintain a long term economic interest in a number of therapeutic products with a potential material reduction in annual operating expenditure

1 Axo-Lenti-PD formerly known as OXB-102, which OXB out-licensed to Sio Gene Therapies. On 31st January 2022, Oxford Biomedica was informed by Sio Gene Therapies of their intention to return the rights for AXO-Lenti-PD. We plan to out-license the programme again to a suitable partner





Financials & Outlook

H1 2022: Double digit growth in core business



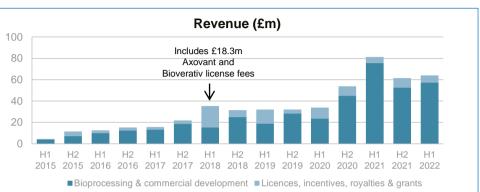
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Double digit revenue growth in the core business¹ offset by the decrease in COVID-19 vaccine manufacturing; total revenue decreased by 21% to £64.0 million (H1 2021: £81.3 million) Operating EBITDA loss of £5.8 million² (H1 2021 EBITDA profit of £27.1 million) Launch of Oxford Biomedica Solutions drove an increase in experting expenses to 556.2 million² (H1

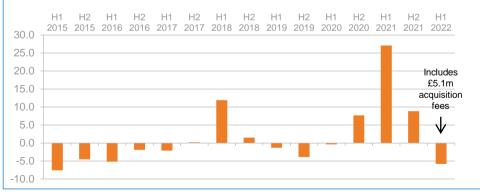
increase in operating expenses to ± 56.2 million² (H1 2021: ± 23.6 million)

Cash used in operations was £24.5 million compared to £22.2 million generated in H1 2021

Capital expenditure of £6.0 million (H1 2021: £3.5 million)



Operating EBITDA (£m)



¹ Excluding COVID-19 vaccine manufacturing. Compared to H1 2021

² Included one-off acquisition-related due diligence costs of £5.1 million relating to the Homology Medicines transaction

Operating EBITDA (Earnings Before Net Finance Costs, Tax, Depreciation, Amortisation, fair value adjustments of assets at fair value through profit and loss, and Share Based Payments) is a non-GAAP measure often used as a surrogate for operational cash flow as it excludes from operating profit or loss all non-cash items, including the charge for share options.

Strong cash position with active cost management



Cash at 30 June 2022 was £118.5 million and £115.8 million at 31 August 2022

12-month \$85 million **Oaktree loan facility taken** out in March 2022 was part repaid and part-refinanced with a new \$50m loan facility from Oaktree in October 2022

Ongoing process for the **sale and leaseback** of the Group's 36,000 sq ft Windrush Court facility; seeking offers in excess of £55m

A review of the **gene therapeutics pipeline** is underway, including strategic options to externally fund an appropriate future pipeline of products and other novel opportunities \rightarrow To be executed in **2023**

Cost-control initiatives are in place, including right-sizing of headcount as the pandemic eases and taking a cautious approach to planning significant new projects

Financial Outlook



- Similar levels of revenues expected in H2 2022 as those in H1 2022; more than 90% of forecasted revenues for the second half of the year covered by existing binding purchase orders and rolling customer forecasts
- Continued growth in lentiviral vector and AAV manufacturing volumes, with lower vaccine volumes anticipated
- Aggregate revenues of c.£30m from AstraZeneca for FY 2022, with the bulk of revenues having been recognised in H1 2022
- Broadly break-even operating EBITDA¹ expected in H2 2022
- Capex expected to be similar in H2 2022 to H1 2022

Long term target: A market leading position in the viral vector outsourced supply market across all key vector types, with long term revenue growth rates exceeding the broader market

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Expected Catalysts H2 2022



- New deals anticipated for H2 2022 and through 2023
 - → Additional AAV deals through 2022-23; revenue ramp up from OXB Solutions
- Therapeutics **product strategy to be executed** in 2023
 - → Maintaining a long term economic interest with a potential material reduction in annual operating expenditure
- Conclusion on part-repayment and refinancing of Oaktree loan facility
- Completion of **sale and leaseback** process for Windrush Court

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Cell and gene therapy will bring the next wave of breakthroughs in medicine

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Appendix

Corporate and Market Information

Company Facts

- IPO on Main list LSE in April 2001 (OXB.L)
- £310 million (approx. \$358 million) raised to date
- At 27 October 2022
 - Share price £3.23 (\$3.74)
 - Market cap: £311 million / \$360 million

Major/significant Shareholders (1)	Share
Novo Holdings A/S	10.4%
Vulpes Investment Management	9.7%
Liontrust Asset Management	8.4%
M&G Investments	5.8%
Serum Life Sciences	3.5%
Nine Ten Capital Management	3.5%
Vitruvian Partners	3.1%
Hargreaves Lansdown Asset Management	3.1%
Mr Shah	3.0%
Other	49.5%

Last 2-Year Share Price Performance



ESG H1 2022 Achievements



Oxford Biomedica's ESG strategy is focused on five pillars: People; Community; Environment; Innovation and Supply Chain.



People

A working group was formed applying Equality, Diversity & Inclusion principles across OXB

16 representatives were elected to our Workforce Engagement Panel raising issues that are important to employees

New mental health and wellbeing initiatives were introduced



Community

35 apprenticeships enrolled in different programmes across OXB.

Community volunteering scheme allowing employees to request 7 hours of paid time off for volunteering each year

Fundraising efforts for Oxfordshire Mind and Homeless Oxfordshire continued



Environment

Engaged with waste operators to increase levels of recycling

Onsite waste awareness day

External programme to improve energy efficiency in laboratory cold storage

Tree planting schemes have been investigated to offset paper use



Innovation

Continued to support PhD studentships through ABViP, a multidisciplinary training programme for next-generation bioscience leaders



Supply Chain

A supplier code of conduct has been rolled out and published on the Group's website

LentiVector[®] Platform and OXB 302 Patent Families (Published)



Patent Family (publication no.)	What is covered		
US 7,419,829	WPRE variant – key safety feature		
WO 03/064665	Rev-less vectors – key safety feature for clinical use		
WO 2009/153563	Downstream processing of manufactured vector to maximise yield		
WO 2015/092440	TRiP system – improved manufacturing, particularly vector titre		
EP3502260; EP3633040; EP3696272; US 2019-0211358	Vector production methods – modular plasmids and stable cell lines		
WO 2019/175600	Vector production methods – secreted nuclease		
WO 2021/014157	Vector production methods (U1)		
WO2018/167486	Anti-5T4 methods for treating/preventing haematological malignancies Anti-5T4 CARs with specific sequences		
WO2021/094752	Improved TRiP system		
WO2021/181108	Automated RCL assay		
WO 2021/160993	MSD-KO – improved safety profile of vectors		
WO2021/181108	Lentiviral vector genome modifications – improved capacity and safety profile		
WO2021/229242	U2 – an additive to increase titre		
WO2022/101617	Transfection method and upstream process C		

Senior Executive Team (1/3)





Senior Executive Team (2/3)



Kyriacos Mitrophanous, PhD Chief Scientific Officer Joined OXB in 1996	PhD in Molecular Biology from UCL; postdoctoral research at Oxford University Recognised expert in lentiviral vectors with key publications (<i>Lancet, Human Gene Therapy</i>) and inventor on numerous patents
James Miskin, PhD Chief Technical Officer Joined OXB in 2000	UNIVERSITY OF LEEDS
Nick Page Chief Operations Officer Joined OXB in 2018	UNOVARTIS E Healthcare Hospira Catalent.
Ravi Rao, PhD Chief Medical Officer Joined OXB in 2022	HEALTH INVESTORS SITTYX Geglea Roche gsk

Senior Executive Team (3/3)

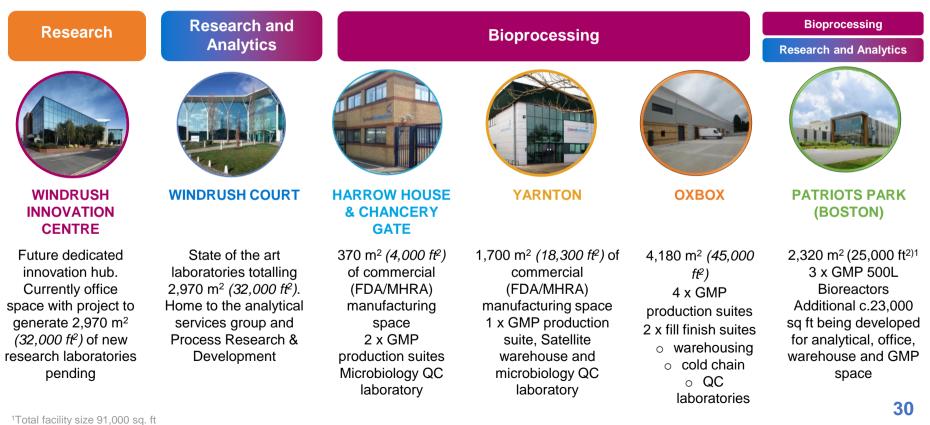


Lisa James Chief People Officer Joined OXB in 2016	Simon Hegele Logistics and Service
Natalie Walter General Counsel Joined OXB in 2019	COVINGTON
Matthew Treagus Chief Information Officer Joined OXB in 2021	TRIGENIT

Oxford Biomedica Facilities Overview

We've dedicated facilities to support innovation from conception to commercial reality





Collaborative and complementary AAV and lentiviral vector-based approach



	Transfection	Upstream & Downstream	Analytical Testing	Cell Technology	
AAV Manufacturing and Innovation	Triple and dual plasmid system	Scaled to 500L & 2,000L Sector leading AAV vector quality	Full suite of methods established	HEK293 cells transient production	
Oxford Biomedica Technology			Assay automation Advanced analytics (mass spectrometry)	HEK293, HEK293T cells for transient production & LentiStable [®]	
Technical Synergies	Lower material costs Improved quality Easier scale up to >500L	Higher yields with superior quality attributes	Faster more efficient testing Leading in vector characterisation	Opportunity for better transient and stable cell lines for LV and AAV production	



Collaborative and complementary AAV and lentiviral vector-based approach has the potential to accelerate the mission to improve patients' lives worldwide