

Join us for a technical seminar

Learn about real-time PCR and emerging applications

Thursday, October 20, 2016

Institution: University of Saskatchewan - Western College of Veterinary Medicine

Room: 2115

Time: 10:30 a.m.–4:30 p.m. (Registration, 10:30–11:00 a.m.), refreshments will be served

Real-time qPCR basics, 11:00 a.m.–12:00 p.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.

Product evaluation strategy: qPCR master mix, 1:00–2:00 p.m.

Concerned about selecting the correct product? Find out how to properly evaluate any product by following simple guidelines customized to fit individual needs. This seminar delivers a flexible systematic approach for criteria selection, weighting, scoring, and determination of the best overall performing product.

Demystifying real-time PCR cycle threshold, 2:00–3:00 p.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.

qPCR Multiplex Optimization, 3:00–4:00 p.m.

This presentation will review the strategies for multiplex generation, optimization and validation. This will include a review of dyes and spectral overlap, quenchers and minor groove binders, multiplex probe combinations for gene expression and genotyping, passive reference dyes and primer and probe design.

Applied Biosystems™ TaqMan™ Protein Assay II: fast and sensitive, 4:00–4:30 p.m.

Learn more about this new and exciting area of protein analysis using real-time PCR. Combining the best of two worlds, this highly sensitive assay combines protein selection through antibody binding coupled with real-time PCR detection. This new version can detect targets with 10x less cells in half the time of standard assays.

To register for this event, go to: thermofisher.com/eventregistration

To find out more, contact:

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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.

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