

Building a Microscopy Pipeline to Map the Human Cell

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Genomic integrity of human induced pluripotent stem cells after CRISPR/Cas-9 fluorescent tag knock-in

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Building the Animated Cell

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The physical organization of the human induced pluripotent stem cell: developing assays for image-based integration of intracellular structures

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Systematic gene tagging to illuminate stem cell organization

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CRISPR/Cas9 scanning deletion of a Mendelian disease locus for functionally essential noncoding elements

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Rewiring the 3D structure of the genome using a programmable CRISPR-Cas system

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In situ expansion of engineered human liver tissue

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A versatile method for spatiotemporal solute patterning in vitro

M. Regier, University of Washington; University of Wisconsin; D. Beebe, University of Wisconsin; K. Stevens, University of Washington

Constructing Human and Drosophila ARRDC Family Proteins Interactomes

Y. Kwon, University of Washington; P. Haller, University of Washington's Proteomics Resource

Regulation of EphA2 by Cullin5-SOCS2 E3 ubiquitin ligase

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Evolutionary adaptations in developmental pathways underlie regenerative scar-free wound repair in African Spiny Mice

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Measuring dynamic and real-time cAMP levels using cADDi2, a live-cell indicator for Gs and Gi signaling

P. Tewson, Montana Molecular; S. Martinka, Montana Molecular; C. Berlot, Montana Molecular; T. Hughes, Montana Molecular; A. Quinn, Montana Molecular; S. Tillo, Montana Molecular

Motif-based reprogramming of Yeast microcolony spatiotemporal development

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POSTERS

CELL SCIENCE SYMPOSIUM 2016

Shear-induced platelet forces as an assessment of platelet function in hemostasis and thrombosis

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Reconstruction of a transcriptional regulatory network for the human brain identifies core regulators of psychiatric disorders

J. Pearl, University of Washington, Institute for Systems Biology; D. Bergey, Institute for Systems Biology; B. Basu, Washington University; C. Funk, Institute for Systems Biology; P. Shannon, Institute for Systems Biology; L. Hood, Institute for Systems Biology; N. Price, Institute for Systems Biology; S. Ament, Institute for Systems Biology, University of Maryland School of Medicine

Genome-wide Profiling of Urinary Exosomal microRNAs Associated with Diabetic Nephropathy in Type 1 Diabetes

V. Ghai, Institute for Systems Biology; X. Wu, Institute for Systems Biology; A. Malge, Institute for Systems Biology; C. Argyropoulos, University of New Mexico; J. Bernardo, University of Pittsburgh Medical Center; T. Orchard, University of Pittsburgh Medical Center; J. Johnson, University of Pittsburgh Medical Center; K. Wang, Institute for Systems Biology

Intracellular Assessment of the Maturation of Excitation-Contraction Coupling in Human Stem Cell-Derived Cardiomyocytes

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High-throughput mutagenesis reveals novel mechanisms of drug resistance in the oncogene Src kinase

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Multiscale Matrix Guidance Cues Drive Collective Cell Migration

D. Kim, Department of Bioengineering, University of Washington

Nanopatterned Human iPSC-Based Cardiac Cell Culture Models for Drug Screening and Disease Modeling

A. Smith, Department of Bioengineering, University of Washington

Measuring and Enhancing Contractile Function of Human Pluripotent Stem Cell-Derived Cardiomyocytes in 2D and 3D

A. Leonard, UW Dept of Mechanical Engineering; S. Bhandari, UW Dept of Bioengineering; K. Bielawski, UW Dept of Mechanical Engineering; K. Beussman, UW Dept of Mechanical Engineering; H. Reinecke, UW Dept of Pathology; C. Murry, UW Dept of Bioengineering, Dept of Pathology (Center for Cardiovascular Biology, Institute for Stem Cell and Regenerative Medicine), and Dept of Medicine/Cardiology; N. Sniadecki, UW Dept of Mechanical Engineering and Dept of Bioengineering

Transposon mutagenesis screen identifies host-encoded anti-viral factors

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Longitudinal monitoring of in vitro cardiomyocyte differentiation at single-cell resolution elucidates lineage branching principles

R. Bargaje, Institute for Systems Biology; K. Trachana, Institute for Systems Biology; M. Shelton, Institute for Systems Biology; C. McGinnis, Institute for Systems Biology; J. Zhou, Institute for Systems Biology; C. Chadick, Institute for Systems Biology; S. Cook, Institute for Stem Cell & Regenerative Medicine, UW Medicine Research; C. Cavanaugh, Institute for Stem Cell & Regenerative Medicine, UW Medicine Research; S. Huang, Institute for Systems Biology; L. Hood, Institute for Systems Biology

High throughput phenotyping of PTEN coding variant steady-state expression in mammalian cells

K. Matreyek, University of Washington; J. Stephany, University of Washington; D. Fowler, University of Washington

Depletion of plasma membrane PI(4,5)P2 promotes store-operated calcium entry

J. Jensen, University of Washington; E. Dickson, University of Washington; B. Hille, University of Washington

Light-controlled PI3K activation mimics TRPV1 potentiation during inflammation

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