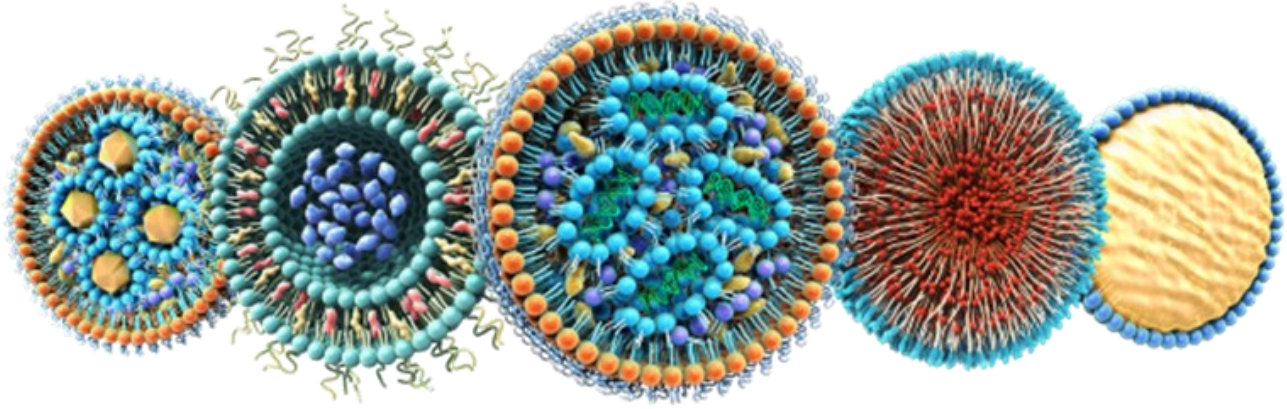
Rapid development and scale-up of drug delivery nanoparticles using a microfluidic platform

Thursday 28th June 2018



You are invited to attend this free seminar

Microfluidic devices have been broadly used to produce nanoparticles for genetic medicine, vaccines, and drug delivery systems for small molecules, proteins, and peptides. Compared to conventional methods, microfluidic production offers superior control, reproducibility and scalability of the nanoparticle production process that promises to overcome significant challenges in the translation of these therapeutics: Fine control of process parameters afforded by microfluidics, allows optimisation of nanoparticle quality and encapsulation efficiency. Automation improves the reproducibility and optimisation of formulations. Furthermore, the continuous nature of the microfluidic process is inherently scalable, allowing optimisation at low volumes to conserve scarce or costly materials, and seamless scale-up of optimised formulations by employing multiple microfluidic mixers performing identical unit operations in parallel. This session will cover examples from literature highlighting how users of this technology are revolutionising medicine. Additionally, original data will be presented to demonstrate how the technology is used to accelerate all stages of nanomedicine development from discovery to manufacturing.

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Guest speaker

Peter S. Johnson, PhD, Field Application Scientist, at Precision NanoSystems Inc is based in Boston, Massachusetts and responsible for field applications and technical support in the East region, USA. With over 14 years with Licor Bioscience, a global biotechnology company, he was responsible for supporting customers worldwide for near-IR fluorescence imaging. Dr. Johnson is an expert in supporting drug discovery R&D and also involved in creating new applications for nanoparticle delivery of therapeutic agents.

VENUE:

University of Melbourne, PAR-Old Physics-G16 building 128 (Jim Potter Room)

TALK/ DEMO:

10.30am-11.30am. Following our presentation the NanoAssemblr Benchtop and Spark systems will be available for demonstration.

REGISTRATION:

Please register using the online form https://www.atascientific.com.au/awards-events-training/upcoming-training

RSVP: 27 June 2018 For further information call **02 9541 3500** or email enquiries@atascientific.com.au