

Contact: Tatjana Braun
Phone: +972.544.454373
Email: tatjana.pillar@gmail.com
Web: www.inteligels.com



INTELIGELS

RELIEVE PAIN AND SUFFERING

Technology:

Nontoxic, environmentally friendly reverse-thermo-responsive smart polymer

Example Uses:

Wound care
Skin care
Physical barriers

Targeted Industries:

Human Health
Animal Health
Cosmetics
Consumer Products

Monetization Model:

Licensing Agreements
Contract Manufacturing
Direct to Consumer Sales
Intellectual Property Development

Use of Proceeds:

Product/Partner Development
Small Scale Manufacturing
Staffing

Year Founded:

2020

Funding to Date:

\$700k Dilutive
\$400k Non-Dilutive Grants

Investment/Partnership Opportunity:

\$1.6 million Equity Funding
IP Development Co-Share

Leadership:

Kevin McPherson: Chairman & CEO
Alex Braun: COO
Arnon Krongrad, M.D.: CSO, Strategy
Nimrod Elmish: CFO, Finances
Ina Gottfried: Dir Manufacturing

Advisors:

Daniel Cohn, Ph.D., the Hebrew University
Josef Haik Ph.D., Sheba Medical Center
Paul van Zuijlen Ph.D., Beverwijk Burn Center
Jeremy Goverman, MD, Mass General Hospital



INTELIGELS Picture from Geek time news article : <https://www.geektime.com/inteligels-learn-startup/>

Summary:

Inteligels develops and commercializes an innovative technology for **Smart Bandages and Skin covers**. The technology offers **non-toxic, environmentally friendly, transparent, reverse-thermo-responsive configurable smart polymer hydrogel**. The technology was invented at Casali Institute of Applied Chemistry, the Hebrew University in Jerusalem by Professor Daniel Cohn, and received a FDA 510k exemption for the U.S. market in 2022.

This unique technology is based on polyethylene oxide and polypropylene oxide segments and differs markedly from common hydrogels in that it can be **custom configured to specific thermal, ionic, pH, and/or magnetic stimuli** which will trigger an unlimited number of **reverse phase changes between a liquid and a solid form**. Users can terminate the treatment by applying a third stimuli condition, i.e., a preconfigured temperature, to liquify the material and wipe the residual away.

These features allow Inteligels to redesign treatment regimens for skin covers, physical barriers, and legacy drug delivery modes resulting in enhanced ease of use and lower total treatment costs while reducing pain and accelerating the healing process – all in a drastically more environmentally responsible way. While we can supply in a liquid gels, a spray, or custom designed sheets, here are just a few of the value propositions we envision:

- **Used in wound/pain management** to accelerated healing via creating a sterile anaerobic wound site that provides visual transparency, prevents infection, absorbs exudates, enhances tissue regeneration, and serves as a carrier for companion therapeutics while reducing the pain and tissue damage associated with legacy treatments. Our technology **conforms to any anatomical shape**, addressing the challenges of current treatments related to foot ulcers, facial injuries, abdominal wounds, etc.
- While currently **non-toxic and environmentally friendly**, we can configure the technology to your standard for **biodegradability**, unlocking the potential to eliminate billions of pounds of medical waste generated by current procedures.

A New Paradigm in Wound Management:

Conventional wound management solutions have significant limitations: reliance on static adhesives, which injure, cause pain, and irritate the wound upon removal delaying the healing process; have relatively rigid features limiting anatomical conformation; poor suitability for the delivery and retention of therapeutic medicines and chemicals, i.e. they are not “smart” and do not act or react to the changing environmental conditions of the wound site. And they also produce copious amounts of environmentally unfriendly waste. Inteligels’ technology eliminate these problems with the features and benefits described above.

Products and Services:

Inteligels owns the core technology that enables various embodiments. This technology is integral to a broad range of possible derivative products, such as aseptic skin coverings, bandages, casts, smart personal protective equipment like gloves and masks, and ultimately as an injectable delivery vehicle for the environmentally triggered release of medications. Inteligels currently has product in testing in the animal health, topical botanicals, and cosmetics markets. We are seeking to develop new partnerships with industry leaders in their chosen fields to co-design novel products and services.

The company has reached agreement with laboratories that will support its physical, chemical, and pharmacokinetic testing of products embedded with agents requiring regulatory approval. With these laboratories, the company expects relatively quick regulatory approvals.

Markets:

Inteligels’ **price competitive** technology is ideally suited for people, plants, pets, and the planet. The most immediate partnership opportunities are in the infection prevention/sanitation, veterinary and cosmetics segments, in which the company is already active. These segments are relatively simple in that significant research and development has already been done and they have minimal regulatory hurdles. Beyond these segments, the Inteligels technology has potential to disrupt outdated legacy products and processes throughout the healthcare market.

2023 Goals:

INTELIGELS seeks collaboration with pharmaceutical companies active in the wound management market.

