

# Join us for a technical seminar

Learn about real-time PCR and emerging applications

## Tuesday, May 17, 2016

**Institution:** Colorado State University - Main Campus  
**Location:** Pathology Building  
**Room:** 103  
**Time:** 9:00–11:00 a.m., refreshments will be served

### Real-time qPCR basics - 9:00 a.m.

This session provides a basic understanding of real-time PCR. This seminar includes an introduction to real-time PCR terminology, reaction components, amplification, assay design, optimization, and reference and control options.

### Demystifying real-time PCR cycle threshold - 9:40 a.m.

Are early cycle thresholds really better? By understanding what factors affect changes in this intermediate value, researchers can determine the best path for completing real-time PCR experiments with confidence. This includes working with both DNA and RNA in relation to input starting material, reaction efficiency, and reverse transcription.

### Applications and solutions - 10:20 a.m.

This seminar reviews associated applications when working with DNA, RNA, and protein analysis. DNA applications include mutation detection, single nucleotide polymorphisms, and high resolution melt. RNA applications reviewed are gene expression and small RNA. The final section of the talk examines protein expression and thermal shift applications.



Mike Troutman has worked in the genomics industry for over 25 years. He graduated from UCSD with a degree in microbiology. He has a

background in research and development with qPCR multiplex optimization for high-throughput screening of cohorts relating to human disease. Mike was a field application scientist for over 12 years, covering many areas, including qPCR, sequencing, and microarrays. He also has over 8 years of experience in qPCR training in the areas of field applications, sales, and the development of e-learning tools.

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

To find out more, contact:

Bill Hansen  
720 837 8694  
[william.hansen@thermofisher.com](mailto:william.hansen@thermofisher.com)

**ThermoFisher**  
SCIENTIFIC