

A Cancer immunotherapy company with proprietary delivery systems for inbody activation of the immune system to fight cancer.

> Dr. Rodney Cusack CEO

Investor Presentation

SUMMARY



- Cytomatrix Technology = Short Polymer Fibres (SPFs)
- > = Gentle process that preserves function of (bio)actives with controlled release
- > Developed at **Deakin University** and **Cytomatrix** over 15 years
- > Cytomatrix's lead product = sustained delivery anti-cancer vaccine:
 - Is personalised to work **WITH** a person's immune system
 - Works <u>WITH</u> complementary current therapies
 - Drives an **OVERPOWERING** immune attack when timed correctly
- Company goal = out-license to pharma company at Phase II



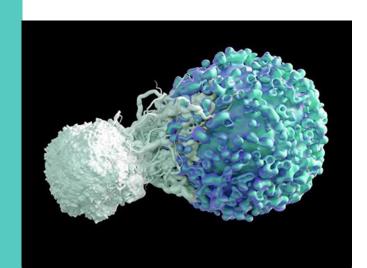


Aim:

Overcome cancer's tricks by dramatically increasing the number of killer T-cells

Means:

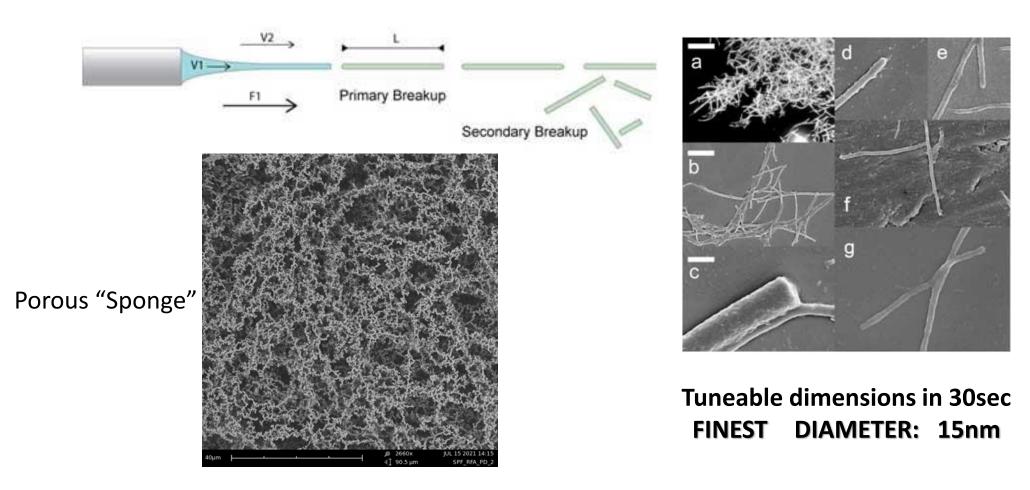
Using Short Polymer Fibres (SPFs) to continuously release immune stimulating factors + Use in combination with immune checkpoint inhibitors and radiation at the right time!



WHAT ARE SHORT POLYMER FIBRES (SPF)?



Injection of polymer solution into a coagulant bath under shear

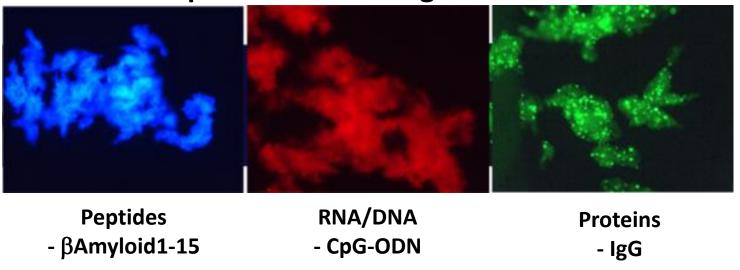


International Patent in place

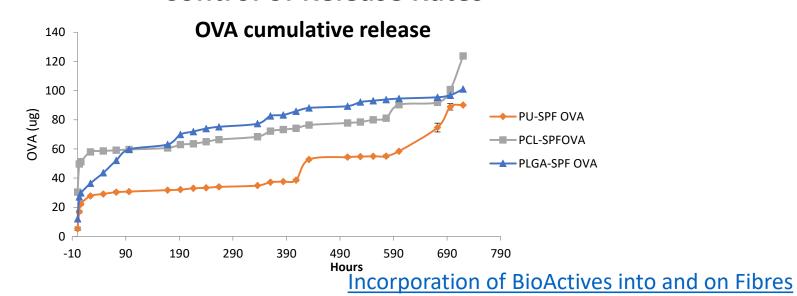
SPF APPLICATIONS



Encapsulation of biological material

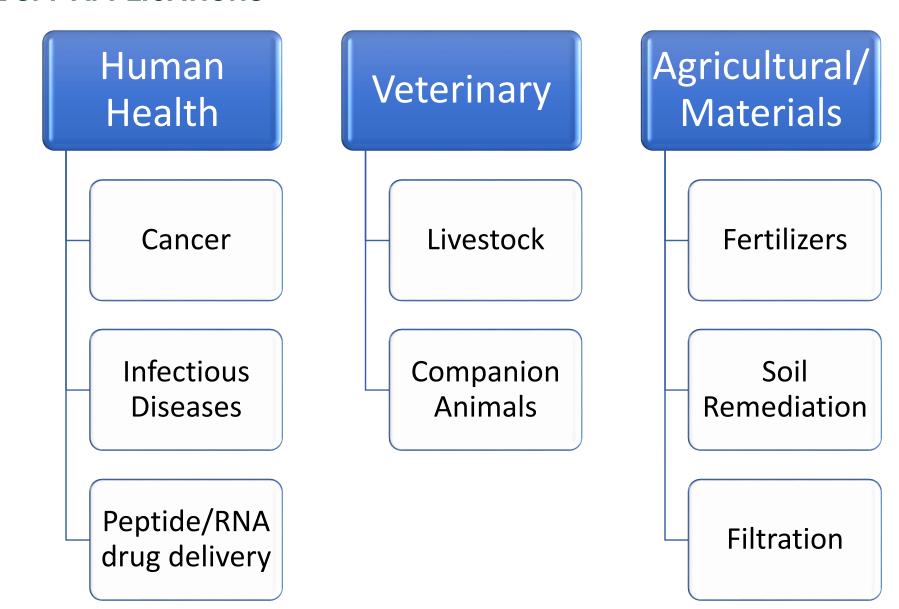


Control of Release Rates



POTENTIAL SPF APPLICATIONS







PLATFORM IP

WO2013056312A1	Granted	https://patents.googl e.com/patent/WO20 1 3056312A1/en	All major jurisdictions worldwide. Invented by Cytomatrix and Deakin University.	A process for preparation of fibres, including discontinuous colloidal polymer fibres that employs a low viscosity dispersion medium
WO2014134668A1	Granted	https://patents.googl e.com/patent/WO20 1 4134668A1/en	All major jurisdictions worldwide. Invented by Cytomatrix and Deakin University.	Apparatus for producing nanobodies via introduction of a body-forming fluid into a dispersion medium.
WO2020198798A1	Priority Date 4/02/2019	A composition for the delivery of biologically active agents and uses thereof	All major jurisdictions worldwide. Developed by Cytomatrix with Deakin University.	Composition for rapid and sustained delivery of one or more biologically active agents, and uses thereof.



The Global Challenge

- Cancer continues to be second biggest killer in all societies.
- 19.3 million new cancers and 10 million deaths globally
- In 2020 US\$160 Billion p.a. in USA, Europe > US\$100B
- Per patient costs are increasing > treatments range from \$10K per month to over a million \$ p.a.

Targeting an attractive 85 billion USD cancer immunotherapy market (2020), expected to grow to est. 277 billion USD by 2030* CAGR of 14.1%

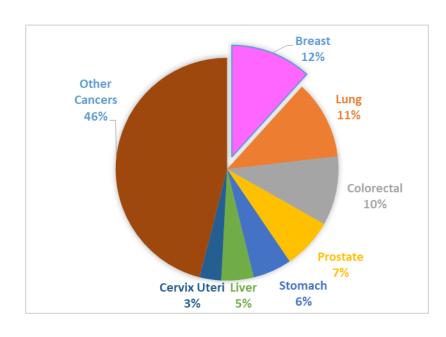
*Precedence Research

<u>Market</u> <u>Analysis</u>



TRIPLE NEGATIVE BREAST CANCER (TNBC) – UNMET NEED

- Breast cancers ~ 12% of global diagnosed cancers
- ~ 15 20% are TNBC
- Only 40% respond to chemotherapy
- Relapse is common (~40%).
- Poor survival when late stage (<u>11%</u> 5-year survival)
- TNBC market ~ US\$780m in 2022
- We will grow market to >US2 billion by 2034
- Success here in humans will validate the technology and allow additional indications to be added







OUR VACCINE

= Sustained-release of dendritic cell factors and antigens drives a far stronger immune response!

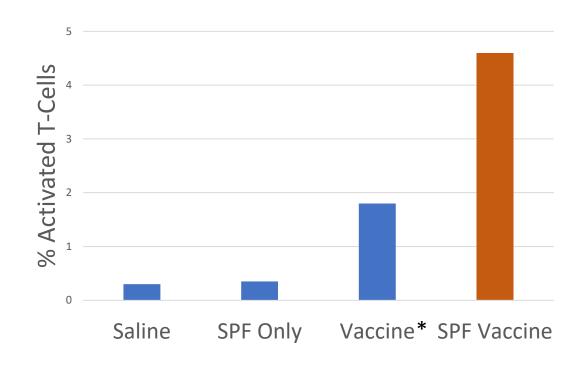
Combined with:

+IMMUNE CHECKPOINT INHIBITORS

+RADIATION (XRT)

+TIMING

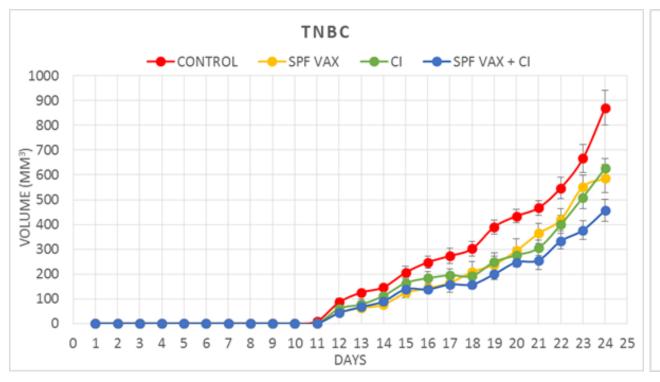


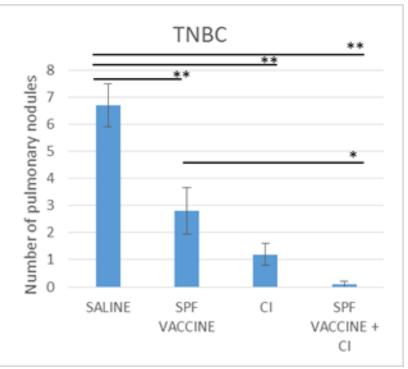


*Ingredients without SPF



DATA – SYNGENEIC MOUSE TNBC (4T1)

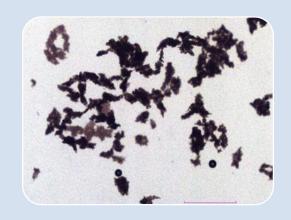




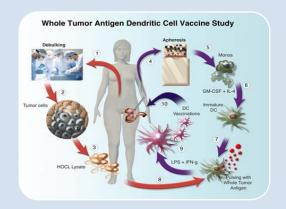
Response in TNBC mouse model. Vaccine (SPF) injected on days -42 and -21 prior to tumour inoculation (Day 1). Checkpoint inhibitors (CI) injected on Days 6, 9 and 12. Lung metastases were nearly completely prevented with the combination.

COMPETITIVE EDGE









SPF

Injectable

Cheaper & Faster Strong efficacy

GEL

Implantable (Surgery)

Strong efficacy

EX-VIVO

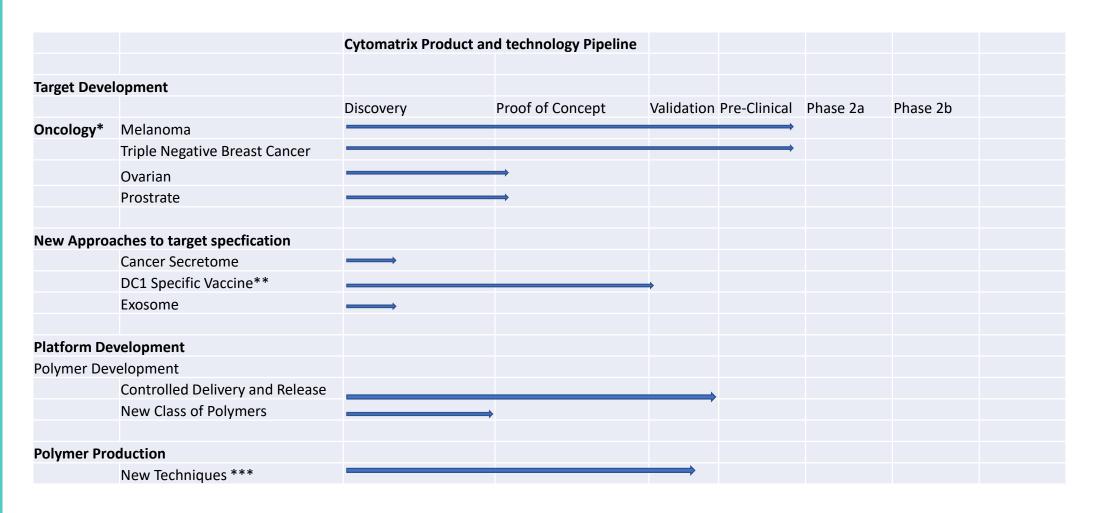
Labour intensive Expensive

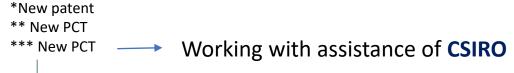
Poor cell survival
Weak effects

<u>Cancer immunotherapy</u>
<u>— treatments that</u>
harness and enhan...

CYTOMATRIX PIPELINE OF DISCOVERY AND APPLICATION







THE CYTOMATRIX TEAM



Cytomatrix Board

Executive Chairman: Prof. Andrew Parratt

Andrew has been managing director or chairman of several technology companies. From 2005-2014 he held various research leadership roles at Deakin University including founding Executive Director of the Institute for Biotechnology and the multi-disciplinary Institutes for Technology and Innovation. Prior to his role at Deakin Andrew was managing director of Apollo Life Sciences, a previously ASX listed reagents and cell biology company spun out of University of NSW.

Non-Executive Director: Darren Scotti

Darren is an experienced Director and Company Secretary Darren currently sits on several boards. He also acts as a finance professional for start-up companies in Australia and the USA.

Non- Executive Director: Simon Marriot

Simon is highly experienced senior executive with more than 25 years' experience in advanced manufacturing, technology development and R&D. also been a CEO, COO and CTO with a number of technology start-ups including: Amaero Engineering, Cetus Energy, Observant. In 2017 he played a significant role in the listing of Titomic (TTT) that licensed CSIRO AM platform to Cold Spray Titanium. Simon has been actively involved in promoting and assisting several technology companies achieve Seed, Series A and B funding.

CEO: Dr. Rodney Cusack

Rodney has over two decades of experience in the Australian biotech and science sector. He has been responsible for the preclinical and clinical programmes at Xenome Pty Ltd, Bionomics Ltd and QBiotics Ltd, with a focus on CNS and oncology.

Science and Technology Team and Collaborators

Molecular and Immunology

Deakin University

Assoc. Professor Julie Sharp

Dr. Ashalyn Watts

Dr. Guy Moeneclaey (consultant)

Queensland University of Technology, Translation Research Institute Professor Rik Thompson

Polymer, Kinetics and Physical Chemistry

Biora Pty Ltd

Dr. Mike O'Shea

Dr Riley O'Shea

CSIRO

Dr Ben Muir

Dr Shaun Howard

Deakin University

Professor Sally McArthur and Professor Colin Barrow

Formulation, Prototyping and Characterisation

Medicines Manufacturing Innovations Centre (Monash University)

Dr. Paul Wynne

Dr. Kahlil Desai