

Institute for Stem Cell and Regenerative Medicine
Stem Cell Meeting
November 5, 2007

POSTERS

1. The decline in Myf5+ satellite cells may represent a depletion of committed myogenic progenitors within aging muscle. **Kenneth Day**, Gabi Shefer, Kathryn Rider, Irina Kirillova and Zipora Yablonka-Reuveni
2. Molecular regulation of progenitor/precursor cell pools in the regenerating inner ear sensory epithelium. Vincent Lin, Nicolas Daudet, Robin Gibson, Jia Lin Shang, Julian Lewis, Elizabeth Oesterle and **Jennifer Stone**
3. *Hox1* expression in normal and regenerating *Ptychodera flava* hemichordates. **Amanda Rychel** and Billie Swalla
4. New life from old blood: a case of whole body regeneration by pluripotent blood cells. **Federico D. Brown**, E.L. Keeling, A. D. Le and Billie Swalla.
5. Butyrate, an HDAC inhibitor, reprograms hESC into an earlier stage. Carol Ware, Linlin Wang, Brig Meacham, Reza Forough, Angelique Nelson, Derek Dauphin, Daniel Miller, Muneesh Tewari, Merav Bar, Raymond Lim, **Zhijun Duan**, Paul Pavlidis, William Stafford Noble and Tony Blau.
6. How is position, time and amount of a regeneration blastema defined? **Anne Sustar** and Gerold Schubiger.
7. Efficient generation of retinal cells from human embryonic stem cells. **Deepak Lamba** and Thomas Reh.
8. Electrophysiological characterizations of human embryonic stem cell-derived cardiomyocytes. **Wei-Zhong Zhu** and Michael A. Laflamme.
9. Intermediate progenitors in adult hippocampal neurogenesis: Tbr2 expression and coordinate regulation of neuronal output. **Rebecca D. Hodge**, Thomas D. Kowalczyk, Susanne A. Wolf, Juan M. Encinas, Caitlin Rippey, Grigori Enikolopov, Gerd Kempermann and Robert F. Hevner.
10. Autophagy induction is a two-edged sword in the polyglutamine disease X-linked spinal and bulbar muscular atrophy: evidence for a temporal disconnection between protection and toxicity. **J.E. Young**, N. Gill, R.A. Martinez, G.A. Garden and A.R. La Spada.
11. Stem cells and nonhuman primate models for transplantation biology and medicine. **Eric Hayes**, Eliza Curnow, Jennie Potter and Tom Burbacher.
12. A novel in vitro model for prostate stromal-epithelial interaction and differentiation. **Laura E. Pascal**, Laura S. Page, Christina P. Shadle and Alvin Y. Liu
13. FGF signaling in the developing cochlea. **C. Ray**, T. Hayashi and O. Bermingham-McDonogh.
14. Hey genes delineate the sensory epithelium lineage in the developing inner ear. **T. Hayashi**, H. Kukubo, B. Hartman, T.A. Reh and O. Bermingham-McDonogh.
15. Cardiomyocyte grafts contract and alter the mechanical properties of surviving host myocardium in infarcted rat hearts. **F. Steven Korte**, Alicia Moreno Gonzalez, Jin Dai, Kent Chen, Hans Reinecke, Veronica Muskheli, Charles Murry and Michael Regnier.
16. Stem cells from skeletal muscle. **Nick Ieronimakis**, Gayathri Balasundaram and Morayma Reyes.
17. Morphological and parametric estimation of fetal neural stem cell migratory capacity in the rat brain. Jennifer A. Flexman, **Donna J. Cross**, Yongmin Kim and Satoshi Minoshima.
18. Characterization of ovarian cancer stem cells. **Robert Strauss**, Zong-Yi Li, Ying Liu, Pavel Sova, Charles Drescher, Nicole Urban and Andre Lieber.
19. Surface modification with Notch ligand, Jagged-1, encourages the differentiation of human keratinocytes in a rafted organ culture model. **JC Tung**, BL Beckstead, Z Tavakkol, P Fleckman, JE Olerud, BD Ratner and CM Giachelli.
20. Optimizing transduction and hematopoietic differentiation conditions for nonhuman primate embryonic stem cells. **Reeteka Sud**, Szczepan W. Baran, John Ngo, Philip M. Olsen, Angel N. Nelson, Darlene A. Pedersen, Jennie Potter, Carol B. Ware, Shoukhrat M. Mitalipov, Eric Hayes and Hans-Peter Kiem.
21. Beyond transcription: translational control during embryonic stem cell differentiation. **Prabha Sampath**, David Pritchard, David R. Morris, Stephen M. Schwartz and Charles E. Murry.
22. Cytosolic SYT/SS18 functions in stress fiber formation and establishment of specific cell-matrix adhesion. **Jaehong Kim** and William C. Parks.
23. Syndecan-1 shedding by matrilysin controls neutrophil activation. **Qinglang Li**, Sean E. Gill, Pyong W. Park, Ying Wang, Charles W. Frevert and William C. Parks.

24. Individual matrix metalloproteinases control distinct transcriptional responses in airway epithelial cells infected with *Pseudomonas aeruginosa*. **Sean Y. Kassim**, Sina A. Gharib, Brigham H. Mecham, Timothy P. Birkland, William C. Parks and John K. McGuire.
25. *Msx-1* expression in cells isolated and cultured from human fetal digits. **Wingshan Z. Lau**, Rima Kulikauskas, Marcia L. Usui, Robert A. Underwood and Christopher H. Allan.
26. BMP4 induces changes in Jagged 1 expression in bone marrow stroma: association with induction of Notch regulated genes in CD34+ cells. **Sara R. Fagerlie**, Mineo Iwata, Lynn Graf and Beverly Torok-Storb.
27. Derivation and characterization of canine embryonic stem cells. **Sara R. Fagerlie, Brian Hayes**, Aravind Ramakrishnan, Szczepan Baran, Mike Harkey, Lynn Graf and Beverly Torok-Storb.
28. Characterization of miRNA profiles in human embryonic stem cell lines. **Bradford Stadler**, Kshama Metha, Michele Cleary, Patrick Lewis, Angel Nelson, Carol Ware and Hannele Ruohola-Baker.
29. Hematopoietic cell transplantation provides an immune-tolerant platform for myoblast transplantation in dystrophic dogs. **Maura H. Parker**, Stephen J. Tapscott and Rainer Storb.
30. Shifting replication borders and tissue-specific gene regulation near R/G band boundaries. Barbara Huse, Theresa K. Canfield, Stanley M. Gartler and **R. Scott Hansen**.
31. Mitochondrial DNA studies in human embryonic stem cells. **Lilyana Margaretha** and C. Anthony Blau.
32. Engineering a three-dimensional and expandable human cardiac tissue patch from human embryonic stem cells. **Kelly R. Stevens**, Lil Pabon and Charles E. Murry.
33. IRB concerns regarding donation of excess embryos to human embryonic stem cell research. **Erica C. Jonlin**.
34. Foamy virus vectors for gene therapy in human embryonic stem cells. **Maja Zavaljevski**, Helen Gharwan, Carol Ware, Peirong Wang, Roli Hirata, James Allen, Erik Olson and David Russell.
35. FGFRs in human embryonic stem cell self-renewal. **Linlin Wang**, Derek Dauphin, Jeff Okada, Xiaoji Chen and C. Anthony Blau.
36. Dual transfer of gene and MR contrast agent into stem-progenitor cells: toward in vivo MR imaging of stem cell-mediated gene therapy. **Bensheng Qiu**, Xiangcan Zhan, Piper Treuting, Charles W. Frevert and Xiaoming Yang.
37. X-ray induced cataracts develop suddenly after months of normal lens status post-radiation, suggesting an exhaustion of undamaged lens stem cells. **Norman S. Wolf**, William R. Pendergrass and Philip Penn.
38. Stem cell robustness involves a compensatory maintenance pathway in the *Drosophila* germline. **Halyna R. Shcherbata**, Ellen J. Ward, Karin A. Fischer, Jenn-Yah Yu, Steven H. Reynolds and Hannele Ruohola-Baker.
39. Stem cells signal to the niche through the Notch pathway in *Drosophila* ovary. **Ellen J. Ward**, Halyna R. Shcherbata, Steven H. Reynolds, Karin A. Fischer, Steven Hatfield and Hannele Ruohola-Baker.
40. Insulin receptor pathway regulates miRNA and p21/dacapo dependent regulation of the *Drosophila* germ line stem cells. **Jenn-Yah Yu**, Steven D. Hatfield, Halyna R. Shcherbata, Karin A. Fischer, Hannele Ruohola-Baker.
41. More than one way to make a stripe: pigment pattern development in *Danio* species. **Larissa B. Patterson** and David M. Parichy.
42. Functional expression of VLA-4 integrin by myeloblasts confers prognostic significance for patients with acute myeloid leukemia. **PS Becker**, KJ Kopecky, AN Wilks, JM Harlan, CL Willman, SH Petersdorf, T Pappayannopoulou and FR Appelbaum.
43. Transduction of human and murine hematopoietic progenitors with a lentiviral vector for Fanconi anemia complementation Group A. **PS Becker**, GD Trobridge, J Taylor, S Chien, AN Wilks, K Yaraei and H-P Kiem.
44. Receptor tyrosine kinase activation in the secretory pathway promotes Golgi fragmentation. **Leslyann C Schecterson**, Mark PI Hudson, Mabel Ko and Mark Bothwell.
45. Temporal requirement for *erbb3* during zebrafish adult pigment pattern formation. **Erine Budi**, Erin McDonald and David M. Parichy.
46. Matrilysin (MMP-7) regulates pulmonary influx of an anti-fibrotic population of dendritic cells expressing CD103. **McGuire JK**, Huizar I and Manicone AM.
47. Elucidating the roles of basic-helix-loop-helix transcription factors during stomatal differentiation. **Lynn Jo Pillitteri**, Daniel B. Sloan, Naomi L. Bogenschutz, Jessica Messmer McAbee and Keiko U Torii.
48. ERECTA-family LRR-RLKs coordinate organ growth and epidermal patterning. **Masahiro Kanaoka**, Jessica Messmer McAbee and Keiko U. Torii.
49. Neuregulin dysregulation and progenitor amplification in human ALS. **Berit E. Jacobson**, John Ravits and Philip Horner.
50. EGFR Signaling regulates the proliferation of larval intestinal stem cells in *Drosophila*. **Huaqi Jiang** and Bruce Edgar.