

CANCER CENTER GRAND ROUNDS

October 2009

October 6 is a special Technical/Education Seminar instead of a Grand Rounds Seminar

“Mechanism of Invasion and Treatment for HPV related HNSCC”

John Lee, M.D.

Surgeon/Scientist, Sanford Cancer Research Center
Sanford ENT-Head and Neck Surgery
Associate Professor, Sanford/University of South Dakota
Sioux Falls, SD

Tuesday, October 13, 2009
12:00 -1:00 p.m.
5.521 Levin Hall

*Lunch served at 11:30 a.m.
Everyone is Welcome*

Technology Seminar:

“Gene and miRNA Expression, CpG island Methylation Status and ChiP Analysis using PCR Arrays”

*Presented by Dr. Sam Rulli, PhD.
Staff Scientist, SABiosciences*

Tuesday, October 20th, 2009
12:00 – 1:00 PM
5.521 Levin Hall

The RT² Profiler PCR Array from SABiosciences is a simple and accurate technology platform that can be used in any research lab with any 96 or 384 well real-time PCR instrument. Scientists at SABiosciences have developed over 100 different pre-validated pathway-focused PCR Array panels to study different diseases or cellular signaling pathways. You can use PCR Arrays to study gene expression associated with a biological pathway or disease such as cancer, apoptosis, inflammatory response, stem cells and development, and much more. We have also expanded the application of PCR Arrays to include epigenetic regulation of gene expression by developing PCR Arrays for microRNA expression, CpG island methylation status, and ChiP. This 45 min seminar will focus on the principals of PCR Array technology. First we will highlight the analysis of gene and miRNA expression analysis during stem cell differentiation using the RT² Profiler and RT² miRNA PCR Arrays. We will then demonstrate how we are using the Methyl-Profiler PCR Array to study the hyper-methylation status of CpG islands without bisulfite sequencing. Lastly we will look at using the ChampionChiP PCR Array for ChiP analysis. The simplicity of the PCR Array system includes a FREE web-based data analysis portal, making data analysis fast and very straightforward. Find out how you can accelerate your gene expression and epigenetic research by using our pre-validated PCR Array system.

*Lunch served at 11:30 a.m.
Everyone is Welcome*

“Physiologic Modeling of Lymphatic Metastasis”

Vicente A. Resto, M.D., Ph.D., F.A.C.S.

Interim Chair, Department of Otolaryngology
Co-director, Center for Cancers of the Head and Neck
Assistant Professor, Otolaryngology-Head & Neck Surgery
Neurosurgery and Biochemistry and Molecular Biology
The University of Texas Medical Branch at Galveston

Tuesday, October 27, 2009
12:00 -1:00 p.m.
5.521 Levin Hall

*Lunch served at 11:30 a.m.
Everyone is Welcome*

Special Technical/Educational Seminar – NOT A GRAND ROUNDS SEMINAR

“Microfluidic Technology Enabling Advances in microRNA Research”

Presented by Christoph Eicken, Ph.D. – LC Sciences LLC

Tuesday, October 6, 2009
12:00 – 1:00 p.m.
5.521 Levin Hall

An advanced microfluidic biochip system designed to produce high quality data, stay current with the rapidly evolving microRNA field, and perform diverse small RNA discovery experiments is presented.

This technology’s unique flexibility allows for miR Base synchronicity and design of customized biochips adapted to each researcher’s specific needs. Applications featuring disease marker discovery, drug treatment, microRNA target screening, and small RNA discovery are highlighted.

*Lunch served at 11:30 a.m.
Everyone is Welcome*
