

*Baylor College of Medicine*  
*MD/PhD Program*  
*Journal Publications by Students*  
*Academic Year 2004-2005*

**Bansal V**, Patel S, Saggau P. High Speed Confocal Laser Scanning Microscopy Using Acousto-Optic Deflectors and a Digital Micromirror Device; Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XI; Conchello J-A, Cogswell CJ, Wilson T (eds.); *Proceedings of SPIE*. 2005; 5324: 47-54.

Velagaleti GV\* and **Bien-Willner GA\***, Northrup JK, Lockhart LH, Hawkins JC, Jalal SM, Withers M, Lupski JR, Stankiewicz P. Position Effects Due to Chromosome Breakpoints that Map ~900 Kb Upstream and ~1.3 Mb Downstream of SOX9 in Two Patients with Campomelic Dysplasia (2005) *Am J Hum Genet* 2005 Apr; 76(4): 652-62. (\* equally contributing authors).

**Bien-Willner GA**, Stankiewicz P, Lupski JR, Northrup JK, Velagaleti GVN. Interphase FISH Screening for the LCR-Mediated Common Rearrangement of Isochromosome 17q in Primary Myelofibrosis. *Am J Hematol* 2005 Aug; 79(4): 309-13.

Shaw CJ, Stankiewicz P, **Bien-Willner G**, Bello SC, Shaw C, Carrera M, Perez Juado L, Estivil X, Lupski JR. Small Marker Chromosomes in Two Patients With Segmental Aneusomy for Proximal 17p. *Human Genet*. 2004 Jun; 115(1): 1-7.

**Bohnsack BL**, Hirschi KK. Red Light, Green Light: Integrating Growth Factor Regulation of Endothelial Cell Proliferation During Vascular Development. *Cell Cycle*. 2004 Dec; 3(12): 1506-11.

**Loo C**, Hirsch L, Lee M, **Chang E**, West J, Halas N, Drezek R. Gold Nanoshell Bioconjugates for Molecular Imaging in Living Cells. *Optics Letters* 2005 May 1; 30(9): 1012-4.

Samuel VT, Liu ZX, Qu X, **Elder BD**, Bilz S, Befroy D, Romanelli AJ, Shulman GI. Mechanism of Hepatic Insulin Resistance in Non-Alcoholic Fatty Liver Disease. *J Biol Chem*. 2004 Jul; 279(31): 32345-53.

**Glass D. 2nd**, Bialek P, Ahn JD, Starbuck M, Patel MS, Clevers H, Taketo MM, Long F, McMahon AP, Lang RA, Karsenty G. Canonical Wnt Signaling in Differentiate Osteoblasts Controls Osteoclast Differentiation. *Dev Cell*. 2005 May; 8(5): 751-64.

**Hanks BA**, Jiang J, Singh R, Song W, Barry MA, Slawin KM, Spencer DM. Reengineered CD40 Receptor Enables Potent Pharmacological *In Vivo* Activation of Dendritic Cell Cancer Vaccines. *Nature Medicine*. 2005 Feb; 11(2): 130-7.

- Ho TH**, Bundman D, Armstrong DL, Cooper TA. Transgenic Mice Expressing CUG-BP1 Reproduces the Splicing Mis-Regulation Observed in Myotonic Dystrophy. *Hum. Mol. Gen.* 2005 Jun 1; 14(11): 1539-47.
- Ho TH**, Savkur RS, Poulos MG, Mancini MA, Swanson MS, Cooper TA. Co-Localization of MBNL1 with RNA Foci is Separable from Mis-Regulation of Alternative Splicing in Myotonic Dystrophy. *J Cell Sci.* 2005 Jul 1; 118(Pt 13): 2923-33.
- Loo C**, Lowery A, West J, Halas N, Drezek R. Immunotargeted Nanoshells for Integrated Cancer Imaging and Therapy. *Nanoletters.* 2005 Apr; 5(4): 709-11.
- Loo C**, Lin A, Hirsch L, Lee M, Barton J, Halas N, West J, Drezek R. Chapter 12: Diagnostic and Therapeutic Applications of Metal Nanoshells. *Nanofabrication for Biomedical Applications.* 2005; Wiley-VCH, pp. 327-342.
- Verstreken P, **Ly C**, Venken KJT, Koh TW, Zhou Y, Bellen HJ. Synaptic mitochondria are critical for mobilization of reserve pool vesicles at *Drosophila* neuromuscular junctions. *Neuron.* 2005 Aug 4; 47(3): 365-78.
- Wysocki G, **McCurdy M**, So S, Weidmann D, Roller C, Curl R, and Tittel F. Pulsed Quantum Cascade Laser Based Sensor for Trace-Gas Detection of Carbonyl Sulfide. *Applied Optics B.* 2004; 43: 6040-6046.
- Mehta SQ**, Hiesinger PR, Beronja S, Zhai RG, Schulze KL, Verstreken P, Cao Y, Zhou Y, Tepass U, Crair MC, Bellen HJ, Mutations in *Drosophila Sec15* Reveal a Function in Neuronal Targeting for a Subset of Exocyst Components. *Neuron.* 2005 Apr; 46(2): 219-32.
- Hiesinger PR, Fayyazuddin A, **Mehta SQ**, Rosenmund T, Schulze KL, Zhai RG, Verstreken P, Cao Y, Zhou Y, Kunz J, Bellen HJ. The v-ATPase V<sub>0</sub> Subunit a1 is Required for a Late Step in Synaptic Vesicle Exocytosis in *Drosophila*. *Cell.* 2005 May 20; 121(4): 607-20.
- Mok H**, Jelinek J, Pai S, Cattanaach BM, Prchal JT, Youssoufian H, Schumacher A. Disruption of Ferroportin 1 Regulation Causes Dynamic Alterations in Iron Homeostasis and erythropoiesis in Polycythaemia Mice. *Development.* 2004 Apr; 131(8): 1859-1868.
- Mok H**, Mendoza M, Prchal JT, Balogh P, Schumacher A. Dysregulation of Ferroportin 1 Interferes with Spleen Organogenesis in Polycythaemia Mice. *Development.* 2004 Oct; 131(19): 4871-4881.
- Lee SH, **Nishino M**, Mazumdar T, Garcia GE, Galfione M, Lee FL, Lee CL, Liang A, Kim J, Feng L, Eissa NT, Lin SH, and Yu-Lee LY. Antiangiogenic effect of 16-kDa prolactin involves the inhibition of the IRF-1 pathway that regulates iNOS expression. *Cancer Research.* 2005 Sep 1; 65(17): 7984-92.

- Yang Y, Yang F, Xiong Z, Yan Y, Wang X, **Nishino M**, Mirkovic D, Nguyen J, Wang H, Yang XF. An N-terminal region of translationally controlled tumor protein is required for its antiapoptotic activity. *Oncogene*. 2004 Apr 1; 23(14): 2499-506.
- Pappu KS, **Ostrin EJ**, Middlebrooks BW, Tavsanli-Sili B, Chen R, Gibbs R, Mardon G. Dual Regulation and Redundant Function of Two Eye Enhancers of the *Drosophila* Retinal Determination Gene *Dachshund*. *Development*. 2005 Jun; 132(12): 2895-905.
- Frankfort BJ, **Pepple KL**, Mamlouk M, **Rose MF**, Mardon G. 2004. Senseless is Required for Pupal Retinal Development in *Drosophila*. *Genesis*. 2004 Apr; 38(4): 182-94.
- Hunter DG, Nusz KJ, Gandhi NK, **Quraishi IH**, Gramatikov BI, Guyton DL. Automated Detection of Ocular Focus. *J. Biomed. Opt.* 2004 Sep-Oct; 9(5): 1103-9.
- Tsuda H, Jafar-Nejad H, Patel AJ, Sun Y, Chen HK, **Rose MF**, Venken KJT, Botas J, Orr HT, Bellen HJ, Zoghbi HY. The Gfi-1/Senseless interaction with mammalian/*Drosophila* Ataxin-1 protein mediates neurodegeneration in Spinocerebellar Ataxia 1. *Cell*. 2005 Aug 26; 122(4): 633-44.
- Koshikawa N, Minegishi T, **Sharabi A**, Quaranta V, Seiki M. Membrane-Type Matrix Metalloproteinase-1 (MT1-MMP) is a Processing Enzyme for Human Laminin Gamma 2 Chain. *J Biol Chem*. 2005 Jan 7; 280(1): 88-93.
- Wang VY\***, **Rose MF\***, Zoghbi HY. Math1 expression redefines the rhombic lip and reveals novel lineages within the brainstem and cerebellum. *Neuron*. 2005 Oct 6; 48(1): 31-43. (\*equal contribution, with cover)