INTENZE™

Advanced Tattoo Ink

The scientific approach to safer and most advanced pigments in Tattooing

Challenges during the past years at ECTP Congress

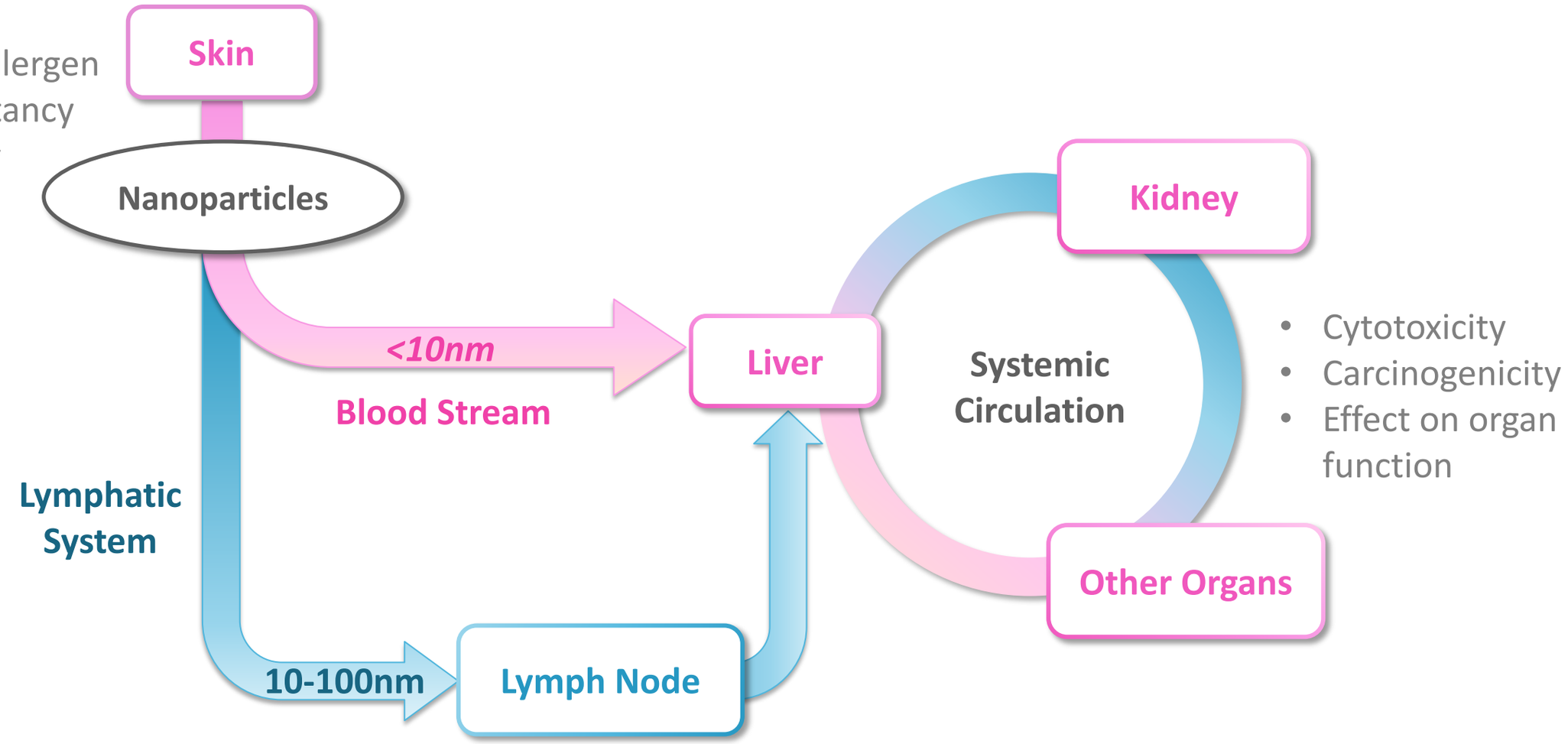
- Use of old and outdated reports and data
- Use of myths and stories about tattoo pigments in 2019 (Mercury in reds and MRI complications, leprosy etc.
- No proper communication between artists-manufacturer and challengers of the tattoo industry
- The industry being seen as uneducated and rebellious against regulations
- Not enough scientific data directly relating to tattoos in Human skin instead of animal data
- The belief by authorities that the industry does not want to conform or be regulated
- Not proper documented research documents about safety and use by pigment manufacturers
- Misunderstanding about proper concentration, placement and importance of wound healing
- Regulators make erroneous conclusion without using scientific data specific to tattooing

INTENZE products always at the forefront of innovation and change

Skin Tattoos: Through the Skin and Beyond, Impact on Human Health

Tattoo Safety – Bioavailability and Systemic Exposure

- Cytotoxicity
- Phototoxicity
- Sensitization/allergen
- Corrosivity/irritancy
- Carcinogenicity



- Cytotoxicity
- Carcinogenicity
- Effect on organ function

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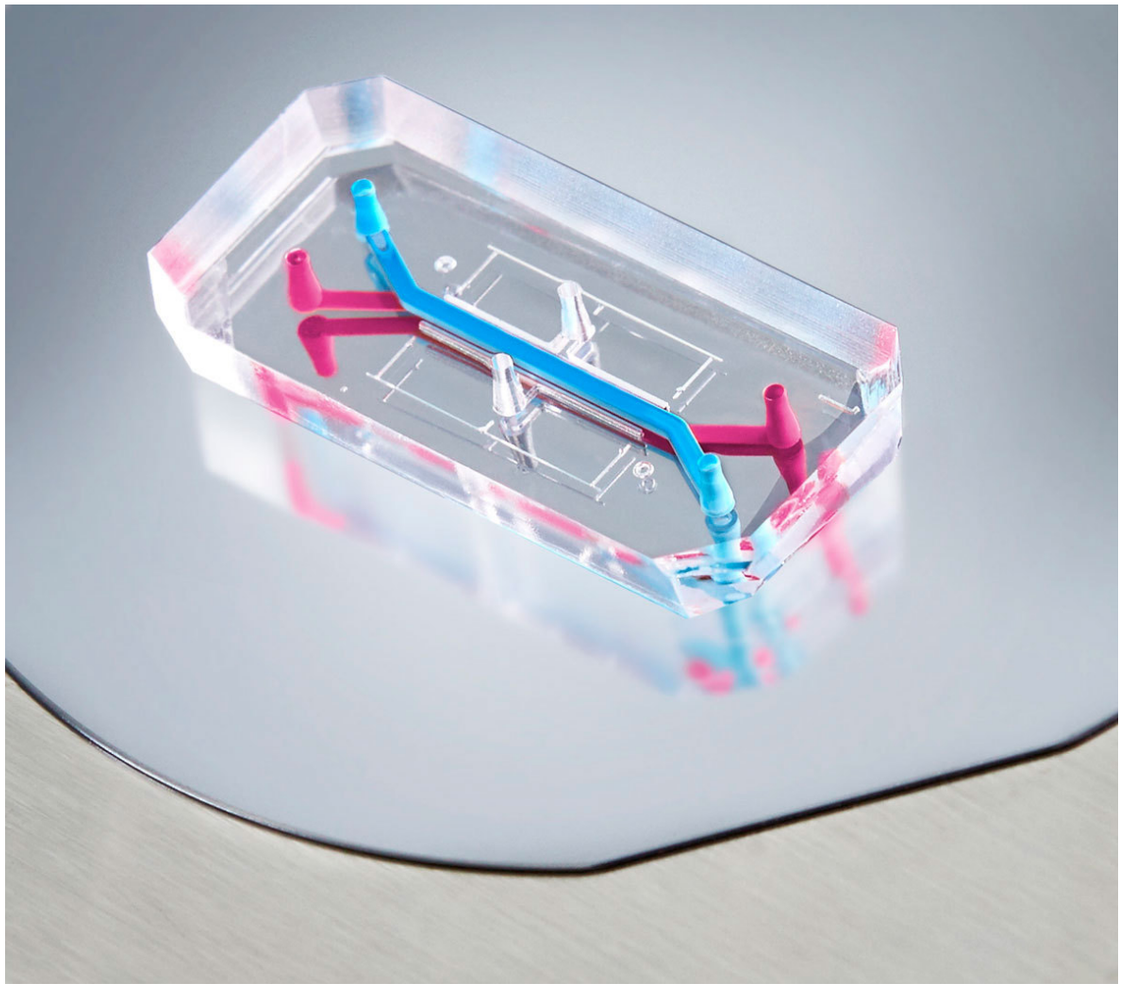
Strategy

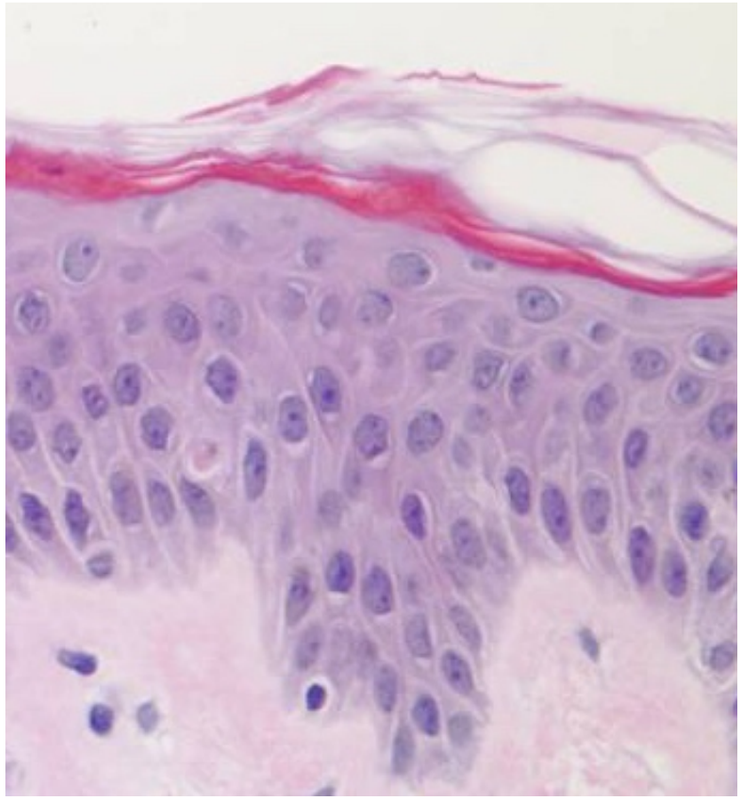
- To use Emulate's skin-chip to establish a better understanding of the cell biology associated with tattoo pigments
- To use Emulate's skin-chip as a model for assessing skin and systemic safety of tattoo pigments without the use of animal models
- To work with regulatory agencies to develop the data sets needed to establish safe parameters for tattoo pigments and their application
- For Intenze to use Emulate's technology to drive "science centric" product development



Skin-Chip

Recreating Native Human Skin

Human Skin



Stratum Corneum

Stratum Granulosum

Stratum Spinosum

Stratum Basal

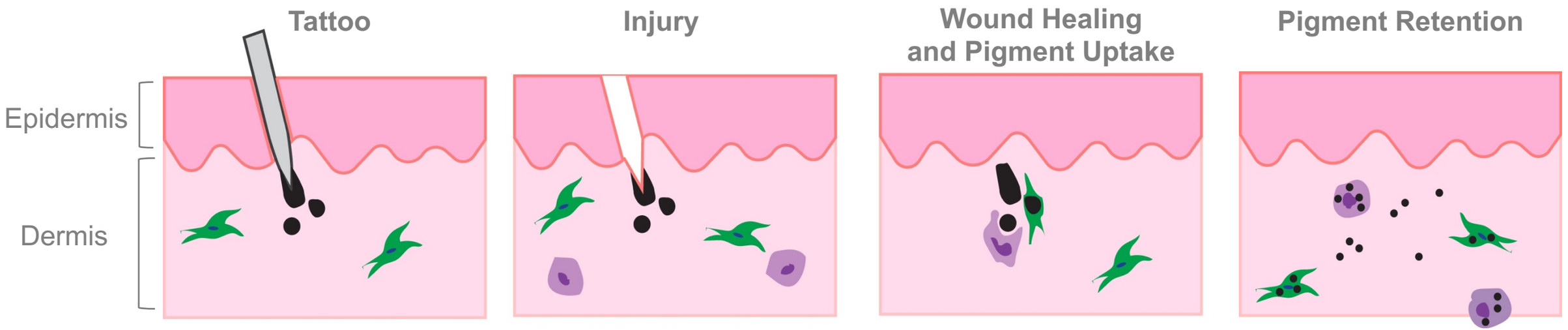
Dermis

Skin-Chip

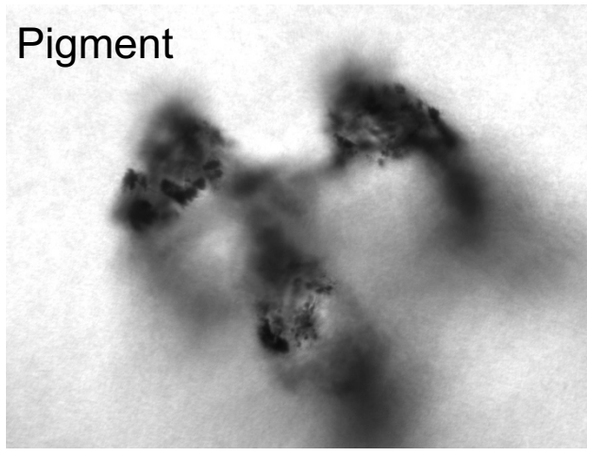
Strategy

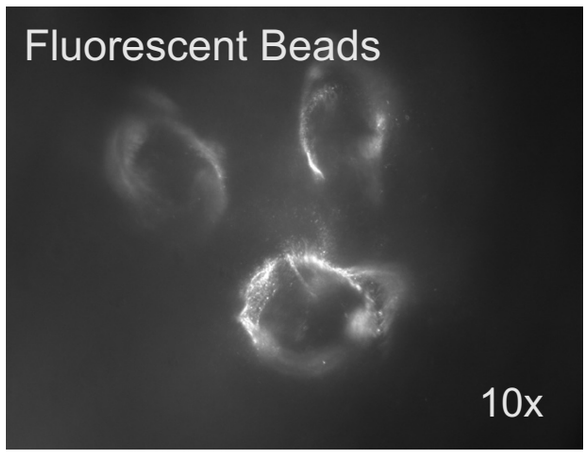
- Emulate's skin-chip recreates and continuous reproduces major features and cellular functions of the human skin
- Emulate is refining its model to provide greater depth into the biology of the skin including effects of immune cells, adipose tissue, mechanical forces, and eventually microbiome.
- To-date Emulate's skin-chip model offers an animal alternative that has been shown to be effective in understanding mechanistic biology and safety, as well as, the potential to gauge systemic safety concerns.

Skin Tattoo using Pigments and Fluorescent Beads



Tattoo on Skin-Chip / Top View





Wound healing cascade and pigment retention in Skin-Chip assessed using Tattoo pigments and Fluorescent beads (size effect)

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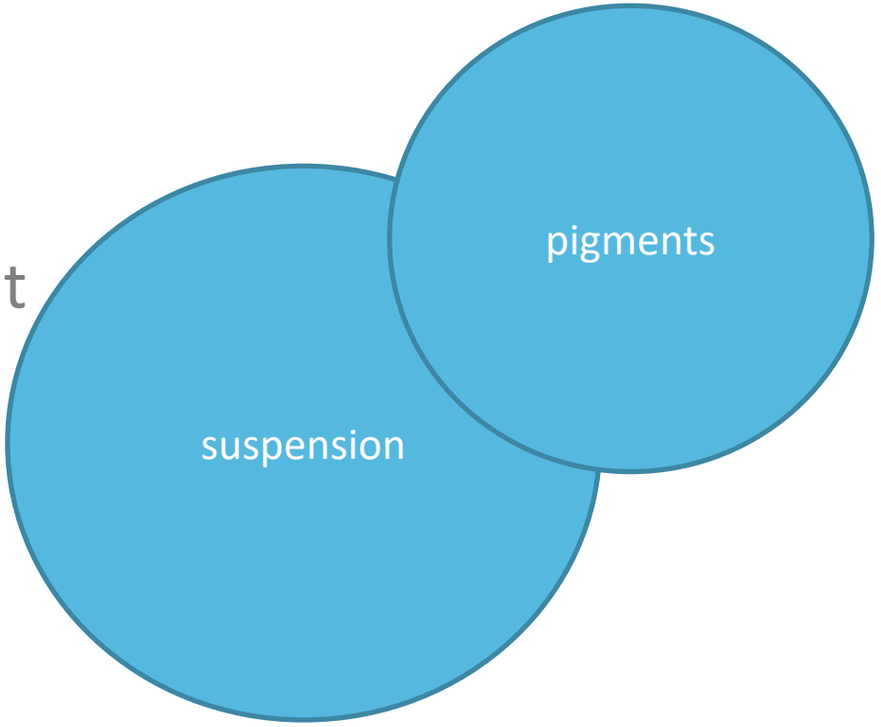
Strategy

- We plan to use the skin-chip to assess optimal particle size for the our pigments in order to create pigments that provide better safety profiles and longer lasting performance.

- Particle Size
- Formulation combination
- Optimizing pigment amount
- Creating perfect stability



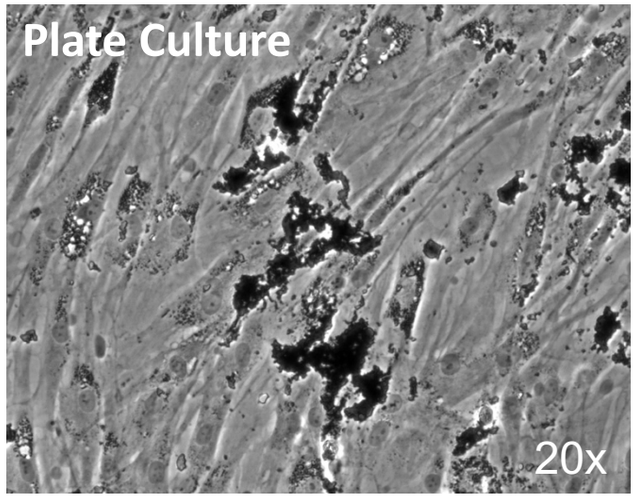
Highly improved Public Health and Safety and better stable product for the artist

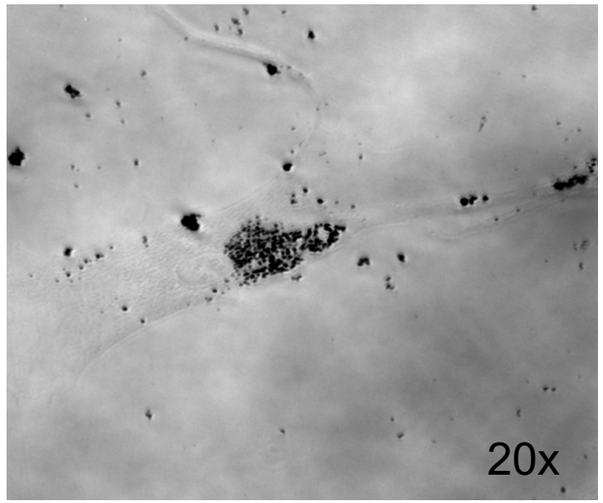
Tattoo Permanence: Pigment Uptake by Dermal Fibroblasts

Fibroblasts contribute to tattoo permanence by engulfing foreign particles

2D

Carbon Black

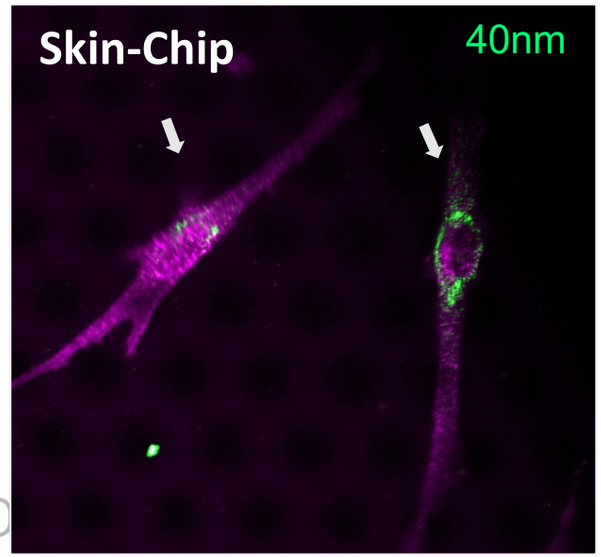


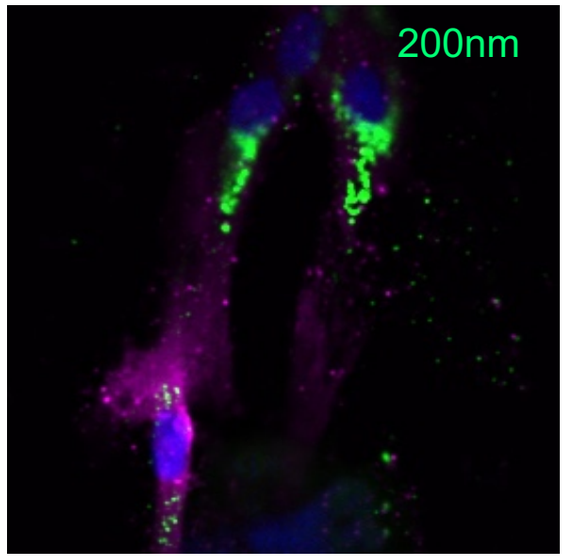


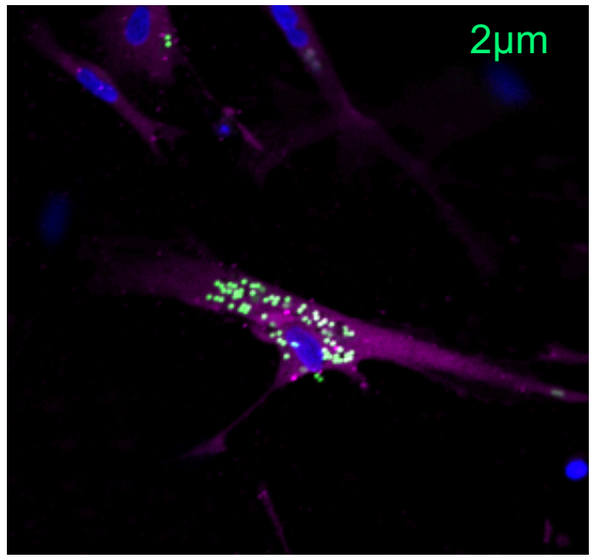
Fibroblast actively uptake and retain tattoo pigments and fluorescent particles of ***all*** size ranges

3D

Fluorescent Beads







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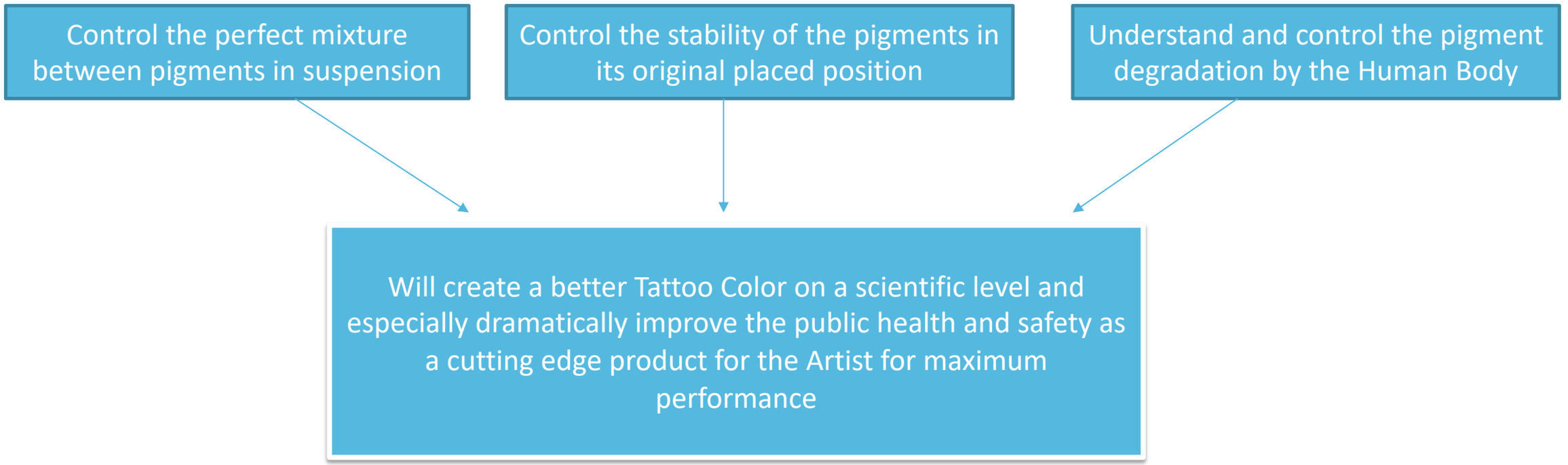
Strategy

- We plan to use the skin-chip to assess interactions with skin cells and immune cells in order to optimize residence and longevity in the skin while minimizing systemic exposure and safety concerns.



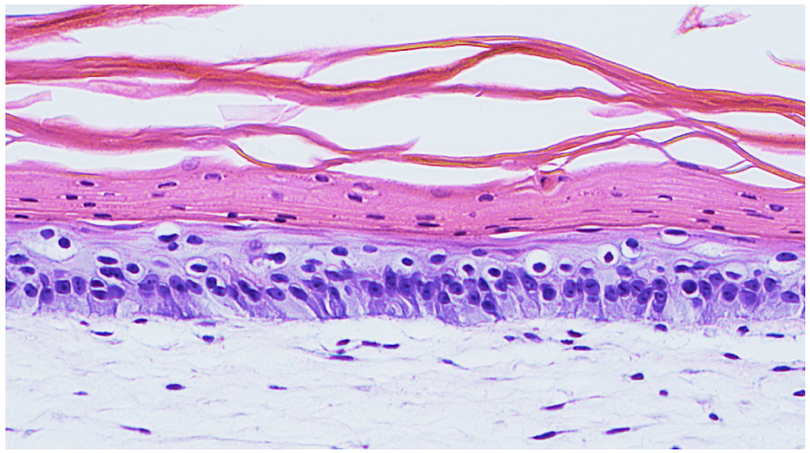
Strategy

- We plan to use the skin-chip to assess how to best minimize wound trauma and scarring at the tattoo sight, as well as, develop ink formulations that speed healing and minimize safety concerns.

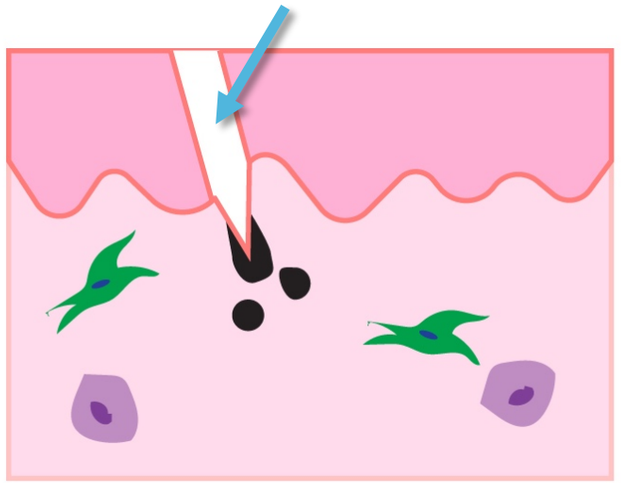
Skin-Chip: Recapitulating Human Skin Function – Wound Healing

The Skin-Chip demonstrates for the first time wound healing capabilities in an *in vitro* human skin model, recreates physiological response to tattoo injury through a cascade of immune response, cell activation and migration, and ECM remodeling

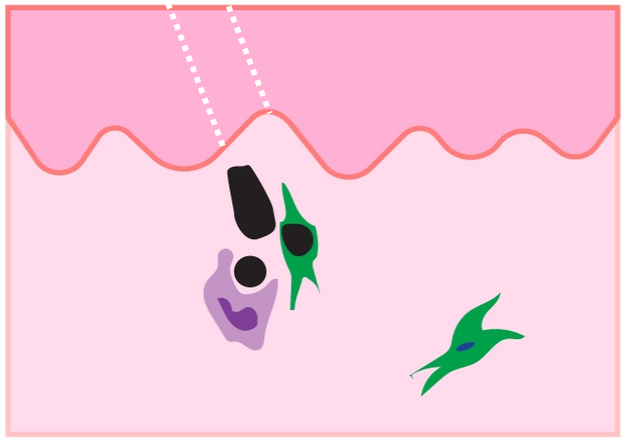
Healthy Skin-Chip



Tattoo Injury



Wound Closure



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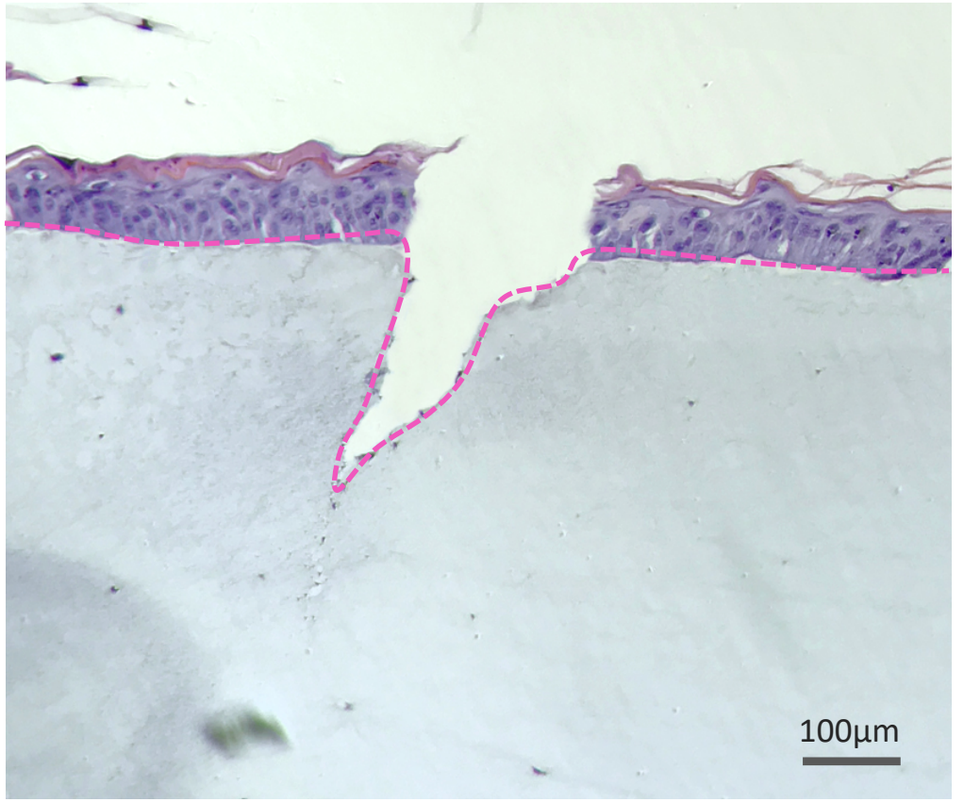
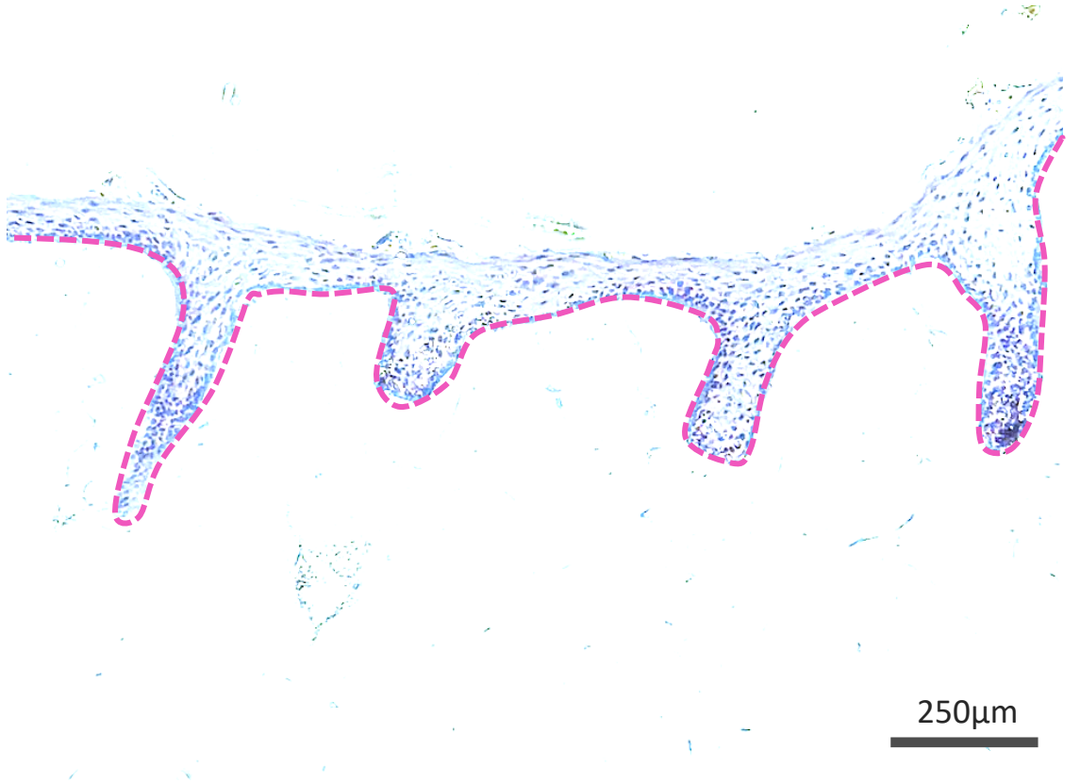
Skin-Chip Shows Wound Healing Following Puncture Wounds

Day 0 – Tattoo Injury



4 Days Post-Tattoo Wound Closure



Skin-Chip is able to heal through epidermal and dermal remodeling of wound site

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Intenze manufacturing has been with March 22nd 2019 officially been certified to operate under ISO 9001:2015
And ISO/TR 22971:2005 guidelines as the first of its kind in Tattoo ink manufacturing

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