

# Microfluidic-enabled Manufacture of Nucleic Acid-based Lipid Nanoparticles: Modulating Gene Expression from the Bench Toward the Clinic

Presented by Peter Johnson, PhD - Precision NanoSystems Inc.

**When:** Wednesday November 15, 2017.  
10:00 - 11:00 am

**Where:** W203 Millennium Science Building

**Discover why microfluidic manufacturing is the ideal method for generating lipid nanoparticles, including:**

- How to apply this technology for in vitro and in vivo gene editing
- How to deliver nucleic acids from oligo size up to 20 kb plasmids
- How to achieve up to 95% transfection efficiency with no toxicity in primary cells
- How to optimize formulations for targeted delivery through formulation parameters
- How to scale from microliter to liter batch sizes without redesigning the process

## Coffee and treats will be served.

### About Precision NanoSystems Inc (PNI)

Precision NanoSystems Inc. (PNI) creates innovative solutions for the discovery, development and manufacture of novel nanoparticles for use as medicines and in medical research. PNI's proprietary NanoAssemblr Platform enables the rapid, reproducible, and scalable manufacture of next generation nanoparticle formulations for the targeted delivery of therapeutic and diagnostic agents to cells and tissues in the body. PNI provides instruments, reagents and services to life sciences researchers, including pharmaceutical companies, and builds strategic collaborations to revolutionize healthcare through nanotechnology.



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