

Forward-looking statements

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Gene and Cell Therapy Company With a Leading Lentiviral Vector Delivery Platform (LentiVector®)

Gene and cell therapy expected to grow into a multi-billion US\$ sector over the next 5-10 years¹

- Upcoming product launches: Strimvelis (GSK), CD19 CAR-T (various)
- Multiple players in ex vivo cell therapy CAR-T, TCR, Stem Cells, NK cells, etc.
- Many in vivo studies, particularly in ophthalmology and CNS

Lentiviral vectors have advantages over other vector types

- Ex vivo cell therapies require integrating vectors lentiviral vectors are preferred choice
 - Lentiviral vectors have demonstrated long-term efficacy, supporting the "one-off" treatment hypothesis



OXB's proprietary LentiVector® gene delivery platform

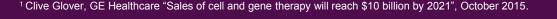
- Used for both *in vivo* and *ex vivo* lentiviral vector products
- 20 years' experience of delivering lentiviruses in vivo
- Combination of OXB's IP, technology, employees' expertise, bioprocessing & laboratory facilities

World-class bioprocessing capabilities and track-record

- Novartis CTL-019 bioprocessing contract
- Signed agreements with Immune Design and Green Cross LabCell, others in discussion
- State-of-the-art bioprocessing facilities, expertise and know-how



- OXB-102 & OXB-202 to be spun out or out-licensed, entering Phase I/II clinical studies in next 12 months and OXB-302 is a CAR-T pre-clinical programme targeting solid tumours
- Milestones & Royalties on partners' products: Sanofi (SAR422459 and SAR421869); Novartis (CTL019 and an other undisclosed CAR-T programme); Immune Design (LV305) and GSK (two undisclosed rare orphan products)

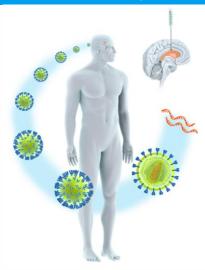


Oxford BioMedica, the LentiVector® Company – at a glance

- 20 years' experience
 - Formed out of Oxford University in 1996 specialising in lentiviral products
 - First to administer a lentiviral vector *in vivo* (both the brain and the eye)
 - Over 60 patients treated *in vivo* in four Phase I/II studies, with encouraging indications of efficacy lasting up to four years with no significant safety issues
- Integrated LentiVector® gene delivery platform
 - IP extensive IP comprising both patents and know-how
 - Facilities state-of-the-art bioprocessing and laboratory facilities
 - Employees Over 250 full time employees, many highly qualified and experienced
 - Quality robust quality processes for lentiviral vector production
- Five in-house products available for spin out or out-licensing
- Partnerships with Novartis, Green Cross LabCell and Immune Design, and ongoing discussions with several other potential partners
- Licences to Sanofi and GSK

OXB active in both in vivo and ex vivo Programs

In vivo development

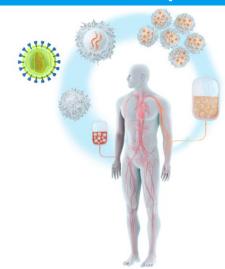


- Direct administration of lentiviral vectors to target organ in vivo
- Lentiviral vectors have advantages vs. AAV
 - Larger therapeutic payloads (up to 9 kb)
 - · Permanent modification of dividing cells
 - No pre-existing immunity
- OXB's lentiviral vector administered to >60 patients & cumulative patient safety data >150 years

Offers potential for single application treatment giving long-term or even permanent efficacy

Example: OXB-102

Ex vivo development



- OXB produces GMP lentiviral vector encoding CAR targeting CD19
- White blood cells (T-cells) isolated from patients
- Vector used to transduce expanded T-cells
- The modified T-cells are infused back into the patient
- Once inside the patient, the T-cells multiply, 'hunt' cancer cells and destroy them
- OXB's own CAR-T program targets 5T4 tumour associated antigen

Example: Novartis' CTL019 & OXB-302

Leveraging Our LentiVector® Delivery Platform

Partners' Programmes

Exposure to multiple income streams

- Process development fees
- Process development incentives
- Bioprocessing revenues
- Royalties

Process
development and
bioprocessing

R&D Investment Technical Developments

OXB products via spin out or out-licence

- Development milestones
- Royalties e.g. Sanofi
- Bioprocessing revenues

Spin out or out-license

R&D Investment Early Stage/ preclinical

LentiVector® Platform

IP – patents and know-how Facilities
Expertise

Oxford BioMedica CAR-T partnership



Overview

- Non-exclusive licence to OXB's IP:
 - Up fronts (2014) and future royalties
- Lentiviral Vector bioprocessing:
 - Initial three year contract to manufacture CTL019 for clinical studies; extendable
- Process Improvements:
 - Contract to develop next generation vector processing, switch from adherent cell factories (Process "A") to single-use, serumfree, suspension process (Process "B")
 - Milestones paid on achievement of targets

Achievements to date

- Multiple Process A CTL019 batches supplied to Novartis since October 2014 for use in clinical studies – and multiple confirmed purchase orders through to Q2 2017
- Successful development of Process B 200 litre validation batches underway in H2 2016 – pilot studies suggest significant productivity improvement
- Novartis on course to file CTL019 BLA in early 2017, with approval expected in 2017 due to Breakthrough Therapy designation

Forward Looking

- BLA CMC section based on OXB's Process A, so OXB will be sole manufacturer for commercial launch expected in H2 2017
- Royalty flow expected to start in H2 2017
- Work on second CAR-T programme (undisclosed indication) set to expand

Examples of companies conducting clinical trials with lentiviral vectors



Example of Companies working in pre-clinical development with lentiviral based vectors





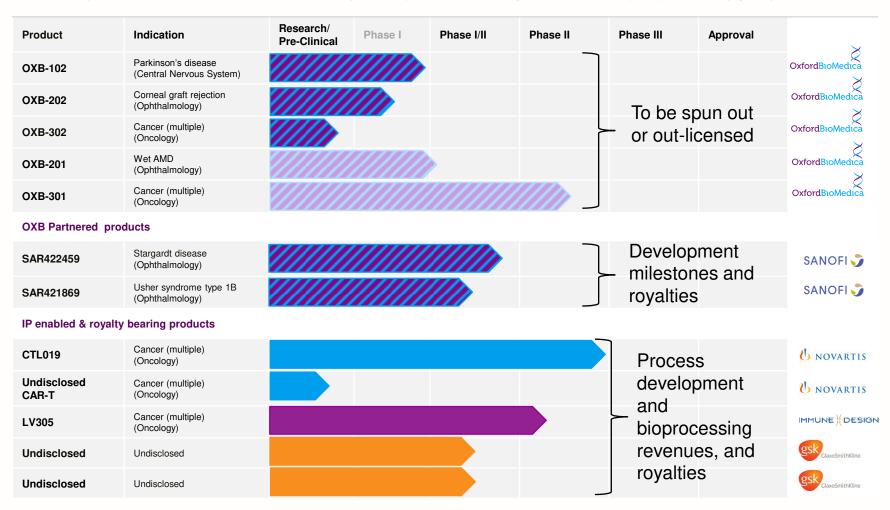






Products Pipeline

Oxford BioMedica has an interest in many gene and cell therapy projects and our integrated platform technology is instrumental in the following wholly-owned and partnered / royalty-bearing programmes



Proprietary R&D Activity

In-house Product Discovery/Research – providing a flow of new product opportunities

- Several ocular orphan diseases programmes
- CNS orphan disease programme
- Respiratory orphan disease programme
- Gene-modified NK cell therapeutics with Green Cross LabCell for cancer

Technical developments – continuous improvement of the LentiVector® platform

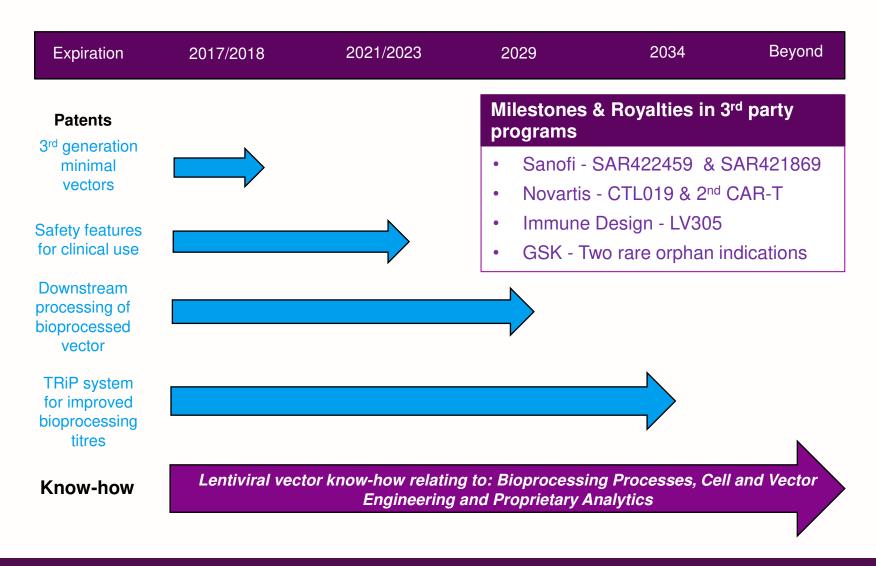
- Cell and vector engineering projects to improve bioprocessing yield – for example:
 - TRiP system development



- Packaging & producer cell lines
- Analytical methods improvements to improve efficiency and effectiveness of testing
- Scale-up manufacturing
 - Serum free
 - Suspension
 - 200 L bioreactor

Innovation and optimisation to build long-term value – a key competitive advantage to durably maintain leadership in the field

LentiVector® Platform IP



Oxford BioMedica Facilities in the UK









Facilities less than 1 hour from London Heathrow Airport: more than 250 employees

State-of-the-art Bioprocessing Facilities (Oxford, UK)

Two separate bioprocessing sites (total clean rooms 1,200m²/12,917ft²)

Laboratories (2,136m²/22,992ft²)

Harrow House

Two
independent
GMP clean room
suites (GMP1
and GMP2)
totalling
640m²/6,889ft²

GMP2 facility
designed for up
to two 200L
single use
bioreactors

Potential for further expansion

Yarnton

One independent GMP clean room suite (GMP4) of 560m²/6,028ft²

Potential for use with 200L single use bioreactors

Windrush Court Laboratories

Nine Tissue Culture **Two Analytical Services Group Cell Engineering** Laboratories with 24 (ASG) Laboratory **Microsafety** Laboratories **Cabinets Two Process** Three Bio Safety Research and Category 3 (BSL-**Development** One PCR suite C3) Laboratories (PR&D) Laboratories Separate QC Clinical Analysis Chemistry and Separate HPLC Microbiology Laboratory and FACS Suites Laboratories



Potential Near-term Catalysts (Next 12 Months)

Novartis catalysts

- Novartis CTL-019 study results
- Novartis CTL-019 BLA submission
- Milestones and royalties

LentiVector® delivery platform

- Further contracts with new and existing partners giving us long-term economic interest in partners' product candidates
- Successful development of 200L bioreactor serum-free suspension process to produce lentiviral vectors at significantly lower cost per dose

In-house products

- Successful spin out / out-license of in-house product candidates, delivering potential up-fronts, bioprocessing revenues, development milestones and royalties
- First patients dosed in OXB-102 and OXB-202 Phase I/ II clinical studies with appropriate partner

Vision of Oxford BioMedica – by end 2018

Core LentiVector® R&D

New product candidates emerging from research/discovery using the LentiVector® platform

Lead gene-modified NK cell therapeutic candidate emerging from the GCLC research collaboration

Technical developments – continuous improvement of the LentiVector® platform

Feeds further partnership / monetisation opportunities

Partnerships and Licences

Novartis

- CTL019 launched
- Oxford BioMedica supplying commercial material
- Royalties from CTL019
- Second CAR-T product into clinical development
- Further CAR-T programmes assumed

Sanofi

• SAR422459 to be in a pivotal trial (Phase IIb/Phase III)

Immune Design

LV305 progressing well in clinical development

OXB Products with Partners

- OXB-102 Phase I/II first three cohort data
- OXB-202 Phase I/II first two cohort data
- OXB-302 In Phase I/II clinical study

Multiple further partnerships

Which give Oxford BioMedica economic interests in a range of gene and cell therapy products and process development revenue / income opportunities

Bioprocessing

Facilities operating at, or very, near capacity

Summary: A Leading Gene and Cell Therapy Company



Gene and cell therapy is predicted to grow into a multi-billion US\$ sector over the next 5-10 years



Lentiviral vectors have advantages over other vector types





 OXB's sought-after LentiVector® gene delivery platform for both in vivo and ex vivo lentiviral vector products



 OXB has world-class bioprocessing facilities and collaboration trackrecord in the field



OXB's product interests include own clinical and preclinical pipeline either spun out or out-licensed and an economic interest in partners' products

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