





A NEW FRONTIER IN IMMUNO-ONCOLOGY

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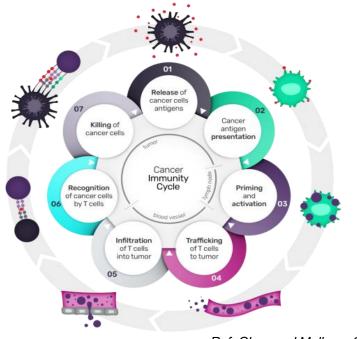
DIFFERENTIATED IMMUNO-ONCOLOGY CLINICAL STAGE OPPORTUNITY

COMPANY FACTS AND FIGURES	 Founders Prof Lindy Durrant and Dr Richard Goodfellow Corporate office based in Oxford, UK 23 employees (10 PhD's) AIM listed (SCLP)
PROPRIETARY TECHNOLOGY PLATFORMS	 Novel immunogenic antigens and modulation mechanisms that stimulate potent T-cell responses for the treatment or prevention of cancer Unique mode of action of IMMUNOBODY[®] and MODITOPE[®] immunotherapies stimulate immune responses by presenting cancer antigens to trigger potent killer T-cell activation
CLINICAL STAGE COMPANY	 Four lead products in development Lead product has completed a Phase1/2 study in melanoma Further clinical studies in preparation targeting multiple cancer indications

2 PLATFORMS, 4 LEAD PRODUCTS + MULTIPLE CANCER INDICATIONS



- Key challenge is to stimulate an effective T cell response to reject or kill the growing tumour
- Most vaccine strategies only stimulate low frequency, low avidity T cell responses that fail to control tumour growth
- Scancell's novel therapies stimulate high avidity CD8 and/or CD4 T-cells that efficiently kill tumours



Ref: Chen and Mellman 2013

TWO DIFFERENTIATED PLATFORMS

IMMUNOBODY®	MODITOPE®	
DNA-based platform generates high avidity CD8 T-cells by	Modified peptides that generate potent killer CD4 T-cells to	
presenting T-cell epitopes of known cancer antigens through	target antigens induced by stress-induced post-translational	
a unique dual mode of action	modifications (siPTM vaccines)	



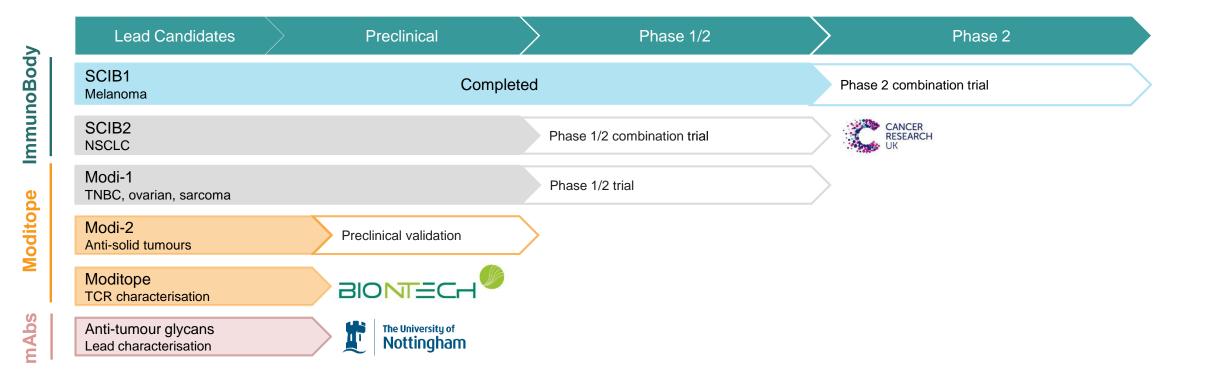
DEVELOPMENT PIPELINE

IMMUNOBODY®

- SCIB1: Targets malignant melanoma. Phase 1/2 study completed with strong survival data. Phase 2 combination trial with immune checkpoint inhibitor starting 1H19.
- SCIB2: Targets NSCLC. Phase 1/2 combination trial with immune checkpoint inhibitor to be funded and sponsored by Cancer Research UK (CRUK).

MODITOPE[®]

- Modi-1: Manufacturing process development initiated. Phase 1/2 trial in TNBC, ovarian and sarcoma planned for 2019.
- **Modi-2:** Targets multiple solid tumours. In preclinical development.
- TCR collaboration: To clone and characterise T cell receptors against Modi-1 specific epitopes.



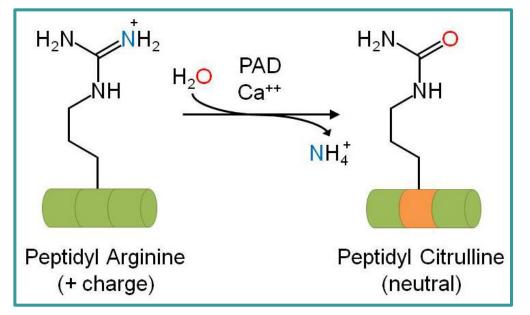


THE MODITOPE® PLATFORM

A NOVEL IMMUNOTHERAPY THAT OVERCOMES IMMUNOSUPPRESSION AND DELIVERS UNPRECEDENTED KILLER T-HELPER CELL RESPONSES

Stress-Induced Post-translational Modifications siPTM

- One such modification involves the process of CITRULLINATION
 - Involves the alteration of proteins due to enzymatic conversion of arginine residues to citrulline
 - Citrullination occurs as a result of a degradation and 'recycling' process called autophagy that is induced in stressed cells, including cancer cells



PAD = peptidylarginine deiminase

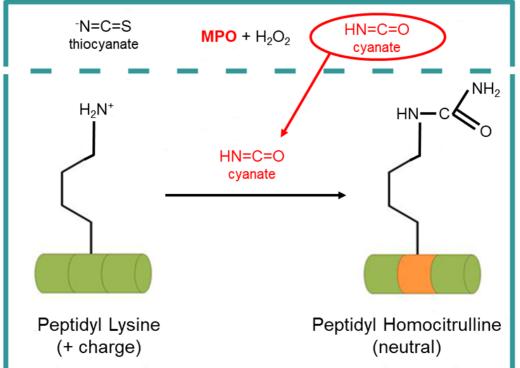
- The Moditope[®] platform is based on exploiting this normal immune response to stressed cells, which is largely mediated by cytotoxic CD4 T cells
- > The novelty of the technology is harnessing this mechanism to eradicate tumour cells by immunizing with citrullinated peptides
- > Patent awarded in Europe, Japan, China, Australia; for any citrullinated peptide for the treatment of cancer



THE MODITOPE® PLATFORM

Second siPTM involves the process of HOMOCITRULLINATION

- the alteration of proteins due to non-enzymatic conversion of lysine residues to homocitrulline
- Homocitrullination occurs as a result of MPO released by myeloidderived suppressor cells (MDSC) which converts thiocyanate to cyanate in the presence of H₂O₂
- Cyanate diffuses into tumour cells and results in spontaneous homocitrullination of cytoplasmic proteins
- These proteins are degraded during autophagy and homocitrullinated epitopes presented on MHC class II
- Patent filed with broad claims in cancer and composition of matter MPO = myeloperoxidase for any use of homocitrullinated peptides



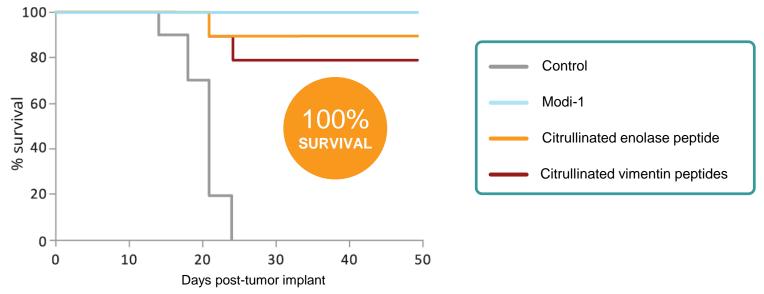


MODITOPE® LEAD CANDIDATE

Modi-1

Consists of:

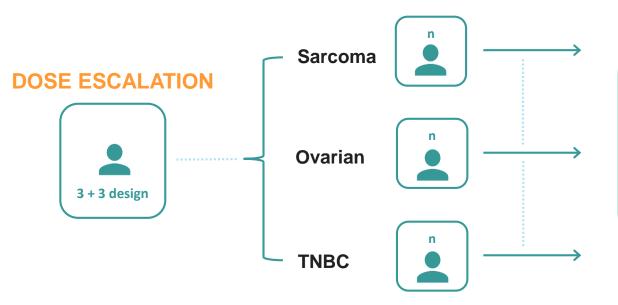
- Two citrullinated vimentin peptides (Vim-1 and Vim-2)
- One citrullinated enolase peptide (Eno-1)
- Vimentin and enolase targets are highly expressed in triple negative breast cancer (TNBC) (90%), ovarian cancer (95%), and sarcoma (100%) all with high unmet medical need
- Modi-1 induced potent anti-tumour responses
- Covalent linkage to Amplivant® (TLR-2 ligand as adjuvant) increases potency 100-fold
- A single immunization of Modi-1 resulted in a 100% survival rate in animal models





PATIENT POPULATION

- Patients with tumours with high vimentin or enolase expression (e.g., sarcoma, triple negative breast cancer, ovarian)
- Failed or intolerant to standard of care therapies



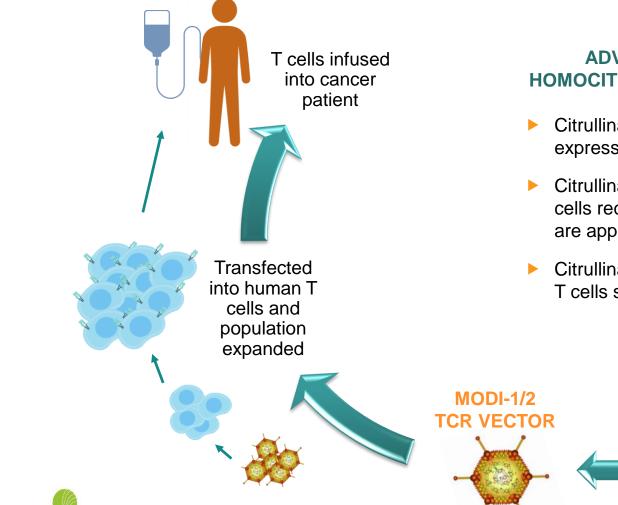
EXPANSION PHASE

Dosing regime

Dose escalation: 10, 50, 250 µg Weeks 1, 3, 6, 12 and 24 Patients may continue to receive Modi-1 at 12-week intervals up to 2 years

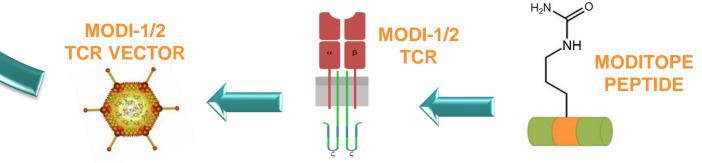


BIONTE



ADVANTAGES OF CITRULLINATED & HOMOCITRULLINATED ANTIGEN-SPECIFIC TCRS

- Citrullinated & homocitrullinated antigens are expressed by a wide range of tumours
- Citrullinated & homocitrullinated antigen-specific T cells recognise the non-polymorphic HLA-DP4 so are applicable to at least 70% of patients
- Citrullinated and homocitrullinated antigen-specific
 T cells stimulate potent anti-tumour immunity





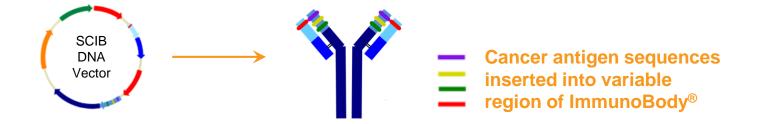
EXTERNAL VALIDATION OF MODITOPE® PLATFORM INTERNAL PROJECTS ADVANCED AND EXPANDED

MODITOPE[®]

- Research collaboration to develop T-cell based therapies established with BioNTech
- License agreed with ISA Pharmaceuticals for development of Amplivant[®] Modi-1 conjugate therapy
- ► GMP manufacturer contracted for production of Modi-1/Amplivant[®] conjugate
- Modi-1 clinical study expected to start in CY19
- Homocitrullinated peptides under evaluation for inclusion in new Modi-2 vaccine targeting multiple solid tumours
- Strong Patent protection
- Shortlisted for CRUK Grand Challenge award;



- Proprietary patent protected platform
- Several cancer associated T cell epitopes are engineered into a human antibody framework to make a genetic antigen/antibody complex
- Delivered as a DNA plasmid using electroporation



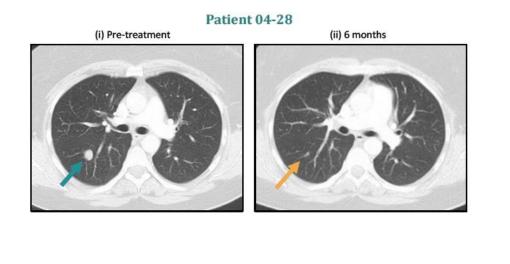
- Nano-vesicle delivery under evaluation
- Novel dual mechanism of action based on direct and cross-presentation
- SCIB1 for melanoma (TRP-2/gp100 melanoma associated antigens): Phase 1/2 clinical trial complete, Phase 2 planned
- SCIB2 for lung cancer (NY-ESO-1): Clinical development partnership with CRUK



SCIB1 has an excellent safety profile with no dose-limiting toxicities and no serious adverse events related to study drug or delivery device

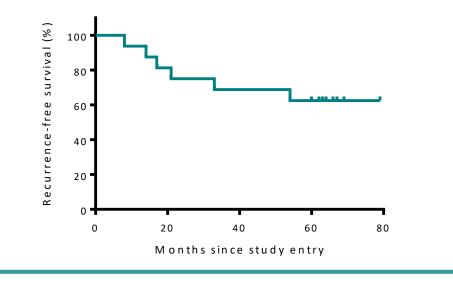
TUMOUR RESPONSE

Patient with tumour received 8 mg SCIB1 and showed a marked reduction in size of detectable lung lesions



SURVIVAL IN RESECTED PATIENTS

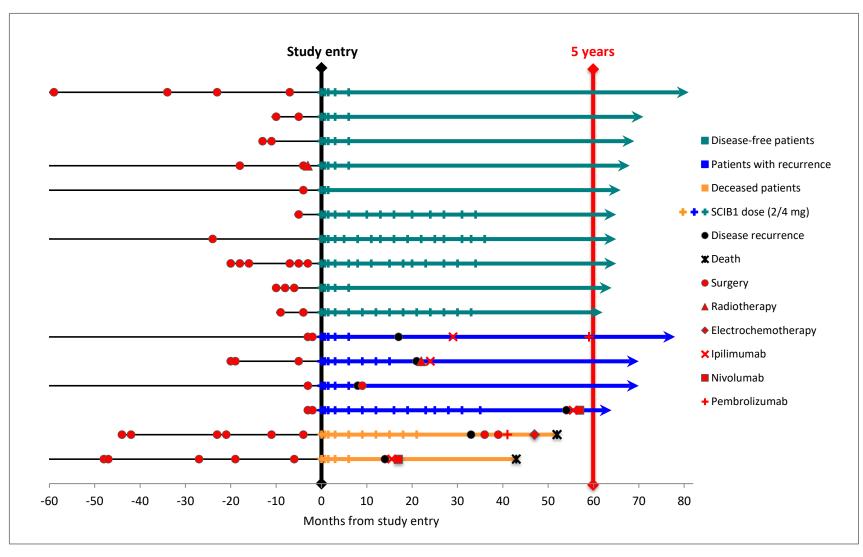
- Overall survival with SCIB1 treatment superior to historical survival rates
- 14 of 16 resected patients receiving 2-4 mg doses have survived for more than 5 years (February 2018)
- Melanoma recurrence rates are lower in SCIB1-treated patients than historical controls





SCIB1 IN MELANOMA PATIENTS

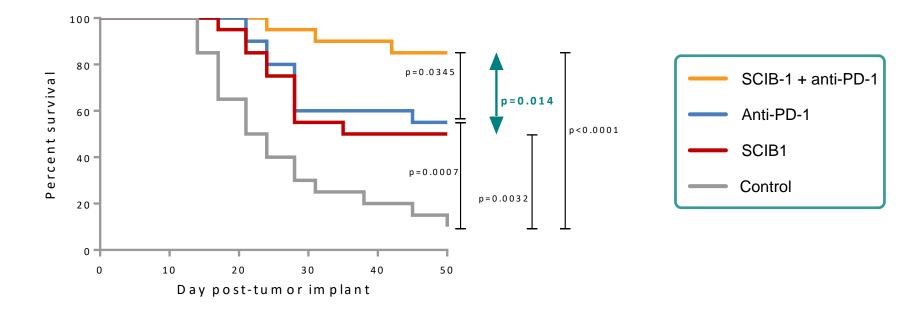
PATIENTS WITHOUT TUMOUR PRESENT AT STUDY ENTRY





IN A MOUSE MELANOMA MODEL, SURVIVAL RATES WERE SIGNIFICANTLY BOOSTED WHEN ANTI-PD-1 THERAPY WAS COMBINED WITH SCIB1 TREATMENT

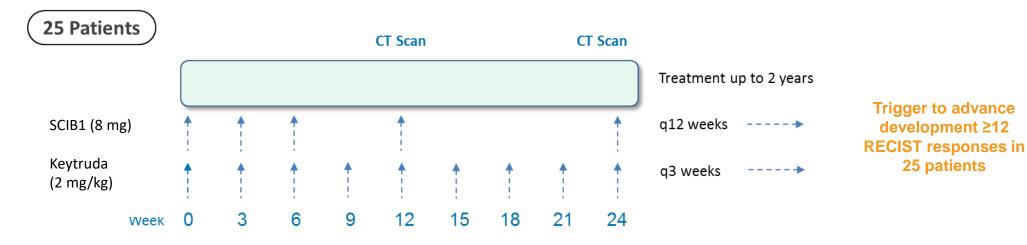
- Survival rates for SCIB1 ImmunoBody[®] monotherapy ≈ anti-PD-1
- Monotherapy viable option for resected melanoma patients
- Combination therapy resulted in an 85% survival rate
- SCIB1 also upregulates PD-L1 expression and memory response





PATIENT POPULATION

- Histologically confirmed, unresectable AJCC stage III or stage IV melanoma
- No prior systemic treatment for advanced disease
- Suitable for treatment with Keytruda (pembrolizumab), with measurable disease
- Part 1 safety run-in (n=6); Part 2 additional 19 patients; total = 25 patients



Assumptions

- Response rate to Keytruda = 30%
- Response rate of interest for combination = 55%



- IND submitted
- Reviewed by FDA
 - SCIB1 clinical and toxicology questions answered during review process
 - CMC questions under control
- Ichor TriGrid v2.0 device Master File
 - Device-specific questions
 - Responses being prepared by Ichor in consultation with Scancell
- Complete response required for review by FDA
- Continue to plan for study start in UK and US, subject to regulatory approval
- Studies in China in patients with mucosal melanoma?









IMMUNOBODY®

SCIB1

- In combination with checkpoint inhibitors in patients with late stage disease to increase efficacy without compromising safety
- As monotherapy in patients with resected disease (adjuvant setting) to delay or prevent recurrence

SCIB2

- Lung cancer huge unmet medical need; deaths per year greater than melanoma, colon, breast and prostate cancers combined
- Checkpoint inhibitors less effective in lung cancer, with 80% of patients requiring a better SOC

MODITOPE[®]

Modi-1 & Modi-2

- siPTM vaccine class
- Innovative mechanism of action potentially targets all solid tumours
- Modi-1 and Modi-2 will target tumours that are unresponsive to existing immunotherapy (turning "cold" tumours to "hot")
- Identification of Modi-specific TCRs provides a novel pathway for CD4-based TCR therapy



IMMUNOBODY®

SCIB1

 SCIB1/checkpoint inhibitor Phase 2 US/UK combination study in late stage melanoma, planned to start 1H19, subject to regulatory submissions

SCIB2

 CRUK development activities for initiation of SCIB2 Phase 1/2 study for NSCLC

MODITOPE[®]

Modi-1

- Preparation for the First-In-Human study with Modi-1 in patients with TNBC, ovarian cancer and sarcoma planned to start CY19
- Identification of Modi-specific TCRs in collaboration with BioNTech

Modi-2

- Pre-clinical development for multiple solid tumour indications
- Extension of patent portfolio



2 PLATFORMS, 4 LEAD PRODUCTS + 5 CORE ACTIVITIES

CLINICAL DATA	Generate meaningful clinical data to address unmet needs: clinical read- outs (SCIB1 Phase 2 & Modi-1 Phase1/2 pt 1) anticipated in next 2 years	
PIPELINE EXPANSION	 Extend utility of Moditope platform beyond Modi-1 and Modi-2 in association with key industry players e.g., TCRs Lead generation and optimisation of anti-glycan mAbs 	BIONTECH
GLOBAL EXPANSION	 Extend clinical trial footprint to US in 2019 Explore partnerships in China (financial and commercial) 	ichor medical systems
CLINICAL PARTNERSHIPS	Establish relationships with key opinion leaders and clinical networks to ensure utility in clinical practice e.g., CRUK and patient advocacy groups	CANCER RESEARCH UK
INDUSTRY PARTNERSHIPS	Explore synergies with large Pharma/Biotech companies in identifying combination therapies for optimal outcomes e.g., checkpoint inhibitors	LUNG CANCER FOUNDATION