



Bio-X Interdisciplinary Initiatives Symposium

Poster Session

February 25, 2015

| POSTER # | TITLE | AUTHORS |
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| 1 | Drop Testing Does Not Reproduce 6DOF Head Impact Kinematics | Fidel Hernandez ¹ , Pete Shull ² , David Camarillo ² Departments of Mechanical Engineering ¹ and Bioengineering ² , Stanford University |
| 2 | High-Resolution Cancer Imaging with Spectral Domain Optical Coherence Tomography | Orly Liba ^{1,2} , Elliott SoRelle ^{1,3} , Adam de la Zerda ¹ Departments of Structural Biology ¹ , Electrical Engineering ² , and Biophysics ³ , Stanford University |
| 3 | The Role of A-catenin in Cadherin-Mediated Mechanical Signaling in Human Embryonic Stem Cell Proliferation and Self-Renewal | Eva Yi-Hsuan Huang ¹ , Yee Seir Kee ¹ , Andrew J. Price ² , Sabine Pokutta ³ , Vittorio Sebastiano ⁴ , William I. Weis ³ , Alexander R. Dunn ^{1,2} Departments of Chemical Engineering ¹ , Structural Biology ³ , and Obstetrics & Gynecology ⁴ and Biophysics Program ² , Stanford University |
| 4 | Engineering 3D Biomimetic Hydrogels for Deciphering Brain Tumor Cell Behavior | Christine Wang ¹ , Xinming Tong ² , Fan Yang ^{1,2} Departments of Bioengineering ¹ and Orthopaedic Surgery ² , Stanford University |
| 5 | Injectable, Two Component Hydrogels for Cell Delivery After Spinal Cord Injury | Karen Dubbin ¹ , Lei Cai ¹ , Giles Plant ² , Sarah Heilshorn ¹ Departments of Materials Science & Engineering ¹ and Neurosurgery ² , Stanford University |
| 6 | Exploratory Study of Atherosclerotic Plaque Using X-Ray Diffraction | Herbert Silva ¹ , Chris Tassone ² , Apurva Mehta ² , Elsie Gyang ³ , Jason Lee ³ , Drew Nelson ¹ Departments of Mechanical Engineering ¹ and Vascular Surgery ³ and SLAC Synchrotron Radiation Lab ² , Stanford University |
| 7 | Engineering Patterned Co-Aggregative Mixed-Culture Biofilms | Xiaofan Jin ¹ , David S. Glass ¹ , Ingmar Riedel-Kruse ¹ Department of Bioengineering ¹ , Stanford University |
| 8 | Signaling Delays Preclude Defects in Lateral Inhibition Patterning | David S. Glass ¹ , Xiaofan Jin ¹ , Ingmar Riedel-Kruse ¹ Department of Bioengineering ¹ , Stanford, University |
| 9 | A Wirelessly Powered, Fully Internal Implant That Enables Optogenetic Stimulation of Brain, Spinal Cord, and Peripheral Nervous System in Untethered Mice | Kate L. Montgomery ^{1*} , Alexander J. Yeh ^{2*} , Logan Grose ^{1,3} , Vivien Tsao ² , Emily A. Ferenczi ^{1,3} , Shrivats Mohan Iyer ¹ , John S. Ho ² , Yuji Tanabe ² , Karl Deisseroth ^{1,3,4,5,6} , Scott L. Delp ^{1,7} , Ada S.Y. Poon ² (*equal contribution) Departments of Bioengineering ¹ , Electrical Engineering ² , Psychiatry & Behavioral Sciences ⁴ , and Mechanical Engineering ⁷ , Neurosciences Program ³ , Howard Hughes Medical Institute ⁵ , and CNC Program ⁶ , Stanford University |
| 10 | Physical Modeling of Chromosome Dynamics Reveals Impact of Force and DNA Relaxation | Thomas J. Lampo ¹ , Andrew J. Spakowitz ^{1,2} Department of Chemical Engineering ¹ and Biophysics Program ² , Stanford University |
| 11 | Folding and Catalysis of the <i>glmS</i> Ribozyme Riboswitch Studied at the Single-Molecule Level | Andrew Savinov ¹ , Steven Block ^{2,3} Biophysics Program ¹ and Departments of Applied Physics ² and Biology ³ , Stanford University |
| 12 | Comparing the Transient Osmotic Swelling of Articular Cartilage and Meniscal Fibrocartilage in Confined Compression | Eva Gabriela Baylon ¹ , Marc Levenston ¹ Department of Mechanical Engineering ¹ , Stanford |

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| 13 | <i>In Vivo</i> Evaluation of Wearable Head Impact Sensors | Lyndia Wu ¹ , Vaibhav Nangia ² , Kevin Bui ¹ , Bradley Hammor ¹ , Calvin Kuo ² , Fidel Hernandez ² , David Camarillo ^{1,2} Departments of Bioengineering ¹ and Mechanical Engineering ² , Stanford University Jeffrey J. Quinn ^{1,2,3} , Qiangfeng C. Zhang ^{2,3} , Ibrahim Ilik ⁴ , Plamen Georgiev ⁴ , Asifa Akhtar ⁴ , Howard Y. Chang ^{2,3} |
| 14 | The Evolutionary Dynamics of the roX Long Noncoding RNAs | Department of Bioengineering ¹ , Howard Hughes Medical Institute ² , and Program in Epithelial Biology ³ , Stanford University; Max Planck Institute of Immunobiology & Epigenetics ⁴ |
| 15 | Quantitative, High Throughput Thermodynamic and Kinetic Measurements of RNA Tertiary Structure Elements | Sarah K. Denny ¹ , Namita Bisaria ² , Joseph Yesselman ² , Daniel Herschlag ² , William Greenleaf ^{1,3} Biophysics Program ¹ and Departments of Biochemistry ² and Genetics ³ , Stanford University |
| 16 | Optical Recording of Activity in <i>Drosophila</i> Early Visual Neurons Allows Direct Visualization of Neuronal Computation | Helen Yang ¹ , Francois St-Pierre ^{2,3} , Xulu Sun ⁴ , Michael Lin ^{2,3} , Thomas Clandinin ¹ Departments of Neurobiology ¹ , Bioengineering ² , Pediatrics ³ , and Biology ⁴ , Stanford University |
| 17 | The Minimal Cadherin-Catenin Complex Binds to Actin Filaments Under Force | Craig D. Buckley ¹ , Jiongyi Tan ² , Karen L. Anderson ³ , Dorit Hanein ³ , Niels Volkmann ³ , William I. Weis ^{2,4,5} , W. James Nelson ^{5,6} , Alexander R. Dunn ^{1,2,7} Departments of Chemical Engineering ¹ , Structural Biology ⁴ , Molecular & Cellular Physiology ⁵ , and Biology ⁶ , Biophysics Program ² , and the Stanford Cardiovascular Institute ⁷ , Stanford University; Bioinformatics & Structural Systems Biology Program ³ , Sanford-Burnham Medical Research Institute |
| 18 | Haptic fMRI: Mapping Neural Activation During Planning and Reaching for Unconstrained Three Degree-of-Freedom Tasks | Samir Menon ¹ , Michelle Yu ¹ , Hari Ganti ² , Kwabena Boahen ³ , Oussama Khatib ¹ Departments of Computer Science ¹ , Mechanical Engineering ² , and Bioengineering ³ , Stanford University |
| 19 | A Cell Type Specific Transcriptional Repressor Directs Selective Upregulation of Terminal Differentiation Program | Jongmin Kim ¹ , Margaret T. Fuller ^{2,3} Departments of Chemical & Systems Biology ¹ , Developmental Biology ² , and Genetics ³ , Stanford University |
| 20 | Optogenetic fMRI Reveals Distinct, Frequency-Dependent Networks Recruited by Dorsal and Intermediate Hippocampus Stimulation | Andrew Weitz ^{1,2} , Zhongnan Fang ^{2,3} , Hyun Joo Lee ² , Robert Fisher ² , Wesley Smith ⁴ , ManKin Choy ² , Jia Liu ² , Peter Lin ² , Matthew Rosenberg ^{5,6} , Jin Hyung Lee ^{1,2,3,4,5} Departments of Bioengineering ¹ , Neurology & Neurological Sciences ² , and Electrical Engineering ³ , Stanford University; Departments of Neuroscience ⁴ , Electrical Engineering ⁵ , and Psychology ⁶ , University of California Los Angeles |
| 21 | Measuring Microtubules Better with a Confocal Microscope and a Computer | Roshni Cooper ¹ , Shaul Yogeve ² , Mark Horowitz ¹ , Kang Shen ² Departments of Electrical Engineering ¹ and Biology ² , Stanford University |
| 22 | New Metrics for Manual Dexterity Assessment | Pankaj Sharma ¹ , Clayton Crawford ² , Patricia Youngblood ² , Sakti Srivastava ² Departments of Electrical Engineering ¹ and Surgery ² , Stanford University |
| 23 | Probing the Stiffness of the Extracellular Matrix to Control Activation of T Cells in Type 1 Diabetes | Adi de la Zerda ¹ , Tim Thauland ² , Sarah Heilshorn ¹ , Paul Bollyky ³ , Manish Butte ² Departments of Materials Science & |

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| | | Engineering ¹ , Pediatric Allergy & Immunology ² , and Medicine (Division of Infectious Diseases) ³ , Stanford University |
| 24 | The Genomics of Neurodevelopment: Transcriptional Networks Underlying the Developing Neocortex | James H. Notwell ¹ , Aaron M. Wenger ¹ , Shoa L. Clarke ² , Tisha Chung ³ , Geetu Tuteja ³ , Harendra Guturu ⁴ , Whitney Heavner ^{3,5} , Bruce T. Schaar ³ , Gill Bejerano ^{1,3} Departments of Computer Science ¹ , Genetics ² , Developmental Biology ³ , Electrical Engineering ⁴ , and Biology ⁵ , Stanford University |
| 25 | Novel Insights Into Influenza A Virus Genome Assembly and Implications for Future Antiviral Strategies | Rachel Hagey ¹ , Siqi Tian ³ , Edward Pham ¹ , Ann Kladwang ³ , Menashe Elazar ² , Rhiju Das ^{3,4} , Jeffrey Glenn ^{1,2,5} Departments of Microbiology & Immunology ¹ , Medicine (Division of Gastroenterology & Hepatology) ² , Biochemistry ³ , and Physics ⁴ , Stanford University; Veterans Administration Medical Center ⁵ , Palo Alto |
| 26 | Cystine-Knot Miniproteins as Novel Therapeutic Tools for Targeting the Brain | Shelley E. Ackerman ¹ , Christy M. Wilson ² , Suzana A. Kahn ² , James R. Kintzing ¹ , Darren A. Jindal ¹ , Samuel H. Cheshier ² , Gerald A. Grant ² , Jennifer R. Cochran ^{1,3} Departments of Bioengineering ¹ , Neurosurgery ² , and Chemical Engineering ³ , Stanford University |
| 27 | Tracking Single Molecules of Smoothed in Cilia | Lucien E. Weiss ¹ , Ljiljana Milenkovic ² , Josh Y. Yoon ¹ , Matthew Scott ² , W. E. Moerner ¹ Departments of Chemistry ¹ and Biology ² , Stanford University |
| 28 | Staggered Sweeps: The Obstruction of Adaptation by Recessive, Strongly Deleterious Alleles | Zoe Assaf ¹ , Dmitri Petrov ² , Jamie Blundell ³ Departments of Genetics ¹ , Biology ² , and Applied Physics ³ , Stanford University |
| 29 | Curvature-Dependent Localization of the Bacterial Cytoskeleton Drives <i>De Novo</i> Morphogenesis in <i>Escherichia coli</i> | Gabriel Billings ¹ , Nikolay Ouzonov ⁵ , Tristan Ursell ² , Samantha Desmarais ² , Joshua Shaevitz ^{4,6} , Zemer Gitai ⁵ , Kerwyn Casey Huang ^{2,3} Departments of Physics ¹ , Bioengineering ² , and Microbiology & Immunology ³ , Stanford University; Departments of Physics ⁴ and Molecular Biology ⁵ and Lewis-Sigler Institute for Integrative Genomics ⁶ , Princeton University |
| 30 | Basic Level Category Structure Emerges Gradually Across Human Ventral Visual Cortex | Marius Cătălin Jordan ¹ , Michelle R. Greene ¹ , Diane M. Beck ^{2,3} , Li Fei-Fei ¹ Department of Computer Science ¹ , Stanford University; Beckman Institute ² and Department of Psychology ³ , University of Illinois at Urbana-Champaign |
| 31 | Estimating Image Depth Using a Large Shape Collection | Hao Su ¹ , Qixing Huang ¹ , Niloy Mitra ² , Yangyan Li ¹ , Leonidas Guibas ¹ Department of Computer Science ¹ , Stanford University; Department of Computer Science ² , University College London |
| 32 | Mechanical Biomarkers Predict Human Embryo Viability | Livia Zarnescu ¹ , Jinnuo Han ² , Barry Behr ³ , Renee Reijo Pera ⁴ , David Camarillo ¹ Departments of Bioengineering ¹ and Obstetrics & Gynecology ³ and Stem Cell Research Institute ² , Stanford University; Montana State University ⁴ |
| 33 | Stackable Electronics Architecture for a Breast Dedicated PET System | Paul D. Reynolds ^{1,2} , Arne Vandenbroucke ² , David Freese ^{1,2} , David Hsu ^{1,2} , Derek Innes ² , and Craig S. Levin ^{1,2,3} Departments of Electrical Engineering ¹ , Radiology ² , and Physics ³ , Stanford University |
| 34 | Predicting Papillary Thyroid Carcinoma Patient Outcomes through Gene Expression Data | Kun-Hsing Yu ^{1,2} , Wei Wang ³ , Chung-Yu Wang ⁴ , Michael Snyder ² Biomedical Informatics Program ¹ and |

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| | | Departments of Genetics ² , Health Research & Policy ³ , and Computer Science ⁴ , Stanford University |
| 35 | Conserved Regulation of the Switch From Mitosis to Meiosis by Bgcn in the Mammalian Germline | Alexis Bailey ¹ , Rebecca Gold ¹ , Dirk de Rooij ² , Margaret Fuller ¹ Department of Developmental Biology ¹ , Stanford University; Center for Reproductive Medicine (Academic Medical Center) ² , University of Amsterdam |
| 36 | RF-Penetrable PET Insert for Simultaneous PET/MRI | Brian J. Lee ¹ , Alexander M. Grant ¹ , Chen-Ming Chang ¹ , Craig S. Levin ¹ Department of Radiology ¹ , Stanford University |
| 37 | Genetic Mapping Uncovers Cis-Regulatory Landscape of RNA Editing | Gokul Ramaswami ¹ , Rui Zhang ¹ , Trudy Mackay ² , Rhiju Das ³ , Jin Billy Li ¹ Departments of Genetics ¹ and Biochemistry ³ , Stanford University; Department of Genetics ² , North Carolina State University |
| 38 | Exploring the Use of Microbial Source Tracking Assays in Dhaka, Bangladesh for the Identification of Sources of Fecal Contamination in Household Environments | Angela R. Harris ¹ , Amy J. Pickering ^{1,2} , Michael Harris ³ , Solaiman Doza ⁴ , Sirajul Islam ⁴ , Leanne Unicomb ⁴ , Stephen Luby ^{2,5} , Jennifer Davis ^{1,2} , Alexandria Boehm ¹ Department of Civil & Environmental Engineering ¹ and Medicine (Division of Infectious Diseases) ⁵ , Woods Institute for the Environment ² , and Emmet Interdisciplinary Program in Environment & Resources ³ , Stanford University; International Centre for Diarrhoeal Disease Research ⁴ , Bangladesh |
| 39 | Physics of High Dimensional Statistics | Madhu Advani ¹ , Surya Ganguli ¹ Department of Applied Physics ¹ , Stanford University |
| 40 | Synchronous Universal Droplet Logic and Control | Georgios Katsikis ¹ , Jim Cybulski ¹ , Manu Prakash ² Departments of Mechanical Engineering ¹ and Bioengineering ² , Stanford University |
| 41 | A Skin-Inspired Organic Digital Mechanoreceptor | Alex Chortos ¹ , Benjamin C.-K. Tee ² , Andre Berndt ³ , Ariane Tom ³ , Allister McGuire ⁴ , Amanda Kim Nguyen ² , Ziliang Carter Lin ⁴ , Kevin Tien ⁵ , Huiliang Wang ³ , Bianxiao Cui ⁴ , Karl Deisseroth ³ , Tse Nga Ng ⁶ , Zhenan Bao ⁷ Departments of Materials Science & Engineering ¹ , Electrical Engineering ² , Bioengineering ³ , Chemistry ⁴ , and Chemical Engineering ⁷ , Stanford University; Department of Electrical Engineering ⁵ , Columbia University; Xerox Palo Alto Research Center ⁶ |
| 42 | Punch Card Programmable Microfluidics | George Korir ¹ , Elizabeth Marshman ² , Ben Alpers ² , Manu Prakash ¹ Departments of Bioengineering ¹ and Mechanical Engineering ² , Stanford University |
| 43 | Reduced Working Memory Predicts Impaired Long-Term Memory in Chronic Media Multitaskers | Monica Thieu ¹ , Melina Uncapher ¹ , Anthony Wagner ^{1,2} Department of Psychology ¹ and Neurosciences Program ² , Stanford University |
| 44 | G6PD-p53 Inhibition Using a Rational Peptide | Tatum Banayat ¹ , Nir Qvit ² , Sunhee Hwang ² , Daria Mochly-Rosen ² Departments of Bioengineering ¹ and Chemical & Systems Biology ² , Stanford University |
| 45 | Lossy Compression of Quality Scores May Improve SNP Calling | Idoia Ochoa ¹ , Mikel Hernaez ¹ , Tsachy Weissman ¹ Department of Electrical Engineering ¹ , Stanford University |
| 46 | Chaos Analysis of Brain Transitions at Loss and Recovery of Consciousness | M. Bruce MacIver ¹ , Divya Chander ¹ , Brian H. Bland ² |

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| | | Department of Anesthesia ¹ , Stanford University; Department of Psychology ² , University of Calgary |
| 47 | Improving Inhibitory Neuron Function in Brain Slices | Beza A. Dagne ¹ , Melis K. Sunay ¹ , James Nie ¹ , M. Bruce MacIver ¹ Department of Anesthesia ¹ , Stanford University |
| 48 | Acoustic Detection of Stem Cell-Derived Cardiomyocytes | Catherine Jan ¹ , Sally Kim ² , Michel Digonnet ³ , Nicholas Melosh ⁴ , Olav Solgaard ¹ Departments of Electrical Engineering ¹ , Psychiatry ² , Applied Physics ³ , and Materials Science & Engineering ⁴ , Stanford University |
| 49 | <i>In Vivo</i> Measurement of Intra-Voxel Crossing Fibers in the Cerebral Cortex Using Diffusion MRI | Qiyuan Tian ¹ , Christoph W.U. Leuze ² , Ariel Rokem ³ , Jennifer A. McNab ² Departments of Electrical Engineering ¹ , Radiology ² , and Psychology ³ , Stanford University |
| 50 | Predicting Diffusion Magnetic Resonance Signal from Orientation Distribution Function for Model Accuracy Evaluation | Qiyuan Tian ¹ , Jennifer A. McNab ² , Ariel Rokem ³ Departments of Electrical Engineering ¹ , Radiology ² , and Psychology ³ , Stanford University |
| 51 | Novel Immuno-Modulatory Function of Ganciclovir Is Associated with the Activation of Interferon Signaling | Vidhu Mathur ^{1,2} , Danny Do ¹ , Ritwik Burai ³ , Hilal Lashuel ³ , Tony Wyss-Coray ^{1,2} Department of Neurology & Neurological Sciences ¹ , Stanford University; Center for Tissue Regeneration, Repair & Restoration ² , VA Palo Alto Health Care System; Laboratory of Molecular & Chemical Biology of Neurodegeneration, Brain Mind Institute ³ , EPFL, Lausanne, Switzerland. |
| 52 | smallWig: Parallel Compression of RNA-Seq WIG Files | Zhiying Wang ¹ , Tsachy Weissman ¹ , Olgica Milenkovic ² Department of Electrical Engineering ¹ , Stanford University; Department of Electrical and Computer Engineering ² , University of Illinois at Urbana-Champaign |
| 53 | Microglial Complement Receptor 3 is a Modulator of Abeta Degradation | Eva Czirr ¹ , Nicholas A. Castello ² , Kira I. Mosher ¹ , Joseph M. Castellano ¹ , Kurt M. Lucin ¹ , Katerina Akassoglou ^{2,3} , Markus Britschgi ¹ , John R. Cirrito ⁴ , Tony Wyss-Coray ^{1,5} Department of Neurology & Neurological Sciences ¹ , Stanford University; Gladstone Institute of Neurological Disease ² , San Francisco; Department of Neurology ³ , University of California, San Francisco; Department of Neurology ⁴ , Washington University; Center for Tissue Regeneration, Repair, & Restoration ⁵ , VA Palo Alto Health Care System |
| 54 | The Coding of Cutaneous Temperature in the Spinal Cord | Chen Ran ¹ , Mark A. Hoon ² , Xiaoke Chen ¹ Department of Biology ¹ , Stanford University; Molecular Genetics Unit, Laboratory of Sensory Biology ² , National Institute of Dental & Craniofacial Research – National Institutes of Health |
| 55 | Force Measurements of Hovering Hummingbirds | Rivers Ingersoll ¹ , David Lentink ¹ Department of Mechanical Engineering ¹ , Stanford University |
| 56 | Precisely Patterned Model 3-D Bone Tissue Constructs | T. Tolga Demirtas ¹ , Sinan Guven ¹ , Oju Jeon ² , Eben Alsberg ² , Utkan Demirci ¹ Bio-Acoustic MEMS in Medicine (BAMM) Laboratory, Department of Radiology, Canary Center for Cancer Early Detection ¹ , Stanford University; Alsberg Stem Cell & Engineered Novel Therapeutics (ASCENT) Laboratory, Biomedical Engineering and Orthopaedic Surgery ² , Case Western Reserve University. |

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| 57 | Therapeutic Allele-Specific siRNA Delivery into Dilated Cardiomyopathy Human Engineered Heart Muscle | Elena Matsa ^{1,2,3,4} , Wenchao Sun ⁵ , John H. Ahrens ¹ , Andrey V. Malkovskiy ⁵ , Vittavat Termglinchan ^{1,2,3,4} , Ioannis Karakikes ^{1,2,3,4} , Johannes Riegler ^{1,2,3,4} , Jayakumar Rajadas ⁵ , Joseph C. Wu ^{1,2,3,4} Stanford Cardiovascular Institute ¹ , Departments of Medicine ² and Radiology ³ , Institute of Stem Cell Biology & Regenerative Medicine ⁴ , and Biomaterials & Advanced Drug Delivery (BioADD) Laboratory of Pharmacology Division ⁵ , Stanford University |
| 58 | Young Plasma Ameliorates Synaptic and Cognitive Deficits in Mouse Model for Alzheimer's Disease | Jinte Middeldorp ¹ , Benoit Lehallier ¹ , Saul A. Villeda ² , Suzanne Miedema ¹ , Emily Evans ¹ , Eva Czirr ¹ , Hui Zhang ¹ , Jian Luo ¹ , Trisha Stan ¹ , Kira I. Mosher ¹ , Eliezer Masliah ³ , Tony Wyss-Coray ^{1,4} Department of Neurology & Neurological Sciences ¹ , Stanford University; Department of Anatomy ² , University of California, San Francisco; Department of Neurosciences ³ , University of California, San Diego; Center for Tissue Regeneration, Repair & Restoration ⁴ , VA Palo Alto Health Care System |
| 59 | Optimizing Visual Flight Control: Maneuvering Lovebirds Coordinate Their Super-Fast Gaze Changes with Their Wingbeat | Daniel Kress ¹ , Evelien van Bokhorst ¹ , David Lentink ¹ Department of Mechanical Engineering ¹ , Stanford University |
| 60 | Assessment of Brain Delivery and Metabolism of [¹⁸ F]FDG in an Experimental Parabiosis Model, Following Single Partner Administration | Mikael Palner ^{1,2} , Bin Shen ^{1,2} , Joseph M. Castellano ³ , Jian Luo ³ , Tony Wyss-Coray ^{3,4} , Frederick T. Chin ^{1,2} Departments of Radiology ¹ and Neurological Sciences ³ and Molecular Imaging Program at Stanford (MIPS) ² , Stanford University; Center for Tissue Regeneration, Repair & Restoration ⁴ , VA Palo Alto Health Care System |
| 61 | An Aversive Input to Nucleus Accumbens Is Required for Opiate Dependence | Yingjie Zhu ¹ , Carl Wienecke ¹ , Xiaoke Chen ¹ Department of Biology ¹ , Stanford University Andrea Sottoriva ^{1,2} , Haeyoun Kang ^{3,4} , Zhicheng Ma ^{1,5,6} , Trevor A. Graham ⁷ , Matthew P. Salomon ¹ , Junsong Zhao ¹ , Paul Marjoram ¹ , Kimberly Siegmund ¹ , Michael F. Press ³ , Darryl Shibata ³ , Christina Curtis ^{1,5,6} |
| 62 | A Big Bang Model of Human Colorectal Tumor Growth | Departments of Preventive Medicine ¹ and Pathology ³ , University of Southern California; (Present address) Division of Molecular Pathology, The Institute of Cancer Research ² , London; Department of Pathology ⁴ , CHA University, Seongnam-si, South Korea; (Present address) Departments of Medicine ⁵ and Genetics ⁶ , Stanford University; Centre for Tumor Biology, Barts Cancer Institute ⁷ , Queen Mary, University of London, London. |
| 63 | Spatial Transcriptome Profiling with Lanthanide-Based Probes | Daniel P. Riordan ¹ , Ukrae Cho ² , James K. Chen ² , Mark A. Krasnow ¹ , Tushar Desai ³ , Pehr A.B. Harbury ¹ Departments of Biochemistry ¹ , Chemical & Systems Biology ² , and Medicine ³ , Stanford University |
| 64 | Understanding the Kinetic Restriction of Adipogenesis | Karen Tkach ¹ , Mia Hutchinson ¹ , Esha Atolia ¹ , Mary Teruel ¹ Department of Chemical & Systems Biology ¹ , Stanford University |
| 65 | Geometric Analysis and Variability Mapping in Human White Matter Brain Structures | Tanya Glozman ¹ , Franco Pestilli ² , Leonidas Guibas ³ Departments of Electrical Engineering ¹ and |

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| | | Computer Science ³ , Stanford University; Department of Psychological & Brain Sciences, Indiana University ² |
| 66 | pH Sensitive Polypyrrole Nanoparticles for Drug Delivery | Devleena Samanta ¹ , Jana Meiser ¹ , Richard Zare ¹ Department of Chemistry ¹ , Stanford University |
| 67 | Imaging Electrical Activity in Neurons and Cardiomyocytes with ASAP-Family Voltage Sensors | Michael Pan ¹ , Francois St-Pierre ¹ , Michael Z. Lin ¹ Departments of Pediatrics and Bioengineering ¹ , Stanford University Ozge Oztan ¹ , Joseph P. Garner ^{1,2} , Katie Chun ³ , Shellie A. Hyde ¹ , Elliott H. Sherr ⁴ , John P. Capitanio ³ , Karen J. Parker ¹ |
| 68 | Identifying Novel Biomarkers of Naturally Occurring Social Impairments in Male Rhesus Monkeys | Departments of Psychiatry & Behavioral Sciences ¹ and Comparative Medicine ² , Stanford University; California National Primate Research Center ³ , University of California, Davis; Department of Neurology ⁴ , University of California, San Francisco |
| 69 | The Effect of Continuous and Local IL-4 Delivery on Systemic Macrophage Trafficking and Polyethylene Particle Induced Bone Loss | Jukka Pajarinen ¹ , Taishi Sato ¹ , Tzu-hua Lin ¹ , Florence Loi ¹ , Ruth Zhang ¹ , Changchun Fan ¹ , Zhenyu Yao ¹ , Stuart B. Goodman ^{1,2} Departments of Orthopaedic Surgery ¹ and Bioengineering ² , Stanford University |
| 70 | Mechanisms of Alternative Polyadenylation in Muscle Stem Cells | Antoine de Morrée ¹ , Qiang Gan ¹ , Biter Bilen ¹ , Thomas A. Rando ¹ Department of Neurology & Neurological Sciences ¹ , Stanford University |
| 71 | Partial TrkB Receptor Activation Enhances Interneuronal Function and Suppresses Epileptogenesis Following Traumatic Brain Injury | Feng Gu ¹ , Isabel Parada ¹ , Yunyong Ma ¹ , Tao Yang ¹ , Frank Longo ¹ , David Prince ¹ Department of Neurology & Neurological Sciences ¹ , Stanford University |
| 72 | NF-κB Decoy Oligodeoxynucleotide Mitigates Bone Loss in the Murine Femur During Continuous Infusion of Polyethylene Particles | Tzu-Hua Lin ¹ , Taishi Sato ¹ , Jukka Pajarinen ¹ , Changchun Fan ¹ , Florence Loi ¹ , Zhenyu Yao ¹ , S.B. Goodman ^{1,2} Departments of Orthopaedic Surgery ¹ and Bioengineering ² , Stanford University |
| 73 | Quantifying the Influence of Tumor Protein's Biophysical and Cellular Characteristics on Their Observability in Blood | Ravali Adusumilli ¹ , Justin Carden ¹ , Michelle Hori ¹ , Qiaojun Fang ² , Parag Mallick ¹ Canary Center at Stanford for Cancer Early Detection and Department of Radiology ¹ , Stanford University; National Center for Nanoscience & Technology ² , China |
| 74 | Modeling the Relationship Among Protein Concentration, Interaction Rates, and Network State | Justin Carden ¹ , Stephanie Van de Ven ¹ , Michelle Hori ¹ , Raghu Machiraju ² , Gheorghe Craciun ³ , Casian Pantea ⁴ , Parag Mallick ¹ Department of Radiology ¹ , Stanford University; Departments of Computer Science and Engineering ² , Ohio State University; Departments of Mathematics and Biomolecular Chemistry ³ , University of Wisconsin-Madison; Department of Mathematics ⁴ , West Virginia University |
| 75 | An Ebola-Centered Knowledge Base | Maulik R. Kamdar ¹ , Michel Dumontier ¹ Stanford Center for Biomedical Informatics Research and Department of Medicine ¹ , Stanford University |
| 76 | Droplet Fusion Mass Spectrometry for Fast Protein Kinetics | Jae Kyoo Lee ^{1,2} , Hong Gil Nam ^{2,3} , Richard N. Zare ¹ Department of Chemistry ¹ , Stanford University; Center for Plant Aging Research, Institute for Basic Science (IBS) ² and Department of New Biology ³ , Daegu Gyeongbuk Institute of Science & Technology, Republic of Korea |
| 77 | REIs: Renewable Energy Infrastructures | Chris Ford ¹ , Larry Leifer ¹ Department of Mechanical Engineering and |

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| | | Center for Design Research ¹ , Stanford University |
| 78 | Uncovering the Regulatory Network Governing the Proliferation-Differentiation Switch During Adipogenesis | Michael Zhao ¹ , Mingyu Chung ¹ , Mary Teruel ¹ Department of Chemical & Systems Biology ¹ , Stanford University |
| 79 | Developmental Expression of Opioid Receptors in Sensory Neural Circuits | Sarah Low ¹ , Chaudy Sotoudeh ¹ , Andrew Shuster ¹ , Gregory Scherrer ¹ Departments of Anesthesiology, Perioperative & Pain Medicine, Neurosurgery, and Molecular & Cellular Physiology ¹ , Stanford University |
| 80 | Low-Cost Fabrication of Aspheric Microlenses | Laurel Kroo ¹ , George Herring ² , Manu Prakash ³ Departments of Mechanical Engineering ¹ , Electrical Engineering ² , and Bioengineering ³ , Stanford University |
| 81 | Ultra-Fast Epithelium Contractions in the World's Simplest Animal | Shahaf Armon ¹ , William Gillpin ^{2*} , Andres Aranda-Diaz ^{1*} , Arjun Bhargava ¹ , Manu Prakash ¹ (*equal contribution) Departments of Bioengineering ¹ and Applied Physics ² , Stanford University |
| 82 | Third Party iNKT Cells Protect From GVHD Through Donor CD4+CD25+FoxP3+ Tregs | Dominik Schneidawind ¹ , Jeanette Baker ¹ , Antonio Pierini ¹ , Corina Buechele ² , Richard H. Luong ³ , Everett H. Meyer ¹ , Robert S. Negrin ¹ Departments of Medicine ¹ , Pathology ² , and Comparative Medicine ³ , Stanford University |
| 83 | Genome Engineering to Prospectively Investigate the Pathogenesis of MLL-Rearranged Acute Leukemias | Corina Buechele ¹ , Chiou-Hong Lin ¹ , Jesus Duque-Afonso ¹ , Erin H. Breese ² , Matthew Porteus ² , Dominik Schneidawind ³ , Robert S. Negrin ³ , Michael L. Cleary ¹ Departments of Pathology ¹ and Medicine (Divisions of Pediatric Hematology, Oncology, Stem Cell Transplantation & Cancer Biology ² , and Blood & Marrow Transplantation ³), Stanford University |
| 84 | Surgical Decompression of Lumbar Spinal Stenosis Normalizes Impairment in Objective Measures of Physical Activity: A Case-Control Study | Christy Tomkins-Lane ¹ , Matthew P. Buman ² , Agnes Martinez-Ith ¹ , William L. Haskell ³ , Ming- Chih Kao ⁴ , Matthew Smuck ¹ Departments of Orthopaedics ¹ , Medicine ³ , and Anesthesiology ⁴ , Stanford University; Department of Exercise & Wellness ² , Arizona State University |
| 85 | Pathways Analysis of Rare Maternal Variants in Autism | Chloe O'Connell ¹ , Sasha Sharma ^{2,3} , Jae-Yoon Jung ^{2,3} , Dennis P. Wall ^{2,3} Stanford Medical School ¹ , Department of Medicine (Division of Systems Medicine ²), Hartwell Autism Informatics Initiative (iHART) ³ , Stanford University |
| 86 | Longitudinal Thalamus Neuroanatomy in Adolescents with Bipolar I Disorder | Melissa Wei ¹ , Mira Raman ¹ , Manpreet K. Singh ¹ Department of Psychiatry & Behavioral Sciences ¹ , Stanford University |
| 87 | Everything Else Is Not Equal; Joint Analysis of Human Polymorphism and Mammalian Divergence Reveals Epistatic Interactions and Selection on Synonymous Sites in Humans | Arbel Harpak ¹ , Anand Bhaskar ² , Jonathan Pritchard ^{1,2} Departments of Biology ¹ and Genetics ² , Stanford University |
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