

# JASMINE PRO

## CONTACT

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## DETAILS

Research to Business Project

Prerevenue

Est. incorporation: Aug 2023

Institute: Abo Akademi University

Project Budget: €950k

Future Seed round: €2-3 M

## TEAM

Sebastian Soidinsalo, MSc, MBA  
Commercial Lead



Erica Sjöholm, PhD, MBA  
Business Dev. Manager



Kuldeep Bansal, PhD  
Laboratory Lead



Prof. Jessica Rosenholm  
Co-Scientific Director



Prof. Carl-Eric Wilén  
Co-Scientific Director



## AFFILIATIONS

Business Finland - Personalized Health

Health Incubator Helsinki

SPARK Finland

## UNMET NEED

Poor drug solubility is a problem that halts progress of 60-90% of preclinical drug molecules early in development. In total, this means hundreds of drug candidates failing due to bioavailability issues. Pharmaceutical companies are sourcing for new technologies that can help with solubility of their preclinical drug candidates as this would help move forward with difficult drug molecules and ultimately save cost in R&D and bring superior benefits to patients such as less adverse effects and more effective therapies.

## SOLUTION

Poly(jasmine lactone) (PJL) is a proprietary polymer that can be used to increase solubility of poorly soluble drugs. A poorly soluble drug can be multiple thousand fold more soluble when incorporated into a polymeric solubilizer. PJL has a industry-leading drug loading capacity, that allows for longer dosing intervals and better bioavailability and it can be tailored for various drug molecules and conjugation chemistries.

### Applications of PJL:

- Solubility enhancement
- Oral, subcutaneous and I.V. formulations
- Easy incorporation of linker and targeting chemistries with click chemistry

### Unique Technical Benefits:

- Customizable for various chemistries and drug molecules
- High Drug Loading

### Pharma Benefits:

- Reduced R&D attrition due to low solubility
- Improved efficacy, toxicity profiles and pharmacokinetics

## MARKET SEGMENTS

Industry Total Addressable Market (Advanced Drug Delivery): \$132B  
CAGR: 6.1%

### Polymeric Solubility Enhancement:

Total Addressable Market Estimated \$1-2B

Target Market Share: 1-5%

Annual Estimated Revenue: \$10M – \$100M

### Polymeric Micelle Drug Delivery

Total Addressable Market: \$8B

Value benchmark of clinical assets:

Phase III Cylvolq sold to Nant Pharma: \$90M upfront and \$1.2B in milestones

Target market share: 1-5% of new polymeric micelle drug development assets via partnerships and/or own development. Target market size: \$80M-\$400M with 80-90% of market value going to the pharma company → 8-80M\$ expected annual revenue.

Potential partners: small and midcap biotech and big pharma

Potential acquirers: BASF, Merck KGa, Bayer, Astra Zeneca

## COMPETITION

Many companies working with drug solubility enhancement using different technologies (e.g. Nanoform). No one technology is optimal for all drugs, but the market will remain fragmented with multiple opportunities for value creation.

**Companies on the market:** Nanoform, BASF, Nanocarrier, Cristal Therapeutics

## IP & PUBLICATIONS

### Advanced Functional Materials, Impact Factor = 17,09

Bansal et al. (2021) Synthesis and Evaluation of Novel Functional Polymers Derived from Renewable Jasmine Lactone for Stimuli-Responsive Drug Delivery  
DOI: <https://doi.org/10.1002/adfm.202101998>

**PCT/FI2020/050579** POLYMER AND COMPOSITION FROM RENEWABLE SOURCE  
Patent pending for the synthesis and structure of poly(jasmine lactone). Patent granted in Finland.