

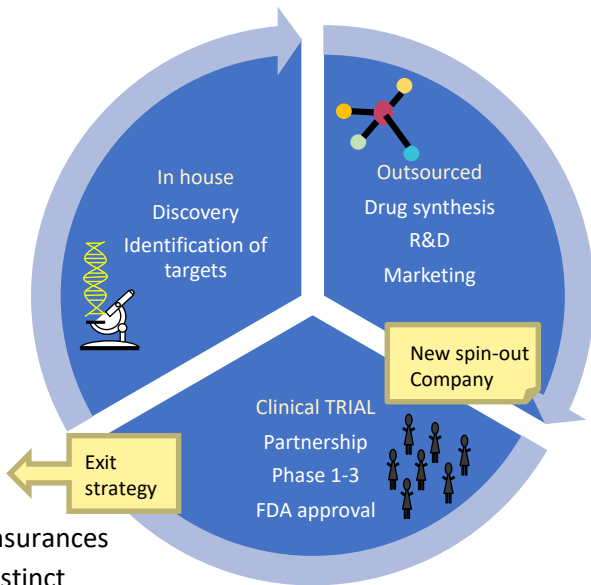
We develop new drugs to activate eggs in infertile women

Opportunity

- The global fertilization market is projected to reach \$ 27 Billion by 2022 (Grand View Research, Inc)

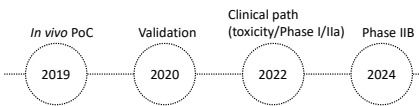
Market drivers

- Aging population
- Obesity
- Increased awareness
- Reimbursement and insurances
- Strong reproductive instinct



Assets

- Growing market
- Strong scientific team (Scientific researchers >10 years of follicle expertise, fertility consultants, strong records in animal modeling) and management (experienced Business developers)
- IP rights
- Soft funding for further development



Technology Description

Our invention is based in specific data sets that analysed global expression of genes during the earliest stages in egg maturation. We identified novel potential targets and are currently developing new drugs to enhance activation of dormant eggs in the ovary. The targets identified are highly present in the early egg cells and through proof of concept *in vitro* and *ex vivo* studies, we showed that pharmacological treatment could promote activation of the earliest egg cells.

We are working towards maturing the technology in a spin-out company.

Intellectual Property Rights

Patent applications: PCT/EP2018/064359 (June 2018) and PCT/EP2018/086239 (December 2018).

Current State

In vitro and *ex vivo* proof-of-concept has been established. Currently, lead compounds are being developed for the validated targets. The project is, at this stage, funded by soft funding.

In vivo confirmation, CMC and toxicity studies initiated. Phase I/IIa clinical trial is expected in 2021/2022.

Team



Associate Professor
Karin Lykke-Hartmann
Scientific lead and
project management



PhD Per Horn
Business and
project management



Technician Anders Heuck
Single cell techniques



Postdoc Mahboobeh
Amoushahi,
Cellular cultures and
translational models



Professor Erik Ernst
Fertility treatment

Call to action

We are looking to develop collaborations and partnerships for registration studies with companies that has experience in fertility treatment.



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