CRCR New Frontiers Symposium 2012:
Nanotechnology in Cancer Research and Treatment

9:00 a.m.  Dr. Dana Crawford (Albany Medical College), Chair, Capital Region Cancer Research (CRCR)
Introductory remarks and welcome on behalf of the CRCR group and Bioconnex

9:05 a.m.  SESSION 1 - Chairs: Dr. Mike Gerdes (GE Global Research), Dr. Ramune Reliene (UAlbany)

9:05  Dr. Magnus Bergkvist (College of Nanoscale Science and Engineering-CSNE)
"Targeted Photodynamic Cancer Therapy via Aptamer-Virus-Porphyrin Nanoconstructs"

9:30  Dr. Nadine Hempel (CNSE)
"Nanoscale Approaches to Study and Target Metastatic Bladder and Ovarian Cancer"

9:55  Selected Graduate Student Abstract for Oral Presentation
James K Williams (CNSE)
"An Implantable Microdevice to Study Cancer Cell Chemotaxis in vivo"

10:05 Coffee Break

10:20  Dr. Shaker Mousa (Albany College of Pharmacy)
"Role of Nano Targeting in the Detection and Treatment of Various Types of Solid Tumor"

10:55  Dr. Hasan Mukhtar (University of Wisconsin)
"Nanochemoprevention by Dietary Agents: A Novel Approach for Controlling Cancer"

11:45  Selected Graduate Student Abstract for Oral Presentation
Nicholas M Fahrenkopf (CNSE)
"Solid State DNA Sensor for the Study of DNA Damage"

12:00 p.m. POSTERS AND LUNCH

1:15 p.m.  SESSION 2 - Chairs: Dr. Bruce Herron (Wadsworth), Dr. Patrick Maxwell (RPI)

1:15  Dr. Dan Meyer (GE Global Research)
"Characterization of Tumor Vasculature by MR Imaging Using a New Iron Oxide Nanoparticle Contrast Agent"

1:40  Dr. Sara Hook, (Nanotechnology in Cancer Program- NCI)
"The Impact of Nanotechnology on Cancer Detection and Therapy"

2:20 Coffee Break

2:35  Dr. Jan Paluh (CNSE)
"Nano-Micro Patterning of 3D Cell Assemblies and Molecular Machines Provide New Tools in Cancer Research and Therapy"

3:00  Dr. Mehmet Yigit (UAlbany)
"Magnetic Nanoparticles for Noninvasive Cancer Imaging and Therapy"

3:25  Dr. Nathaniel Cady (CNSE and Wadsworth collaboration)
"A Microfluidic Surface Plasmon Resonance (SPR) Platform for Capture and Analysis of Circulating Tumor Cells"

3:50  Selected Post-Doc Abstract for Oral Presentation
Prasad Kovvuru (UAlbany)
"Assessment of Genotoxicity of Silver Nanoparticles in MYH Deficient and Wild Type Mice"

4:00 p.m. Closing Remarks and Student Travel, Trainee Oral Presentation, and Poster Awards