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Strategy and vision

Building the next generation of healthcare leaders



Founded in 2012 by The Wellcome Trust, our purpose is to invest to extend and enhance human life

Globally significant scientific research base

Leverage the quality of the European life science research base

Focus on products and patients

Select technology that can:

- deliver dramatic efficacy for patients
- credibly be taken to approval by an innovative biotech

Founding companies with strategic ownership

Invest through company life cycle to maintain significant ownership positions, enabling:

- strategic influence; leveraging expertise in Syncona team
- participation in the out return available from taking products to approval

Long-term, ambitious capital

A strong strategic capital base to fund ambitiously over time frames necessary to develop innovative medicines

04

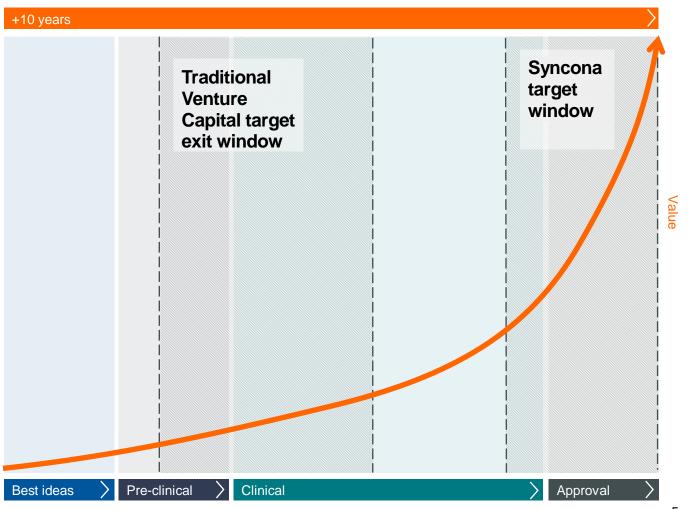
Capturing the out return in life science

Strategy designed to deliver strong risk adjusted returns for shareholders

Out return in life science weighted towards late development and product approval:

- Set companies up with the ambition of taking products to market
- Target the steepest part of the value curve





Delivering value through biotech company creation



Building sustainable companies and delivering transformational outcomes for patients

Strong track record			
38%	Gross IRR since inception (2012)		
1.8x	Gross multiple on invested capital		
£607m	Value of exits from the portfolio ¹ ; £510m realised gain		
6.2x	Gross multiple on realised companies; aggregate IRR 72%		

Building sustainable leaders		
£740m	Capital deployed since 2012	
15	Syncona companies founded and invested in since 2012	
3	Companies progressed products through to pivotal study, including 1 delivered marketed product to patients	
13	Programmes progressed to clinical stage	

Patient impact	
>50k	Patients benefitted by the first Syncona marketed product (Blue Earth's Axumin)
nightstar	Patient testimonial: "For over 30 years I have been living with the awful inevitability that I was going blind but now, thanks to the operation, there is a real prospect that I will continue to be able to see"
84%	Of 19 Adult acute lymphoblastic leukaemia patients in Autolus Phase 1/2 trial achieved complete response; encouraging durability of remissions across all treated patients ²
FREELINE	Patient testimonial: "I have got new hopes for the future. Before the gene therapy treatment, travel wasn't an option but now I can chuck on a backpack and go, as long as the gene therapy continues to work."

¹ Including dividends from Blue Earth

Found and Build

What do we look for in a scientific asset?



Technology

Globally leading academics

Intellectual Property



Transformational efficacy for patients in areas of high unmet need



Defined, commercial lead programme with pipeline potential



Opportunity to develop differentiated platform or no incumbent



Therapeutic areas where Syncona has deep domain expertise



Defined patient segments / targeted markets



Accelerated development and regulatory pathways

Our approach to company creation and development



Translating technology to products to reach full value potential

Our partnership approach provides a strategic premium

Identify area of compelling new science / technology

Approach key opinion leaders in the space

Work with key opinion leaders to leverage their differentiated scientific insight into commercial vision

9-12 months of diligence: define commercial opportunity and write plan

Found company and provide capital over the long term to maintain strategic ownership position

Build out team with globally leading executives

Actively drive business strategy – take operational roles and Board seats across portfolio



Focus on founding companies

Optimises strategy, control, ownership and returns

Strategy: ensure company targets products that can credibly be taken to approval / market

Influence: sole or majority investor position maximises ability to influence company, especially in crucial early years when strategy and management are set

Ownership and returns: aim for best cost basis of any investor, supporting opportunity to deliver best returns for shareholders



Company	Founded by Syncona	Syncona majority ownership position
Autelus		Largest investor (27%)
FREELINE		Largest investor (48%)
GYROSCOPE VISION FOR LIFE		
ACHILLES THERAPEUTICS		Largest investor (34%)
SwanBio THERAPEUTICS		
OMass	OSI (seed)	Largest investor (49%)
∧N ^V EON	UZH Fund (seed)	
Quell _{TX}		
O RTX		
Purespring		

Sourcing technology in growing areas has led to multiple Syncona companies and investments





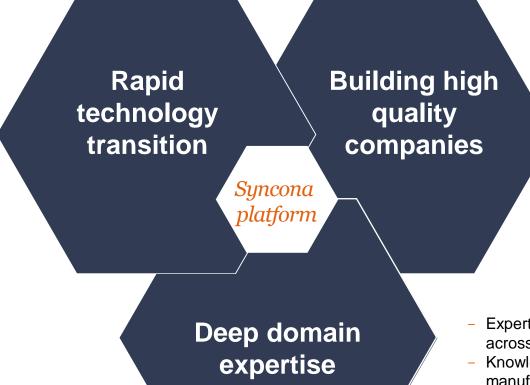
The strength of our platform and the depth of our diligence allows us to identify new areas where there is the potential to found multiple companies

Syncona platform: a growing competitive advantage



Platform enables rapid translation of basic scientific research into companies with the potential to be global leaders

- Ability to identify a compelling new area of science where a differentiated business can be built
- Expertise to define the commercial opportunity for the science/innovation, develop company strategy and write the best business plan



- Increased capability, expertise and network to support company build out
- Growing reputation and track record enables us to attract the best managers at company launch

 Expert team with significant knowledge base to leverage across the portfolio
 Knowledge sharing across commercial, research and

- Knowledge sharing across commercial, research and manufacturing aspects specific to cell and gene therapy
- Facilitate introductions of management teams across the portfolio

Fund

Balance sheet strength is strategic and a key differentiator

Life science companies requires significant capital as they scale

Syncona capital base

£615m

to fund growing life science portfolio and found new companies

£150m-250m

FY 2021 capital deployment

based on further investment in our existing portfolio and the opportunities we see in our investment pipeline



Strong capital base is central to delivery of strategy and provides competitive advantage

- Founding investors have the best ability to set strategy
- Life science companies require significant capital as they scale; ability to maintain influence through financing rounds essential
- Balance sheet strength provides best negotiating position for external financing rounds or M&A
- Capital to execute ambitious vision optimises ability to attract the best academics, founders, managers and partners

Disciplined approach

- Each financing dependent on company specifics (scale of opportunity, risk, capital requirement) and size of Syncona's balance sheet
- Funding commitments tranched and based on milestone delivery

Market Context

The promise of precision medicine

Enables faster development, smaller, more capital efficient clinical trials and targeted commercial roll-out

- Traditional drug development can lead to ineffective drug development; it assumes all patients respond similarly
- Precision medicine can enable more effective therapies; genetics revolution has enabled greater insight into choosing low risk targets and selecting patients that will respond
- Many chronic diseases impacting millions of patients have genetic sub-drivers, permitting targeted drug development



30-60%

A traditional drug may only be 30-60% effective*

3x

Medicines targeted at defined patient groups 3x more likely to succeed than conventional drugs**

46%

Estimated reduction in the cost of the development of a precision medicine versus conventional medicine ***

Third Wave therapies have strong momentum

Syncona has established a leadership position in gene and cell therapy

Syncona

monogenic diseases, less than 50 with treatments

'Third Wave' therapies approved in the US

"First Wave"

1950's

Small Molecule drugs, dominated by large pharmaceutical companies.

"Second Wave"

1990's

Large Molecule (antibody therapies, enzyme replacement therapies).

The "Third Wave"

Today

Advanced Biologics and genetic medicines such as gene therapy and cell therapy and DNA/RNA medicines.

'Third Wave' programmes taken into the clinic by Syncona founded companies

Of Syncona's companies in Third Wave¹

+85% 2014

Of Syncona total capital invested in Third Wave companies

Syncona's first Third Wave company founded

Third Wave commercial context



Platforms attract premiums

	Company description and number of clinical programmes	Market size of lead programme on a global basis	Take-out price \$bn	Premium %
aveğis	CNS gene therapy company 1 clinical programme	Spinal muscular atrophy 23,500	\$8.7bn	88%
Spark.	Liver gene therapy company 3 clinical programmes	Haemophilia A 174,000	\$4.3bn	122%
AUDENTES >	Neuromuscular gene therapy company 1 clinical programme	X-linked Myotubular Myopathy 1 in 40,000	\$3.0bn	110%

Syncona portfolio review

A high conviction differentiated portfolio

Syncona

Enriched in cell and gene therapy offering the potential for cures for a range of intractable diseases

Cell therapy - £253m - 34% of portfolio

- Globally leading cell therapy companies
- Focused on key cell types and T-cell biology backed by leading academics
- In areas of high unmet medical need

CAR-T

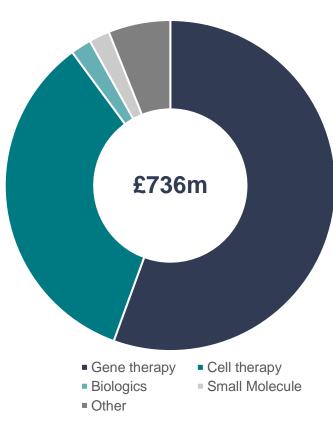
Autėlus

T-Reg



neoggene







Portfolio underpinned by strong capital base of £615m to support companies as they scale

Continued strong performance

NAV of £1,350.5m, 201.1p; capital pool of £614.6m

NAV increase of 8.3% in the nine months to 31 December 2020

- Life science portfolio valued at £735.9m, a return of 22.4% in nine months:
- Capital base of £614.6m; £149.9m of capital deployed in the nine months
 - Continue to expect to deploy between £150m-£250m in this financial year
- Post period end:
 - Autolus raised \$100m via a secondary offering;
 Syncona invested \$25m (£18.1m)

• Clini	cal stage	Pre-clinical	stage • Dr	ug discovery			- ~	
Portfolio company	Ownership* %	31 March 2020 value £m (Fair value)	Net invested/ returned the period £m	Valuation change in period £m	FX move ment £m	31 Dec 2020 value £m (Fair value)	Valuation basis (Fair value)**	NCONA % of NAV
Autelus	27	77.0	-	37.9	-10.6	104.3	Quoted	7.7
FREELINE	48	150.7	18.6	103.1	-21.0	251.3	Quoted	18.6
GYR Ò SCOPE	80	73.0	26.3	0.1	-0.4	99.0	Cost	7.3
ACHILLES THERAPEUTICS	34	72.4	11.7	10.7	-	94.8	PRI	7.0
SwanBio THERAPPEUTICS	75	18.5	39.7	-	-4.1	54.1	Cost	4.0
VN_{Λ} EON	51	12.3	-	-	-0.1	12.2	Cost	0.9
Quell _{TX}	79	8.3	26.8	-	-	35.1	Cost	2.6
(RTx	79	1.4	6.0	-	-	7.4	Cost	0.5
AZERIA THERAPEUTICS	60	6.5	-	-4.5	-	2.0	Cost	0.1
Mass	49	14.6	1.8	-	-	16.4	Cost	1.2
Purespring	84	-	3.9	-	-	3.9	Cost	0.3
Syncona Investments								
neoggene	11	-	11.4	-	-0.3	11.1	Cost	0.8
Other investments		44.8	2.9	-2.9	-0.5	44.3		3.3
Total		479.5	149.1	144.3	-37.0	735.9		54.5

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Outlook and summary

Portfolio company outlook Strong momentum in the portfolio with near term catalysts



Company	Status of pipelines	Next steps
Autėlus	Four programmes in clinical trials	 Progress on AUTO1 pivotal trial with data update in CY2022 Initial data in Phase I/II AUTO4 and AUTO1/22 programmes CY2021
FREELINE	Two lead programmes in Phase I/II clinical trials, pipeline of preclinical programmes	 Initiate Phase I/II dose confirmation study in CY2021 Dose its next patient in its second programme in Fabry's when its safe to do so
GYROSCOPE VISION FOR LIFE	Initiated two Phase II trials. which comprises one trial where patients have a mutation in Complement Factor I and a second trial focused on a broader patient population	- Progress two Phase II trials
ACHILLES THERAPEUTICS	Two lead programmes in Phase I/II trials	 Expects to begin enrolling patients for its higher dose therapy in its Phase I/II NSCLC and melanoma programmes in the second half of CY2021
SwanBio THERAPEUTICS	Lead programme in pre clinical development	 Complete first clinical manufacturing batch in this financial year. Expand leadership team
OMass Ana ^v eon	Seeking to build pipeline of therapeutics	 Initiation of pre-clinical development of lead programme
Quell	Nominated clinical candidate in lead programme	 Initiation of phase I/II clinical trial FY2022
	Nominated clinical candidate in lead programme	- Initiation of phase I/II clinical trial FY2022
O RTX	Pre-clinical development of lead programme	- Company and leadership team build out
Purespring	Pre-clinical development of lead programme	- Company and leadership team build out

Building a sustainable, scalable model

Syncona

Delivering strong risk-adjusted returns for shareholders

Rolling 10 year targets **Current portfolio: 2012-21** 10 15-20 Autėlus **Q**Quell_{TX} High quality portfolio of High quality portfolio of leading life science leading life science ACHILLES NN_{N} companies companies SwanBio GYR**Ò**SCOPE OMass THERAPEUTICS (I) RTx 15 2-3 FREELINE Purespring Portfolio companies to date New companies p.a. **Previous portfolio companies** £592.6m proceeds 3-5 **BLUE EARTH** from exits nightstar Product delivered to Companies to approval, Aggregate 6.2x patients accessing the steepest multiple¹ part of the life science value curve

¹14MG, Nightstar, Blue Earth

Appendix

Executing a differentiated strategy



An expert team with the skill set, track record and strategic capital base to build a sustainable, diverse high quality portfolio

Found

Proactively source globally competitive science, leveraging UK opportunity

Focus on products that move the needle for patients; dramatic efficacy in areas of high unmet need

Select products an SME can credibly take to market

Build

Leverage expertise and track record using Syncona resource to drive success

Take long term decisions consistent with a company taking product to market independently

Attract the best global talent

Fund

Scale ambitiously, maintain significant ownership positions to product approval; option to fund to market

Ownership position provides strategic influence; flexibility and control

Balance sheet protects against risk of being a forced seller

10 year targets



2-3 new portfolio companies p.a.



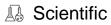
Build a sustainable portfolio of 15-20 companies



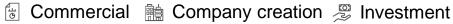
3-5 companies to approval

An expert multidisciplinary team

Our unique skill set











Investment committee

FIET, FCA

Nigel Keen Co-founder and Chairmar



Martin Murphy ^{1,2} Co-founder and CEO

Quell ANA PEON Autolus



Chris Hollowood 1

SwanBio GYROSCOPE Purespring



Commercial and company creation

- Chairman of Oxford University Innovation, Oxford Academic Health Network, MedAccess
- Scientific, commercial, company creation and investment
- PhD in Biochemistry
- 20 years in venture capital and management consultancy

- Scientific, commercial, company creation and investment
- PhD in Organic Chemistry
- 19 years in venture capital



25 years experience

Gould Quell

13 years experience

∛OMass

ORTX Autĕlus

30 years experience



GYR**Ò**SCOPE Purespring VN^{N} EON

9 years experience



₹OMass

10 years experience



Autèlus SwanBio

7 years experience

Michael Kyriakides PhD

GYROSCOPE FREELINE 5 years experience



QQuell_T

4 years experience



lice Renard ² VNV_{AEON}

5 years experience



onzalo Garcia ²

2 years experience



Hitesh Thakrar 3Chem



27 years experience

¹ Portfolio company chairman

² Portfolio company board member/observer

Autolus Therapeutics

Applying a broad range of technologies to build a pipeline of precisely targeted T cell therapies designed to better recognise and attack cancer

Board Seat	1
Date of Founding	2014
Date of Syncona investment	2014
Valuation basis	NASDAQ
Stage	Clinical
Syncona capital invested	£106.0m
No. of employees	300+
Competitor Landscape	
GILEAD 1	

Key risks

- Highly competitive environment
- Differentiated product requirement
- Complex manufacturing

Clinical pipeline** Research | Target ID | Pre- Clinical | Clinical Auto 1 - aALL Auto 1/22 - pALL Auto 4 TCL

-ucr



Key management team

Christian Itin, Chief Executive (formerly CEO of Micromet)
 Martin Pule, Founder and Chief Scientific Officer
 David Brochu, Chief Technical Officer (formerly VP of Technical Operations at Kedrion SpA)

Founders

Martin Pule, Clinical Senior Lecturer in the Dept. of Haematology at UCL Cancer Institute and Honorary Consultant in Haematology at University College London Hospital

Investment thesis

- No CAR-T therapy approved for adult ALL for patients
- AUTO1 targets a differentiated safety profile (reduce high grade CRS⁵) and improved persistence to address limitations of current T cell therapies

Unmet medical need

 In lead programme of AUTO1, only 30-40% of patients with Adult ALL achieve long term remission with combination chemotherapy, the current standard of care*

Market opportunity

 3,000 patients p.a. in lead programme of Adult Acute Lymphoblastic Leukaemia* (estimated new patients diagnosed per annum)

For more information see https://www.autolus.com/about-us/executive-team

Unless stated all data at 31 December 2020

- * Source; Autolus Corporate Presentation January 2019
- ** Clinical pipeline updated to reflect the announcement by Autolus on 6 Jan 2021 that it intends to partner its AUTO 3 programme in DLBCL. Autolus is also running two extension clinical trials in AUTO1, one in Non-Hodgkin Lymphoma and one in Primary CNS Lymphoma

Freeline Therapeutics

Clinical-stage, fully integrated, next generation, systemic AAV gene therapy company



uniQure



Key risks_A

Highly innovative concept in emerging space

Clinical pipeline Research | Target ID | Pre- Clinical | Clinical Haem. B Fabry Gaucher Haem. A Undisclosed disorders







Key management team

Theresa Heggie, Chief Executive (formerly Head of CEMEA at Alnylam Pharmaceuticals)

Julie Krop, Chief Medical Officer (formerly CMO at AMAG Pharmaceuticals)

Jan Thirkettle, Chief Development Officer (formerly led the establishment of GSK's cell and gene therapy platform)

Professor Amit Nathwani, Founder and Clinical and Scientific Adviser. Prof. Nathwani is renowned for his pioneering work on gene therapy for hemophilia B, and was first to show successful correction of bleeding diathesis in patients with severe hemophilia B

Markus Hörer, Founder and Chief Technology Officer (over 30 years' experience working in AAV biology, as well as over 23 years' experience in industrial vaccine and biologics development)

Romuald Corbau, Chief Scientific Officer (formerly Translational Lead at Spark Therapeutics)

Founders

Professor Amit Nathwani, as above **Markus Horer**, as above, brought the Rentschler manufacturing platform to Freeline

For more information see: https://www.freeline.life/about-us/our-team/

Unless stated all data at 31 December 2020 *Source: Freeline Corporate Presentation January 2021

Investment thesis

- To deliver curative gene therapies that will transform patients' lives.
- Deliver therapies for a broad pipeline of systemic diseases which require the delivery of high protein expression levels

Unmet medical need

- Significant number of systemic diseases with genetic drivers which have poor or no treatment options
- Current standard of care in lead programme of Haemophilia B is Enzyme Replacement Therapy (ERT) (infusions of Factor IX (FIX) into the blood); requires regular administration, FIX activity does not remain stable

Market opportunity*

- 9,000 patient opportunity in lead programme in Haemophilia B
- 9,000 patient opportunity in Fabry's disease
- 6,000 patient opportunity in Gaucher's
- 38,000 patient opportunity in Haemophilia A

Gyroscope Therapeutics

Developing gene therapy beyond rare disease by understanding the immune system and the role genetics play in a patient's risk of developing late stage AMD

Board Seat	2 (inc. Chair)
Date of Founding	2016
Date of Syncona investment	2016
Valuation basis	Series B
Stage	Clinical
Syncona capital invested	£99.3m
No. of employees	100+
Competitor Landscape	
gemini Apellis	HEMERA ⁶ Biosciences

Key risks_A

Highly innovative concept in emerging space

Clinical pipeline Research | Target ID | Pre- Clinical | Clinical Dry AMD –G.A (sub-set) Dry AMD –G.A (broad) Other inflammatory











Key management team

Khurem Farooq, Chief Executive (formerly SVP of Immunology and Ophthalmology at Genentech)

Nadia Waheed, Chief Medical Officer (formerly Director of the Boston Image Reading Center and Consultant at the New England Eye Center, Tufts University School of Medicine)

Jane Hughes, Chief Scientific Officer (formerly Senior Director of Integrated Drug Discovery at Charles River)

Ian Pitfield, SVP, Technical Operations (formerly project leadership in GSK's cell and gene therapy CMC platform)

Founders

Peter Lachmann, Emeritus Sheila Joan Smith Professor of Immunology, University of Cambridge

David Kavanagh, Professor Of Complement Therapeutics at National Renal Complement Therapeutics Centre

Andrew Lotery, Professor of Ophthalmology within Medicine at the University of Southampton

Scientific Advisory Board

Keith Peters, Peter Lachmann, David Kavanagh, Alberto Auricchio, Pete Coffey, Clare Harris, Robert Maclaren, Matthew Pickering, David Steel and Timothy Stout

For more information see: https://www.gyroscopetx.com/scientific-advisory-board/

Investment thesis

 Seeking to take application of gene therapy beyond rare diseases

Unmet medical need

 AMD is one of the leading causes of permanent vision impairment for people aged 65 and older with no approved treatments

Market opportunity*

 Initial population of an estimated 3.5 million people in the US & EU5 with geographic atrophy, late stage dry AMD

Achilles Therapeutics

Differentiated cell therapy approach targeting solid tumours utilising Tumour Infiltrating Lymphocytes and clonal neoantigens to develop personalised treatments

Board Seat	1
Date of Founding	2016
Date of Syncona investment	2016
Valuation basis	Series B*
Stage	Clinical
Syncona capital invested	£60.7m
No. of employees	100+
Competitor Landscape gritstone * INTERAPEUTICS BIOTHERAPEUTICS	

Key risks_A

- Highly innovative concept in emerging space
- Complex manufacturing
- Increasing competition

Clinical pipeline Research | Target ID | Pre- Clinical | Clinical Melanoma Non-cell lung cancer Other indications







Key management team

Iraj Ali, Chief Executive (former Syncona Partner)
Karl Peggs, Founder and Chief Medical Officer
Sergio Quezada, Founder and Chief Scientific Officer
Edwin Moses, Chair (formerly CEO at Ablynx)

Founders

Karl Peggs, Professor of Transplant Science and Cancer Immunotherapy at UCL Cancer Institute, Scientific Director of the NIHR Blood and Transplant Research Unit for Stem Cells and Immunotherapies, and Clinical and Scientific Director of the Sir Naim Dangoor Centre for Cellular Immunotherapy at UCLH Mark Lowdell, Director of the Centre for Cell, Gene & Tissue Therapeutics at the Royal Free and Professor of Cell & Tissue Therapy at UCL

Charles Swanton, Royal Society Napier Professor of Cancer and consultant thoracic oncologist at UCL Hospitals, Chief Clinician at Cancer Research UK (CRUK) and group Leader of the Cancer Evolution and Genome Instability laboratory at CRUK and the Francis Crick Institute

Sergio Quezada, Professor of Cancer Immunology and Immunotherapy at University College London Cancer Institute and CRUK senior research fellow

Scientific Advisory Board

Dr Elizabeth M. Jaffee, Dr Scott Antonia and Dr Christopher A. Klebanoff

For more information, please see https://achillestx.com/about-us

Investment thesis

- TIL's have shown convincing efficacy in solid tumours⁹
- Leveraging clonal neoantigens to develop patient specific immunotherapies and reduce risk of relapse

Unmet medical need

 Lung cancer has limited treatment options and is the leading cause of cancer deaths¹⁰

Market opportunity**

- 234,000 patient opportunity in nonsmall cell lung cancer
- In 2020, over 196,000 patients expected to be diagnosed with melanoma in the US

Unless stated all data at 31 December 2020

^{*}In November 2020 Achilles completed a £52,7m Series C financing

^{**} Achilles analysis

SwanBio Therapeutics

Developing leading-edge gene therapies to deliver dramatic clinical efficacy for the treatment of neurological diseases

Board Seat	2 (inc. Chair)
Date of Founding	2018
Date of Syncona investment	2018
Valuation basis	Series A
Stage	Pre-Clinical
Syncona capital invested	£57.1m
No. of employees	25+
Competitor Landscape 10 11 TAYSHA TAYSHA	Passage Bio Prevail

Key risks_A

- Challenging clinical endpoint
- Complex manufacturing



Key management team

Tom Anderson, Chief Executive (formerly Chief Commercial Strategy Officer at Sage Therapeutics)

Karen Kozarsky – Chief Scientific Officer (former President of Vector BioPartners)

Steven Zelenkofske – Chief Medical Officer (former Chief Medical Officer of Achillion Pharmaceuticals)

Scott McMillan, Chief Technical Officer, (formerly Chief Executive Officer of Saliogen Inc.)

Founders

Florian Eichler, Director of the Leukodystrophy Service and of the Center for Rare Neurological Diseases at Massachusetts General Hospital and Associate Professor of Neurology, Harvard Medical School

Rachel Salzman, Former Chief Science Officer of The Stop ALD Foundation

Karen Kozarsky, (as above)

Investment thesis

- Gene therapy has the potential be transformational in neurology¹⁴
- Lead programme targeting, AMN*, an inherited neurodegenerative disease in which the causative gene is definitively known and well characterised
- One-off delivery mechanism and multiple tractable pipeline programmes

Unmet medical need

- Hundreds of single gene disorders with poor or not treatment options
- Lead programme targeting one of the most common monogenic neurological disorders for a severely debilitating progressive movement disorder, with no available therapies

Market opportunity**

- AMN impacts 10,000-20,000 patients in the US and EU5

For more information see: https://www.swanbiotx.com/

Unless stated all data at 31 December 2020

^{*} Adrenomyeloneuropathy

^{**} SwanBio analysis

Quell Therapeutics

Engineered cell therapy company addressing immune dysregulation

Board Seat	2 (inc. Chair)
Date of Founding	2018
Date of Syncona investment	2018
Valuation basis	Series A
Stage	Pre-Clinical
Syncona capital invested	£35.1m
No. of employees	25+
Competitor Landscape	
Sangame Sonoma 16	

Key risks_A

Highly innovative concept in emerging space







Key management team

lain McGill, CEO (formerly on the Executive Committee and as Head of Europe and Rest of World for Jazz Pharmaceuticals) Nathalie Belmonte, SVP Research & Translation (formerly Chief Operating Officer at Promethera Biosciences

Luke Henry, VP Operations & Corporate Development (formerly Senior Director of Business Development & Strategy at Neon Therapeutics)

Bernd Schmidt, VP Product Delivery (formerly MPD Leader at GSK Stevenage with overall accountability for the CMC development, governance and end to end supply chain)

Founders

Giovanna Lombardi, Professor of Human Transplant Immunology at King's College London

Marc Martinez-Llodella, Senior Lecturer at King's College London Alberto Sanchez-Fueyo, Head of the Liver Sciences Department at King's College London

Hans Stauss, Director of the Institute of Immunity & Transplantation at UCL

Emma Morris, Professor of Clinical Cell and Gene Therapy at UCL Elmar Jaeckel, Co-Leader Liver Transplant program MHH and Group Leader Immune tolerance" in the Department of Gastroenterology, Hepatology and Endocrinology at Hannover Medical School.

For more information see: https://quell-tx.com/about/

Investment thesis

- Current standard of care for prevention of solid organ transplant rejection is life-long immunosuppression which results in an array of serious long-term side effects significantly impacting patient quality of life¹⁷
- Potential pipeline to treat serious, chronic conditions mediated by the immune system
- Potential to be first-in-class in CAR-Tegs; an early mover in the space

Unmet medical need

First programme addressing solid organ transplant; current standard of care to prevent transplant rejection is life-long immunosuppression, resulting in long-term side effects which materially impact quality of life and long-term survival

Anaveon Therapeutics

Immuno-oncology company developing a selective IL-2 Receptor Agonist

Board Seat	2 (inc. Chair)
Date of Founding	2017
Date of Syncona investment	2018
Valuation basis	Series A
Stage	Pre-clinical
Syncona capital invested	£11.7m
No. of employees	5+
Competitor Landscape	
Roche syntherx Alkermes	NEKTAR

Key risks

Highly competitive environment





Key management team

Andreas Katapodis, Chief Executive and Founder (former Director in the Autoimmunity, Transplantation & Inflammation group at the Novartis Institutes for BioMedical Research)

Christoph Bucher, Chief Medical Officers (Previously at Roche pRED Immunology, where he led the transition to the late-stage development of Crovalimab)

Christoph Huber, Chief Scientific Officer (previously held leadership positions at Roche, Pfizer and COI Pharmaceuticals)

Founder

Andreas Katapodis (as above)

Scientific Advisory Board

Jane K. Osbourn, Wolf H. Fridman and Robert Hawkins

For more information see: https://anaveon.com/board/

Investment thesis

- Developing a selective IL-2 agonist with improved administration and tox burden
- Wide potential utility across multiple oncology indications in wider Markets²³

Unmet medical need

 Human Interleukin 2 "IL-2" approved as a medicine for the treatment of metastatic melanoma and renal cancer, but with a frequent administration schedule and significant toxicity²²

OMass Therapeutics

Focused on structural mass spectrometry to discover novel medicines for immunological and genetic disorders

Board Seat	2 (inc. Chair)
Date of Founding	2017
Date of Syncona investment	2018
Valuation basis	Series A
Stage	Drug discovery
Syncona capital invested	£16.4m
No. of employees	25+

Key risks

Pre-clinical and clinical attrition of potential drugs



Key management team

Rosamund Deegan, Chief Executive (former Chief Business Officer at Bicycle Therapeutics, where she established the company's Boston-based subsidiary)

Ali Jazayeri, Chief Scientific Officer (Previously Chief Technology Officer at Heptares)

Jonathan Hopper, VP of Platforms and Founder; worked with Carol Robinson on developing mass spectrometry

Founder

Professor Dame Carol Robinson, Founder and Scientific Adviser; recognised for using mass spectrometry to further research into the 3D structure of proteins and their complexes and is the first female Professor in Chemistry at the University of Cambridge

For more information see: https://omass.com/our-team/

Investment thesis

 Opportunity to build a drug discovery platform employing a differentiated Modified Mass Spectrometry technology with the potential to yield high quality chemical hits to discover novel small molecule drug therapeutics for a variety of complex targets, including membrane receptors

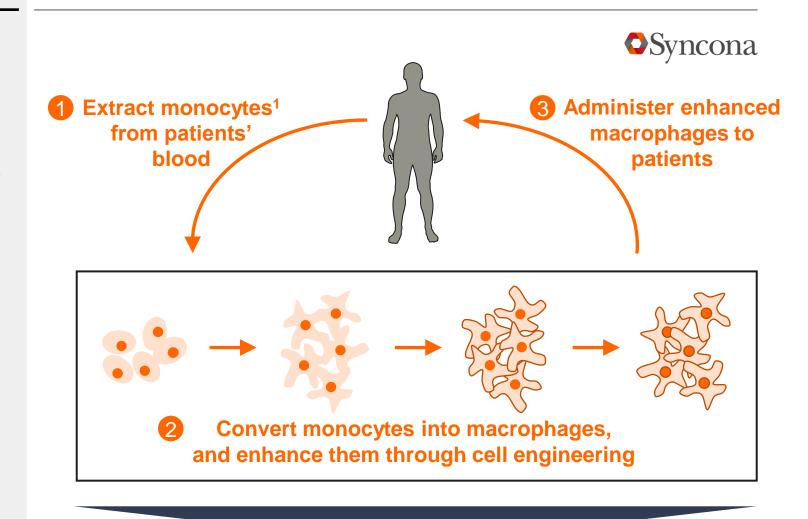
Resolution: harnessing the healing properties of macrophages

Macrophage cells are a key immune cell type

Based on the research of Prof. Stuart Forbes and Prof. John Campbell from the University of Edinburgh

Built over a 3-year partnership between Syncona and the University:

- Research Collaboration launched in Jan 2018 to develop the technology further
- Series A commitment of £26.8m from Syncona
- Vision to develop an autologous macrophage cell therapy for treatment of liver cirrhosis
- Syncona partners Ed Hodgkin and Gonzalo Garcia to become CEO and Chief of Staff respectively



Resolution of inflammatory organ damage e.g., in a cirrhotic liver

Purespring: one of the first kidney AAV gene therapy companies



New Syncona company in area of deep domain expertise

Source

2019

Syncona identified opportunity to apply gene therapy to kidney diseases



Engaged with world leading KOL, Prof. Moin Saleem, University of Bristol



Worked with Prof Saleem to identify potential programmes where gene therapyy could be applied

Investment and strategic fit

£45m

Series A financing; carefully tranched with initial investment of £3.9m¹



Key components of a 'Syncona company': world-class founder, differentiated technology and attractive clinical setting



Deep domain expertise in gene therapy and successful approach to building platform companies in the space

Foundation of one of the first AAV gene therapy company's globally to target the kidney

The Syncona Foundation

Supporting excellent charities that are meeting pressing needs within society, particularly those that are related to healthcare systems

Focused on cancer, neuro-degenerative diseases, gene therapy. Alongside other health and society related areas including mental health, bereavement and diversity

"The Syncona Foundation has been critical in equipping us with the ability to respond to emergencies. By allowing us to use donations flexibly, our frontline services have been able to respond quickly and effectively to the pandemic."

Marie Curie

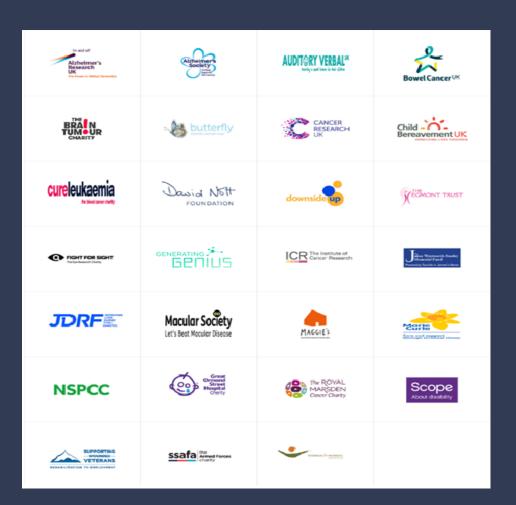
£31m

Donations since 2012

27
Charities
donated to in 2020

0.35%

of Syncona's NAV donated on an annual basis



- 1. Syncona investment team analysis of key risks facing the companies; the companies are subject to other known and unknown risks, uncertainties and other factors
- 2. Syncona investment team analysis of lead programmes in this area, indicative only
- 3. Source: Autolus _ see Autolus corporate presentation November 2019 https://autolus.qcs-web.com/static-files/cd8dc1d9-6a7b-496d-933f-1a3b0bfbd56a. Autolus project the addressable population at 3,000 patients US & EU5
- 4. Source: Autolus see Autolus corporate presentation November 2019 https://autolus.gcs-web.com/static-files/cd8dc1d9-6a7b-496d-933f-1a3b0bfbd56a
- Cytokine Release Syndrome
- 6. Source: Autolus see Autolus corporate presentation November 2019 https://autolus.gcs-web.com/static-files/cd8dc1d9-6a7b-496d-933f-1a3b0bfbd56a
- 7. https://www.gilead.com/science-and-medicine/pipeline
- 8. Source: Freeline analysis of prevalence in US and EU5. Analysis is based on World Federation of Haemophilia Global Annual Survey 2017 http://www1.wfh.org/publications/files/pdf-1714.pdf and National Haemophilia Foundation; CDC.
- https://sparktx.com/scientific-platform-programs/
- 10. http://www.uniqure.com/gene-therapy/hemophilia.php
- 11. Source: Gyroscope estimate. Age related macular degeneration, of which one type is dry AMD, is estimated to affect 195.6 million people globally (https://www.who.int/publications-detail/world-report-on-vision). Gyroscope's estimate is that there is a population of 2 million people in the US & EU5 with geographic atrophy, which is late stage dry AMD.
- 12. Source: WHO https://www.who.int/blindness/causes/priority/en/index7.html
- 13. https://www.apellis.com/focus-pipeline.html
- 14. https://www.geminitherapeutics.com/approach-progress/
- https://www.hemerabiosciences.com/clinical-trials/
- 16. Source: Achilles calculation of US and UK prevalence. There are 275,000 new cases of lung cancer in US and UK each year, of which 85% are estimated to be NSCLC. US: 228,150 https://seer.cancer.gov/statfacts/html/lungb.html; UK: 47,235 https://seer.cancer.gov/statfacts/html/lungb.
- 17. Source: American Cancer Society https://www.cancer.org/cancer/small-cell-lung-cancer/about/key-statistics.html
- 18. Source: American Cancer Society https://www.cancer.org/cancer/lung-cancer/about/key-statistics.html
- 19. Source: Rosenberg et al 2011 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3131487/pdf/nihms286994.pdf
- 20. https://www.iovance.com/clinical/pipeline/
- 21. https://neontherapeutics.com/product-pipeline/
- 22. https://gritstoneoncology.com/our-pipeline/
- 23. See for example existing approved product Zolgensma for spinal muscular atrophy https://www.zolgensma.com/
- 24. https://www.voyagertherapeutics.com/our-approach-programs/gene-therapy/
- 25. http://uniqure.com/gene-therapy/huntingtons-disease.php
- 26. http://ir.amicusrx.com/news-releases/news-release-details/amicus-therapeutics-acquires-gene-therapy-portfolio-ten-clinical
- 27. https://www.prevailtherapeutics.com/
- 28. http://ir.ptcbio.com/news-releases/news-release-details/ptc-therapeutics-announces-strategic-gene-therapy-licensing
- 29. Source: https://www.ema.europa.eu/en/documents/scientific-guideline-clinical-investigation-immunosuppressants-solid-organ-transplantation_en.pdf
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- 31. https://investor.sangamo.com/news-releases/news-release-details/sangamo-and-txcell-announce-completion-acquisition-sangamo
- 32. Source: https://www.cancernetwork.com/renal-cell-carcinoma/managing-toxicities-high-dose-interleukin-2
- 33. Source: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4938354/
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- 35. https://www.roche.com/research_and_development/who_we_are_how_we_work/pipeline.htm: RG7835
- 36. https://investor.alkermes.com/news-releases/news-release-details/alkermes-announces-clinical-collaboration-fred-hutchinson-cancer
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