

Skिंगate™ Infuse

Pushing through barriers

beep
beep

CosmoAesthetics

**DRUG
DELIVERY
SYSTEMS**



/// About Us

CosmoAesthetics™ (“CA”) is an Australian based innovation hub founded in 2015 by **Dr. Mathew Jafarzadeh** and is focused on developing disruptive technologies to provide home-based health care products and services for consumers globally.



OUR MISSION

To become a global leader in both at clinic & at-home therapy , providing disruptive , but affordable innovative technology.



OUR PURPOSE

CA, in partnership with scientists and physicians, is developing a portfolio of non-invasive, safe, and easy-to-use innovative solutions for the “Health at Home” market, focused on the global US\$3 trillion therapeutics, medical and well-being market segments.



Background

It is estimated that almost **40%** of adults are actively seeking safe, non-invasive, and cost-effective treatments they can administer from the convenience of their own home. Currently clinic-based treatment methods include the following problems:



Fear of the surgical procedure



Multiple clinic visits



**Side effects/
complications post
treatment/
overdose**



**Saving time
and cost to
both patients
and health
system**

Management Team



Luke Smith – CEO

Accomplished Managing Director equipped with a commanding track record of combining innovative commercial, sales, marketing and management techniques to successfully grow and transform a business. Utilises a balance of creative and critical thinking to anticipate business trends, cultivate solutions to concerns and capitalise on growth and market retention opportunities. Highly numerate, commercially astute and experienced in establishing and developing an international presence for businesses across EMEA, Australasia, and the Americas.



Mike Mobilia – CFO

Mike is a highly motivated business professional with a record of achievement in providing strategic insights and operational business solutions. Broad range of customer, business and financial expertise across diverse industries including technology, healthcare, insurance, B2C, real estate and banking. 20+ years of experience in both the public and private sector, with c-suite roles including business and financial leadership, commercial management, risk management, investment activities and treasury oversight across a range of industries.



Greg Shenton – Sales & Marketing

Marketing Manager with over 15 years experience in the FMCG industry, across operational marketing, international marketing and product development.

Adept at creating and executing brand strategy, working collaboratively across multi-disciplinary teams, with a knack for breaking down complex problems, and relentless drive to deliver results.



Irfan Malik – NED

Global Open Innovation Thought Leader, Global Market Access/Scale-up Facilitator, Govts & Corporate Innovation programs between Australia, India and the Middle-East / Asia-Pac.



Dr Mokmeli – CTO

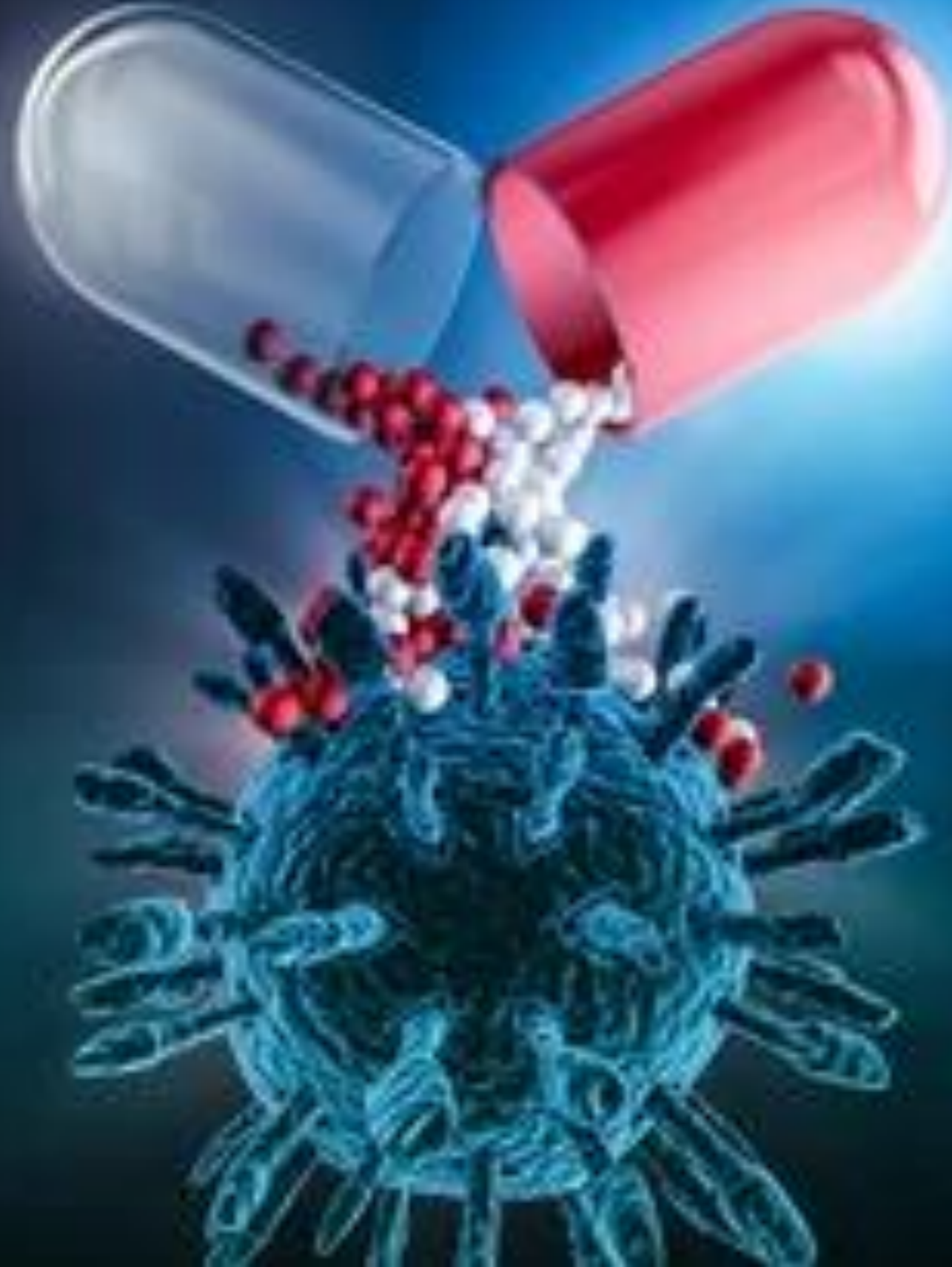
Chief Medical Scientist, CEO Canadian Optic & Laser Center
Internationally recognized researcher, lecturer & publisher with over 20 approved studies and 65 research items. Specialist in the applications of laser therapy in health & cosmetics subjects like Pain Management, Orthopedic Surgery, Neurosurgery & Dermatology.



Max Yan – COO (Australia- China)

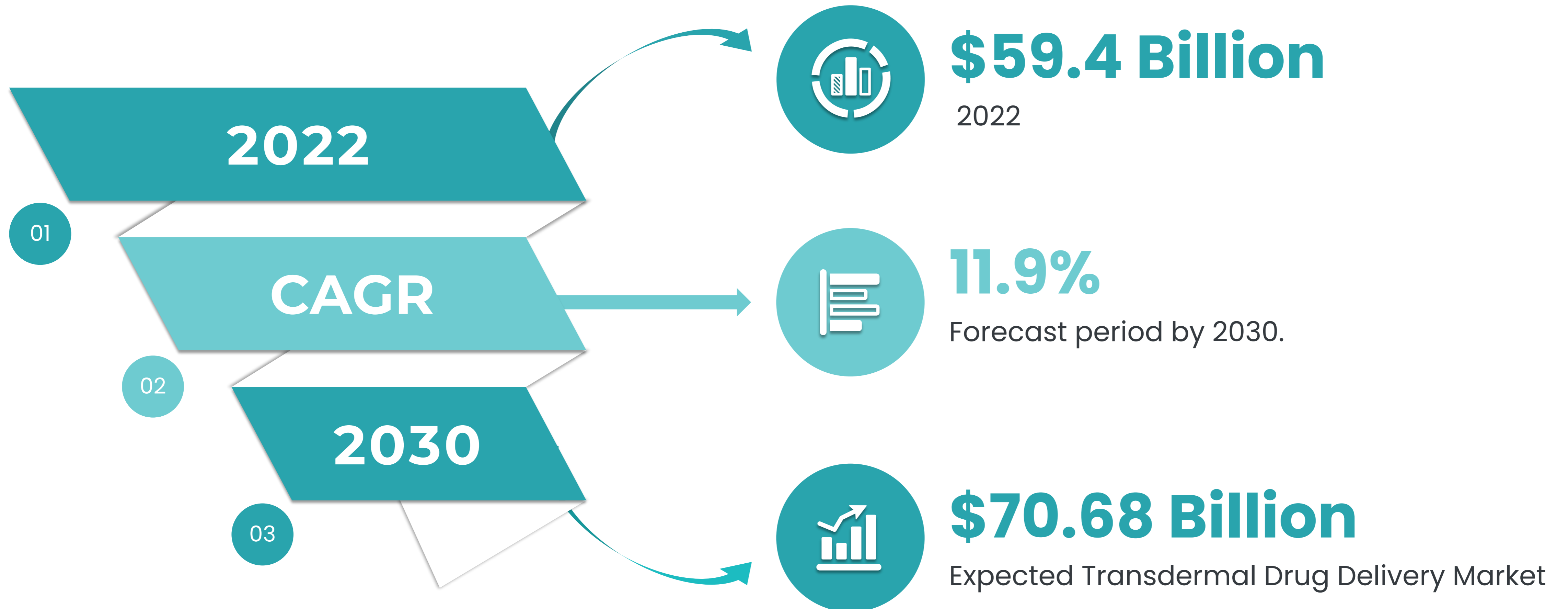
Max is a highly motivated and results orientated senior strategic & management executive. His goal is to provide deliverable strategic and technical solutions. He has managed and successfully executed major business transformation projects and Joint Venture projects. Max has a comprehensive understanding of the global pharmaceutical and medical device market with key regulatory compliance help to minimize risk and ensure a products success and ongoing supply and compliance to strict standards.

Transdermal Drug delivery challenges



- **Limited Drug Permeability**
- **Skin Variability**
- **Variations in skin thickness**
- **Variation in skin Hydration levels**
- **Low Drug Loading**
- **Skin Irritation and Allergic Reactions**
- **Variable Absorption Rates**

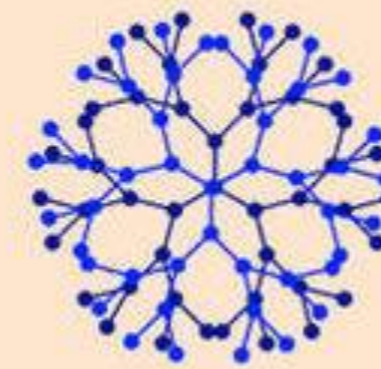
Transdermal Drug Delivery Global Market Size



SkinGate™ Infuse Innovation in Drug Delivery

Introducing World's first Patent-pending,
Transdermal Drug Delivery System,
SkinGate™ Infuse, designed to assist in
drug transmission and delivery of medium
to large nanoparticles

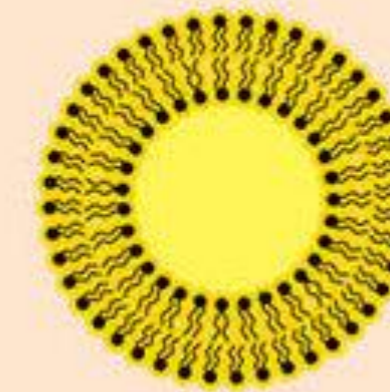
Organic Nanoparticles



Dendrimer



Layered
Biopolymer



Liposome

Hybrid Nanoparticles



Hydrogel

Inorganic Nanoparticles



Carbon
Nanotubes



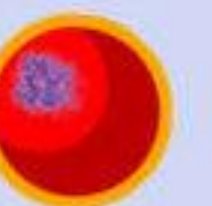
Mesoporous
Silica



Gold Shell



Iron oxide
Shell



Quantum
dot

SkinGate™ Infuse Technology

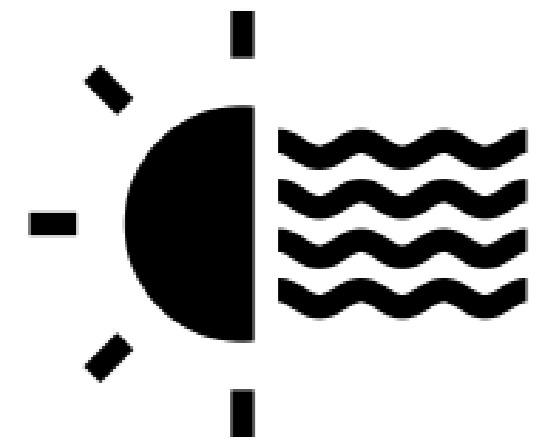


Photo-biomodulation



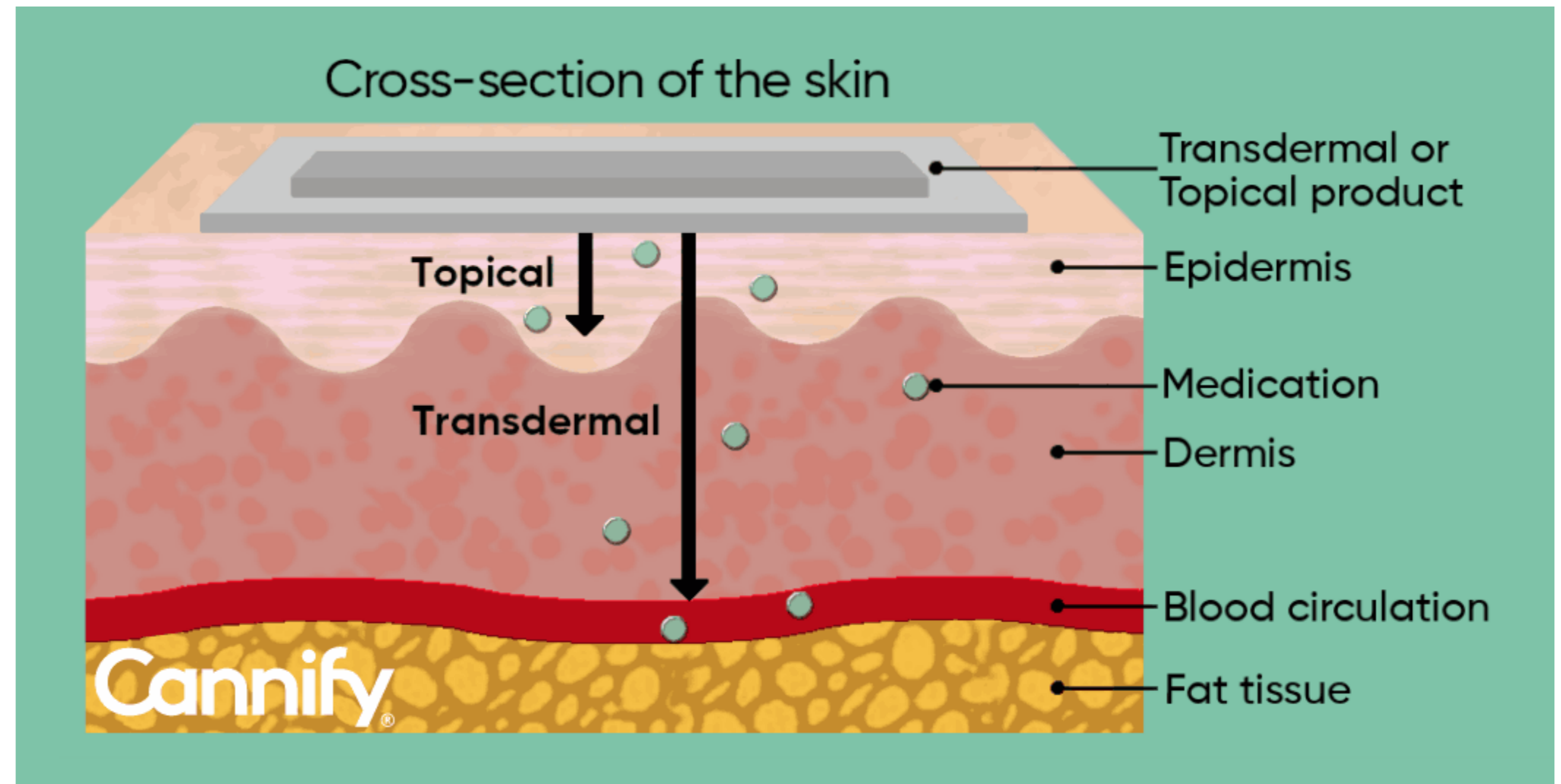
Radiofrequency



Acoustic Energy (low frequency sonography)



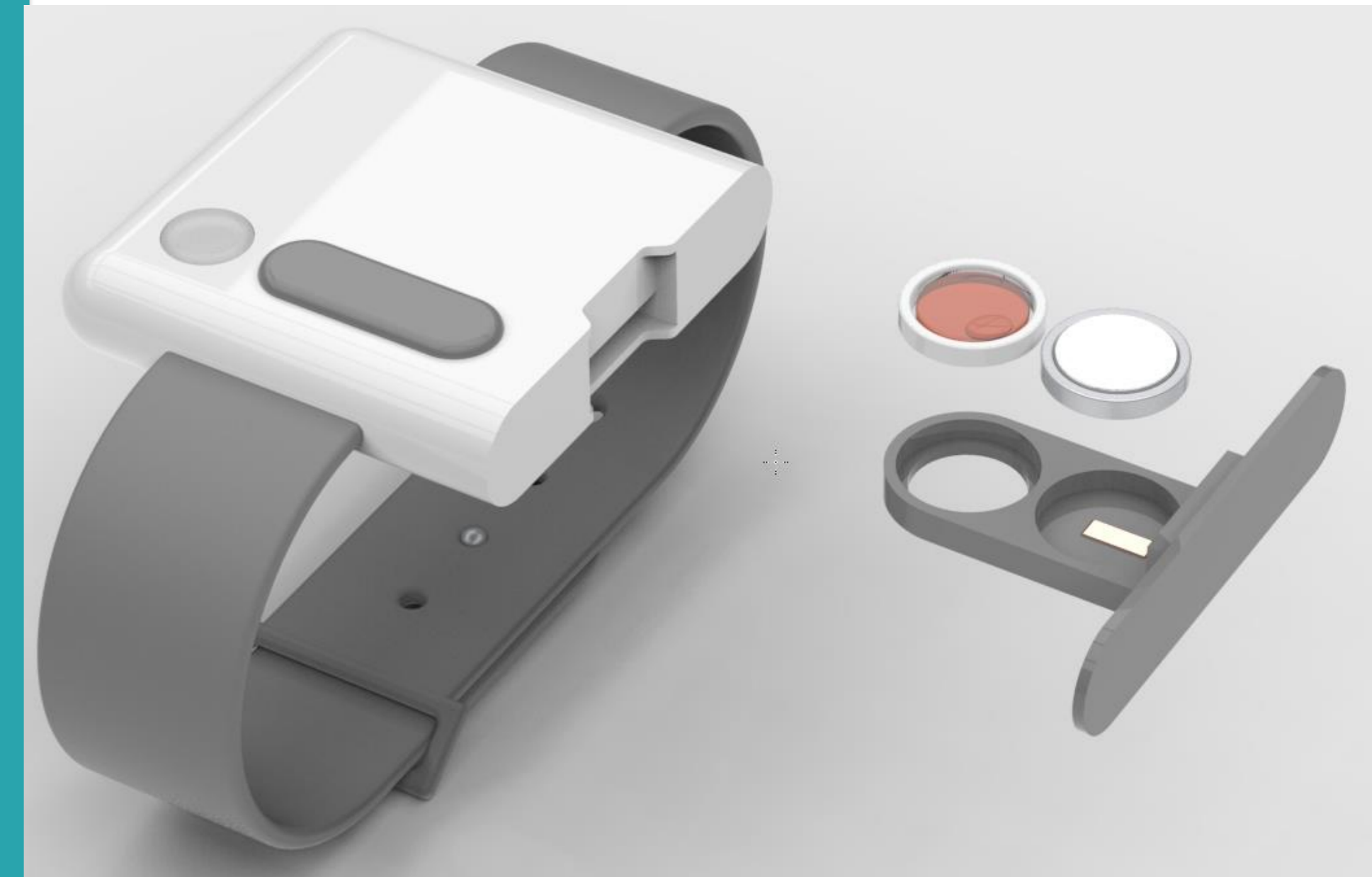
Iontophoresis

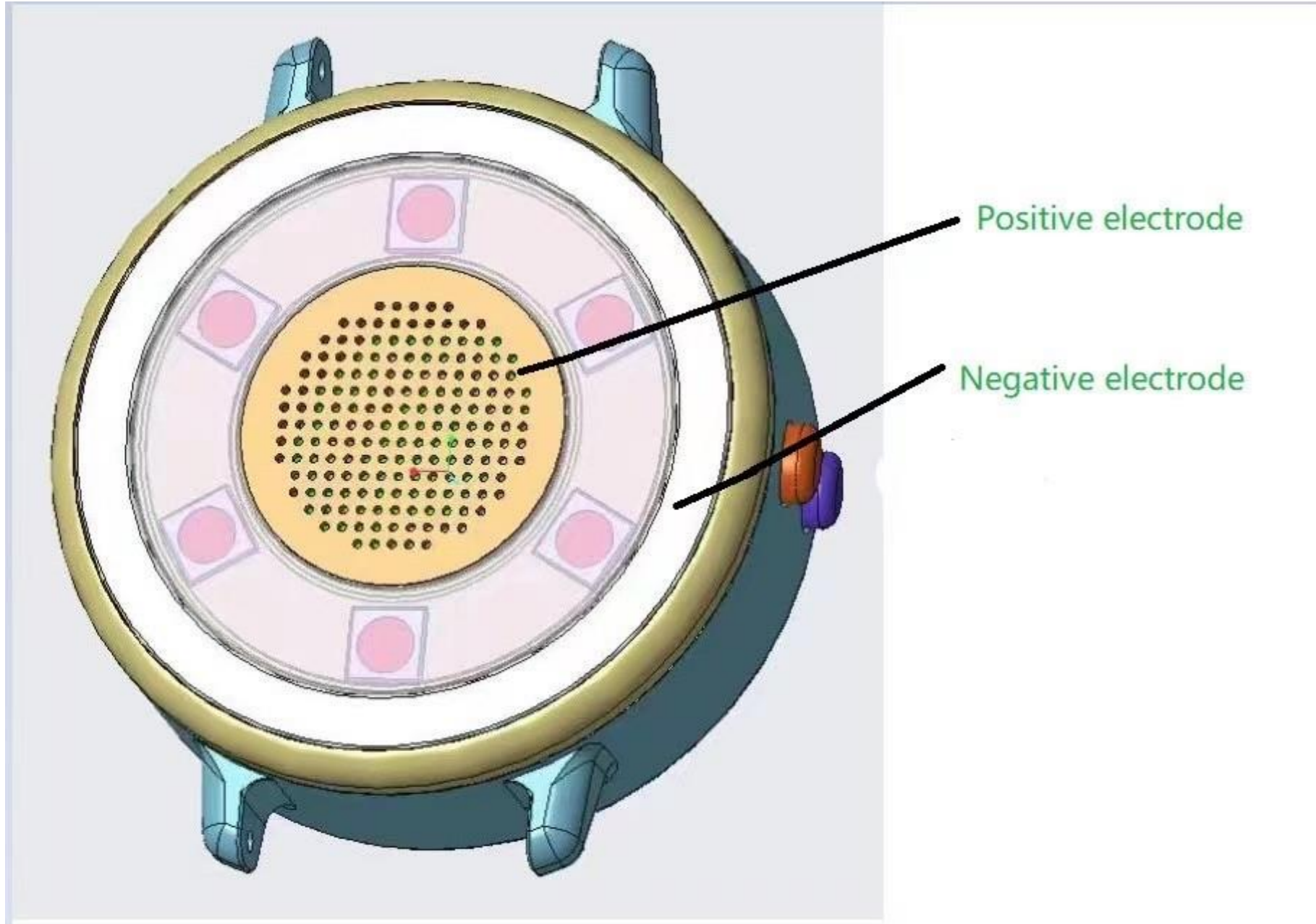




How Does it Work?

1. Transdermal patch, (film cassette) is inserted in the hand wrist device
2. User pulls out the edge of the film's patch cover. This activates a mechanism to push the patch onto the skin
3. SkinGate infuse safely and gently infuses nano-particles medication into the dermal skin layers and safely circulates through blood circulation
4. Non-invasive, safe and affordable solution





Functionality test



SkinGate™ Infuse Market Focus



SkinGate™ infuse can be used in safe and controlled delivery of:

- HRT
- Medicinal Cannabis
- Epilepsy
- Multiple sclerosis
- Cancer treatment (nausea, loss of appetite)
- Pain Management
- Symptom relief in palliative care
- Anti-addiction rehabilitation symptoms (smoking)
- Insulin delivery for diabetic sufferers
- Immunotherapy drugs

/// SkinGate Infuse™ Competitor Advantage

- Digital reminder system to schedule drug intake, informing the user, the full delivery
- Programmable by clinician to control drug administration
- Market saturation of transdermal patches
- Suitable for multiple drugs & administration
- Eliminating potential skin sensitization
- No adhesive discomfort
- Optimised skin adhesion
- Cost effective



Milestones Achieved



Core Technology

LED Multi- Wavelengths
Multiple Energy Sources
Initial Prototype Delivery September
2022



Legal Protections Secured

Design and Purpose Patent filing was registered in
2021



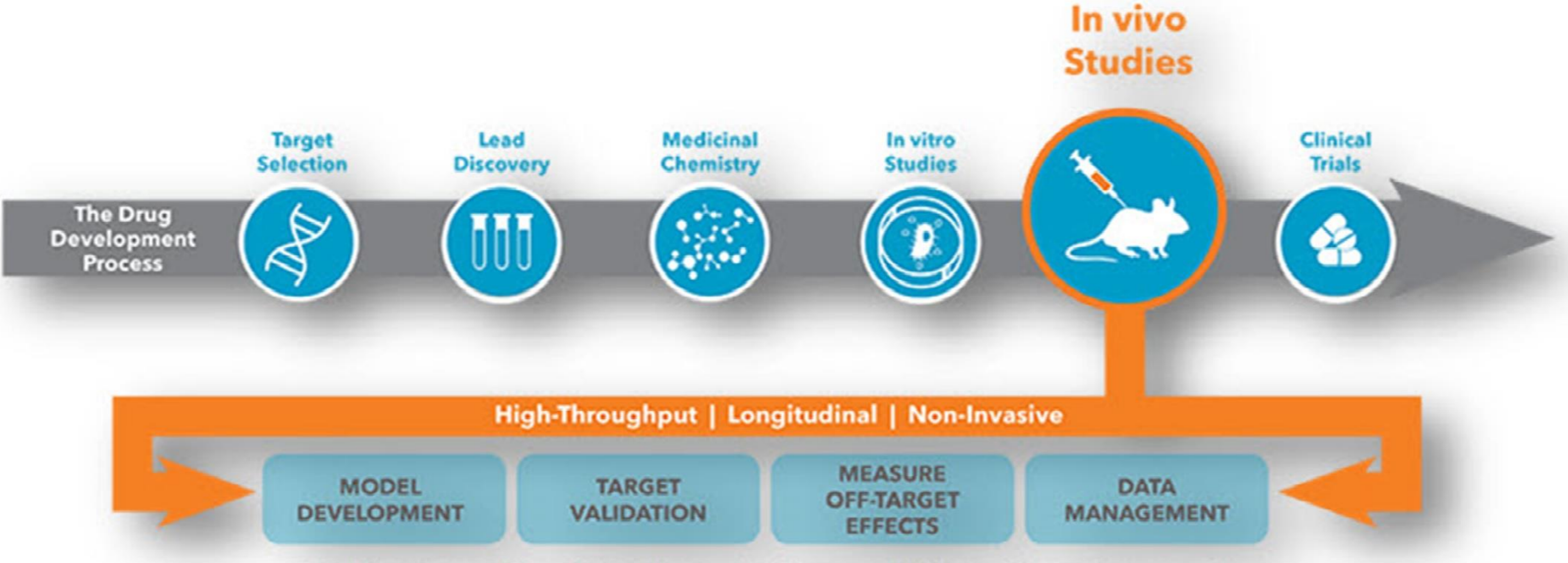
Partner Engagement Underway

Suitable distribution/ licensing partner for
commercial launch activities

Next Steps

1. Secure funding
2. Clinical Assessment of MVP under controlled environment

Phase 1: SkinGate™ Investment



Seeking Capital: \$2.5M

CosmoAesthetics - "SkinGate Infuse"

Congratulations on being amongst the top five finalists of the L'Oreal Innovation Runway 2020!

For any enquiries or questions, do not hesitate to contact us.

We wish you all the best throughout this challenge!

L'Oréal Innovation Runway Team

STARTUP BRIEFING

L'ORÉAL
Innovation Runway 2020



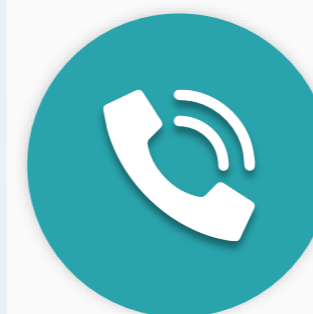
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