

JasminePRO



Poly(jasmine lactone): A Versatile Platform for Drug Delivery

Drug development for the effective treatment of diseases is usually a costly affair for the pharmaceutical industry. Failure of new or existing drugs in a new form in clinical trials or withdrawal of a drug from the market brings enormous financial loss to the companies. The most apparent reason for failed preclinical studies/clinical trials or withdrawal from the market is serious side effects, which outweigh their efficacy. Our proposed invention is intended to overcome the limitations associated with already existing polymers currently used to design polymer-drug conjugate based controlled drug delivery systems (CDDS). With our technology, we are offering a multifunctional, versatile, renewable, and biodegradable polymer: poly(jasmine lactone) produced through an eco-friendly route as a cost-effective alternative for drug delivery applications. The versatility of PjL offers the opportunity to generate CDDS with a tunable design based on the desired application (nanotechnology-based, stimuli-responsive, or simple polymer-drug conjugate, which can be formulated as generic tablets).

SPARK VALUE: We are confident that with the support of the SPARK program, we can discover the right direction to translate our invention from the lab to the clinics. We are expecting to develop relevant networks and partners which altogether aid in the commercialization of our research results. The valuable feedback and suggestions from the SPARK mentors will enable us to take necessary steps to achieve our goals successfully.

Dr. Kuldeep Bansal

Project Manager - JasminePro

Kuldeep has a Ph.D. degree in the pharmacy discipline. His research mostly involves the synthesis of polymers from renewable resources for improved delivery of hydrophobic and toxic drugs. He is currently working as a senior researcher at Åbo Akademi University exploring commercial potential of the invented polymers.



Erica Sjöholm

Business Promoter - JasminePro

Erica has a B.Sc. and M.Sc. degree in pharmacy. Her Ph.D. project has been conducted in collaboration with a pharmaceutical company, and she has started an MBA in Pharmaceutical and Healthcare Business at the University of Sciences in Philadelphia, Pennsylvania, USA. She is contributing to the project both as a researcher with expertise in drug delivery as well as a pharma expert (marketing).

