



Noxopharm 2025 AGM Corporate Presentation

Sydney, 18 November 2025: Innovative biotech company **Noxopharm Limited (ASX:NOX)** is pleased to release its 2025 AGM Corporate Presentation.

Highlights:

- HERACLES clinical trial progress
- Numerous diseases linked to inflammation
- Market opportunities and catalysts
- SOF-SKN™ advantages in multi-billion dollar market
- Increasing third-party recognition
- External industry interest in Sofra assets
- First US patent granted
- Sofra and its role in cancer

-ENDS-

About Noxopharm

Noxopharm Limited (ASX:NOX) is a clinical-stage Australian biotech company discovering and developing novel treatments for cancer and inflammation, including a pioneering technology to improve the safety profile of a wide range of mRNA medicines.

The company utilises specialist in-house capabilities and strategic partnerships with leading researchers to build a growing pipeline of new proprietary drugs based on two technology platforms – Sofra™ (inflammation, autoimmunity, mRNA drug enhancement, and oncology) and Chroma™ (oncology).

To learn more, please visit: noxopharm.com

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Dr Gisela Mautner, CEO and Managing Director of Noxopharm, has approved the release of this document to the market on behalf of the Board of Directors.

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NOXOPHARM LIMITED

Delivering Science. Transforming Lives.

AGM 2025

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SOF-SKN™ and SOF-VAC™ are currently not approved for use in Australia or any other country.



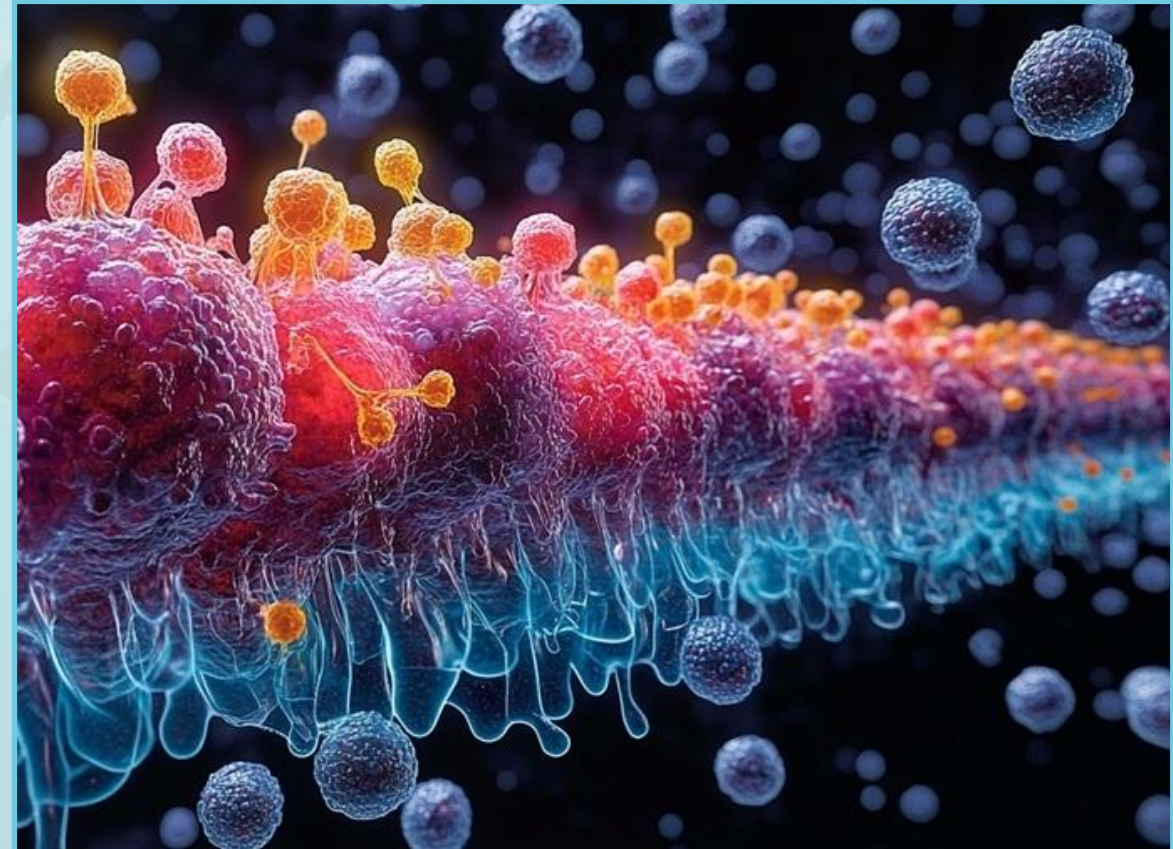
Noxopharm

Dr Gisela Mautner, CEO & MD
AGM Presentation

18 November 2025

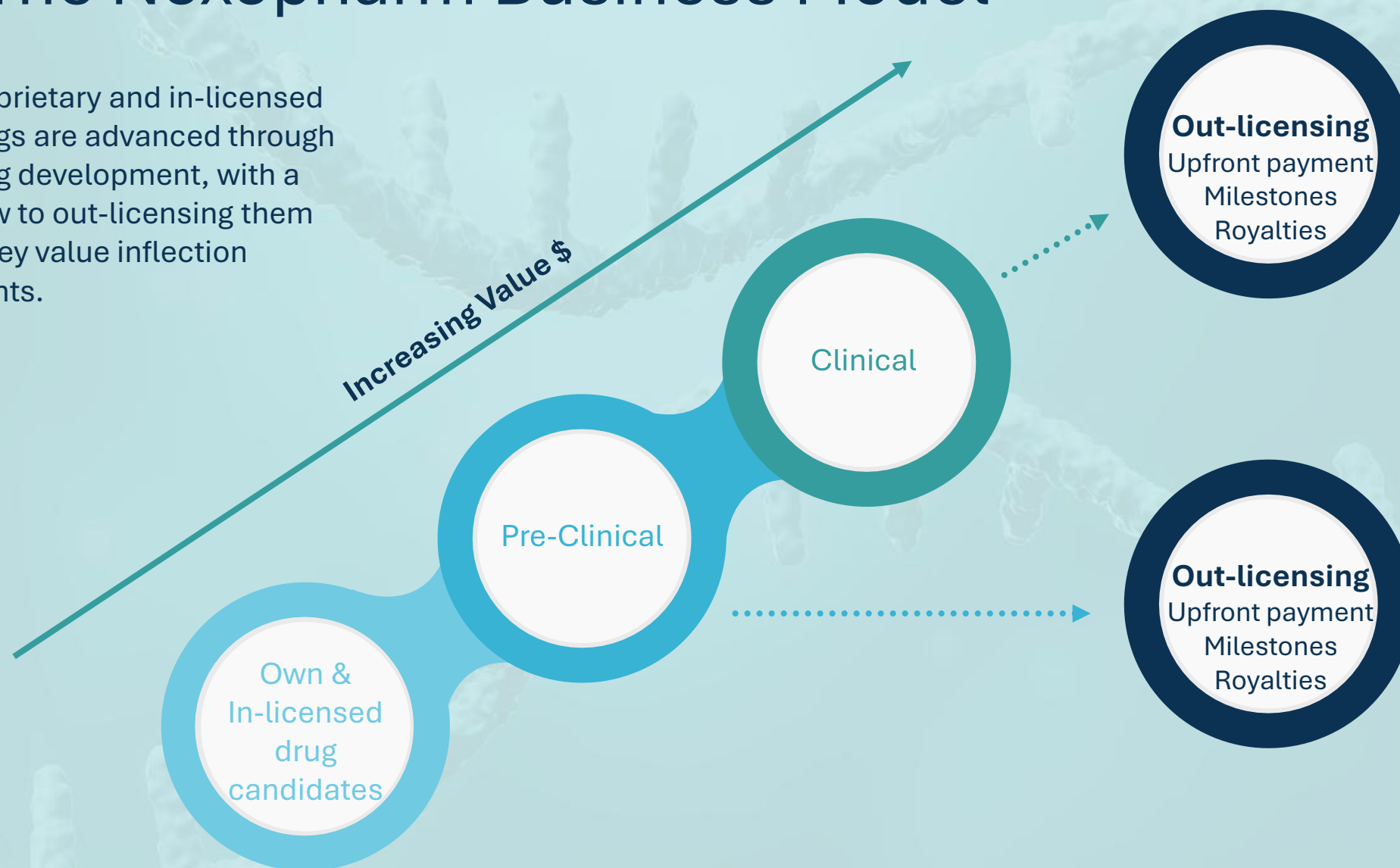
A Milestone Year for Noxopharm

- HERACLES clinical trial started:
 - Positive safety results for Part 1
 - Part 2 now underway
- Growing external interest in Sofra™ platform:
 - Two MTA partners named with first results
 - More MTAs signed
 - Victorian ministerial visit
- Multiple high-potential assets / drugs
- World-class partners
- Robust IP portfolio – First US patent granted
- Significant commercial opportunities - US\$163.2 billion autoimmune market



The Noxopharm Business Model

Proprietary and in-licensed drugs are advanced through drug development, with a view to out-licensing them at key value inflection points.



Financial Summary (ASX:NOX)

Extension of convertible notes announced September 2025 providing cash runway into mid-2026.

Capital Structure*

Share price	\$0.092
Shares on issue	292M
Market Capitalisation	\$26.9M
Net capital raised ¹	\$63.8M
Govt grants/rebates received ²	\$32.0M

Cash Position**

Current Cash Holdings	\$935K
Expected R&D rebate for 2024/25	\$2.8M

* As at 10 Nov 2025

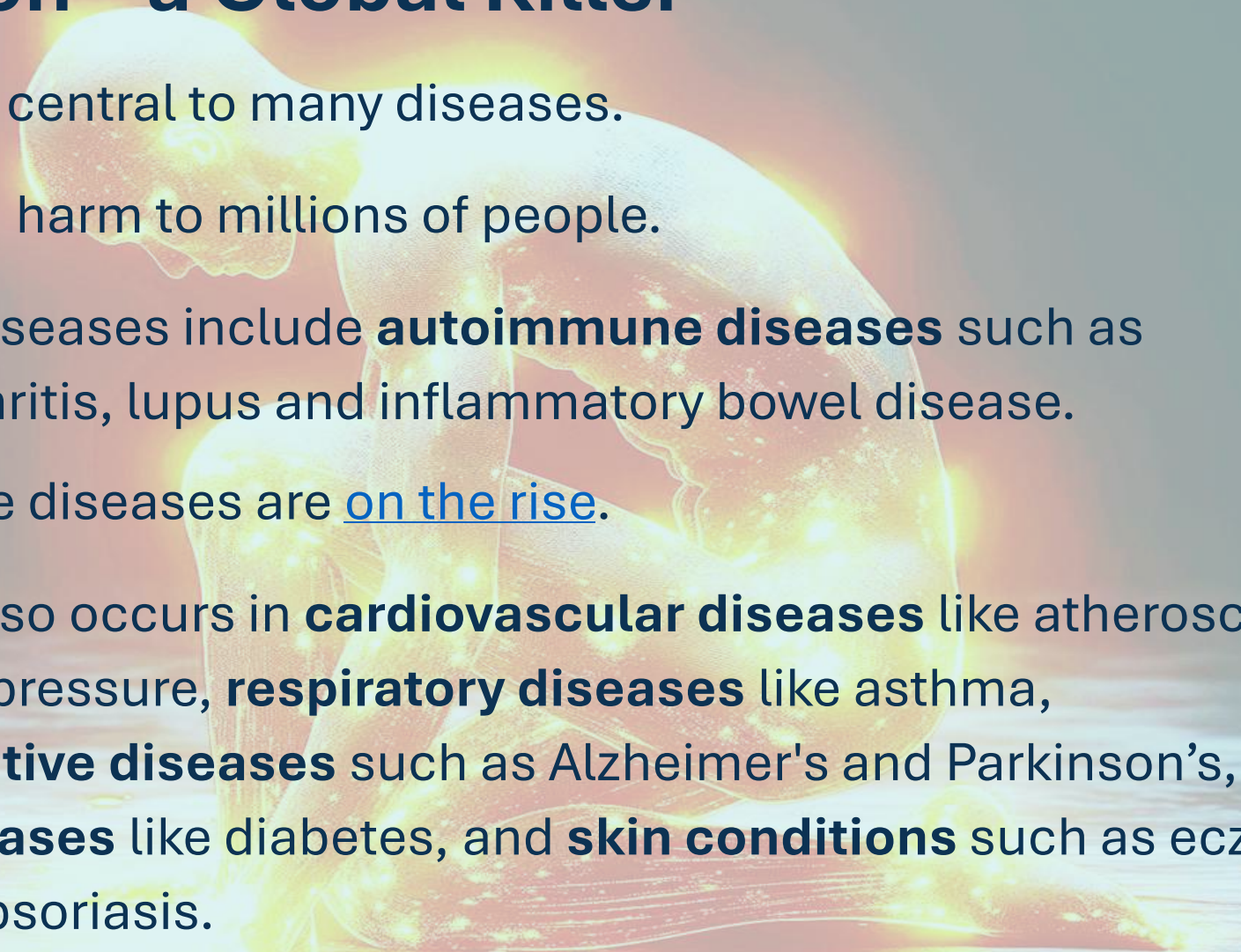
** As at 30 Sep 2025

¹ Includes IPO monies raised

² Since IPO

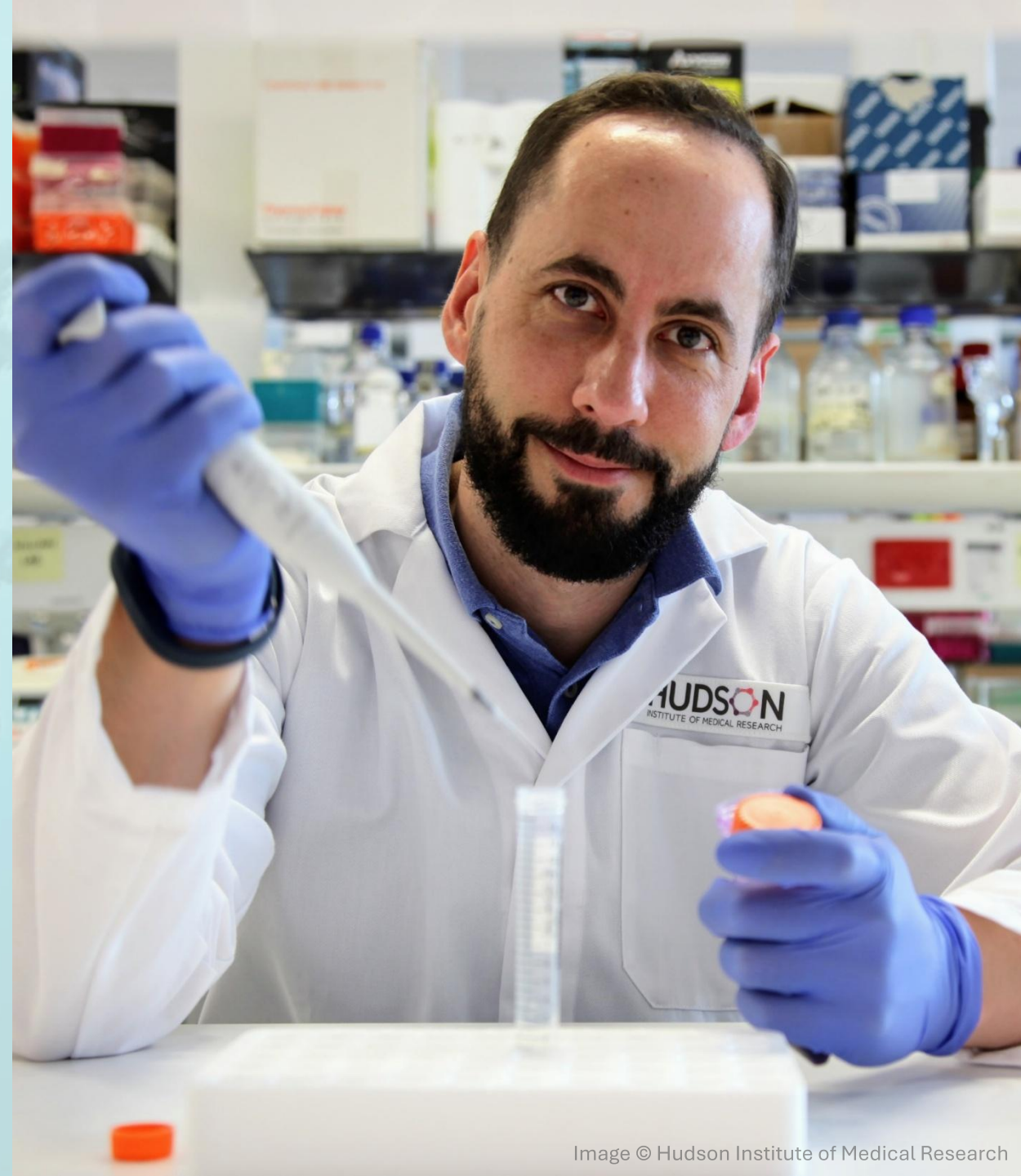
Sofra™
A breakthrough discovery

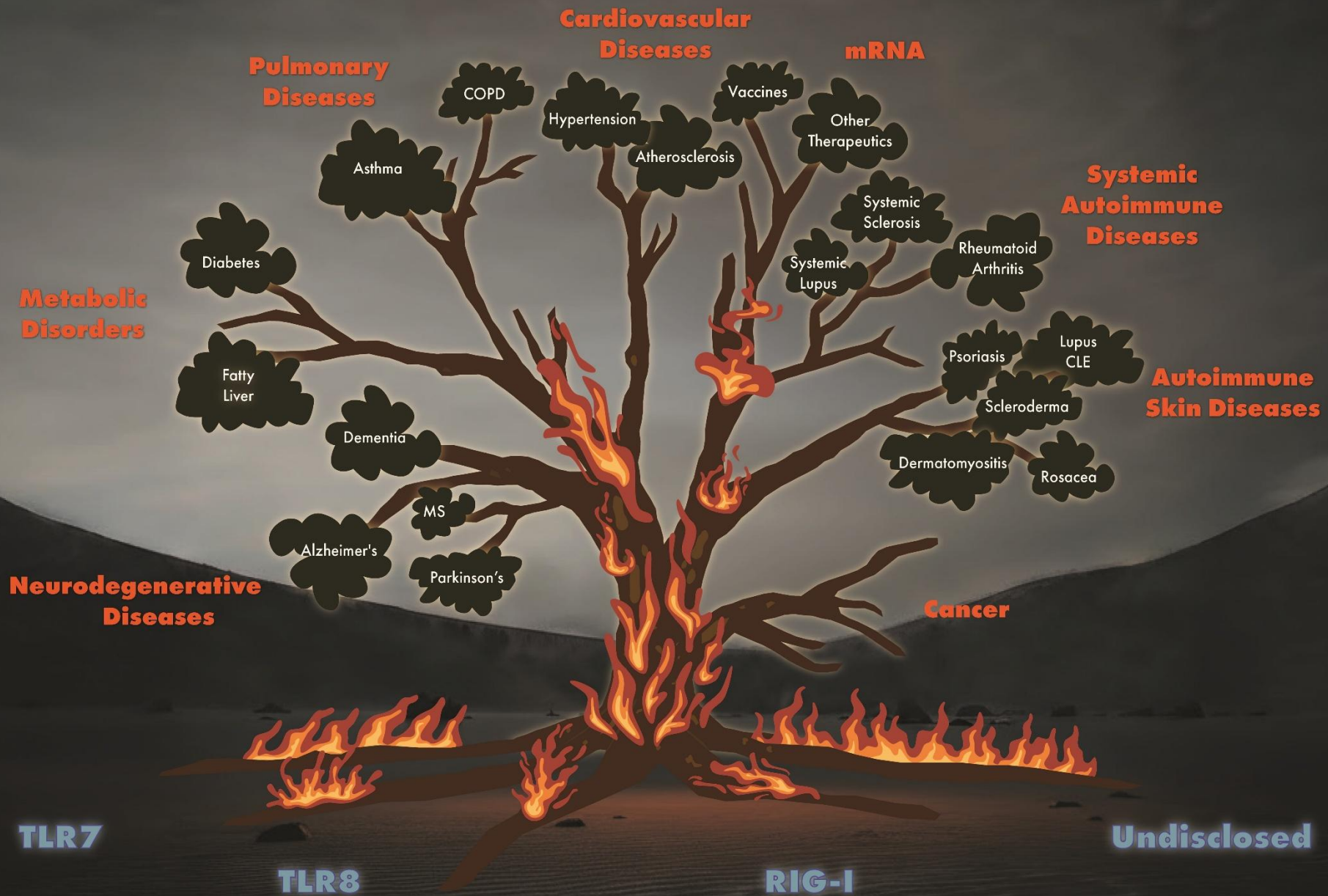
Inflammation – a Global Killer

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- A background image showing a person in a crouching position, clutching their back in pain. The person's body is highlighted with a bright, glowing yellow and orange light, suggesting intense heat or inflammation. The background is a soft, out-of-focus blue and white pattern.
- Inflammation is central to many diseases.
 - It causes untold harm to millions of people.
 - Inflammatory diseases include **autoimmune diseases** such as rheumatoid arthritis, lupus and inflammatory bowel disease.
 - Autoimmune diseases are [on the rise](#).
 - Inflammation also occurs in **cardiovascular diseases** like atherosclerosis and high blood pressure, **respiratory diseases** like asthma, **neurodegenerative diseases** such as Alzheimer's and Parkinson's, **metabolic diseases** like diabetes, and **skin conditions** such as eczema, dermatitis and psoriasis.
 - ***Any technology that can reduce the damage caused by inflammation has significant commercial potential.***

A Breakthrough Discovery

- Noxopharm has a strategic partnership with [Hudson Institute of Medical Research](#), a leading Australian medical research organisation.
- The collaboration is founded on a discovery made by Hudson's [Associate Professor Michael Gantier](#), an **expert in nucleic acids biology**, and an international team of researchers.
- He uncovered why some people develop autoimmune diseases and others do not.
- This revealed how specific immune sensors like TLR7/8 are activated and deactivated.
- The [discovery](#) became the foundation of Noxopharm's **Sofra™ technology platform**.
- ***We can now create novel leading-edge drugs intended to restore the balance to a misfiring immune system.***





Sofra drug candidates treat inflammatory diseases at the root by blocking overactivated immune sensors.

Sofra Technology Platform

- Sofra is based upon short nucleic acid sequences, the building blocks of DNA or RNA, known as oligonucleotides (short oligos).
- These oligos, which we have modified to act on specific immune sensors in a novel way, **reduce inflammation at its source.**
- They have a wide variety of applications, potentially creating more precise medicines that work better with fewer side effects.
- Intellectual property protected with PCT applications filed in all major jurisdictions.
- From its large Sofra library, Noxopharm has already developed:
 - **SOF-SKN™** – a drug candidate for autoimmune diseases affecting the skin.
 - **SOF-VAC™** – a portfolio of oligos designed to limit the inflammatory side effects associated with RNA therapeutics and vaccines.
- ***There are numerous assets / drugs that we are developing based on the Sofra platform to target various inflammatory diseases.***

SOF-SKN
*A new way of treating autoimmune
skin diseases*

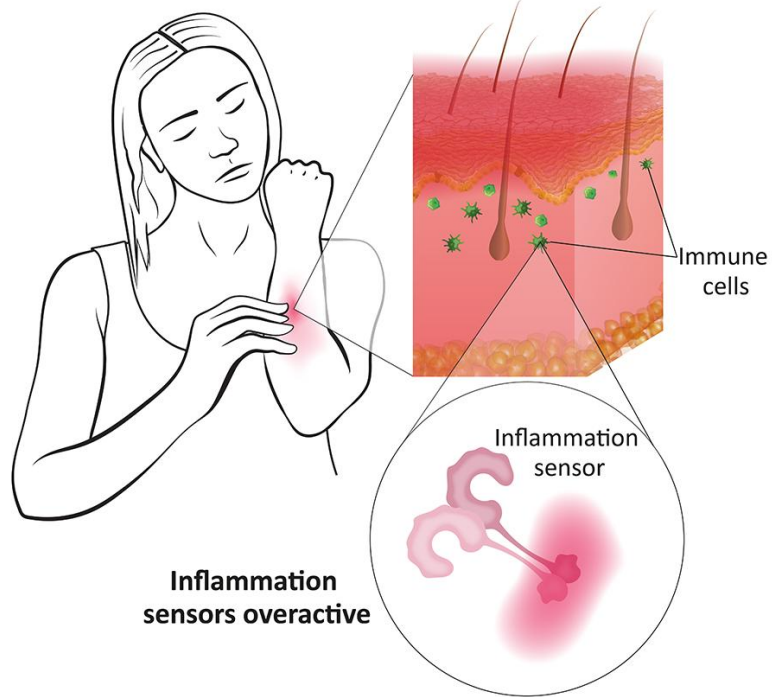
SOF-SKN – A Novel Drug Candidate for Lupus



- Skin diseases are distressing to patients, especially when they visibly affect the face and limbs.
- Cutaneous lupus is a disease with **high unmet need**.
- **Current treatments are inadequate** – corticosteroids are commonly used but can have severe side effects.
- To help patients and capitalise on a market opportunity, we have developed an oligonucleotide-based topical skin medication known as SOF-SKN.
- **5 million people worldwide** have some form of lupus, with incidence and prevalence rates on the rise.
- ***Focusing on lupus is the first step to de-risking the technology and demonstrating its clinical potential. Larger markets will be targeted in the future.***

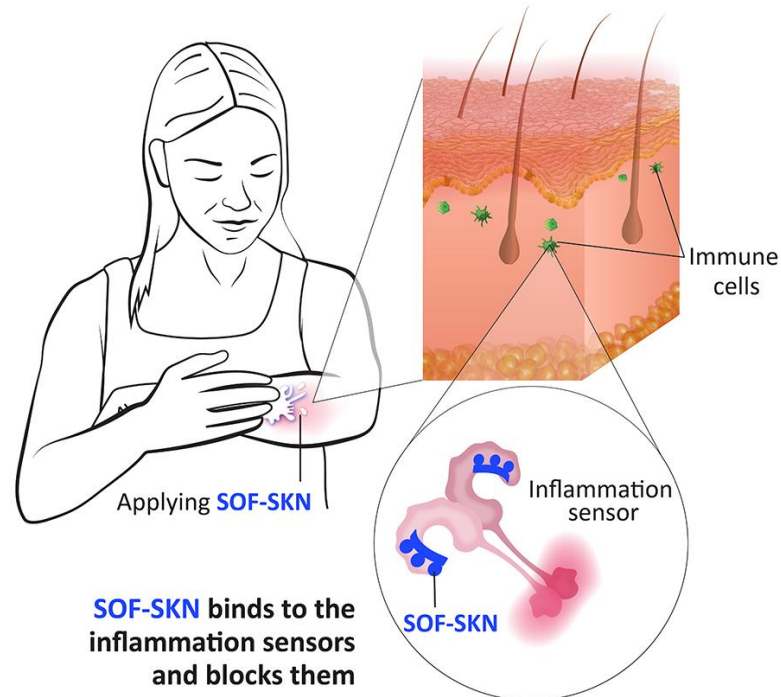
SOF-SKN Mechanism of Action

Lupus results in inflamed skin



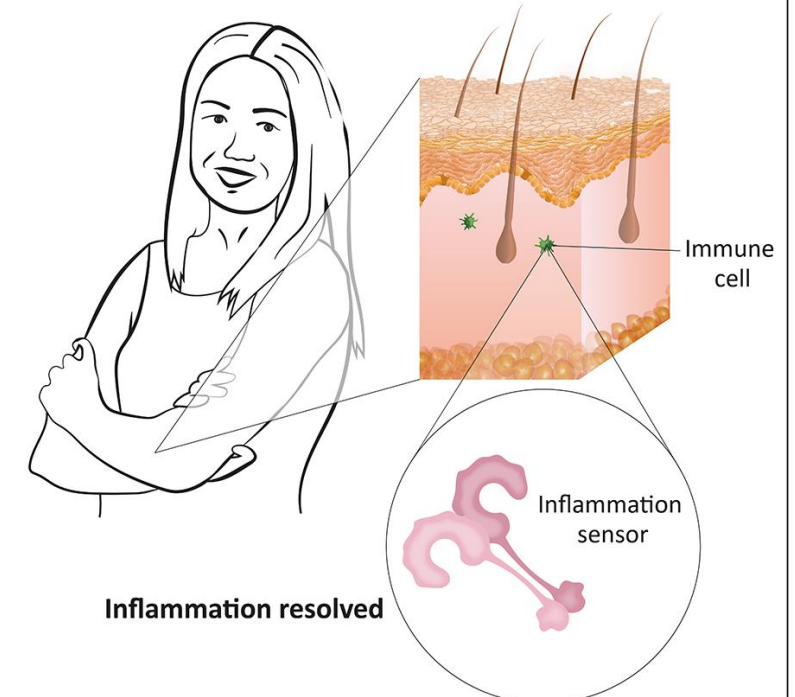
In the skin, different types of immune cells contain inflammation sensors. In inflamed skin, these sensors are overactivated.

SOF-SKN promotes healing



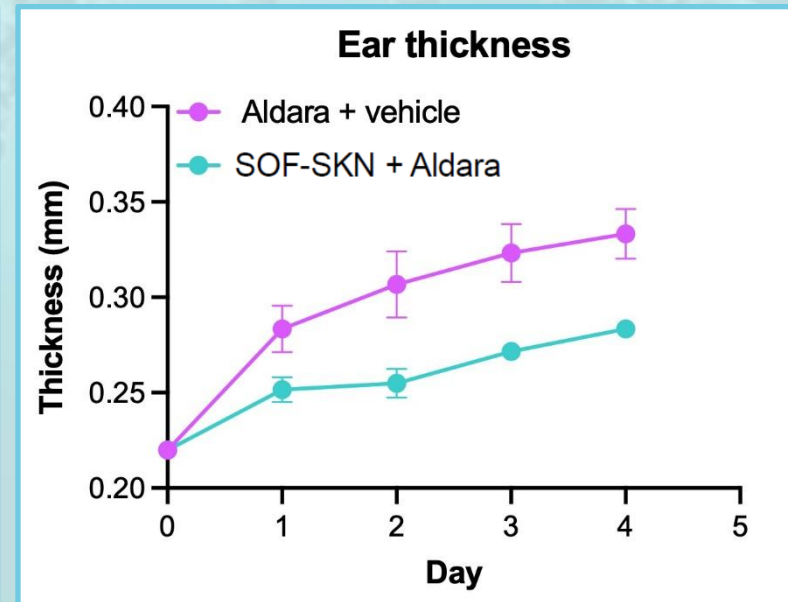
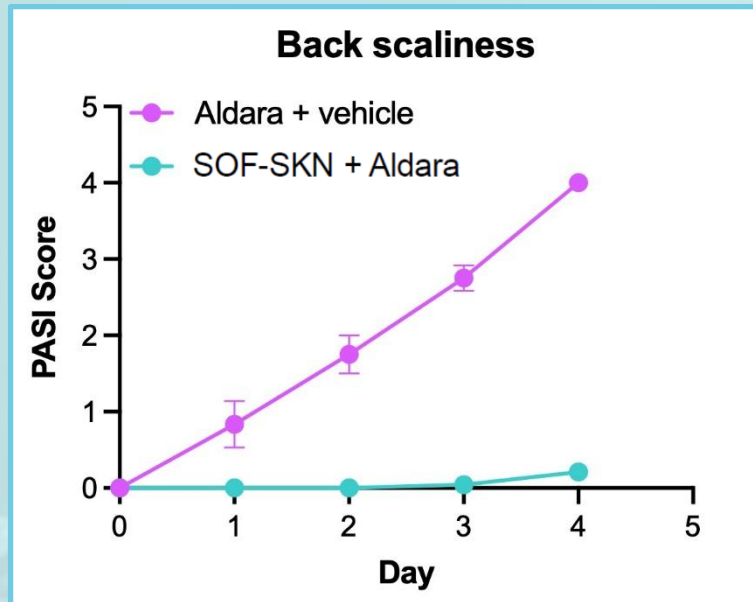
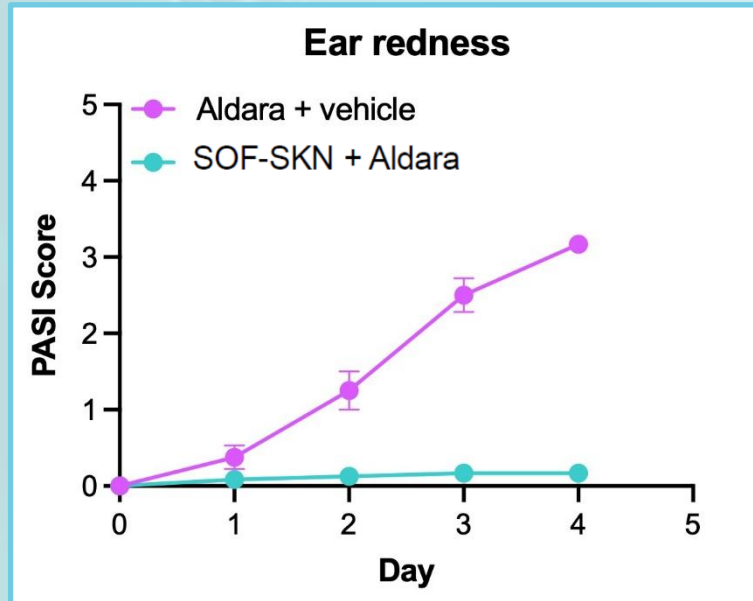
When **SOF-SKN** is applied, the inflammation sensors are blocked and the skin begins to improve.

Skin recovers



Inflammation is resolved and the skin returns to normal.

SOF-SKN Reduces Skin Inflammation – *in vivo*



A well-established model of TLR7-driven skin inflammation was used in applying Aldara® cream containing 5% imiquimod (a TLR7 agonist) topically to the back and ear of mice.

SOF-SKN was also applied to the same areas.

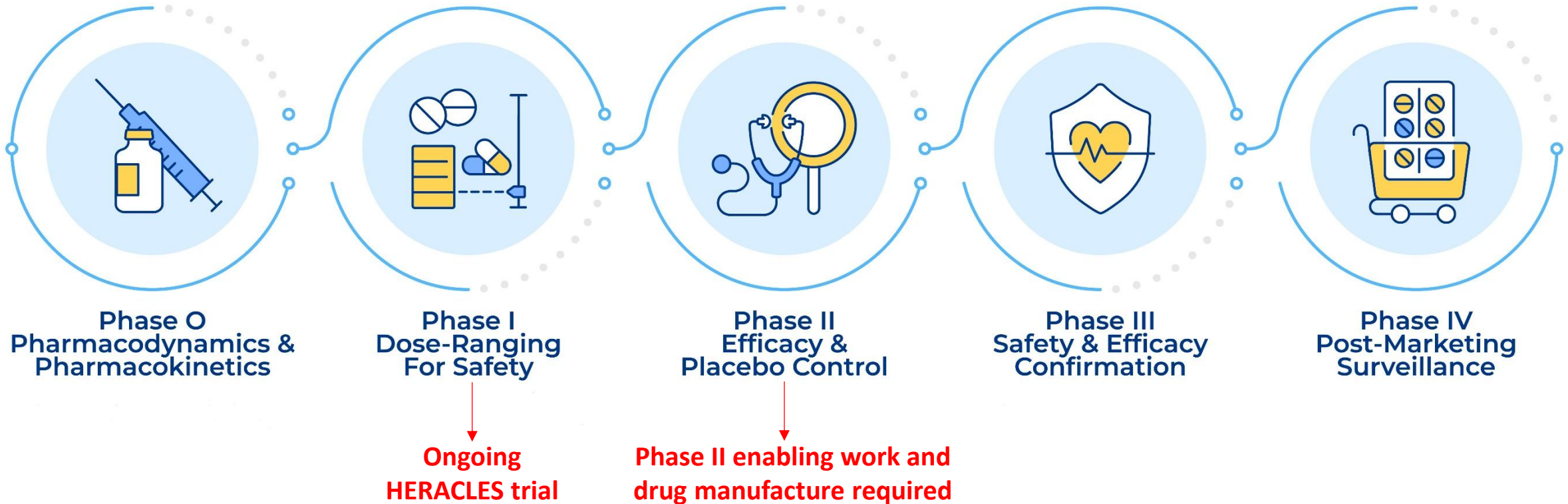
Mice were scored daily for the appearance and severity of skin inflammation.

The inflammation parameters measured decreased significantly when SOF-SKN was applied.

HERACLES Clinical Trial

- First-in-human trial for SOF-SKN is now taking place.
- It aims to provide initial safety and pharmacokinetic data from healthy volunteers.
- HERACLES stands for ‘Harnessing Endogenous Regulators Against CLE Study’.
- It is being **conducted in Australia** to capitalise on local expertise in lupus research and early phase clinical trials.
- Ethics approval received in May 2025.
- **Trial activities started in June 2025.**
- Several doses and concentrations are being tested.
- Part 1 concluded with an excellent safety and tolerability profile of SOF-SKN.
- Part 2 is currently ongoing.
- ***Results are being announced in a timely manner.***

Clinical Trials Process

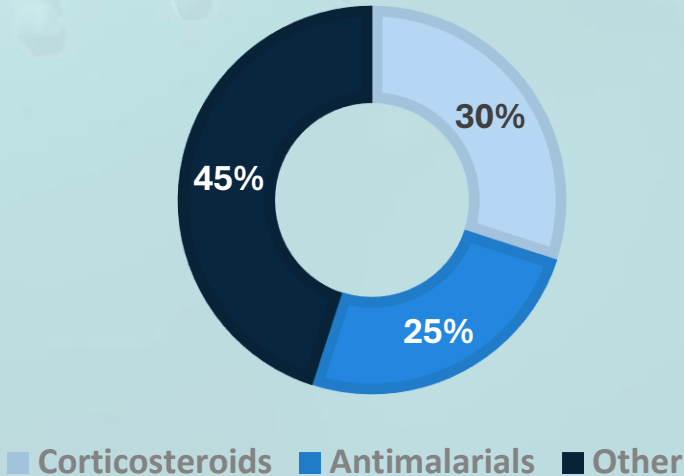


Total Addressable Market & Competitor Landscape

Indication	Total Addressable Market (US\$ Billion)	Competition
<i>Cutaneous lupus erythematosus (CLE)</i>	• \$3.38 (2024) • \$10.53 (2033) • CAGR 13.46%	Only 2 drugs approved for only 1 subset of CLE: 1. Kenalog-10 (corticosteroid) 2. Plaquenil (antimalarial)

For the treatment of CLE, use of generic, unspecific and systemic lupus drugs is common (corticosteroids, immune suppressing drugs, anti-histamines, others).

Market Share by Treatment Type



Why TLR7/8 Inhibition?

- Drugs that **directly target *innate* immune sensors** are a relatively recent development resulting from extensive scientific progress.
- Innate immune sensors are part of the body's first line of defence and initiate the immune response by triggering a cascade of complex immune reactions.
- Rather than trying to halt inflammation when the process has already progressed along multiple steps, SOF-SKN can stop it right at the beginning.
 - This marks a **significant shift in immunotherapy** beyond the *adaptive* immune system drugs that target T-cells, for example.
- Hudson Institute is at the **forefront of this science**.
- SOF-SKN is being developed as a **first-in-class drug**:
 - First TLR7/8 targeted topical treatment and oligonucleotide-based TLR7/8 antagonist.
- Major pharma companies are also exploring this exciting new field.

Major Companies Exploring TLR7/8 Antagonism – An Attractive and Validated Target

Several major companies see TLR 7/8 antagonism as an attractive market opportunity for systemic (SLE) and cutaneous (CLE) lupus.

Modality	Company	Compound*	Target	Route of Administration	Stage	Indication
Small Molecule	Merck	M5049 (Enpatoran)	TLR7/8 antagonist	Oral	Phase 2	SLE/CLE COVID-19 pneumonia dermatomyositis and polymyositis
Small Molecule	BMS	BMS-986256 (Afimetoran)	TLR7/8 antagonist	Oral	Phase 2	SLE/CLE
Small Molecule	Novartis	MHV370	TLR7/8 antagonist	Oral	Phase 1	Undisclosed
Antibody	Daiichi Sankyo	DS-7011a	TLR7 antagonist	IV/SC (IV for Phase 2)	Phase 2	SLE/CLE

SOF-SKN Advantages

- **Fast relief** – SOF-SKN is directly applied to the skin lesions where the immune cells that express TLR7/8 immune sensors are overactivated.
 - It therefore **reaches the source of the inflammation** directly without having to pass through the stomach or circulatory system.
- **Patient compliance** – Topical applications are, in general, **preferred by patients** for skin diseases.
- **Ease of treatment** – Cream can be applied to individual lesions and the dose adjusted easily, with no exposure of drug to whole body.
- **Reduced risk of immunosuppression** – Avoids systemic TLR7/8 inhibition.
- **Versatility** – Potential for treatment of flare-ups as well as ongoing disease management.
- **Targeted** – SOF-SKN has the potential to mitigate off-target effects and associated side effects.

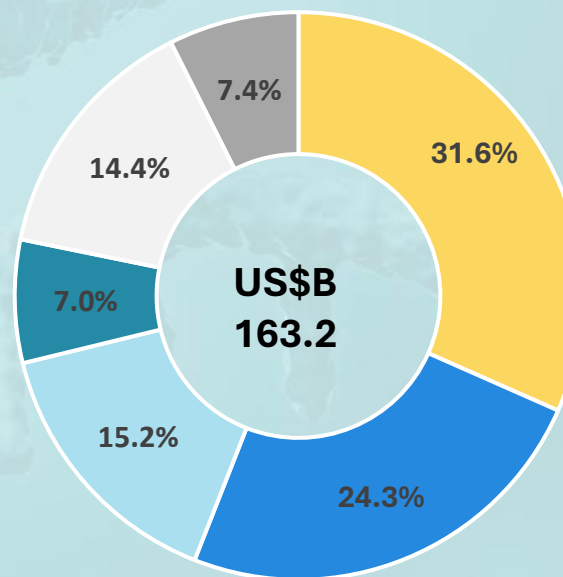
Global Autoimmune Disease Therapeutics Market

Market Overview

- **Global autoimmune disease therapeutics market size – US\$ 163.2 billion (2024):**
 - **CAGR of 3%** (2024–2034).
 - Projected revenue of **US\$ 219.6 billion** (2034).
- **Dermatology indications** – market share of **31.6%** in 2024 and CAGR of **2.8%**.
- **Immunomodulators** and immunosuppressants – highest market share of **72.3%** (2024).
- **North America** – market share of **33.3%** (2024) in the global autoimmune disease therapeutics market; **11.4% S Asia and Pacific**.

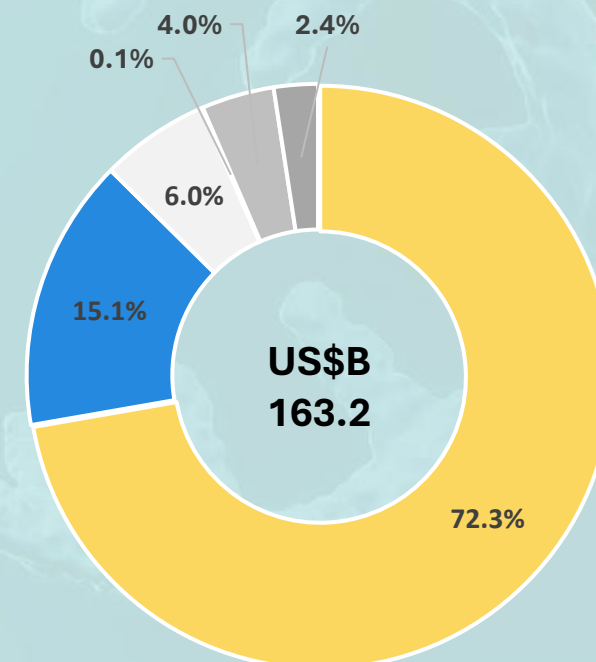
Global Autoimmune Disease Therapeutics Market Value Share

By Indications (2024)



- Dermatology Indications
- Rheumatoid Arthritis
- Multiple Sclerosis
- Type-1 Diabetes
- Inflammatory Bowel Disease
- Other Indications

By Treatment (2024)



- Immunomodulators & Immunosuppressants
- Anti-inflammatory Drugs
- Intravenous Immunoglobulin (IVIg)
- Cell Therapy
- Hormone Therapy
- Other Treatments

Ministerial Visit to Hudson Institute



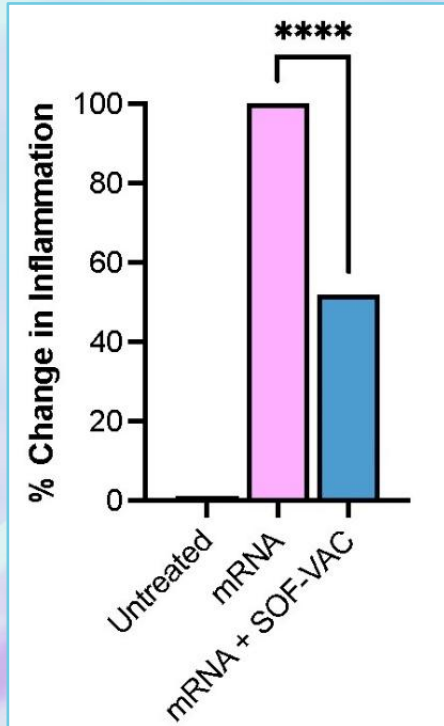
Victorian Minister for Finance, Economic Growth and Jobs Danny Pearson holding a tube of SOF-SKN.



SOF-VAC

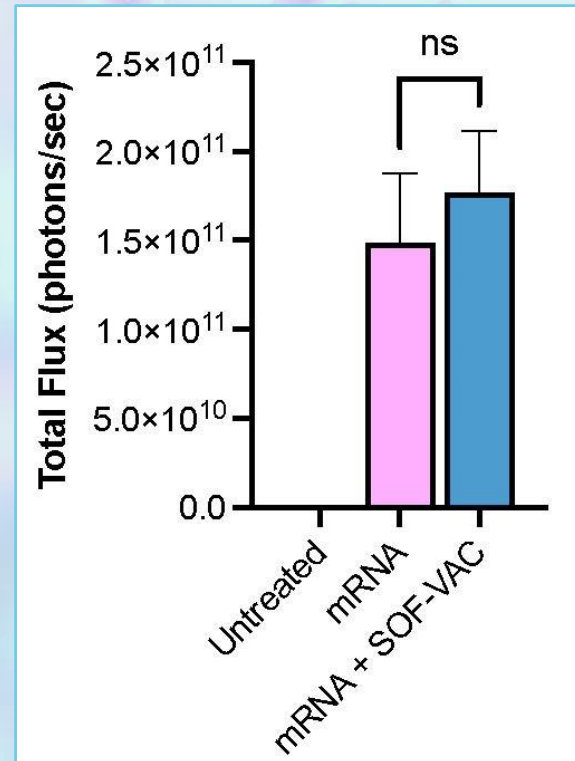
*An asset portfolio attracting
commercial interest*

SOF-VAC Reduces Inflammation



- In an animal study, inflammation was reduced by around 50% when comparing the inflammation induced by mRNA alone to mRNA plus SOF-VAC.
- This is an important finding, as many side effects of mRNA vaccines are due to inflammation.

Compounded average percentage showing highly significant decrease in levels of nine inflammatory cytokines ($p < 0.001$) detected in the blood of mice six hours post-injection with mRNA alone or mRNA co-packaged with SOF-VAC.



- Since mRNA expression is directly correlated with vaccine activity, i.e. the immunity induced by vaccination, it was critical to show that SOF-VAC did not reduce mRNA translation.

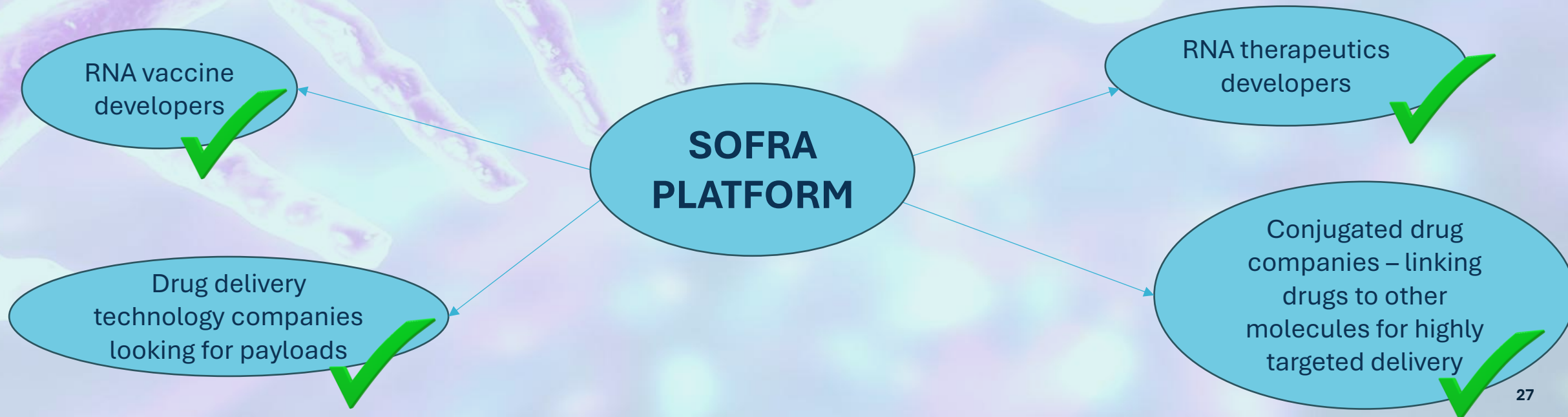
Measurement of mRNA expression (bioluminescence) in mice six hours post-injection with luciferase mRNA alone or mRNA co-packaged with SOF-VAC showed no significant difference.

SOF-VAC Commercialisation

- Noxopharm has developed an **extensive portfolio of assets** under the SOF-VAC program.
- These include an array of oligos targeting various nucleic acid (RNA / DNA) inflammation sensors such as TLR7, TLR8, RIG-I and cGAS.
- The program is also being extended to modulate other critical sensors, with promising leads for targets such as MDA5, TLR3 and TLR9.
- **A range of mid-size to multibillion-dollar companies are now evaluating these assets.**
- Success stories: Collaborations with BioRay and Tezcat:
 - [Promising Sofra results from overseas company.pdf](#)
 - [US company demonstrates strong Sofra potential.pdf](#)
- Most company names remain confidential in a highly competitive market.
- ***Noxopharm is actively pursuing further third-party collaborations.***

Potential Partners – Signed MTAs

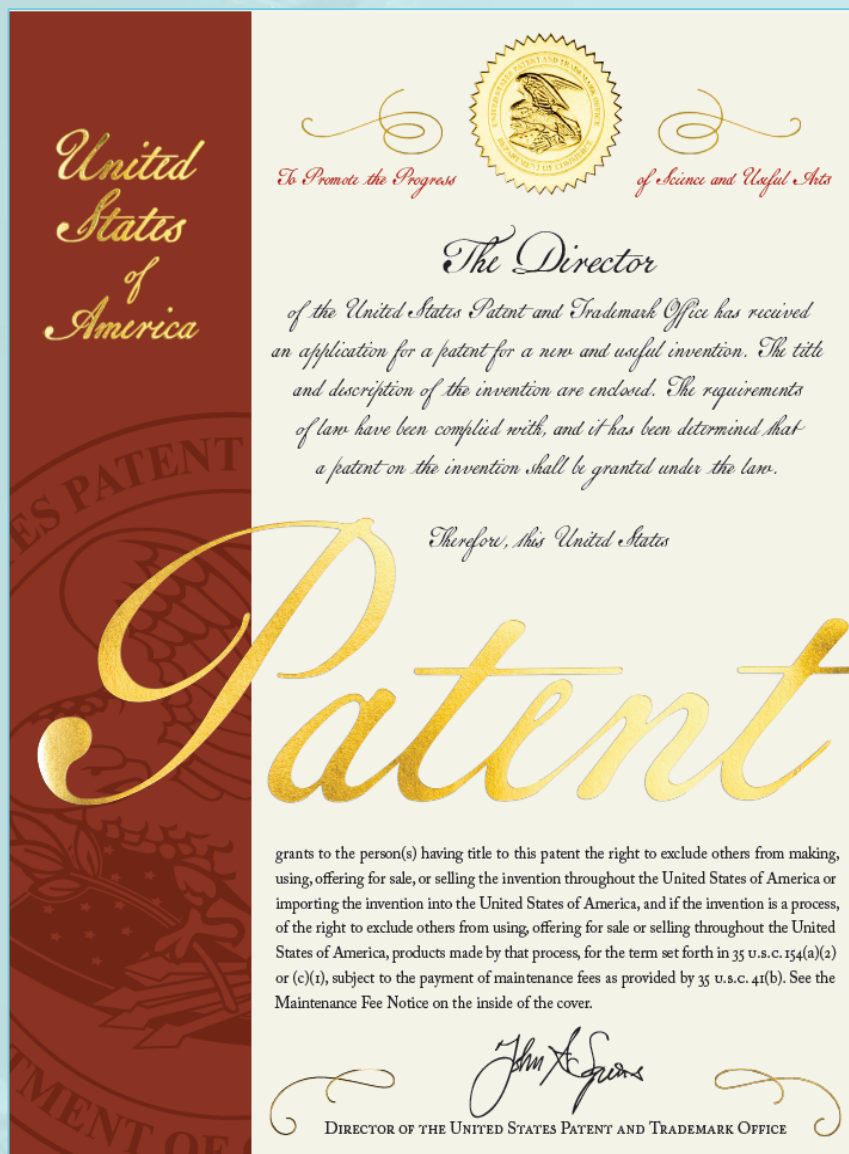
- Several Material Transfer Agreements (MTAs) signed over the past year.
 - An MTA governs the transfer of materials between two parties, defining the terms of the arrangements, materials being shared and type of experiments performed.
 - [BioRay](#) and [Tezcat](#) MTAs previously announced.
- **An MTA is an essential step along the path to commercialisation of preclinical assets.**
- Each company is investing its own time and resources to perform the studies.
- A variety of use cases are being explored.



Cancer Opportunity

- Inflammation – or rather the absence of it – plays a recognised role in cancer.
- Noxopharm has developed drug candidates that can help **stimulate the immune system** as it battles cancer.
- Sofra could therefore attract interest in the sizeable **global immuno-oncology market**, which was worth **US\$69.8 billion** in 2025.
- Decision to fast-track research program for 2025.
- **Lead candidate already identified**, currently being optimised.
- Patent protection now secured for this concept – first patent from Sofra portfolio.
- ***This expansion into cancer further broadens the Sofra pipeline and opens up intriguing market opportunities.***

First US Sofra Patent Granted



 US012448622B2	
(12) United States Patent Gantier	
(10) Patent No.: US 12,448,622 B2 (45) Date of Patent: Oct. 21, 2025	
(54) OLIGONUCLEOTIDES	
(71) Applicant: HUDSON INSTITUTE OF MEDICAL RESEARCH, Clayton (AU)	2018/0273576 A1 9/2018 Hogrefe et al. 2019/0144490 A1 5/2019 Hogrefe et al. 2019/0270766 A1 9/2019 Hogrefe et al.
FOREIGN PATENT DOCUMENTS	
(72) Inventor: Michael Gantier, McKinnon (AU)	WO 03/86280 A2 10/2003 WO 2006/063252 A2 6/2006 WO WO 2007/031319 3/2007 WO 2008/019486 A1 2/2008 WO WO-2009060281 A2 * 5/2009 A61K 31/7088 WO 2018/184003 A1 10/2018 WO 2021/232099 A1 11/2021
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.	
(21) Appl. No.: 18/213,116	
(22) Filed: Jun. 22, 2023	
Prior Publication Data	
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(63) Continuation of application No. 17/926,383, filed as application No. PCT/AU2021/050469 on May 19, 2021.	
Foreign Application Priority Data	
May 19, 2020 (AU) 2020901606	
(51) Int. Cl. C12N 15/113 (2010.01) A61K 45/06 (2006.01) C12N 15/11 (2006.01)	
(52) U.S. Cl. CPC C12N 15/113 (2013.01); A61K 45/06 (2013.01); C12N 15/111 (2013.01); C12N 2310/11 (2013.01); C12N 2310/315 (2013.01); C12N 2310/321 (2013.01); C12N 2310/3231 (2013.01); C12N 2310/341 (2013.01); C12N 2310/344 (2013.01); C12N 2320/53 (2013.01)	
(58) Field of Classification Search CPC : C12N 15/113; C12N 15/111; C12N 2310/11; C12N 2310/315; C12N 2310/321; C12N 2310/3231; C12N 2310/341; C12N 2310/344; C12N 2320/53; A61K 45/06 See application file for complete search history.	
(56) References Cited	
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(Continued)	
Primary Examiner — Neil P Hammell Assistant Examiner — Alexandra Geraldine Dace Denito (74) Attorney, Agent, or Firm — MARSHALL, GERSTEIN & BORUN LLP	

Catalysts – Increasing Value with every Step

Near term - 2H25 - 1H26

- HERACLES Part 1 results – single dose in humans
- HERACLES Part 2 results – multiple doses in humans
- Regulatory required human SOF-SKN data for next trial
- New MTAs and follow-on MTAs (first step for potential commercial deal)
- New IND-enabling preclinical data
- First tier-one patent granted
- High-impact journal publication of Sofra discovery
- New cancer data from pipeline (lead optimisation)

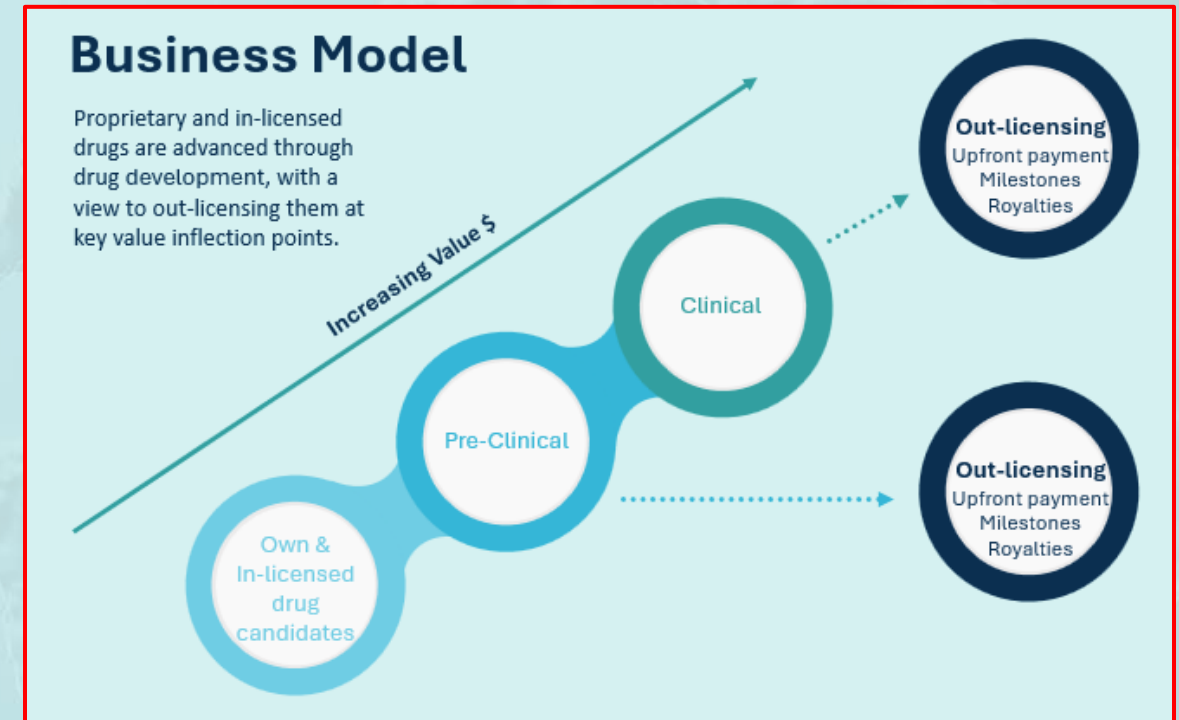
Medium term – 2H26-2H27

- Next stage clinical trial for SOF-SKN efficacy data
- Pre-meeting with US FDA for Investigational New Drug application
- Cancer-related external collaborations

Long term – From 1H28

- First exit event – out-licensing of SOF-SKN to pharma
- Several assets in clinical trials
- Rich pipeline to support ongoing growth and value creation

Above is subject to change.



Strategy to develop and sell de-risked assets when attractive to other companies.

No intention to self-fund expensive and lengthy Phase III trials and regulatory drug approval processes.



Noxopharm

Questions