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Innovators and Investors Forum

Julian Smith, Chief Financial Officer

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Helping select, improve, de-risk & manufacture biopharmaceuticals

Licensor of proprietary technologies providing complementary services

Service revenue from range of pre-clinical and manufacturing services

- Acquisition of two US companies in 2015
- PacificGMP & TCRS broaden service offering
- The Group is integrating and consolidating their operations
- Cross-selling and expansion opportunities

Significant income potential from licence portfolio of partner funded "ABZENA inside" products

- 11 ABZENA inside products already in clinical development
- Three ABZENA inside product companies purchased for a total of US\$1.5bn (US\$500m cash)
- Multi-billion \$ sales potential
 - 4 products in later stage clinical studies
 - 5 products partners with major biopharma companies
- Licensing deal for ThioBridge™ antibody drug conjugate (ADC) linker technology has the potential to generate up to \$150 million licence fees and milestone payments and royalties



Experienced board & executive team

Non-executive directors



Ken Cunningham Chairman Abzena plc



Tony BramptonPartner *Longbow Capital*



Nigel Pitchford Chief Investment Officer Imperial Innovations



Peter GrantChief Executive Officer
SkyePharma plc



Anker LundemoseChief Executive Officer *MISSION Therapeutics*

Executive directors



John Burt Chief Executive Officer



Julian Smith
Chief Financial Officer

Executive management

Matthew Baker Chief Scientific Officer

Campbell Bunce SVP Scientific Operations

Neil Butt *VP Business Development*

Donna Hackett *VP IP, Commercial & Legal Affairs*

Naresh Jain
SVP (ADC Biomanufacturing) &
Global Head of Chemistry

Jim Mills

VP Technical Operations

Gary PiercePresident, PacificGMP

Leigh PierceChief Technology Officer
(Biomanufacturing)

Sally WatermanSVP Corporate Development



Broad-based offering from UK & US operations





Bioconjugation for ADC Specialised Chemistry Cambridge & Coventry UK



Immunology, CLD
Protein Engineering,
Cambridge UK



Antibody & Protein GMP manufacturing San Diego USA



- Principal lab and head office facilities at Babraham Research Campus, Cambridge, UK
- Satellite labs in Coventry (UK) at the University of Warwick Science Park
- GMP manufacturing facility for antibodies and other proteins in San Diego, CA, USA
- Custom chemistry and ADC manufacture near Philadelphia, PA, USA

GMP = Good Manufacturing Practice, the standard that must be applied to drugs to treat patients CLD = Cell Line Development,





Strong support for business strategy from leading sector investors

IPO July 2014 and secondary placing in December 2015

Funds being used to achieve step changes in growth trajectory through:

- R&D investment building expertise & technology
- M&A two acquisitions announced in 2015











Abzena operates in the large growing biopharmaceuticals market

Global revenue for biopharmaceuticals \$163bn - CAGR 8%

7 out of the world's top 10 drugs¹

Outsourced early development services > \$5bn and growing

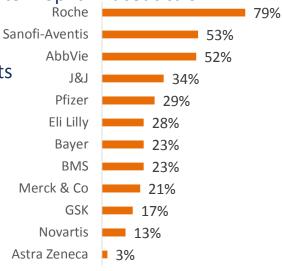
Innovation thriving as disease mechanisms are better understood

Immuno-oncology products harness the patient's own system

Antibody drug conjugates target tumours to kill them with lower side effects



Proportion of revenue attributed to Biopharmaceuticals





Background overview of the drug development process



Research services & technology evaluation

Revenue-generating

Optimisation & selection of better candidates

- Immunology
- Protein engineering ^L
- Bioconjugation for ADCs ^L

Technology Licence Portfolio

Significant potential future revenue



Development Services

Revenue-generating - growth facilitated by capex Enabling progression into clinical studies

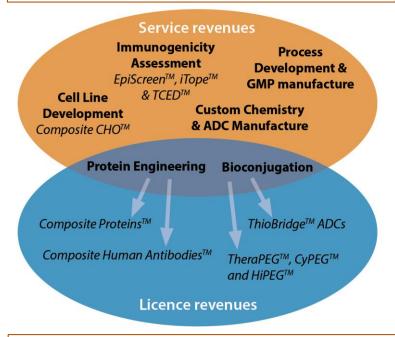
- Cell line development
- Process development
- GMP manufacture

Licences provide potential future value from further development & commercialisation by partners of **ABZENA** *inside* products through milestones and/or royalties arising from protein engineering and ADC linker technology

Complementary services and technologies

			Service revenues	Licence revenues
	300	EpiScreen™ for assessment of the immunogenicity of biopharmaceuticals	•	
ANTITOPE		Composite Human Antibody™ technology to create less immunogenic therapeutic antibodies	•	•
		Composite Protein™ technology to create less immunogenic therapeutic proteins	•	•
		Composite CHO™ to produce cell lines for the manufacture of therapeutic antibodies	•	
	CTACGACCTAL CCCGATCTAL	iTope and TCED™ technologies to identify parts of proteins and antibodies that could be immunogenic	•	
PACIFICGIVIP POLYTIHERICS		ThioBridge™ for linking antibodies that target tumours to cancer drugs	•	•
	S	TheraPEG™, CyPEG™ and HiPEG™ for linking polymers to therapeutic proteins to extend their duration of action	•	•
	7 37	PolyPEG™ a low viscosity polymer to make it easier to manufacture and inject long acting therapeutic proteins	•	•
		Process development to optimise upstream and downstream production as a standalone service or integrated with a manufacturing project	•	
		GMP manufacture of biopharmaceuticals for Phase I & II clinical studies and non-GMP production using single-use equipment	•	
TCRS	X	Toolbox of cytotoxic payloads and synthesis of payload-linker combinations for ADCs, and custom synthesis of other reagents and small molecules	•	
		Manufacture of ADCs for evaluation and preclinical studies using ThioBridge™ or other proprietary or non-proprietary conjugation chemistries	•	

Growing service revenues through organic growth & expansion of offering via M&A

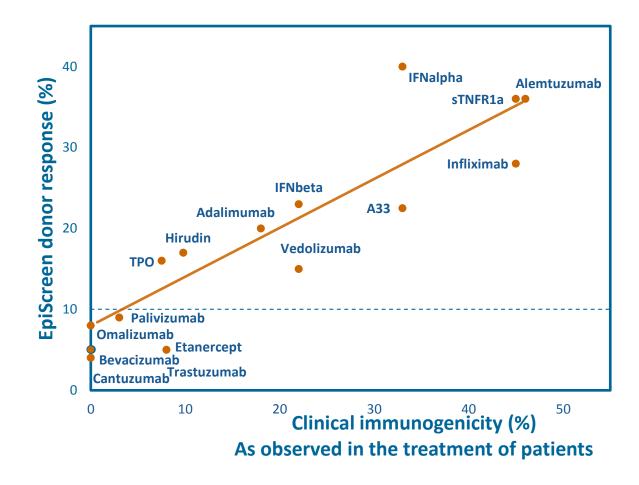


Portfolio of > 40 licence & licence option agreements with potential to deliver significant future licence revenues



Immunogenicity risk assessment:

Potential to anticipate outcome prior to clinical studies



Abzena has shown that the results of its immunogenicity assay (EpiScreen™) correlate with the published data on the immunogenicity of well-known products in patients



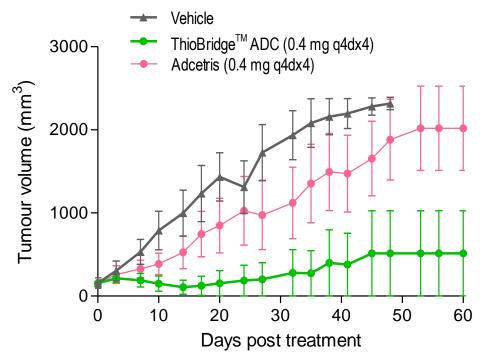
Wavebag manufacturing process



Enabling better biopharmaceuticals

Benefits of ThioBridge™ ADCs

ThioBridge™ conjugation technology can produce ADCs which are easier to manufacture with more predictable & stable effects allowing the drug to stay attached to the antibody until it reaches the tumour



ThioBridge[™] version of Adcetris (a marketed ADC) was more efficacious in an animal model of cancer

A licensing deal for ThioBridge™ ADC linker technology announced January 2016 has the potential to generate up to \$150 million licence fees and milestone payments with additional royalties on product sales



Significant potential income from products in clinical development

Company Product candidate	Potential indications	Phase I		Phase II	Phase III
Gilead Sciences GS-5745	Gastric cancer, ulcerative colitis, Crohn's disease, rheumatoid arthritis				
Gilead Sciences Simtuzumab	NASH & PSC				
Opsona Therapeutics OPN-305	Delayed graft function, myelodysplastic syndrome				
Vascular Pharmaceuticals VPI-2690B	Diabetic nephropathy				
Roche (Adheron) SDP051	Rheumatoid arthritis, fibrotic conditions, cancer				
NKT Therapeutics NKTT120	Sickle cell disease		Three ABZENA <i>inside</i> product companies purchased for a total of US\$1.5bn (US\$500m cash to date).		
Therapure Innovations TBI 304H	Chemotherapy-induced anaemia				
Major US biopharma company	Neurodegenerative conditions		Their products continue to be developed by their acquirers.		
US biotech company	Immune system and inflammatory conditions		Analysts view is this portfolio covers a		
Major US biopharma company	Neurodegenerative condition		peak market in excess of US\$10bn p.a.		
US biotech company	Cancer				

NASH = Non-alcoholic steatohepatitis; PSC = primary sclerosing cholangitis

Composite Human Antibodies™ in Phase II/III clinical development

Phase II

Gilead Sciences: simtuzumab

Non-alcoholic steatohepatitis

- · Fatty accumulation in the liver
- Incidence increasing: ~6m affected in US
- 3 studies ongoing in 551 patients with & without cirrhosis and in combination with other investigative agents

Primary sclerosing cholangitis

- Scar tissue restricts liver function
- Prevalence 2.8% population > 40 years
- 235 patient study ongoing

Opsona Therapeutics: OPN-305

Delayed graft function

- Occurs in ~21% patients in the US after kidney transplant (17,105 in US in 2014)
- 351 patient study ongoing

Myelodysplastic syndrome (MDS)

- Low number of blood cells produced
- Incidence 4.8 per 100,000 in US
- 40 patient study ongoing

Vascular Pharmaceuticals: VPI-2690B

Diabetic nephropathy (kidney damage)

- Will develop in ~40% diabetics
- 300 patient study ongoing

Phase II/III

Gilead Sciences: GS-5745

Gastric cancer (Phase III study initiated Q4 2015)

- 952,000 new cases reported in 2012
- 430 patient study ongoing

Ulcerative colitis (Phase II/III study)

- Chronic inflammation of colon & rectum
- Prevalence of 238 per 100,000 in US
- 1600 patient study ongoing

Crohn's disease (Phase II study)

- Inflammation of lower part of ileum
- Prevalence of 201 per 100,000 in US
- 175 patient study ongoing

Rheumatoid arthritis (Phase II study planned)

- Chronic progressive inflammation of joints
- Affects approximately 1.3 million US adults
- Phase II study details not yet announced

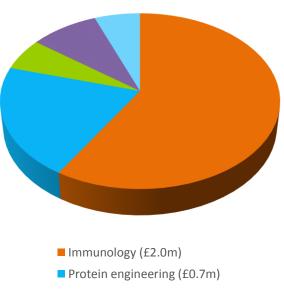




Financial highlights for the half-year to 30 Sept 2015

- Revenue £3.5m (\$5.3m)
 - Increased 43% from H1 2015 with service revenues up 47%
 - Small contribution from acquisition of PacificGMP
 - TCRS revenues will start to impact revenues in period to March '16
- Gross profit £1.6m (\$2.4m)
 - Increased by 31% from H1 2015
- R&D investment £1.9m (\$2.8m)
- Reported loss increased to £3.5m (\$5.3m)
 - Reported loss for H1 2015 £2.7m (\$4.0m)
- Cash at £7.4m (\$11.1m) at 30 September 15
 - £20m (\$30m) (net of expenses) raised in Dec 15

Service revenue split



- Bioconjugation (£0.2m)
- Cell line development (£0.3m)
- Biomanufacturing (£0.2m)











