



Student Publications 2013 and Prior

2013

Viviano J, Wu H, Venkataraman V* (2013) Evolutionary Interrelationships and Insights into Molecular Mechanisms of Functional Divergence: An Analysis of Neuronal Calcium Sensor Proteins. *J Phylogen Evolution Biol* 1: 117. doi:10.4172/2329-9002.1000117

Schwinghammer K, Cheung AC, **Morozov YI, Agaronyan K**, Temiakov D*, Cramer P. Structure of human mitochondrial RNA polymerase elongation complex. *Nat Struct Mol Biol.* 2013 Nov;20(11):1298-303. doi: 10.1038/nsmb.2683. Epub 2013 Oct 6.

Guo, Y, Chen, X and Ellis, RE*. (2013) Evolutionary Change Within a Bipotential Switch Shaped the Sperm/Oocyte Decision in Hermaphroditic Nematodes. *PLoS Genet.* 9: e1003850.

Jin,C., Parshin, AK., Daly. I ., Strich, R and Cooper K.F* (2013) (2013) The Cell Wall Sensors Mtl1, Wsc1, and Mid2 Are Required for Stress-Induced Nuclear to Cytoplasmic Translocation of Cyclin C and Programmed Cell Death in Yeast. *Oxidative Medicine and Cellular Longevity.* Epub dx.doi.org/10.1155/2013/320823. PMID: 24260614

Ellis RE*, Chen X. Sex determination: how worms count to two. *Current Biology* 2013 Jul 8;23(13):R573-5. doi: 10.1016/j.cub.2013.05.046.

Tan GS, Lewandowski R, Mallory MJ, Strich R*, Cooper K.F. (2013) Mutually dependent degradation of Ama1p and Cdc20p terminates APC/C ubiquitin ligase activity at the completion of meiotic development in yeast. *Cell Div.* Jul 1;8(1):9. PMID: 23816140.

B. Wu, J.A.Walker, D.Temmermand, K.Mian, B.Spur, A.Rodriguez, T.P.Stein, P.Banerjee, K.Yin*. (2013) LipoxinA4 promotes more complete inflammation resolution in sepsis compared to stable lipoxinA4 analog. *Prostaglandins Leukotrienes Essent. Fatty Acids Volume* 89, July 2013, Pages 47–53.

N. K. Acharya, E. P. Nagele, M. Han, R. G. Nagele*. Autoantibodies: Double agents in human disease. *Sci. Transl. Med.* 2013 May 22; 5(186):186fs19.

Nagele EP, Han M, Acharya NK, DeMarshall C, Kosciuk MC and Nagele RG*. Natural IgG autoantibodies are abundant and ubiquitous in human sera, and their number is influenced by age, gender, and disease. *PLoS ONE*, 8(4): e660726, Apr 2013.

Harini Krishnan, Jhon A. Ochoa-Alvarez, Yongquan Shen, Evan Nevel, Meenakshi Lakshminarayanan, Mary C. Williams, Maria I. Ramirez, W. Todd Miller, and Gary S. Goldberg*. (2013) Serines in the Intracellular Tail of Podoplanin (PDPN) Regulate Cell Motility. *J. Biol. Chem.* 2013 288: 12269. doi:10.1074/jbc.P113.457499.

Acharya NK, Levin EC, Clifford PM, Han M, Tourtellotte R, Chamberlain D, Pollaro M, Coretti NJ, Kosciuk MC, Nagele EP, Demarshall C, Freeman T, Shi Y, Guan C, Macphee CH, Wilensky RL, Nagele RG*. Diabetes and

Hypercholesterolemia Increase Blood-Brain Barrier Permeability and Brain Amyloid Deposition: Beneficial Effects of the LpPLA2 Inhibitor Darapladib. J Alzheimers Dis. 2013 Feb 6. [Epub ahead of print]

Saitta P, Cook CE, Messina JL, Brancaccio R, **Wu BC**, Grekin SK, Holland J. Is There a True Concern Regarding the Use of Hair Dye and Malignancy Development?: A Review of the Epidemiological Evidence Relating Personal Hair Dye Use to the Risk of Malignancy. J Clin Aesthet Dermatol. 2013 Jan;6(1):39-46.

Bin Lu, Jae Lee, Xiaobo Nie, Min Li, **Yaroslav I. Morozov**, Sundararajan Venkatesh, Daniel F. Bogenhagen, Dmitry Temiakov*, and Carolyn K. Suzuki. Phosphorylation of Human TFAM in Mitochondria Impairs DNA Binding and Promotes Degradation by the AAA+ Lon Protease. Molecular Cell 2013 Jan; 49(1) pp. 121-132.

2012

Manish Verma, Nataly Shulga, and John G Pastorino*. Sirtuin-3 Modulates Bak/Bax Dependent Apoptosis. Journal of Cell Science 29 Oct 2012 (doi:10.1242/jcs.115188).

Manish Verma, Nataly Shulga, and John G. Pastorino*. Sirtuin-4 Modulates Sensitivity to Induction of the Mitochondrial Permeability Transition Pore. (2012) Biochim Biophys Acta. 2012 Oct 5. pii: S0005-2728(12)01039-0. doi: 10.1016/j.bbabi.2012.09.016. [Epub ahead of print].

Rotoli, S. M., Biswas-Fiss E. E., and Biswas, S. B.* (2012) Quantitative analysis of the mechanism of DNA binding by Bacillus DnaA protein. Biochimie. 2012 Sep 10. pii: S0300-9084(12)00343-4. doi: 10.1016/j.biochi.2012.08.019. [Epub ahead of print].

Harini Krishnan, W. Todd Miller, Gary S. Goldberg*. Src Points the Way to Biomarkers and Chemotherapeutic Targets. Genes & Cancer. Published online before print. September 6, 2012, doi:10.1177/1947601912458583.

Jhon Alberto Ochoa-Alvarez, Harini Krishnan, Yongquan Shen, **Nimish K. Acharya, Min Han**, Dean E. McNulty, Hitoki Hasegawa, Toshinori Hyodo, Takeshi Senga, Jian-Guo Geng, Mary Kosciuk, Seung S. Shin, James S. Goydos, Dmitry Temiakov, Robert G. Nagele*, Gary S. Goldberg* (2012) Plant Lectin Can Target Receptors Containing Sialic Acid, Exemplified by Podoplanin, to Inhibit Transformed Cell Growth and Migration. PLoS ONE 7(7): e41845. doi:10.1371/journal.pone.0041845

Nimish K. Acharya, Eric P. Nagele, **Min Han**, **Nicholas J. Coretti**, **Cassandra DeMarshall**, Mary C. Kosciuk, Paul A. Boulos, and Robert G. Nagele* (2012) Neuronal PAD4 expression and protein citrullination: Possible role in production of autoantibodies associated with neurodegenerative disease. Journal of Autoimmunity. Science Direct: Volume 38, Issue 4, June 2012, Pages 369–380.

Esther E. Biswas-Fiss, **Jirayu Kukaritirat**, and Subhasis B. Biswas*. Thermodynamic analysis of DNA binding by a Bacillus single stranded DNA binding protein. BMC Biochemistry 2012 13:10.

Vadla B, Kemper K, **Alaimo J**, **Heine C**, and Moss EG* (2012) lin-28 controls the succession of cell fate choices via two distinct activities. PLoS Genet 8(3): e1002588. doi:10.1371/journal.pgen.1002588

Cooper KF*, **Scarnati MS**, Krasley E, Mallory MJ, **Jin C**, Law MJ, Strich R. (2012) Oxidative-stress-induced nuclear to cytoplasmic relocalization is required for Not4-dependent cyclin C destruction. J Cell Sci. Feb 15;125(Pt 4):1015-26. Epub 2012 Mar 15.

Han M, Nagele E, **DeMarshall C**, **Acharya N**, Nagele R* (2012) Diagnosis of Parkinson's Disease Based on Disease-Specific Autoantibody Profiles in Human Sera. PLoS ONE 7(2):e32383. doi:10.1371/journal.pone.0032383.

2011

Rieke Ringel, Marina Sologub, **Yaroslav I. Morozov, Dmitry Litonin**, Patrick Cramer, and Dmitry Temiakov* (2011). Structure of human mitochondrial RNA polymerase. *Nature* 478:269-273.

Robert G. Nagele*, **Peter M. Clifford, Gilbert Siu, Eli C. Levin, Nimish K. Acharya, Min Han, Mary C. Kosciuk, Venkat Venkataraman, Semah Zavareh, Shabnam Zarrabi, Kristin Kinsler, Nikhil Patel, Eric P. Nagele, Jacqueline Dash, Hoau Y. Wang, Andrew Levitas** (Handling Associate Editor: Thomas Shea). (2011). Brain-Reactive Autoantibodies Prevalent in Human Sera Increase Intraneuronal Amyloid- β 1-42 Deposition. *Journal of Alzheimers Disease*. Jan 1; 25(4):605-622.

Baldi C, Viviano J, Ellis RE*. A Bias Caused by Ectopic Development Produces Sexually Dimorphic Sperm in Nematodes. *Current Biology*. 23 August 2011. 21(16) pp. 1416-1420.

Nagele E, **Han M, DeMarshall C, Belinka B, Nagele RG***. Diagnosis of Alzheimer's disease based on disease-specific autoantibody profiles in human sera. *PLoS ONE* 2011; 6(8):e23112. Epub 2011 Aug 3.

Walker J, Dichter E, **LaCorte G, Kerner D, Spur B, Rodriguez A, Yin K***. Lipoxin A4 Increases Survival by Decreasing Systemic Inflammation and Bacterial Load in Sepsis. *Shock* 2011 PubMed PMID: 21701419 2011 Oct; 36(4): 410-416. Jun 16. Epub.

Jhon Alberto Ochoa-Alvarez, Candacy George, Harini Krishnan, Xiaoxuan Wu and Gary S. Goldberg*. (2011) Contact Normalization: Mechanisms and Pathways to Biomarkers and Chemotherapeutic Targets in Extracellular and Intracellular Signaling, Editors James D Adams and Keith Parker. Cambridge: Royal Society of Chemistry Publishing.

McNulty DE, Li Z, White CD, Sacks DB, Annan RS*. Map kinase scaffold IQGAP1 binds the EGF receptor and modulates its activation. *J Biol Chem*. 2011 Feb 24. [Epub ahead of print]

2010

Ellis, R.E.* and **Wei, Q.** 2010. Somatic signals counteract reproductive aging in females. *Genome Biology* 11: 142.

Strich, R.*, **S. Khakhina**, and M. J. Mallory. Ume6p is Required for Germination and Early Colony Development of Yeast Ascospore. *FEBS Yeast* 11:104-113. First published 9 Nov 2010.

Wang M, Pestov DG*. 5'-end surveillance by Xrn2 acts as a shared mechanism for mammalian pre-rRNA maturation and decay. *Nucleic Acids Research*, doi: 10.1093/nar/gkq1050. 2010 October 29.

Levin, EC, NK Acharya, M Han, S Zavareh, JC Sedeyn, V Venkataraman* and RG Nagele*. (2010) Brain-reactive autoantibodies are nearly ubiquitous in human sera and may be linked to pathological changes in the context of blood-brain barrier breakdown. *Brain Research*. Volume 1345, 23 July 2010, Pages 221-232.

Khusial, P.R., **Vadla, B., Krishnan, H.**, Ramlall, T.F., Shen, Y., Ichikawa, H., Geng, J.-G., and Goldberg, G.S.* (2010). Src activates Abl to augment Robo1 expression in order to promote tumor cell migration. *Oncotarget* 4, 198-209. (*highlighted in news section and issue cover illustration*)

Litonin D, Sologub M, Shi Y, Savkina M, Anikin M, Falkenberg M, Gustafsson CM, Temiakov D*. Human mitochondrial transcription revisited: only TFAM and TFB2M are required for transcription of the mitochondrial genes in vitro. *J Biol Chem*. 2010 Jun 11;285(24):18129-33. Epub 2010 Apr 21. PMID: 20410300 [PubMed - indexed for MEDLINE]

Srivastava L, Lapik YR, **Wang M**, Pestov DG*. Mammalian DEAD box protein Ddx51 acts in 3' end maturation of 28S rRNA by promoting the release of U8 snoRNA. Mol Cell Biol. 2010 Jun;30(12):2947-56. Epub 2010 Apr 19. PMID: 20404093 [PubMed - indexed for MEDLINE]

Anikin M, **Molodtsov V**, Temiakov D, McAllister WT* (2010) Transcript slippage and recoding. In Recoding: Expansion of Decoding Rules Enriches Gene Expression. Atkins, John F.; Gesteland, Raymond F. (Eds.). Springer Publishing

Balzer E, Heine C, Jiang Q, Lee VM, Moss EG*. LIN28 alters cell fate succession and acts independently of the let-7 microRNA during neurogliogenesis in vitro. Development. 2010 Mar;137(6):891-900.

Gilliss AC, **Swanson RL**, Janora D, Venkataraman V*: Sacroiliac Somatic Dysfunction Causing a Compensated Trendelenburg Gait: A Case Presentation. J Am Osteopath Assoc. 2010 Feb;110(2):81-6.

Yongquan Shen, **Chen-Shan Chen**, Hitoshi Ichikawa, and Gary S. Goldberg*. Src induces Pdpn expression to promote cell migration. J. Biol. Chem. 2010 Feb 1.

Natalia Shcherbik, **Minshi Wang**, Yevgeniya R. Lapik, Leena Srivastava, Dimitri G. Pestov*. Polyadenylation and degradation of incomplete RNA polymerase I transcripts in mammalian cells. EMBO reports 11, 106-111 (8 January 2010) doi:10.1038/embor.2009.271 Scientific Reports.

Maria Savkina, Dmitry Temiakov, William T. McAllister*, and Michael Anikin. Multiple Functions of Yeast Mitochondrial Transcription Factor Mtf1p during Initiation. J. Biol. Chem. 2010 285: 3957-3964. First Published on November 17, 2009, doi:10.1074/jbc.M109.051003

2009

Li, X., Shen, Y., Ichikawa, H., Antes, T., and Goldberg, G.S.* (2009) Regulation of miRNA expression by Src and contact normalization: effects on nonanchored cell growth and migration. Oncogene Vol 28, Issue 48 (3 December):4272-83.

Sologub M, **Litonin D**, Anikin M, Mustaev A, Temiakov D*. TFB2 is a transient component of the catalytic site of the human mitochondrial RNA polymerase. Cell. 2009 Nov 25;139(5):934-44. PMID: 19945377 [PubMed - indexed for MEDLINE]

Baldi C, Cho S, Ellis RE*. Mutations in two independent pathways are sufficient to create hermaphroditic nematodes. Science 2009 Nov 13;326(5955):1002-5.

Eli C. Levin, Nimish K. Acharya, Jonathan C. Sedeyn, Venkateswar Venkataraman, Michael R. D'Andrea, Hoau-Yan Wang, Robert G. Nagele*. Neuronal expression of vimentin in the Alzheimer's disease brain may be part of a generalized dendritic damage-response mechanism. Brain Research 2009. Volume 1298, 28 October 2009, Pages 194-207.

Ekaterina Stepanova, Minshi Wang, Konstantin Severinov and Sergei Borukhov1*. Early Transcriptional Arrest at Escherichia coli rplN and ompX. The Journal of Biological Chemistry, 284, 35702-35713. First Published on October 23, 2009, doi: 10.1074/jbc.M109.053983

Khusial PR, Vadla B, Goldberg GS*. Src Regulates the Expression of Lin28: Implications for Cell Growth, Adhesion, and Communication. Cell Commun Adhes. 2009 Apr 4:1-3.

2008

Clifford PM, Siu G, Kosciuk M, Levin EC, Venkataraman V, D'Andrea MR, Nagele RG*. Alpha7 nicotinic acetylcholine receptor expression by vascular smooth muscle cells facilitates the deposition of Abeta peptides and promotes cerebrovascular amyloid angiopathy.

Brain Res. 2008 Oct 9;1234:158-71. Epub 2008 Aug 3.

Andux S, Ellis RE* 2008 Apoptosis Maintains Oocyte Quality in Aging *Caenorhabditis elegans* Females. PLoS Genetics 4(12): e1000295 doi:10.1371/journal.pgen.1000295

Biswas, S.B. *, **Clark, J.J.**, Kurpad, D.S., & Biswas, E.E. (2008) "Bacterial Replicative DNA Helicases" in DNA Helicases, Ed. Frank Columbus, Nova Publishers Inc. Hauppauge, NY, In Press.

Li, Xun, Jia, Zhenyu, Shen, Yonquan, Ichikawa, Hitoshi, Jarvik, Jonathan, Nagele, G Robert, Goldberg*, S Gary. Coordinate suppression of Sdpr and Fhl1 expression in tumors of the breast, kidney, and prostate. Cancer Science, Vol. 99, No. 7. pp. 1326-1333 (2008).

Balzer RJ, Henry MF*. Snu56p is Required for Mer1p-Activated Meiotic Splicing. Mol Cell Biol. Vol. 28: 2497-508 (2008).

2007

Madhuri Pahuja, Michael Anikin, Gary S. Goldberg*. Phosphorylation of connexin43 induced by Src: Regulation of gap junctional communication between transformed cells. Experimental Cell Research (313): 4083-4090, 2007.

Rajiv P. Bandwar, Na Ma, **Steven A. Emanuel**, Michael Anikin, Dmitry G. Vassylyev, Smita S. Patel, and William T. McAllister*. The Transition to an Elongation Complex by T7 RNA Polymerase Is a Multistep Process. J. Biol. Chem. 282 (31): 22879-86, 2007.

Shen, Y., Khusial, P.K., **Li, X.**, Ichikawa, H., Moreno, A.P., and Goldberg, G.S. Src utilizes Cas to block gap junctional communication mediated by connexin43. J. Biol. Chem. 282(26):18914-21, 2007.

Yin K. Gribbin E. **Emanuel S.** Orndorff R. Walker J. Weese J. Fallahnejad M. Histochemical alterations in one lung ventilation. Journal of Surgical Research. 137(1):16-20, 2007.

Peter M. Clifford, Shabnam Zarrabi, Gilbert Siu, Kristin J. Kinsler, Mary C. Kosciuk, Venkateswar Venkataraman, Michael R. D'Andrea, Steven Dinsmore and Robert G. Nagele*. Abeta peptides can enter the brain through a defective blood-brain barrier and bind selectively to neurons. Brain Research. Brain Research 1142: 223-236 (2007).

Siu G, Clifford P, Kosciuk M, Venkataraman V, Nagele RG.* (2007). Glial cells and Ab peptides in Alzheimer's disease pathogenesis. In: *Abeta Peptide and Alzheimer's Disease: Celebrating a Century of Research*. CJ Barrow and DH Small (Eds). Chapter 13. Springer.

Balzer E and Moss EG*. Localization of the developmental timing regulator Lin28 to mRNP complexes, P-bodies and stress granules. RNA Biology 2007 Jan-Mar;4(1):16-25.

2006

V. Flati, A. Allegrini, F. Cipollone, A. Tavella-Scaringi, A. Mezzetti, R. Faricelli, X.P. Chen, **T. Brown**, P. Rothman, M. P. Olivieri, S. Ursi, S. Perconti, S. Martinotti and E.M. Toniato. (2006). Regulation of Stability and Fate of TRIM8/SOCS-1 Complexes by Serine/Threonine Kinase Activity. International Cytokine Conference, Proceedings of the 6th International Cytokine Conference, Schwarzmeier, Josef, ed. Wien: Medimond, pages 47-53.

2005

Department of Cell Biology

Newberg AB, Wang J, Rao H, **Swanson RL**, Wintering N, Karp JS, Alavi A, Greenberg JH, Detre JA. Concurrent CBF and CMRGlc changes during human brain activation by combined fMRI-PET scanning. *Neuroimage*. 2005 Nov 1;28(2):500-6. Epub 2005 Aug 3. PMID: 16084114 [PubMed - indexed for MEDLINE]

Newberg AB, Amsterdam JD, Wintering N, Ploessl K, **Swanson RL**, Shults J, Alavi A. 123I-ADAM binding to serotonin transporters in patients with major depression and healthy controls: a preliminary study. *J Nucl Med*. 2005 Jun;46(6):973-7. PMID: 15937308 [PubMed - indexed for MEDLINE]

Swanson RL, Newberg AB, Acton PD, Siderowf A, Wintering N, Alavi A, Mozley PD, Plossl K, Udeshi M, Hurtig H. Differences in [99mTc]TRODAT-1 SPECT binding to dopamine transporters in patients with multiple system atrophy and Parkinson's disease. *Eur J Nucl Med Mol Imaging*. 2005 Mar;32(3):302-7. Epub 2004 Oct 2. PMID: 15791439 [PubMed - indexed for MEDLINE]

Temiakov D*, Zenkin N, Vassylyeva MN, Perederina A, Tahirov TH, Kashkina E, **Savkina M**, Zorov S, Nikiforov V, Igarashi N, Matsugaki N, Wakatsuki S, Severinov K, Vassylyev DG. Structural basis of transcription inhibition by antibiotic streptolydigin. *Mol Cell*. 2005 Sep 2;19(5):655-66.

Department of Molecular Biology

Dimitriu C, **Sayers CW**, Coleman J, Shain DH*. Two-Dimensional Ultrastructural Elements lead to Three-Dimensional Reconstruction of Protuberances on the Cocoon Membrane of Leech, *Theromyzon tessulatum*. *Tissue&Cell*. 2006 Feb;38(1):35-41. Epub 2005 Dec 6.

Muller-Weeks S, **Balzer RJ**, Anderson R, Caradonna S*. Proliferation-dependent expression of nuclear uracil-DNA glycosylase is mediated in part by E2F-4. *DNA Repair* (Amst). 2005 Feb 3;4(2):183-90.

Sayers CW, Guevara MI, Coleman J, Coral AL, Shain DH*. Clitellar Dynamics During Cocoon Secretion in Leech. *NJ Acad. of Sci.* 2005.

Mason TA, **Sayers CW**, Paulson TL, Coleman J, Shain DH*. Cocoon Deposition and Hatching in Aquatic Leech, *Theromyzon tessulatum*. *Am. Midl. Nat.* 2005 154:78-87.

2004

Department of Molecular Biology

Robert G. Nagele, **Gilbert Siu**, Alison M. Rigby and. Mary C. Kosciuk. (2004). Chromosome rosettes, interchromosomal tethers and the origin of aneuploidy. *Cellular Oncology*. 26, 199-204.

Damek-Poprawa M, **Krouse J**, Gretzula C, Boesze-Battaglia K*. A novel tetraspanin fusion protein, peripherin-2, requires a region upstream of the fusion domain for activity. *J Biol Chem*. 2004 Dec 9; [Epub ahead of print].

Koehler SE, Ladner, RD*. Small interfering RNA-mediated suppression of dUTPase sensitizes cancer cell lines to thymidylate synthase inhibition. *Mol Pharmacol*. 2004 Sep;66(3):620-6.

Fischer JA, Muller-Weeks S, and Caradonna S*. Proteolytic degradation of the nuclear isoform of uracil-DNA glycosylase occurs during the S phase of the cell cycle. *DNA Repair (Amst)*. 2004 May 4;3(5):505-13.

Mandola MV, Stoehlmacher J, Zhang W, Groshen S, Yu MC, Iqbal S, Lenz HJ, Ladner RD*. A 6 bp polymorphism in the thymidylate synthase gene causes message instability and is associated with decreased intratumoral TS mRNA levels. *Pharmacogenetics*. 2004 May;14(5):319-27.

Mao YW, Liu JP, Xiang H, Li DW*. Human alphaA- and alphaB-crystallins bind to Bax and Bcl-X(S) to sequester their translocation during staurosporine-induced apoptosis. *Cell Death Differ*. 2004 May;11(5):512-26.

Xu C, Henry MF*. Nuclear export of hnRNP Hrp1p and nuclear export of hnRNP Npl3p are linked and influenced by the methylation state of Npl3p. *Mol Cell Biol*. 2004 Dec;24(24):10742-56.

2003

Department of Cell Biology

Qiu G, Gribbin E, Harrison K, Sinha N, and Yin K*. Inhibition of gamma interferon decreases bacterial load in peritonitis by accelerating peritoneal fibrin deposition and tissue repair. *Infection and Immunity*. 2003 71(5):2766-2774.

Wang C, Kuzma M, **Qiu G**, and Yin K*. Heterogenous and compartment-specific activation of mononuclear phagocytes in intra-abdominal sepsis. *Experimental Lung Research*. 2003 29(7):503-521.

Department of Molecular Biology

Doong H, **Rizzo K**, Fang S, Kulpa V, Weissman AM, Kohn EC*. CAIR-1/BAG-3 abrogates heat shock protein-70 chaperone complex-mediated protein degradation: accumulation of poly-ubiquitinated Hsp90 client proteins. *J Biol Chem*. 2003 Aug 1;278(31):28490-500. Epub 2003 May 14.

Elateri I, Muller-Weeks S, and Caradonna S*. The transcription factor, NFI/CTF plays a positive regulatory role in expression of the hSMUG1 gene. *DNA Repair (Amst)*. 2003 Dec 9;2(12):1371-85.

Elateri I, **Tinkelenberg BA**, Hansbury M, Caradonna S*, Muller-Weeks S, Ladner RD*. hSMUG1 can functionally compensate for Ung1 in the yeast *Saccharomyces cerevisiae*. *DNA Repair (Amst)*. 2003 Mar 1;2(3):315-23.

Mandola MV, Stoehlmacher J, Muller-Weeks S, Cesarone G, Yu MC, Lenz HJ, Ladner RD*. A novel single nucleotide polymorphism within the 5' tandem repeat polymorphism of the thymidylate synthase gene abolishes USF-1 binding and alters transcriptional activity. *Cancer Res*. 2003 Jun 1;63(11):2898-904.

Tinkelenberg BA, **Fazzone W**, Lynch FJ, Ladner RD*. Identification of sequence determinants of human nuclear dUTPase isoform localization. *Exp Cell Res*. 2003 Jul 1;287(1):39-46.

Xu C, Henry PA, Setya A, Henry MF*. In vivo analysis of nucleolar proteins modified by the yeast arginine methyltransferase Hmt1/Rmt1p. *RNA*. 2003 Jun;9(6):746-59.

2002

Department of Molecular Biology

Stefano FP, Krouse J, Marta P, Boesze-Battaglia K*. Heterologous expression of WT and mutant photoreceptor peripherin/rds in Madin Darby canine kidney cells: an assessment of fusogenic function. *Exp Eye Res.* 2002 Feb;74(2):267-83.

Tinkelenberg BA, Hansbury MJ, Ladner RD*. dUTPase and uracil-DNA glycosylase are central modulators of antifolate toxicity in *Saccharomyces cerevisiae*. *Cancer Res.* 2002 Sep 1;62(17):4909-15.

Xiang H, **Wang J, Mao Y**, Liu M, Reddy VN, Li DW*. Human telomerase accelerates growth of lens epithelial cells through regulation of the genes mediating RB/E2F pathway. *Oncogene.* 2002 May 23;21(23):3784-91.

2001

Department of Cell Biology

Qiu G, Wang C, Smith R, Harrison K, and Yin K*. Role of IFN-g in bacterial containment in a model of intra-abdominal sepsis. *Shock.* 2001 16(6):425-429.

Qiu Y , Quilley J*. Apamin/charybdotoxin-sensitive endothelial K⁺ channels contribute to acetylcholine-induced, NO-dependent vasorelaxation of rat aorta. *Med Sci Monit.* 2001 Nov-Dec;7(6):1129-36.

Department of Molecular Biology

Li DW*, Xiang H, **Mao YW, Wang J, Fass U, Zhang XY, Xu C.** Caspase-3 is actively involved in okadaic acid-induced lens epithelial cell apoptosis. *Exp Cell Res.* 2001 Jun 10;266(2):279-91.

Mao YW, Xiang H, Wang J, Korsmeyer S, Reddan J, Li DW*. Human bcl-2 gene attenuates the ability of rabbit lens epithelial cells against H₂O₂-induced apoptosis through down-regulation of the alpha B-crystallin gene. *J Biol Chem.* 2001 Nov 16;276(46):43435-45. Epub 2001 Sep 06.

Shi G , Crivellone MD*, Edderkaoui B. Identification of functional regions of Cbp3p, an enzyme-specific chaperone required for the assembly of ubiquinol-cytochrome c reductase in yeast mitochondria. *Biochim Biophys Acta.* 2001 Aug 17;1506(2):103-16.

2000

Department of Cell Biology

Yin K*, Wilmanski J, **Wang C, Qiu G**, and Tahamont M. Lung compartmentalization of inflammatory cells in sepsis. *Inflammation.* 2000 24(6):547-557.

Department of Molecular Biology

Doong H, Price J, Kim YS, Gasbarre C, Probst J, Liotta LA, Blanchette J, **Rizzo K, Kohn E***. CAIR-1/BAG-3 forms an EGF-regulated ternary complex with phospholipase C-gamma and Hsp70/Hsc70. *Oncogene.* 2000 Sep 7;19(38):4385-95.

Xiang H, **Wang J, Mao YW, Li DW***. hTERT can function with rabbit telomerase RNA: regulation of gene expression and attenuation of apoptosis. *Biochem Biophys Res Commun.* 2000 Nov 30;278(3):503-10.

1999

Department of Cell Biology

Qiu Y, Quilley J*. Vascular effects of arachidonic acid in the rat perfused heart. Role of the endothelium, cyclooxygenase, cytochrome P450, and K(+) channels. *J Lipid Res.* 1999 Dec;40(12):2177-84.

1998

Department of Molecular Biology

Muller-Weeks S, **Mastran B**, Caradonna S*. The nuclear isoform of the highly conserved human uracil-DNA glycosylase is an Mr 36,000 phosphoprotein. *J Biol Chem.* 1998 Aug 21;273(34):21909-17.