Aims & Scope: Microfluidics is a recent advance in formulation science that is a superior method for the synthesis of uniform nanoparticles for drug delivery and related applications and for studying their formation using in situ analytics. Using microfluidics, small volumes of liquid reagents are rapidly mixed in microchannels in a highly controlled manner to form tunable nanomedicines for tailored drug delivery. Commercially available microfluidics systems are now available to enable production at relevant scales for manufacturing application. Coupling the microfluidics systems to advanced analytical methods such as microscopy, spectroscopic techniques and X-ray diffraction enables enhanced understanding of particle formation mechanisms and structure.

This Special Thematic Issue of *Pharmaceutical Nanotechnology* will highlight recent state-of-the-art advances in the utilization of microfluidics for the design of nanomedicines. Particle formation and in situ particle functionalization are a focus, with studies on polymer and lipid-based particles being a feature. We also aim to illustrate the breadth of approaches and applications that are possible with this technology.

Keywords: Nanomedicine, microfluidic mixing, biomaterials, drug delivery

Subtopics:
The subtopics to be covered within this issue are listed below:

- Design, characterization and optimization
- Functionalization
- Delivery of bioactives (including mRNA, antioxidants, vaccines)
- Monitoring and diagnostics

Schedule:

- Manuscript submission deadline: 1 March 2019
- Peer Review Due: 15 April 2019
- Revision Due: 17 May 2019
- Announcement of acceptance by the Guest Editors: 3 June 2019
- Final manuscripts due: 1 July 2019