



An innovation-led CDMO focused on life saving cell & gene therapies

Investor Presentation

JP Morgan Global Healthcare Conference

Forward Looking Statements



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Oxford Biomedica: A leading CDMO serving as a global viral vector partner for cell and gene therapy companies



OXB is well positioned to solve our partners' manufacturing challenges

- Innovation-led CDMO of choice, with proprietary technologies and a rich history in Viral Vector (VV) manufacturing
- Well invested capacity and technological capabilities continue to attract and retain partners



Viral Vectors play a critical role in cell and gene therapy

- Strong double digit growth forecasted for each of Adeno-Associated Vector (AAV) and Lentiviral Vector (LV) outsourced supply market¹
- High quality, cost effective and commercially viable VV are critical for the success of C>



Cell and gene therapies are bringing a new wave of breakthroughs in medicine

- Over 500 biotechs and majority of Big Pharma active in the space²
- C> products account for 12% of the industry's clinical pipeline and at least 16% of the preclinical pipeline¹



Proven track record of high quality vector manufactured at pace

- · Leading expertise in delivery for clients from early stage through commercial
- 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

- Lentiviral vector, Adenovirus and AAV platform (through Oxford Biomedica Solutions)
- Strong foundations for continued high growth and path to sustained profitability

¹ 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) ² McKinsey & Company, 2020

Strong business evolution over the last 5 years



	As at 31 December 2017	As of Today	
Revenue	£37.6m	c.£130m (FY 2022E)	
	6 – All Lenti	17 - across Lenti, AAV and Adeno	
Viral Vector Partners	NOVARTIS Sioverativ IMMUNE DESIGN	NOVARTIS Cherapeutes AstraZeneca Cabaletta Bio Immatics Liowology Medicine, Inc. Boehringer Ingelheim AARCELLX	
Kymriah Sales	\$76m reported to Dec 2018	\$540m to Sept. 2022	
Size of Viral Vector Markets Positioned to Target	\$200m bioprocessing opportunity in Lenti in 2017 growing to \$800m by 2026	\$2.8 billion by 2026 across adenoviral, AAV and integrating vectors (including Lenti)	
Proprietary Products	All in house with plans to spin out or out-license	Expected to be externally funded with OXB retaining an economic interest	
Facilities/Capacity	Three facilities in Oxford running at close to full capacity, Windrush Courts, Harrow House & Chancery Gate, Yarnton	Six UK-based facilities + US (Boston) facility Oxbox, Windrush Court, Windrush Innovation Centre, Yarnton, Harrow House & Chancery Gate, Patriots Park (US)	

Fast growing addressable markets for viral vectors

	2026 TAM ⁽¹⁾ , '20-'26 CAGR, (# of Pipeline Assets)	Select Viral Vector Based Products (Phase ⁽²⁾), Peak Sales	OXB Growth Opportunity	OXB Offering
AAV T	c. \$2.2bn, +25% (362)	NOVARTIS Zolgensma (M), \$2.8bn BIOMARIN Roctavian (M), \$2.0bn bridgebio BBP-631 (P3), \$3.4bn		 End-to-end capabilities spanning early vector design, clinical trials and scalability for commercial supply GMP manufacturing, quality control, stability testing and CMC support Suite of analytical methods that have cleared CMC for 3 approved AAV based IND applications to initiate Phase 1 trials
Integrating (Lentivirus and γ- retroviral)	c. \$0.5bn, +17% (45)	V NOVARTIS Kymriah (M), \$0.8bn Johnson Garvykti (M), \$5.0bn		Proprietary LentiVector® platform, the 1st commercially approved Lentiviral based gene delivery system
Adenovirus	c. \$<0.5bn, -25% (23)	AstraZeneca Vaxzevria (M), \$4.0bn Theriva BIOLOGICS VCN-01 (P2) ⁽³⁾ , \$0.7bn	→	Trusted adenovirus manufacturer with a versatile platform that has proven scalability at speed for large-scale commercial manufacturing of adenovirus vector-based therapies

Total Addressable Market for outsourced viral vector supply is expected to be \$2.8bn by 2026 growing to \$4.8bn by 2030

Strong foundations for continued high growth

	What Partners Want		OXB Innovation	
Exp		 A CDMO that can advise them early in the development process and optimise the production process Against a backdrop of escalating regulatory requirements, C> players need a reliable partner with expertise and proven track record to 	1	Efficacy. Efficient delivery and integration to provide long term gene expression
	Expertise		2	Yield/Titre. Improving quantity of virus produced through cell and vector engineering
and ava	Flexibility	Shortened development timelines and expedited approval pathways has increased the requirement for reliable CDMOs with proven ability to scale up quickly	3	Quality. Improving purity and reducing toxicity of products. Generally reducing risk in production output
	and available capacity		4	Feasibility. Development of analytical and physical methods to enable viral vector processes to happen
	Technical	 Partners want a CDMO that has the technical expertise to de-risk the key challenges leading up to BLA submission and commercial launch Strong track-record of success in terms of yield and regulatory 	5	Patient Safety. Innovations in vector technology to reduce the chances of adverse effects related to vector administration
	capabilities		6	Viability. Efficiency in production to reduce cost-of-goods components of treatment making gene therapy more accessible including to larger indications

OXB has proven world-class capabilities from early-stage development through to commercialisation

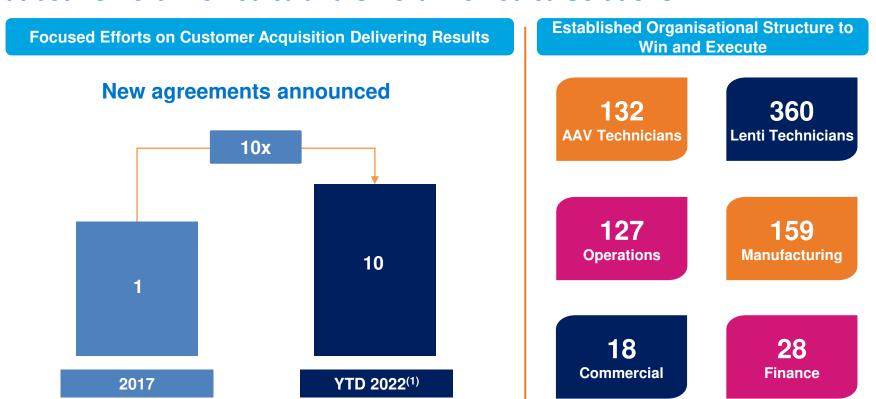
Oxford Biomedica's end-to-end capabilities enable us to be the chosen partner for companies from discovery to commercialisation

Illustrative OXB Revenue Streams from Viral Vector Development Process



Source: Company data and third party research. Illustration of potential OXB revenue streams throughout the product development process. The timing of OXB revenue recognition from executed contracts will vary depending on agreements with partners

Strong momentum of delivering revenue growth through new agreements at both Oxford Biomedica and Oxford Biomedica Solutions



2022: Continued Progress in Delivering Innovative Services to C> Partners





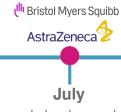
Announced a License & Supply Agreement (LSA) with **Cabaletta Bio** for their DSG3-CAART programme



OXB broadens VV offering by forming AAV manufacturing and innovation business in the US

Proprietary plug and play manufacturing process and platform

Robust BD pipeline with c.\$25m of minimum contracted revenues for 1st 12 months



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 Master Services and Development Agreement to facilitate potential future manufacturing opportunities with **AstraZeneca**. Oxford Biomedica expects to recognise aggregate revenues of approx. £30m from AZ in 2022



Brought new function in house:

Oxbox facility spanning 84,000 sq.ft received MHRA approval for fill finish suite

December

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 4 **new partners** granting access to Oxford Biomedica Solutions' **AAV** platform

OXB expanded its number of partners by over 70% (10 to 17) in the last 12 months(1)

Recent & Upcoming Newsflow

- Appointment of Frank Mathias as CEO announced
- Completion of sale and leaseback process for Windrush Court with £60m gross proceeds
- Positive momentum in new agreements annonced in 2022
 - → Revenue ramp for OXB Solutions driven by additional AAV agreements in 2023 and beyond
- Launch of fourth generation lentiviral vectors expected in 2023
 - → Vectors that enable higher expression, have additional safety features and larger capacity to deliver greater amounts of DNA
- Therapeutics product strategy to be executed in 2023
 - → Strategic options to externally fund an appropriate future pipeline of products and other novel opportunities
 - → Maintaining economic interest with a potential material reduction in annual operating expenditure

Note: AAV: Adeno-Associated Virus, VV: Viral Vector

FY22 Operational & 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 partner 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
- 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
- Broadly break-even operating EBITDA¹ expected in H22022
- Strong cash position, cash at 30 June 2022 was £118.5 million and £115.8 million at 31 August 2022
 - Completion of the sale and leaseback bolstered cash position to in excess of £150 million
- 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

What is the opportunity for OXB?



Rapidly growing addressable market for outsourced viral vector supply



Proven expertise and track record in delivering development and commercial manufacturing at pace



Vector agnostic and investing in innovation to continue to deliver cutting edge solutions



Chosen partner with unique expertise for cell and gene therapy players



Internal reorganisation enhances focus on CDMO activities



Delivering attractive financial growth and returns for shareholders

Positioned to benefit from the increasing demand for high quality viral vectors



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APPENDIX

AAV Manufacturing: Integration Update



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

Announced

Announced transaction with Homology Medicines in January 2022

Accretive

The transaction was immediately accretive to the Group's revenue growth

New Customers

4 new agreement announced compared to the one agreement targeted for 2022

Completed

Completed transaction, and established Oxford Biomedica Solutions in March 2022

c.\$25m (£21m) Contracted Revenues

Minimum contracted revenues in the first full twelve months from Homology Medicines

Integrated

Transfer of 124 technical operation employees completed

Three Additional 500L Bioreactors

Expanded the Group's viral vector capabilities into the large and growing AAV segment

- Robust business development pipeline
- Additional c.23,000 sq ft of fallow area is being developed for analytical, office, warehouse and GMP space
- Looking to extend Process D manufacturing to AAV production
- Break-even EBITDA expected to be reached by H1 2025

Note: AAV: Adeno-Associated Virus

Track record of growing partnerships to drive growth

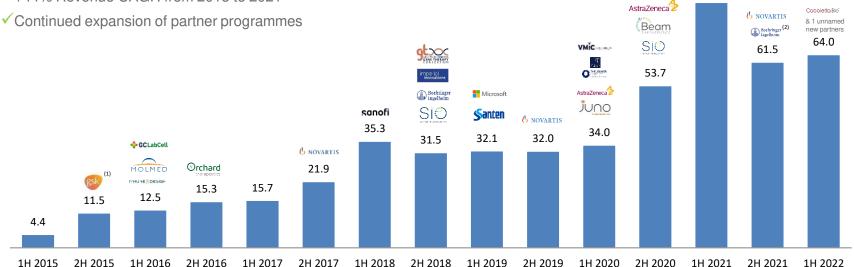


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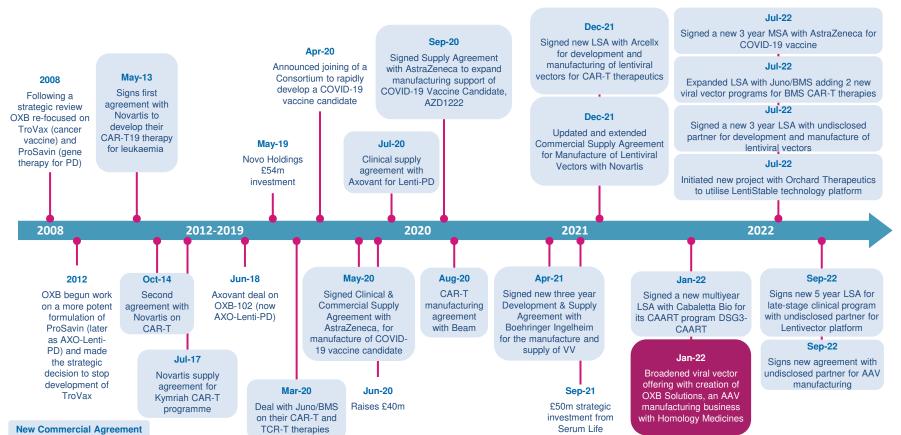
Revenue Development (£m)

- ✓ Trusted partner to pharma with tested commercial scale capabilities
- Track-record of growing underlying business and winning new customers
- ✓ Dynamic and able to seize new opportunities
- √ Successfully audited by large pharma and regulatory bodies all around the world
- √ +44% Revenue CAGR from 2015 to 2021



OXB's journey in becoming a leading Cell and Gene Therapy CDMO Biomedica





Sciences

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