

# TigerShark Science

Our hairy skin models help cosmetic and pharmaceutical companies to test their products to enable non-animal and next generation research.

## The Project

This platform technology is a complex human skin model, which represents the architecture of the skin. This skin model, developed from reprogrammed human stem cells (hiPSC), generates complex structures such as hair, sebaceous glands and nerves. For this reason, it can be used for different applications. With the help of discussions with leading pharmaceutical and cosmetics companies, we were able to filter out the needs of the industry (e.g. skin cancer models) and adapt the requirements to our test system. Personalized testing will be of great interest to for our customers in the coming years and we are focus on iPSC of patients. In addition, genetic skin diseases can be reproduced with the help of genetic modification (CRISPR/Cas). Furthermore, due to the high scale up techniques, our test model is less expensive than existing models.

## The Team

**Location:** Fraunhofer ISC Würzburg

**Members:** Dieter Groneberg (Team Leader), Florian –Groeber-Becker (Team Member), Amelie Reigl (Team Member)

**AHEAD Infos** Batch: 2023

Phase: 2

Track: Spin-Off

## The Business Model

**Unique Selling Proposition:**

Our skin models represent the human skin in its complexity and possess structures such as hair, all skin layers with its skin cells. This can no test system that is currently on the market. We can upscale and have the expertise for analysis of this skin models.

**Unfair Advantage:** Patent from ISC FhG (F63720)  
+ Secret know how (patent in preparation)

**Revenue Model:** Sales, analysis service

## Venture Readiness Level



## Technology Readiness Level



## The Side Facts

**Customer Focus:** B2B

**Searching For:** Head of finances!  
investors, mentors, advisory board

**Industry Tags:** health care, pharma, cosmetic

**Technology Tags:** bioengineering