MIDWEST SYMPOSIUM ON NEW CONCEPTS FOR TISSUE-SPECIFIC REGENERATIVE MEDICINE

Vontz Center for Molecular Studies, Rieveschl Auditorium, Cincinnati Ohio
Friday November 16th – Saturday November 17th, 2012

PROGRAM
Talk titles/working titles.

Friday, November 16th 2012

7:30 am	**Registration & Continental Breakfast**
8:00 am	**WELCOME** **Thomas F. Boat MD & Ronald A Sacher MD**
8:10 am – 10:00 pm	**SESSION I REGENERATION OF HEMATOPOIETIC STEM CELLS** *Session Chair Ronald A. Sacher, MD*
8:10 am – 9:00 am	**Keynote Speaker** ***Mitchell J. Weiss, MD, PhD, University of Pennsylvania/The Children's Hospital of Philadelphia*** ***Modeling Human Blood Disorders Through Patient-Derived iPS Cells***
9:00 am – 9:20 am	Hartmut Geiger, PhD, Universitätsklinikum Ulm, Germany/CCHMC ***Rejuvenation of Hematopoietic Stem Cell Aging***
9:20 am – 9:40 am	Jose A. Cancelas, MD, PhD, HBC/CCHMC ***HSC Oxidation – Effect of Communication from the Microenvironment***
9:40 am – 10:00 am	Marie-Dominique Filippi, PhD, CCHMC ***Non-Canonical TGF Beta Signaling in HSC Self Renewal Divisions***
10:00 am -10:20 am	Break
10:20 am – 11:40 am	**SESSION II GUT, PANCREAS & LUNG TISSUE REGENERATION** *Session Chair Thomas F. Boat, MD*
10:20 am – 10:40 am	Aaron M. Zorn, PhD, CCHMC ***Xenopus a Model for Studying Organogenesis***
10:40 am – 11:00 am	James M. Wells, PhD, CCHMC ***Human PSC-Derived Tissues for Diabetes and Digestive Disease Research***
11:00 am – 11:20 am	Jeffrey A. Whitsett, MD, CCHMC ***Pulmonary Progenitor Cells in Tissue Repair and Regeneration***
11:20 am – 12:10 pm	Lunch
12:10 pm – 1:50 pm	**SESSION III EPITHELIAL AND MESENCHYMAL REGENERATION** *Session Chair David L. Butler, PhD*
12:10 pm – 12:30 pm	Susanne I. Wells PhD, CCHMC ***The Fanconi Anemia Pathway: Repairing the Gap Between DNA Damage and Squamous Cell Carcinoma***
12:30 pm – 12:50 pm	Steven T. Boyce, BA, PhD, UC ***Evolution of Translational Research and Regenerative Medicine with Engineered Skin Substitutes***
12:50 pm – 1:10 pm	Geraldine Guasch, PhD, CCHMC ***Engineering of the Human Sebaceous Gland***
1:10 pm – 1:30 pm	Winston W.-Y. Kao, PhD, UC ***Transplantation of Umbilical Mesenchymal Stem Cells in Treating congenital and Acquired Corneal Diseases***
1:30 pm – 1:50 pm	David L. Butler, PhD, UC ***Evolving Mechanobiology Strategies to More Effectively Treat Damaged Tendon Structures***
1:50 pm – 2:10 pm	Break
2:10 pm – 3:30 pm	**SESSION IV NEURAL AND EYE REGENERATION** *Session Chair Richard A. Lang, PhD*
2:10 pm – 2:30 pm	Yutaka Yoshida, PhD, CCHMC ***Formation and Regeneration of Neural Circuits in Motor Systems***
2:30 pm - 2:50 pm	Ronald R. Waclaw, MS, PhD, CCHMC ***A Role for Shp2 Signaling During Oligodendrogenesis in the Mouse Telencephalon***

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2:50 pm – 3:10 pm	Masato Nakafuku, MD, PhD, CCHMC ***The Specificity and Plasticity of Stem Cells in the Adult Brain***
3:10 pm – 3:30 pm	Richard A. Lang, PhD, CCHMC ***Myeloid Wnt Ligands in Development, Regeneration and Disease***
3:30 pm – 3:50 pm	Break
3:50 pm – 5:40 pm	**SESSION V GENE THERAPY** *Session Chair Michael B. Jordan, MD*
3:50 pm - 4:40 pm	**Keynote Speaker** ***Tim M. Townes, PhD, University of Alabama at Birmingham*** ***Human Globin Gene Regulation and iPS Cell Therapy for Sickle Cell Disease***
4:40 pm – 5:00 pm	Takuji Suzuki, MD, PhD, CCHMC ***Pulmonary Macrophage Transplantation: A Novel Cell and Gene Therapy for Hereditary PAP***
5:00 pm – 5:20 pm	Michael B. Jordan, MD, CCHMC ***Genetic Therapy for Perforin Deficiency***
5:20 pm -5:40 pm	Punam Malik, MD, CCHMC ***Gene and Cell Therapy for Hemoglobinopathies***
6:45 pm	Speakers Dinner

Saturday, November 17th 2012

8:00 am -8:30 am	Continental Breakfast
8:30 am – 10:45 am	**SESSION VI CARDIAC REGENERATION** *Session Chair Mohammad Ashraf, PhD*
8:30 am – 9:20 am	**Keynote Speaker** ***John P. Cooke, MD, PhD, Stanford University School of Medicine*** ***Vascular Regeneration: Transdifferentiation and Nuclear Reprogramming. Role of Innate Immunity***
9:20 am – 9:45 am	Jeffrey Robbins, PhD, CCHMC ***Strategies for Healing a Broken Heart: An Overview***
9:45 am – 10:05 am	Katherine Yutzey, PhD, CCHMC ***Regulation of Cardiomyocyte Proliferation***
10:05 am – 10:25 am	Muhammad Ashraf, PhD, UC ***Induced Pluripotent Stem Cells Derived Progenitors for Cardiac Repair***
10:25 am – 10:45 am	Jop H. van Berlo, MD, PhD ***Novel Model of Cardiac Progenitor Cell Activation***
10:45 am – 11:00 am	Break
11:00 am – 1:00 pm	**SESSION VII SKELETAL MUSCLE & VASCULAR REGENERATION** *Session Chair Carolyn Lutzko, PhD*
11:00 am – 11:20 am	Carolyn M. Lutzko, PhD CCHMC/HBC ***Pluripotent Stem Cell Characterization***
11:20 am – 11:40 am	Rita Perlingeiro, PhD, University of Minnesota ***From iPS Cells to Skeletal Muscle Precursors: Potential for Gene Correction and Therapeutic Application***
11:40 am – 12:00 pm	Michael Kyba, PhD, University of Minnesota ***Genetic Correction of FSHD in iPS Cells: Evidence that FSHD is a Muscle Stem Cell Disease***
12:00 pm –12:50 pm	**Keynote Speaker** ***Mervin C. Yoder, MD, Indiana University*** ***Endothelial Progenitor Cells: Lineages, Licenses, and Legacy***
12:50 – 1:00 pm	Summary & Conclusions
1:00 pm	Meeting Adjourns