SMART Resiin

Nature's best elastomer to industrial reality



Biomaterials – Manufacturing – Licensing

2024 – Smart Resilin - Ltd

Resilin



Smart Resilin

What if we could unlock the potential of the most elastic material in nature?





Smart Resilin Our Secret Sauce

What we do:

Protein Design Manufacturing Product Integration





Resilin Use Cases Product Integration

We change the world of flexible materials



Cosmetics

Hair Straightening, Nails, Skin



Sport Shoes, Sportwear, Helmets, Impact gloves, Rackets, Squash balls, Mouth guard

Consumer Electronics

Flexible displays, dielectric substrate

Shock absorbers

Construction, Automotive & Aerospace industries, Electronic devices

Flexible Adhesives

Construction, Solar plates, Automotive & Aerospace industries.



Resilin Products

Films Pure resilin Film forming agents

Composite films





Gels Pure resilin beads 3D printing ink





Our scale up partners



Country	Slovenia
Size	>100 scientists
Expertise	Ideation to 10m ³ fermentation
	Strain development
	DSP development
	Working with CMOs for 200,000
	fermentation











Establish

BioResilin Technologies

A joint venture for producing and selling Resilin

Resilin expected production



Resilin Qualities



Resilin

Go to Market Strategy

Resilin Cosmetics

Novel hair straightening approach using cellulose, based on Smart Resilin' IP

Resilin in cosmetic aspect:

Hydrating properties

Coating

UV-blocking

Specific binding domains for strong interactions Electrostatic and weak interaction Biocompatibility and Cells proliferation Long term hair straightening today uses Formaldehyde



Corrosive Acute Toxic

Irritant Health Hazard

Smart Resilin

A Healthier solution for the client, the hairdresser and the waste waters





Cosmetics Hair Straightening

Using only natural, healthy materials, hair structure does not change its nature





Performance Shoe Soles

Initial results showed an improvement of 133% in resilience when integrating resilin into PU foams





Electronics Flexible Displays

Resilin-CNC films are bio-based, strong and flexible



Flexible Displays Market





OPPO Research Institute Innovation Accelerator
Inspiration Challenge

Global top 15 finalist Final October 2023





- We have produced over 20 gr of Resilin and created 6 different forms of resilin
- We collaborated with 7 industry leading international companies
- We have generated \$560k in incomes through these activities
- Scaleup- Establish a JV with ACIES BIO
- POCs
- Climate solution prize <u>winners</u> 2022















Prof. Oded Shoseyov



Prof. Oded Shoseyov CSO NanoBioMimetics Lab Hebrew University of Jerusalem

Inventor of >100 patents

Co-author of >300 scientific paper

Resilin

Co-founded over 18 startups including:



Aesthetic and Regenerative medicine products **IPO** Public on NASDAQ Jan 2018 \$95.5M total funding Employees 51-200



Plant-based Meat, 3D printing **IPO** Public on TASE Nov 2020 \$17.75M total funding Employees 11-50



Genes to Improve Plant Yields **M&A exits** Acquired by Suzano P&P, Jul 2010 Undisclosed funding Employees 51-200



Recycling Human and Animal Waste **US Based (SF)** \$2.11M total funding Employees 1-10

Getting on The Podium



*Company with one or more rounds of funding with undisclosed amounts. Undisclosed amounts have not been reflected in this figure. Source: MII analysis on investment activities in companies included in MII's company database, based on PitchBook and primary research data.

Resilin

Target partners/ clients

HALLIBURTON

obbo 71117111

Road Map



Industrial Prototypes

-Confidential-



Reducing the use of toxic chemicals

Energy saving

Replacing synthetic non-biodegradable materials

Less CO₂ emissions

SMART

Resilin



Summary

High sales potential within 3 years

Companies in the field are already valued at over \$1B

Establish a JV for commercial resilin production (First in market!)

Collaboration with leading global brands

ESG impact - ecological process that will lead to decrease global pollution

Solid technology



Revenue generation

Licensing

Licensing with volume

(+ flat fee)

Raw materials sales (through joint venture)

Material costs

\$500/kg

Usage volumes estimates



SMART RESIIN

Join us in bringing resilin to the mass-market, providing a wide array of industries with the most elastic material known to nature

Thank you!

