



## QED Participant Archive 2009 – 2013

### ROUND 6

**Roy Stevens, DDS, M.S., (Temple University)**

*Development of a therapeutically-useful bacteriophage for treatment of antibiotic-resistant Enterococcal infections*

**Jonathan Soboloff, Ph.D. (Temple University)**

*Inhibition of bone erosion using haloanalides as blockers of osteoclast differentiation*

**Samuel Gunderson, Ph.D. (Rutgers University)**

*In vivo validate therapeutic ligand-coupled anti-KRAS U1 Adaptors for pancreatic cancer*

**Chao Zhou, Ph.D. (Lehigh University)**

*Ultrahigh Speed Optical Coherence Tomography and Its Applications*

**James Pilla, Ph.D. (University of Pennsylvania)**

*Minimally Invasive Optimal Reshaping of the Dilated Heart*

**Benjamin Blass, Ph.D. (Temple University)**

*GLT-1 Expression Modulator Useful for the Treatment of Amyotrophic Lateral Sclerosis*

**Mark Kester, Ph.D. (Pennsylvania State University)**

*Development of an Acid Stable NanoLiposomal Formulation for Insulin*

**Treena Arinze, M.S.E., Ph.D. (New Jersey Institute of Technology)**

*An electroactive scaffold for cartilage repair*

**Rose Ann DiMaria-Ghalili, Ph.D. (Drexel University)**

*Smart Cup: Development of a device to monitor liquid intake (White Paper Draft for Feedback)*

**R. Nick Bryan, M.D., Ph.D., FACR (University of Pennsylvania)**

*Rad Report: Computer Application for Medical Image Interpretation*

**John Wawrzyniak, M.S., M.B.A. (Pennsylvania State University)**

*Mobile Medical App for Physical Therapists: Rehab@Home*

**Christof Daetwyler, M.D. (Drexel University)**

*WebOSCE: A case-based on-line system for the practice, assessment, and feedback of healthcare communication skills*

**Joseph Picone, Ph.D. (Temple University)**

*Automatic Generation of EEG Reports Using Deep Learning*

**Joseph Sassani, M.D., M.S.A. (Pennsylvania State University)**

*Preparation of a Universal Microsurgical Simulator for Commercialization*

## **ROUND 5**

**Benjamin Abella, M.D. (University of Pennsylvania)**

*Smartphone App for post-cardiac arrest therapeutic hypothermia*

**William Craelius, M.S., Ph.D. (Rutgers University)**

*Smartphone-guided rehabilitation exercise*

**Christof Daetwyler, M.D. (Drexel University)**

*WebOSCE: A case-based on-line system for practice, assessment, and feedback of healthcare communication*

**Robert Grundmeier, M.D. (Children's Hospital of Philadelphia)**

*The Care Assistant: Web-Based Healthcare Decision and Workflow Support for Clinicians and Families*

**Anant Madabhushi, M.S., Ph.D. (Case Western Reserve University)**

*ProstaCAD™ Computerized Image Analysis and Decision Support Program*

**Joseph Sassani, M.D., M.S.A. (Pennsylvania State University)**

*Preparation of a Universal Microsurgical Simulator for Commercialization*

**Ryan Zurakowski, Ph.D. (University of Delaware)**

*A Method for Detecting and Quantifying Cryptic Replication of HIV Using 2-LTR Measurements*

**Treena Arinzeh, Ph.D. (New Jersey Institute of Technology)**

*An electroactive scaffold for cartilage repair*

**George Cotsarelis, M.D. (University of Pennsylvania)**

*PGD2 inhibitors as a novel treatment for alopecia*

**Michael Dunn, M.S., Ph.D. (Rutgers University)**

*MeniscoFix: A Novel Fiber-Reinforced Scaffold for Reconstruction of the Meniscus of the Knee*

**Kenneth Markowitz, DDS, M.S.D. (Rutgers University)**

*Dental drug delivery system to treat inflammation of the dental pulp*

**Wei-Heng Shih, Ph.D. (Drexel University)**

*A Quantitative Molecular Imaging Tool for Assessing Breast Cancer Margin ex vivo*

**Robert Sikes, Ph.D. (University of Delaware)**

*A new class of antiandrogens for treating of prostate cancer*

**Joyce Tombran-Tink, Ph.D. (Pennsylvania State University)**

*Neuroprotective Proteins in the Retina*

## **ROUND 4**

**Hwyda A. Arafat, M.D. Ph.D. (Thomas Jefferson University)**

*COL6A3 Isoforms in Pancreatic Cancer Diagnosis*

**Paul H. Axelsen, M.D. (University of Pennsylvania)**

*Rapid Skin Disinfection*

**Timothy J. Cunningham, Ph.D. (Drexel University)**

*Simple monitoring of systemic sPLA2 activity for treatment of MS and other inflammatory disorders*

**Mayuresh V. Kothare, M.S., Ph.D. (Lehigh University)**

*Miniaturization of Medical Oxygen Concentrator (MOC)*

**Alex A. Messinger, M.S. (Philadelphia University)**

*Creation and evaluation of the antimicrobial and biocidal activity of novel, bioactive artificial fabrics*

**Karen Moxon, M.S. Ph.D. (Drexel University)**

*Seizure prediction based on neuronal synchrony*

**Ulrich Rodeck, M.D. (Thomas Jefferson University)**

*Radioprotection potential of neuroprotective agents assessed in zebrafish embryos*

**Kathryn Uhrich, B.S., Ph.D., (Rutgers University)**

*Polymeric NSAIDs for Ophthalmic Inflammatory Disease*

**Lei Yu, M.S., Ph.D. (Rutgers University)**

*A novel drug candidate for treating chronic neuropathic pain*

**Xilin Zhao, Ph.D. (Rutgers University)**

*A Novel, gas-based therapy for tuberculosis*

## **ROUND 3**

**Ari Brooks, M.D. (Drexel University)**

*Electrical plasma activated lock solution to reduce catheter related infections*

**Linda Couto, Ph.D. (Children's Hospital of Philadelphia)**

*Use of Artificial Micro-RNA Clusters to Treat Hepatitis C Virus Infection*

**Marina D'Angelo, Ph.D. (Philadelphia College of Osteopathic Medicine)**

*Metalloprotease peptide derivative therapeutics for osteoarthritis*

**Marija Drndic, A.M., Ph.D. (University of Pennsylvania)**

*Nanopore Box for Rapid Electronic Detection of Micro-RNAs*

**Robert Gorman, M.D. (University of Pennsylvania)**

*Percutaneous Approach to Prevent Heart Failure after Heart Attacks*

**Wayne Hancock, Ph.D. (University of Pennsylvania)**

*Therapy of Autoimmune Colitis Using a TIP60 Inhibitor*

**Vladimir Muzykantov, M.D., Ph.D. (University of Pennsylvania)**

*Novel recombinant anti-thrombotic agents targeted to erythrocytes*

**Louise Showe, Ph.D. (The Wistar Institute)**

*Clinical test for lung cancer using whole blood samples*

**George Tuszynski, Ph.D. (Temple University)**

*Differentiation Therapy for Leukemia*

**Anthony Yeung, M.D. (Fox Chase Cancer Center)**

*Early Detection of Pancreatic Cancer*

## **ROUND 2**

**Iraimoudi Ayene, Ph.D. (Main Line Health)**

*A single agent disulfide chemotherapeutic compound that selectively targets regions of tumor with low glucose content*

**Diva,De León-Crutchlow, M.D. MSCE (Children's Hospital of Philadelphia)**

*Antagonists in the Treatment of Congenital Hyperinsulinism*

**Joseph,DiRienzo, Ph.D. (University of Pennsylvania)**

*Targeted inhibition of cancer stem cells*

**Joseph Gorman, M.D. (University of Pennsylvania)**

*Minimally Invasive Off Pump Mitral Valve Replacement*

**Samuel Gunderson, Ph.D. (Rutgers University)**

*Gene silencing in mouse by nanocarrier delivery of U1 Adaptor oligonucleotides*

**Robert Levy, M.D. (Children's Hospital of Philadelphia)**

*Preventing Restenosis with Local Delivery of Magnetic Nanoparticles (MNP) for Targeting Stents*

**Chang-Ming Charlie Ma, Ph.D. (Fox Chase Cancer Center)**

*4D-CT reconstruction for free-breathing patients without respiratory monitoring*

**Marja Nevalainen, M.D., Ph.D. (Thomas Jefferson University)**

*Development of pharmacological small-molecule inhibitor for Stat5a/b for cancer therapy.*

**John Nosek, Ph.D. (Temple University)**

*Guidance, Assessment & Information System (GAINS)*

**Douglas Smith, M.D. (University of Pennsylvania)**

*Colorimetric Blast Injury Dosimeter*

## **ROUND 1**

**Frank Chang, Ph.D. (Temple University)**

*Diagnostics for early detection of breast cancer*

**Scott Diamond, Ph.D. (University of Pennsylvania)**

*Preclinical studies of Cationic Steroids*

**Paul Ducheyne, M.S., Ph.D. (University of Pennsylvania)**

*Nanostructured bactericidal sol-gel thin films on percutaneous orthopaedic external fixator pins*

**Flemming Forsberg, Ph.D. (Thomas Jefferson University)**

*Non-invasive pressure measurements using ultrasound*

**Eline Luning Prak, M.D., Ph.D (University of Pennsylvania)**

*RS rearrangement frequency: a clinical lab test for autoimmunity*

**Anant Madabhushi, Ph.D. (Rutgers University)**

*An Image based risk score (IbRiS) predictor for survival outcome for ER+ breast cancer patients*

**Elisabeth Papazoglou, Ph.D. (Drexel University)**

*Near Infrared Wound Monitor*

**Darrin Pochan, Ph.D. (University of Delaware)**

*Beta-Hairpin Peptide Hydrogels as Implanted, Therapeutic Medical Devices*

**Wan Shih, Ph.D. (Drexel University)**

*Portable, Low-Cost, Radiation-Free Breast Cancer Detector for Dense Breasts*

**Stanley Stachelek, Ph.D. (Children's Hospital of Philadelphia)**

*CD47 as a core technology for preventing adverse clinical outcomes resulting from biomaterial induced inflammation*