

Malin Capital Markets Day

8 November 2018

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# Agenda

Торіс	Speaker	Timing
Welcome & Board introduction	Ian Curley, Executive Chairman	2:30pm to 2:40pm
Vision / strategy & refocusing the portfolio	lan Curley Darragh Lyons, Chief Business & Financial Officer	2:40pm to 3:00pm
Industry outlook & Malin's future investment focus	Andrew von Eschenbach, M.D., Chief Medical Advisor Jean-Michel Cosséry, Ph.D, Director	3:00pm to 3:20pm
Simplifying & strengthening the business	Darragh Lyons	3:20pm to 3:25pm
Summary & Q&A	Ian Curley Malin speakers	3:25pm to 3:40pm
Break		20 minutes
Poseida overview	Samuel Cohen, Ph.D, Malin, Director, Investments Team	4:00pm to 4:20pm
Viamet overview	Robert J. Schotzinger, M.D., Ph.D, Viamet President & CEO	4:20pm to 4:35pm
Immunocore overview	Stephen Megit, Ph.D, Immunocore VP, Business Development	4:35pm to 4:55pm
Kymab overview	Anne Hyland, Kymab CFO	4:55pm to 5:15pm
Q&A	All speakers	5:15pm to 5:25pm
Closing remarks	lan Curley	5:25pm to 5:30pm
Drinks & canapés		5:30pm to 6:00pm



# Welcome and Board introduction

lan Curley, Executive Chairman



### **Board of Directors**



lan Curley Executive Chairman



Rudy Mareel Lead Independent Non-Executive



**Jean-Michel Cosséry, Ph.D** Independent Non-Executive



Liam Daniel Independent Non-Executive



### Presenters



**Ian Curley** Malin, Executive Chairman



**Darragh Lyons** Malin, Chief Business and Financial Officer



Andrew von Eschenbach, M.D. Malin, Chief Medical Advisor



**Jean-Michel Cosséry, Ph.D** Malin, Director



**Samuel Cohen, Ph.D** Malin, Director, Investments Team



**Robert J. Schotzinger M.D., Ph.D** Viamet, President and Chief Executive Officer



**Stephen Megit, Ph.D** Immunocore, VP, Business Development



**Anne Hyland** Kymab, Chief Financial Officer



# Vision and strategy



### Vision

To deliver significant returns for our shareholders and transformative outcomes for patients by investing in highly innovative life sciences companies.



Simplify, strengthen and re-focus Malin to optimally position the business to translate progress within our portfolio into shareholder value.



### Our progress

Portfolio and development strategy review completed



Portfolio fair value review completed with expert advice from a leading firm of consultants

New independent board and strengthened governance structures, committed to driving shareholder value

Cash operating expenses runrate reduced by over 50% to less than 2% of portfolio fair value, with the business now run solely from Dublin



Portfolio focus on highest value creation potential assets



€27m of cash with €30m debt facility available



### Future strategy



### **Refined future investment focus:**

- Investing in innovative life science & healthcare technologies with potential to reach near-term significant value inflection or realisation points
- Delivery of transformative outcomes to patients
- Therapeutic areas of focus: oncology, immunology & genetic diseases



### Existing portfolio:

Prioritising:

4 highest value creation potential assets

- 3 revenue generative assets
- 2 early-stage assets



### **Capital allocation:**

Commitment to return capital following significant asset realisation

All working towards a focused ultimate goal of...





# Refocusing the portfolio

Darragh Lyons, Chief Business and Financial Officer



Total International Private Equity Valuation (IPEV) -compliant portfolio fair value at 30 June 2018

# €402 million or€8.81 per Malin share

IPEV guidelines are recognised as best practice in the valuation of private companies

IPEV review completed with expert advice from a leading firm of consultants



### Malin Portfolio

**Priority Assets** are Immunocore, Kymab, Poseida & Viamet

These assets make up approx. 70% (€290 million) of the total portfolio fair value at 30 June 2018

2019 / 2020 focus is to support value creation in the Priority Assets

### **Priority Assets**

**€290 million** IPEV fair value





### **Priority Assets – Progress since investment**



IPEV = International Private Equity Valuation, FIH = First in Human, OM = Onychomycosis, RVVC = Recurrent Vulvovaginal Candidiasis





### Priority Assets – Near-term significant value inflection points

IPEV = International Private Equity Valuation



### The rest of our portfolio



### **Growth Potential Assets**

30% of total portfolio or €112 million IPEV fair value

**3 Revenue Generative** 23% of total IPEV fair value

**2 Public Equities** 3% of total IPEV fair value

2 Early-stage companies 1% of total IPEV fair value

Malin will support these assets, as they target important strategic milestones.

Malin may deploy capital to Revenue Generative companies, to achieve a catalyst to exit

### Legacy assets

All other investments have been written off



### **Growth Potential Assets**

### Revenue generative assets

with potential near-term value inflection events:





Malin equity % = 38% Strong revenue growth





Malin equity % = 11% US FDA 510(k) application





Malin equity % = 65% US paracetamol opportunity



### Early-stage assets with innovative early-stage platform potential





### **Public equities**







# The future of Malin



# Industry outlook

Dr Andrew von Eschenbach, Chief Medical Advisor

19'



# Oncology, immunology & genetic diseases – areas of transformational innovation

Recent period of tremendous innovation across oncology, immunology & genetic diseases is driving **fundamentally new approaches** to disease

### Examples:



Cancer immunology & immunotherapy



Gene therapy & gene editing

Multiple strategies & technology platforms are being advanced to translate fundamental scientific advances into **new treatments** 

Resulted already in **transformational new therapies** for patients – but only a small fraction of the **potential opportunity** has yet to be realised

nentvn (nivolumab) **KEYTRUDA BAVENCIO** (pembrolizumab) for Injection 50 mg avelumab 20 ECENTRIQ atezolizumab niection for Intravenous Use 50 ma/m **CAR-T cell therapies VMRIAH** (tisagenlecleuce) Suspension axicabtagene ciloleucel) 🔤 **Bispecific antibodies BLINCYTO** HEMLIBRA linatumomab)infusio **Gene therapies** 🖉 Strimvelis .UXTURNA voretigene neparvovec-rzyl **Oncolytic virus** siRNA onpattro IMLYGIC (talimogene laheroareovec)

**Checkpoint inhibitors (antibodies)** 

Note: Drugs shown on right hand side are selected products approved for use in one or more markets



# Oncology, immunology & genetic diseases – areas of transformational innovation

Recent period of tremendous innovation across oncology, immunology & genetic diseases is driving **fundamentally new approaches** to disease

### Examples:



Cancer immunology & immunotherapy



Gene therapy & gene editing

Multiple strategies & technology platforms are being advanced to translate fundamental scientific advances into **new treatments** 

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### 2017's novel drug approvals



### Favourable regulatory pathways (%)



Source: Evaluate Pharma, US FDA, HBM Partners. Note: CNS = central nervous system



### Positive news flow in Malin's therapy areas of focus

### Immunology & Oncology

#### Celgene, Jounce announce \$2.6B I/O deal

FDA approves **anti-PD-1 antibody** (Opdivo) for the treatment of advanced HNSCC

Incyte and Merus sign \$2.8B deal to develop multiple **bispecific antibodies** 

Jazz Pharma acquires Celator's experimental **blood cancer** drug (Vyxeos) in a \$1.5B deal

FDA approves a new therapy (Talz) for the treatment of **plaque psoriasis** 

Pfizer to buy Anacor in a **\$5.2B deal** for access to eczema gel

BeiGene signs \$1.4B deal with Celgene for **PD-1** antibody asset

FDA approves first **CAR-T therapy** (Kymriah)

Gilead agrees to buy Kite for \$11.9B

Gilead sets the list price for Yescarta at \$373K

FDA approves the first **disease-modifying** therapy (Ocrevus) for PPMS

Celgene buys Delinia for \$0.8B to acquire **Treg therapy** for autoimmune diseases

FDA approves new **eczema** drug Dupixent priced at \$37K per year

Celgene buys Juno Therapeutics for \$9B

Bristol-Myers to pay \$1.9B in **I/O cancer deal** with Nektar

Lilly boosts **I/O pipeline** with acquisition of ARMO BioSciences for \$1.6B

CAR-T player **Autolus** prices upsized IPO at \$500M pre-money valuation

Takeda acquires Tigenix for \$0.6B gaining access to a novel drug for **Crohn's** disease

FDA approves the first oral medicine (Tofacitinib) to treat **ulcerative colitis** 

# Genetic

diseases

Editas raises \$94M in first gene-editing IPO

Regeneron, Intellia partner to develop CRISPR/Cas therapeutics in a **\$125M deal** 

2016

Pfizer acquires gene therapy firm Bamboo Therapeutics in a **\$645M deal**  Scientists make **first ever attempt** at gene editing inside the body

2017

FDA approves Roche's **bispecific antibody** Hemlibra to prevent bleeding in haemophilia A

FDA approves Spark's Luxturna, the **first** directly administered gene therapy in the US

### 2018

Spark announces that Luxturna would carry a list price of **\$425k per eye** 

Novartis expands gene therapy pipeline with acquisition of Avexis for **\$8.7B** 

FDA approves Alnylam's patisirin, the **first drug to harness RNA interference** 



# Malin's future investment focus

23

Dr Jean-Michel Cosséry, Director



# Malin's refined investment focus & strategy

Malin will target assets focused on **oncology**, **immunology and genetic diseases** where we believe the most innovative life science and healthcare technologies will deliver **transformative treatments** for patients and generate **significant shareholder returns** 



**IMMUNOCORE** 

kymab

Malin's **existing investments** in these investment priority areas



MALIN

### Malin's investment focus

Malin's Priority Assets currently provide high-quality exposure to **multiple innovative technology platforms** across these rapidly developing fields



Malin's **future investment focus** will selectively provide additional **diversified exposure** to **transformational approaches** across oncology, immunology and genetic diseases



### Key attributes of a future Malin investment

### Company characteristics



Private healthcare companies, global focus



Transformative life science & healthcare technologies with potential to address significant unmet patient need in focus areas



Lead asset(s) in preclinical to Phase 2 with validating datasets



Exceptional management & scientific teams

### Investment characteristics



Significant shareholding & influence, with ability to add operational value



Attractive pre-money valuations



Clear pathway to value creation or realisation within 3-5 years



Strong existing / incoming investor base



# Simplifying & strengthening the business

Darragh Lyons, Chief Business & Financial Officer



### Simplified organisation



Cash operating spend reduced to an annual run-rate of less than 2% of IPEV fair value



Organisation and people refocused and business now run solely from Dublin



Building out our expertise in core investment and core therapy areas

Business has been refocused to create the most effective platform for value creation



### **Capital allocation**

### Malin today

€27 million cash

€30 million debt facility currently undrawn

Resources to support priority assets

Consideration of share buyback opportunities

Malin use of capital following a significant asset realisation

EIB debt: 25% cash sweep

Return capital to shareholders

Share buyback
One-off dividend

Invest in new opportunities within core focus area



### Summary



Delivery of value from refocused portfolio strategy



Focus on clearly defined future investment strategy



Delivery of transformative therapies to patients



Maintain efficient business structure with additional expertise within future investment focus areas



Commitment to return capital to shareholders following significant realisation events

### Focus on delivering value for shareholders





# Poseida Therapeutics



# Background: Gene engineering

### What do genes do?



### Genes code for protein molecules

- Protein molecules perform all of the executive functions in cells
- Mutations in genes translate into dysfunctional proteins and disease
- There are 1000s of diseases caused by mutations in single genes

# Why engineer genes?





Immuno-oncology: Add new function

Genetic diseases: Correct for errors



### Add new anti-cancer function to cells

 Add new genes to T-cells to allow them to target cancer antigens (CAR-T)

# 2 Correct for disease-causing errors

 Add a functional copy of a mutated gene (gene therapy); or edit or delete the mutated gene (gene editing)



# Rationale: Malin's entry into gene engineering space in 2015

### Science & medicine



### Therapies with curative potential

 New and fundamental approaches to dramatically alter disease courses

### Address high unmet patient need

 1000s of genetic diseases plus many cancers with poor therapeutic options

### **Commercial & risk**



### Innovative and disruptive products

 Accelerated approval pathways, strong demand, robust pricing

### Recent phase of significant validation

 Scientific, strategic and market de-risking over past 3-5 years validates potential

### Gene engineering at favourable risk/reward inflection point



# History: From scientific foundations to widespread validation




## Recent newsflow: Gene engineering

August 2017	FDA approves first ever CAR-T product – Novartis's Kymriah Gilead acquires Kite for c. \$12bn					
October 2017	FDA approves second CAR-T product – Kite's Axi-cel					
December 2017	J&J agree to pay \$350m upfront to license Legend's anti-BCMA CAR Gilead acquires Cell Design Labs for up to \$567m FDA approves first gene therapy – Spark's Luxturna					
January 2018	Celgene acquires Juno for c. \$9bn					
April 2018	Novartis acquires AveXis for c. \$9bn					
June 2018	Autolus IPO raises c. \$150m @ c. \$510m pre-money valuation					
July 2018	Rubius IPO raises c. \$240m @ c. \$1,540m pre-money valuation					
October 2018	Allogene IPO raises c. \$320m @ c. \$1,750m pre-money valuation					

# Significant further validation and value creation in gene engineering space since Malin's initial investment in Poseida

Source: NASDAQ, company press releases



Poseida: Lifesaving therapies from best-in-class gene engineering technologies

Company	Poseida Therapeutics, Inc. <b>created in 2015</b> , based in <b>San Diego</b> , CA ~40 employees, with <b>proven senior leadership team</b> led by CEO Eric Ostertag, M.D. Ph.D.
Technology	Best-in-class gene engineering, including non-viral piggyBac™ transposon system Specific competitive advantages in efficacy, safety, speed to clinic & cost
Pipeline	Developing cell & gene therapies for <b>multiple cancers &amp; genetic diseases</b> Lead indication is a <b>CAR-T therapy for multiple myeloma</b> , with product in Ph.1 clinical trial
Business	<b>Strong IP profile</b> - more than 50 issued & pending patents Institutional investors include Malin, Longitude Capital, Vivo Capital & Tavistock Group



## Technology: Best-in-class toolkit for cell & gene therapies

## piggyBac<sup>™</sup> gene insertion

Highly efficient technology to add or remove DNA from genome

Non-viral technology

Faster to clinic and low COGS

#### Extremely high cargo capacity

Multiple elements possible per product

#### Preferentially transfects T memory stem cells

CAR-T products with potential durability benefit

#### Core technology

## CAS- & TAL-CLOVER gene editing

- Site-specific nucleases that <u>cut DNA</u> with very low off target activity
- Superior cell therapies using gene knockout

#### **CAR-T elements**

Stable and specific Centyrin <u>binders</u> plus <u>safety switch</u> and <u>selection</u> elements

Potent, safer, near pure CAR-T therapies

#### Complementary technologies

### Potential to address enormous range of cancers & genetic diseases

#### Source: Poseida website, press releases & conference presentations



## piggyBac™: Products comprised of highly favorable stem cell memory T cells



There are a number of different **subsets** of T cells

T<sub>SCM</sub> cells can produce potentially **unlimited** effector cells

T<sub>SCM</sub> cells **persist** and **live longer than** effector cells



piggyBac<sup>TM</sup> preferentially modifies  $T_{SCM}$  cells and Poseida's CAR-T products are comprised of high levels of  $T_{SCM}$  T-cells

By contrast, **lentivirus-produced products** have **not** achieved high  $T_{SCM}$  (*published* percentages ranging from <1% to ~14%)

Source: CAR-TCR Summit (Boston), 5/9/2018 (E. Ostertag)

T<sub>SCM</sub> characteristic should increase duration of response & allow for relapse control without re-administration



Candidate	Indication	Focus Area	Discovery	Preclinical	IND- Enabling	Clinical Phase 1
P-BCMA-101	Multiple Myeloma	Autologous CAR-T Therapy				
P-PSMA-101	Prostate Cancer	Autologous CAR-T Therapy				
P-MUC1C-101	Ovarian, breast, pancreatic, lung & colorectal cancers	Autologous CAR-T Therapy				
P-BCMA-Allo1	Multiple Myeloma	Allogeneic CAR-T Therapy				
P-HBB-101	Beta-thalassemia	<i>Ex vivo</i> Gene Therapy				

Source: Poseida website as at 30 October 2018



## P-BCMA-101: Three-in-one CAR-T Therapy

1	CAR-T MOLECULE	<ul> <li>Superior binding molecule</li> <li>Centyrin molecule with high-specificity binding to BCMA</li> <li>Fully human and not susceptible to tonic signaling</li> </ul>
2	SELECTION	<ul> <li>Drug resistance gene permits positive selection</li> <li>All T-cells in final product express the CAR molecule</li> <li>Predicted to result in better therapeutic index</li> </ul>
3	SAFETY SWITCH	<ul> <li>Incorporates proprietary safety switch</li> <li>Rapid, dose-dependent elimination of engineered T-cells if needed</li> <li>Management of Cytokine Release Syndrome (CRS) or other AEs</li> </ul>
τταρ	Insulator ITR	Selection Gene       Insulator         Promoter       Safety Switch       CAR Molecule       Poly(A)       ITR         TTAA

Source: Presentation by Poseida (E. Ostertag) at CAR-TCR Summit (Boston), September 5th 2018



### Tumor burdens were reduced in P-BCMA-101-treated mice out to >90 days



Source: Data presented at ASGCT 2017 Annual Meeting (Hermanson et al.) Note: Tumor challenge means MM.1S injection; treatment means CAR-T injection



## P-BCMA-101: Phase 1 Relapsed/Refractory Multiple Myeloma Clinical Trial

#### P-BCMA-101-001 Phase 1 Trial Design

- Open Label, 3+3 Design, Single Ascending Dose Study
- Up to 6 dose levels
- 30 mg/m2 flu. + 300 mg/m2 cy. x 3d lymphodepletion regimen
- P-BCMA-101 administered intravenously as a single dose
- Up to 40 subjects

#### **Clinical Sites / Investigators**

- Johns Hopkins Syed Abbas Ali
- MD Anderson Krina Patel & Bob Orlowski
- Sarah Cannon (SCRI) Tara Gregory & Jesus Berdeja
- U. of California at San Diego (UCSD) Caitlin Costello
- University of Pennsylvania Adam Cohen

#### Enrolment: 11 patients treated in 3 dose groups\*

Dose levels assessed	Cells/kg	Patients (#)	Cells (mean)
1	0.75 x 10 <sup>6</sup>	3	51 x 10 <sup>6</sup>
2	2 x 10 <sup>6</sup>	7	152 x 10 <sup>6</sup>
3	6 x 10 <sup>6</sup>	1	430 x 10 <sup>6</sup>

#### Median (min, max) prior regimens

6 (3, 9)

Data cutoff: August 10th, 2018. Evaluable patients: reached first response assessment or PD/death. flu. = fludarabine, cy. = cyclophosphamide. \*Source: Clinical data presented by Poseida (E. Ostertag) at CAR-TCR Summit (Boston), September 5<sup>th</sup> 2018



**Treatment-Emergent Adverse Events (N=11)** 

				400			
TEAE, n (%)	Overall	≥Grade 3		100 - 90 -			
Dose Limiting Toxicity (DLT) <sup>a</sup>	0	0		80 -			
Cytokine Release Syndrome <sup>a</sup>	1 (9)	0		70 -			
Neurotoxicityª	0	0	% "	60 -			
Neutropenia/Neutrophil count decreased <sup>ь</sup>	8 (73)	8 (73)	Patients,	50 -			
Thrombocytopenia/Platelet count decreased <sup>b</sup>	5 (45)	2 (18)	atie	40 -			
Anemia	4 (36)	2 (27)	<u> </u>	30 -			
nfection <sup>c</sup>						4.40/	
Overall	5 (45)	2 (18)		20 -		14%	
First month	4 (36)	2 (18)		10 -	0%		0%
				0	• / 0		• / 0
			Mean		<b>52 x 10</b> <sup>6</sup>	152 x 10 <sup>6</sup>	<sup>6</sup> 430 x 10 <sup>6</sup>
<sup>a</sup> by investigator assessment			Dose		(n = 3)	(n = 7)	(n = 1)

<sup>b</sup>subject counted once for either term

cincludes events in the SOC Infections and Infestations. Subject counted once for any PT within the SOC. Events

reported include upper respiratory tract infection (3 subjects), pneumonia, sinusitis, wound infection, candida infection.

Not including orthostatic dizziness or peripheral neuropathy/tremor

Source: Clinical data presented by Poseida (E. Ostertag) at CAR-TCR Summit (Boston), September 5th 2018



Cytokine Release Syndrome By Dose Level

## P-BCMA-101: Tumor Response - High From The Lowest Dose Level Up

### **Tumor Response in Evaluable Patients by Dose**

Patient 105-002 PET





Oligosecretory disease, M-protein, SPEP, UPEP, FLC not measurable/within normal limits.

Data cutoff: August 10th, 2018. mDOR, median duration of response; ORR, objective response rate, attaining sCR, CR, VGPR, or PR, including confirmed and unconfirmed responses. Evaluable patients: reached first response assessment by IMWG m-protein criteria or PD/death. Source: Clinical data presented by Poseida (E. Ostertag) at CAR-TCR Summit (Boston), September 5<sup>th</sup> 2018



**Best-in-class** gene engineering & CAR-T platforms with >50 issued and pending patents

- Potential to address enormous range of diseases with multiple treatment modalities
- Competitive advantages in efficacy, safety, speed to clinic and cost
- Lead candidate, P-BCMA-101 (CAR-T for multiple myeloma) in Phase I with promising data
- Pipeline includes a **solid tumor** indication, an **allogeneic** CAR-T product, and a **gene therapy**









## **Introduction to Viamet Pharmaceuticals**

- Based in Research Triangle Park, North Carolina, USA
- Founded in 2005 to focus on medically-important metalloenzyme drug targets
  - Co-founders Robert Schotzinger (Viamet CEO), Holden Thorp (UNC Chapel Hill) and Thomas O'Halloran (Northwestern Univ.)
- Established track record in discovering and developing best-inclass metalloenzyme inhibitors across multiple therapeutic areas
- Lead agent, VT-1161, sold to NovaQuest in early 2018
  - Newco, Selenity Therapeutics, being formed to advance
     Viamet's earlier-stage assets



# Validated Platform And Compelling Programs

Innovative Metalloenzyme Platform	<ul> <li>MIDAS technology generates best-in-class agents</li> <li>Optimized efficacy and safety</li> <li>Strong IP and worldwide commercial rights for all programs</li> </ul>
Excellent Phase 2b Results with Lead VT-1161	<ul> <li>Outstanding Phase 2b results in RVVC and onychomycosis with best-in-class efficacy and safety in both indications</li> <li>Sold to NovaQuest in early 2018</li> <li>Phase 3 studies in RVVC now underway</li> </ul>
Diverse Pipeline of Differentiated Agents	<ul> <li>SE-6440 for resistant hypertension</li> <li>HDAC6 inhibitors for chemo-induced neuropathy (CIPN)</li> <li>Other antifungals for life-threatening infections</li> <li>In process of spinning out newco to develop these assets</li> </ul>



# Viamet Led By Experienced Management Team

Viamet Management Team And Past Experience							
Robert Schotzinger, MD, PhD President and CEO	<ul> <li>BioStratum, Abbott</li> <li>23 years of industry expertise</li> </ul>						
Michael Crescenzi, MBA SVP, Strategy and Operations	<ul><li>Grifols, GSK, Roche</li><li>26 years of industry expertise</li></ul>						
Edward Garvey, PhD SVP, Biology	<ul> <li>GSK, Glaxo, Burroughs-Wellcome</li> <li>29 years of industry expertise</li> </ul>						
William Hoekstra, PhD SVP, Chemistry	<ul> <li>GSK, J&amp;J</li> <li>31 years of industry expertise</li> </ul>						
Robert Hughes, MBA, CPA SVP, Finance and Admin.	<ul> <li>KBI Biopharma</li> <li>21 years of industry expertise</li> </ul>						



# MIDAS Technology: Drug Design Expertise

- Viamet's two-step design process generates NCEs that are far more selective than current best-in-class therapies
- Better selectivity translates into better efficacy and safety in the clinic





# Viamet Has Generated A Rich Pipeline

	Research	IND-Enabling	Phase 1	Phase 2	Phase 3			
VT-1161 (Sold to NovaQuest in	Recurrent Vulvovaginal Candidiasis (RVVC)							
2018)	Onychomycosis							
VT-1598	Crypto. Meningitis	s, Valley Fever						
SE-6440	Resistant HTN			Viamet ov worldwid commercial to all earlier	de rights			
HDAC6 Inhibitors	Neuropathy to all earlier-stage programs							

# **RVVC: Very High Disease Burden**

- Recurrent vulvovaginal candidiasis (RVVC) defined as ≥3 episodes of acute VVC/year
  - Affects 6-7% of women
- Significant QOL and economic impact
- No drug approved for RVVC in US
- Fluconazole approved in EU for RVVC, but rarely used due to poor efficacy and safety concerns



# VT-1161: Robust Phase 2b Efficacy And Safety

One or More Acute VVC Episodes Though Week 48							
	150 mg/ 12 Week	150 mg/ 24 Week	300 mg/ 12 Week	300 mg/ 24 Week	Placebo		
Acute VVC Infection	3.3%*	10.7%*	0%*	0%*	65.6%		

Any Reported Adverse Event							
	150 mg/ 12 Week	150 mg/ 24 Week	300 mg/ 12 Week	300 mg/ 24 Week	Placebo		
Any Treatment- Emergent Adverse Event	63.4%	73.8%	71.4%	68.3%	79.5%		

\*p<0.0001 vs. placebo

# **Onychomycosis: Poor Treatment Options**

- Chronic fungal infection of the nail bed and surrounding tissue
- Current therapies suffer from low cure rates and safety concerns
- Oral Lamisil (terbinafine) is most widely used agent
  - ~\$1.2 B peak sales despite only ~30% cure rate and liver toxicity and drug interaction issues
- Strong recent uptake of newer topical agents despite poor efficacy demonstrates demand for new therapies



Confidential Property of Viamet Pharmaceuticals, Inc.

# VT-1161: Best-In-Class Efficacy In Phase 2b



\*Literature results for agents other than VT-1161

# NovaQuest VT-1161 acquisition

- NovaQuest Capital Management acquired VT-1161 from Viamet in January 2018
- Development potential in 2 indications:
  - Recurrent vulvovaginal candidiasis (Phase 3 clinical trials initiated)
  - Onychomycosis (Phase 2b clinical trials completed)
- VT-1161 is fully funded for Phase 3 clinical trials and for commercial launch
- Deal structured so milestone and royalty payments flow back to Viamet shareholders based on clinical and commercial success
- Total deal value potential to Malin estimated at approximately \$330 million



## **Selenity Therapeutics Pipeline**

	20	19	20	20
	1 <sup>st</sup> Half	2 <sup>nd</sup> Half	1 <sup>st</sup> Half	2 <sup>nd</sup> Half
SE-6440 (resistant hypertension)	<ul> <li>Pre-clinical results</li> </ul>	<ul> <li>File IND</li> </ul>	<ul> <li>Phase 1 Start</li> </ul>	
HDAC6 (peripheral neuropathy)		<ul> <li>Pre-clinical results</li> <li>File IND</li> </ul>	<ul> <li>Phase 1 Start</li> </ul>	
CYP24 (new program)	<ul> <li>Pre-clinical start</li> </ul>			<ul> <li>IND-Enabling Studies Start</li> </ul>





# IMMUNOCORE

Malin Capital Markets Day

HLA-peptides represent a large, untapped source of disease specific targets

Approaches to target HLA-peptides to date have largely focused on personalised cell therapies

Immunocore is developing potent HLA-peptide targeting <u>off-the-shelf</u> bi-specific biologics for the treatment of cancer, infectious diseases and inflammatory diseases

## Evolution of Immunocore – Building the leading TCR platform



## Immunocore – Transformational Science that Transforms Lives



#### IMCgp100 in registration studies

Targeting metastatic uveal melanoma – an immunologically 'cold', low tumour mutation burden, checkpoint-refractory tumour type

Monotherapy clinical data supports a near doubling of 1-year survival

Projected peak sales of \$350M-475M

## Maturing pipeline – 4 programs treating multiple cancer indications in clinic by end 2019



CORPORATE

An Oxford University spin-out, headquartered in Oxfordshire (UK) with a US office in Philadelphia

#### Third-party validation through significant partnerships













#### **First-in-class targeted therapies**

Scalable 'T cell receptor' technology producing potent immune-redirecting biologic drugs

Highly specific targeted approach for a broad range of cancer-specific targets

Robust solid tumour T-cell infiltration observed

Soluble drug-in-a-vial with low COGs administered IV



Strong Irish, UK and US investor base

\$320m Series A in 2015

\$40m Bill and Melinda Gates Foundation investment in Infectious Disease in 2017

## Experienced Board, Management and Investors

#### **Key Board members**

#### Prof Sir John Bell Chairman



Regius Professor of Medicine at Oxford University. Regarded as one of the world's most distinguished scientists in immunology. Founding director of 3 biotech companies. Board member of Roche and Genentech.

#### Dr Jonathan Knowles Non-Executive Director



Former President of Group Research and a Member of the Executive Committee at Roche. Research Director at Glaxo Wellcome Europe. Visiting chair at Oxford, and a visiting scholar at Cambridge

Abbas Hussein Non-Executive Director



President of Global Pharmaceuticals at GlaxoSmithKline (GSK), chair GSK's pharmaceutical operations committee. Served as GSK's President of Emerging Markets.

#### **Key Management**

#### Andrew Hotchkiss Chief Executive Officer



Over two decades with Eli Lilly & Co, where he held a number of global leadership positions including VP International Business Unit Leader Oncology

#### Bent Jakobsen

Founder & Chief Scientific Officer



Founder of Immunocore, previously Head of the Immune Receptor Group at Institute of Molecular Medicine (IMM) in Oxford

#### **Mark Moyer**

Head of Medical and Regulatory Affairs



Over 3 decades of oncology drug development and registration experience, with 10 oncology agents approved, including early IO agents Yervoy and Opdivo. Previous organisations include Bristol-Myers Squibb, Sanofi and ICI Pharmaceuticals.

#### **Key Investors**











## Broad pipeline of maturing oncology assets

Programme	Indications	Discovery	IND-enabling	Phase I/2	Pivotal	Owner/ Collaborator
IMCgp100-A2	Uveal melanoma					IMMUNOCORE
IMCgp100 Checkpoint Combination	Cutaneous melanoma					IMMUNOCORE AstraZeneca
GSK1 (NYESO-1)	Synovial sarcoma / bladder / melanoma / NSCLC					gsk
IMC-C103C (MAGE-A4)	NSCLC / oesophageal / gastric / head & neck / bladder					IMMUNOCORE
IMC-F106C (PRAME)	NSCLC / SCLC / breast / endometrial / ovarian					IMMUNOCORE
Imm40	Liver / NSCLC / oesophageal / gastric / head & neck / bladder					IMMUNOCORE
IMCgp100-A3/A11	Uveal melanoma / cutaneous melanoma					IMMUNOCORE
lmm21	Gastric / oesophageal / NSCLC / TNBC / pancreatic					IMMUNOCORE
Proprietary	Multiple					IMMUNOCORE
Partner	Multiple					AstraZeneca Sector

## **IMMUNOCORE**

Partner

## IMMUNOCORE

Platform

 $\nabla$ 

Immunocore's T-cell recruiting ImmTAC platform sits within an important mechanistic niche in the universe of immune-oncology modalities



Chen and Mellman (2013) Immunity. Roche Analyst Event, ASCO, 2015

# ImmTACs target HLA presented peptides, offering distinct advantages over antibody based T cell redirectors



## IMMUNOCORE

## Lead programme – IMCgp100 (tebentafusp)

Metastatic uveal melanoma has a poor prognosis with no standard of care

Patients typically die within one year with very few long-term survivors Uveal melanoma is generally diagnosed in the local setting and treated with either radiation or surgery

In the metastatic setting, the standard of care is a clinical trial; no standard of care has been identified

The aim for therapies in the metastatic setting is to stabilize disease and enhance overall survival, with a ceiling in this disease setting of one year of OS

Consequently, there is a substantial unmet need for novel treatments



UM is characterized as an "immune deserted" tumor with strong metastatic potential for the liver, an immunosuppressed organ
# Immunocore's lead programme, IMCgp100, demonstrated single-agent OS benefit in initial two Phase I clinical studies



anti-CTLA4

Zimmer et

al. 2015\*

anti-PD1,

Algazi et al,

2017

Global Meta

Analysis,

Khoja et al,

2016#

IMCgp100-01,

Carvajal, 2017

[38,91]95% CI

Green signal are CD8<sup>+</sup> T-cells, magenta signal is
 PD-1 expression and red is PD-L1 expression

IMMUNOCORE

IMCgp100-

102, 2018,

[48,88] 95%

CI

\*Multi-centre, Phase 2 clinical study of 53 patients, including 8 treatment-naïve patients (Germany, DCOG); RECIST # Khoja et al, 2016. Largest series reported in metastatic UM; single patient level data meta-analysis

# Study 102: Overall Survival with IMCgp100 overlaid on PUMMA full analysis

Pooled analysis of Phase 1 dose escalation and Phase 2 expansion patients to assess overall survival 100 Median OS has not been reached with a median follow-up of 19.1 months (n=19) 80 IMCgp100 pooled Ph 1/Ph 2 analysis (n=42) Survival (%) 60 40-20 PUMMA full cohort survival analysis (n=876) 0. 3 12 18 24 0 Survival Follow-up (Months)

## IMMUNOCORE

#### IMMUNOCORE

**BD** strategy

## **BD** strategy

- Immunocore well positioned with respect to non-dilutive funding
  - Clinically validated platform
  - Patents protecting 66 oncology targets filed
- Existing collaborations validate the platform and have raised >£75M to date
  - Highest value is the co-development/co-promotion deal with Eli Lilly
- **Future oncology/infectious disease partnering strategy is to add value prior to partnering** 
  - Develop to clinical POC prior to partnering unless a partner can provide resources (non-financial) that will accelerate the programme
- Autoimmune open to earlier partnerships provided they accelerate delivery of POC





## Powered by human immunity

Perfecting a proven approach to drug discovery and development

## Forward-looking statements

- This presentation and the accompanying oral commentary contain "forward-looking" statements that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this presentation and the accompanying oral commentary, including statements regarding our future financial condition, business strategy and clinical plans and objectives of management for future operations, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "believe," "will," "may," "estimate," "continue," "anticipate," "intend," "should," "plan," "might," "approximately," "expect," "predict," "could," "potentially" or the negative of these terms or other similar expressions. Forward-looking statements regarding our intentions, beliefs, projections, outlook, analyses and current expectations concerning, among other things, our ongoing and planned preclinical development and clinical trials, our collaborations and development of our products in combination with other therapies, the timing of and our ability to make regulatory filings and obtain and maintain regulatory approvals for our product candidates our intellectual property position, our collaboration activities, our ability to develop commercial functions, expectations regarding clinical trial data, our results of operations, cash needs, financial condition, liquidity, prospects, future transactions, growth and strategies, the industry in which we operate, the trends that may affect the industry or us and the risks uncertainties and other factors.
- Forward-looking statements involve known and unknown risks, uncertainties, assumptions and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements.
- Forward-looking statements represent our management's beliefs and assumptions only as of the date of this presentation. Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons why actual results could differ materially from those anticipated in the forward-looking statements, even if new information becomes available in the future.

# Kymab: well positioned to be a potential new leader in a growing antibody market

#### A circa \$90bln market in 2017:

- Humira ™ generated over \$18bln sales in 2017
- Annual growth rates of over 6%

# Growth will be driven by 'next generation' antibody platforms:

- More effective, higher specificity, less off-target effects (Kymab)
- Faster delivery (Kymab)
- Combination therapies/bi-specifics (Kymab)
- Therapeutic/non therapeutic vaccine potential (Kymab)
- Immuno-oncology (Kymab)

The indications distribution of approved monoclonal antibody drugs



## Perfecting a proven approach to antibody drug discovery

# The pioneering Kymab platforms produce 'right first time' drug candidates

- Contains the entire diversity of the human antibody gene repertoire\*
- Intelliselect<sup>™</sup> enables analysis of the entire immune response to a target
- Produces highly-evolved picomolar mAbs with no lead optimisation required
- The diversity to deliver mAbs to challenging disease targets with desired properties
- Normal immune response and fertility

\*Lee et al. Nature Biotechnology (2014)







## World-class leadership team with a record of proven success



**David Chiswell, CEO** Co-founder & CEO – CAT; Chairman - Albireo



Arndt Schottelius, EVP R&D Morphosys; Genentech; Schering; Berlex



Allan Bradley, CSO Director - Sanger Institute; Genpharm (Medarex); Lexicon



Sonia Quaratino, CMO Novartis, Merck Serono



**Glenn A Friedrich, COO** Baylor Ventures; Lexicon; Ceros



Anne Hyland, CFO CFO - BBI Diagnostics, Vectura Celltech/Medeva; Non Exec – Clinigen



Nigel Clark, SVP and Head of BD CBO – Syntaxin; VP – Vernalis; VP – RiboTargets



Jasper Clube, SVP Intellectual Property VP - Domantis; GSK; AstraZeneca



**Brandon Lewis, Corporate Strategy** Co-Founder The Trout Group-Trout Capital, Co-Founder, CBO Alsonex Pty

## **Our Therapeutic Area Leaders**



#### Matthew McCourt, Vice-President of Immuno-oncology brings 25 years of experience in biopharmaceutical research and development.

(Previously Director of Oncology Biology at MedImmune, where his team drove the discovery and preclinical development of MedImmune's immuno-oncology portfolio of biologics, and Head of Pharmacology at Cambridge Antibody Technology)

**Igor Theurl, Head of Haematology** is a board-certified practicing physician and experimental scientist whose work includes the area of anaemia of chronic disease and has published more than 70 articles.



(Part-time as Professor of Medicine at the Medical University of Innsbruck, Austria)



kvmab

#### Paul Kellam, Vice-President of Infectious Disease and Vaccines

has a distinguished career in virology and published over 190 articles.

(Previously with the Wellcome Trust Sanger Institute, Paul is an internationally recognised expert in genetics of emerging infectious disease, such as Ebola and the MERS coronavirus. Part-time Professor of Virus Genomics at Imperial College London).

# **Volker Germaschewski, Co-Head of Haematology** brings 18 years of experience in biopharmaceutical discovery and development in biotech and pharma.

(Previously Section Head Domain Antibody Discovery and Team Leader Antibody Engineering at GSK)



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## Immunology and Immuno-Oncology Pipeline 2018



## Haematology and Infectious Diseases Pipeline 2018



## Kymab's Lead Pipeline Today

<b>Auto-immunity</b> KY1005 Anti-OX40L	<ul> <li>"Pipeline in a molecule"</li> <li>Resetting the immune system</li> <li>Phase 1 completed – administered to 64 volunteers</li> <li>Efficacy data in GvHD prophylaxis in primate Hematopoietic stem cell transplant model</li> <li>Atopic Dermatitis lead indication start Phase 2a Q4</li> </ul>
<b>Immuno-oncology</b> KY1044 Anti-ICOS	<ul> <li>ICOS dual action: Teff agonist and Treg depletion</li> <li>Significant synergy with anti-PD(L)1 in many experimental <i>in vivo</i> and human cell models</li> <li>IND filing Q4: Mono therapy and in combinations with Roche Genentech's <i>atezolizumab</i></li> </ul>
<b>Haematology</b> KY1070 Anti-BMP6	<ul> <li>Important control point for Hepcidin and Iron homeostasis</li> <li>Broad Utility in Haematology</li> <li>First indication: CKD</li> </ul>

Pipeline *continues to grow* with 1-2 new possible products *per* year



## KY1005 (anti-OX40L) – pipeline in a molecule

#### Numerous potential indications:

- Immune & inflammatory disorders (autoimmune diseases) affect up to 50 million Americans
- 80 types of immune system diseases including, atopic dermatitis (AD); Graft versus Host Disease (GvHD), Lupus, scleroderma, rheumatoid arthritis, psoriasis, multiple sclerosis (MS) and inflammatory bowel diseases (IBD) such as Crohn's

#### Targets OX 40 ligand:

- Part of TNFR/TNF superfamily; by blocking OX40L from activating OX40 will bring the immune system back into balance
- Current treatments tend to suppress the immune system on a broad basis, causing significant side effects
- Highly potent immune-mediated disease candidate with extremely promising data

#### Sales forecast Dupilumab

\$12,000



Source: Credit Suisse 2016 | (USD Millions) DUPIXENT is the brand name for Dupilumab

## KY1005: Demonstrated Proof-of-Mechanism

kymab

#### Blunts DTH (Delayed Type Hypersensitivity) response to a T-cell dependent neo-antigen



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## The immuno-oncology approach is winning the war on cancer and will generate multiple blockbusters

50000 40000 30000 20000 10000 0 2014 2023 2015 2016 2017 2018 2019 2020 2021 2022 2024 Atezolizumab (PD-L1 - Roche) Nivolumab (PD-1 - BMS) Pembrolizumab (PD-1 - Merck) Avelumab (PD-L1 - Merck KGaA/Pfizer) Durvalumab (PD-L1 - AstraZeneca) Cemiplimab (PD-1 - Regeneron/Sanofi)

#### Forecast PD-1/PD-L1 Inhibitor Sales in USD (millions)

- KY1044 is a potential complementary product to PD-1/PD-L1 inhibitors
- An increase in demand for one or more of these product may result in an increase in demand for KY1044

## Clinical Milestones through 2021



## **Financing on Success**

## **Series A 2010** \$30m

- Build Kymouse
- Kymouse now contains the entire diversity of the human antibody gene repertoire

### **Series B 2014** \$90m

- Develop therapeutic focus
  - Immuno-oncology & Immunology
  - Haematology
  - Infectious diseases
- Develop broad early clinical therapeutic pipeline
  - 10+ projects initiated

## **Series C 2016** \$100m

- Build Clinical Pipeline
  - Broad clinical pipeline
  - Options for Commercialisation
  - Therapeutic partnerships

## Future Financings

- Funding through 2021
- Right Partnership(s)
- Right Investors
- Nasdaq

## Share-holding in Kymab Group Ltd



## Kymab at a glance

Shared, long-term vision to build a major global commercial company.

4 therapeutic foci: Immuno-oncology, Immunology, Haematology & Infectious Diseases	<b>9</b> experienced executives from CAT ( <i>Humira</i> ), Genentech, Novartis, Lexicon, Trout	<b>12+</b> 1 <sup>st</sup> -in-class or best-in-class projects in a diverse pipeline with 1 to 2 clinical candidates selected each year
<b>18+</b>	<b>12+</b>	<b>\$220m</b>
indications for first 3 assets demonstrating the	clinical studies planned by 2021 with several	equity raised: Wellcome Trust, Gates
power of the platform	near-term data milestones	Foundation, WIM, Ori, Hepalink, Malin

**175** employees in Cambridge, UK and Taipei, Taiwan led by pioneers in antibody R&D and genomics

Transforming antibody R&D to generate fully human, *in vivo* matured therapeutic mAbs



### Summary



Delivery of value from refocused portfolio strategy



Focus on clearly defined future investment strategy



Delivery of transformative therapies to patients



Maintain efficient business structure with additional expertise within future investment focus areas



Commitment to return capital to shareholders following significant realisation events

#### Focus on delivering value for shareholders



### How to find out more

#### Malin Contact



Jessica Bergin Director of Investor Relations +353 1 901 5700 investorrelations@malinplc.com



