

# Join us for a scientific event

## Technical talk program

The talks will feature new innovations in Protein Expression, Synthetic Biology (CRISPR and Gene Synthesis), and Flow Cytometry. Scroll below to see the abstracts.

Tuesday, October 20, 2015

Institution: Johns Hopkins University

Room: Tilghman Auditorium

Time: 10:30 a.m.–2:00 p.m.

Refreshments will be served.

To register for this event, go to: [thermofisher.com/eventregistration](http://thermofisher.com/eventregistration)

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# Agenda

## 10:30–11:30 a.m.: GeneArt® gene synthesis, directed evolution services and update on CRISPR/Cas9 genome editing products and services

Presented by Abby Sukman (Technical Sales Specialist – Synthetic Biology)

Seminar will provide an overview of our comprehensive synthetic biology portfolio. Topics include: GeneArt® gene synthesis, gene to protein services, directed evolution, off the shelf engineered cell models and improved methods for genome engineering with our newest CRISPR/Cas9 tools.

Everything you need to know for antibody and enzyme engineering, optimized protein expression, generating cell-based models and therapies, testing for causality between DNA Polymorphisms and human disease, and engineering genetically modified cell lines and transgenic animals.

## 11:30 a.m.–12:30 p.m.: The Past, Present and Future of Transient Protein Expression

Presented by John Zmuda (Sr. R&D Manager for Cellular Biology)

The development of the Expi293, and the newly-released ExpiCHO, high-titer transient protein expression systems have revolutionized the expression of recombinant proteins in mammalian cells. Both Expi293 and ExpiCHO comprise high-density, high-expressing cell lines, a media specifically matched to the growth properties of the cells, expression enhancer and feed supplements and a high-efficiency transfection reagent. Both systems are able to generate gram/liter protein yields, allowing researchers to choose either a human HEK293 cell line or a CHO cell line for protein expression depending on the requirements of their research. The two systems, however, differ from each other in some key aspects that will be highlighted in this session and recommendations will be provided for instances where one system may be preferable to the other.

## 1:00–2:00 p.m.: Application of Novel Reagent Solutions and Acoustic Focusing Technology in Flow Cytometry

Presented by Cliff Ramsdel (North American Market Development Manager - Flow Cytometry)

This seminar will present advancements in reagents, applications, and next generation instrument technology to characterize cell function. Topics will include viability and apoptosis, site-specific antibody labeling, proliferation and cell tracing, no-lyse/no wash blood applications using acoustic cytometry and an introduction to acoustic focusing flow cytometry that enables sample input flow rates of up to 1ml/min.

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