

Genetics, Genomics & Development Faculty (9/01/09)

NAME/DEPARTMENT	RESEARCH INTERESTS	EMAIL ADDRESS AND WEBSITE OR PROFILE
MENTORING FACULTY:		
Sunil Ahuja, MD Medicine/Infectious Disease	Understanding the role of the chemokine system and other immune molecules in HIV-1 pathogenesis	ahuja@uthscsa.edu http://medicine.uthscsa.edu/InfectiousDiseases/facultystaff.aspx?p=0V71ETM44
Nedal Arar, PhD Medicine/Nephrology	Renal Disease	aram@uthscsa.edu http://medicine.uthscsa.edu/Nephrology/facultystaff.aspx?p=0V71ETMIB
Yidong Bai, PhD Cellular & Structural Biology	Mitochondrial, respiratory chain, complex assembly, turnover, copy number control	baiy@uthscsa.edu http://www.uthscsa.edu/csb/faculty/bai.asp
Alex Bishop, PhD Cellular & Structural Biology	understanding the contribution of different genes to genomic instability and the role of such instability in development, aging and carcinogenesis	bishopa@uthscsa.edu http://www.uthscsa.edu/csb/faculty/bishop.asp
Thomas Boyer, PhD Molecular Medicine	Biochemical, molecular, and cell biological approaches to study the regulation of eukaryotic RNA polymerase II transcription	boyer@uthscsa.edu http://www.uthscsa.edu/ibt/FAC_Research.asp?facID=36
Jannine Cody, PhD Pediatrics	Understanding the molecular basis, clinical and educational features as well as the natural history of individuals with syndromes of chromosome 18	cody@uthscsa.edu http://www.pediatrics.uthscsa.edu/genetics/faculty.asp
Patricia Dahia, MD, PhD Medicine - Hematology	Utilization of genomics-based approaches to study the genetics of cancer, to characterize interactions between oncogenic pathways, and to identify novel cancer-related genes	dahia@uthscsa.edu http://www.uthscsa.edu/csb/faculty/cadahia.asp
Michael Escamilla, MD Psychiatry	Population Genetics, Linkage Disequilibrium Mapping, Genetics of Bipolar Disorder and Schizophrenia, Genetics of Mood Disorders, and Substance Abuse Comorbidity in Bipolar Disorder	escamillam@uthscsa.edu http://psychiatry.uthscsa.edu/faculty.aspx?f=0U10PFD2W
Stephen E. Harris, PhD Periodontics	Bone Morphogenetic Protein and their Expression	harris@uthscsa.edu http://periodontics.uthscsa.edu/HarrisLab/HarrisLab_home.htm
Syed Z. Imam, MD, PhD Medicine - Inf. Diseases	Understanding the molecular basis of neurodegeneration, which can be implicated to develop therapeutic trials for neurodegenerative diseases	imam@uthscsa.edu http://medicine.uthscsa.edu/InfectiousDiseases/facultystaff.aspx?p=1SQ0J8NY8
Teresa Johnson-Pais, PhD Pediatrics	Identification of genetic alterations that play a role in cancer tumorigenesis, especially in urologic cancers. Genetics of Paget's Disease of Bone - Understanding the role of mutant SQSTM1 proteins in familial Paget's Disease of Bone	paist@uthscsa.edu http://www.pediatrics.uthscsa.edu/genetics/faculty.asp
David Kadosh, PhD Micro/Immunology	Major human fungal pathogen <i>Candida albicans</i>	kodosh@uthscsa.edu http://www.uthscsa.edu/micro/faculty/dk/dk.asp
Charles Keller, MD Cellular & Structural Biology	Mouse models of rhabdomyosarcoma and medulloblastoma; Biology of muscle stem cells	kellerc2@uthscsa.edu http://ccri.uthscsa.edu/CKeller.asp
Ellen B. Kraig, PhD Cellular & Structural Biology	Effects of aging and infection on immunity and autoimmunity	kraig@uthscsa.edu http://www.uthscsa.edu/csb/faculty/kraig.asp
Pamela Larsen, PhD Cellular & Structural Biology	Understanding the biological mechanisms for the efficient life maintenance, in development and adulthood in <i>C. elegans</i>	larsenp@uthscsa.edu http://www.uthscsa.edu/csb/faculty/larsen.asp

Robin Leach, PhD Cellular & Structural Biology	Using a molecular genetic approach, we are studying a number of common diseases including prostate and testicular cancer, diabetes, schizophrenia and Paget's disease of the bone	leach@uthscsa.edu http://www.uthscsa.edu/csb/faculty/leach.asp
Sang Lee, PhD Molecular Medicine	Cancer results from genetic and environmental insults leading to the accumulation of mutations in genes preventing the initiation and the progression of this disease	lees4@uthscsa.edu http://molecularmedicine.uthscsa.edu/FAC_Profiele.asp?facID=42
Donna Lehman, PhD Medicine - Epidemiology	Public health genomics; study of genetics of complex disorders such as diabetes using genetic epidemiologic methods in large family-based and population-based cohorts; Genetic cause of various highly penetrant ophthalmic disorders	lehman@uthscsa.edu http://medicine.uthscsa.edu/Epidemiology/facultystaff.aspx?p=0V71EU7OI
Philip LoVerde, PhD Biochemistry/Pathology	Elucidating molecular mechanisms of schistosome-host interactions by investigating the role of genes and gene products such as those contributing to female reproductive development and those encoding antigens. An understanding of the role schistosome genes and gene products play in these interactions will lead to vaccine candidates, improved diagnostics, and a basis for rationale drug design.	loverde@uthscsa.edu http://www.biochem.uthscsa.edu/faculty.php?displayID=34
John McCarrey, PhD Cellular & Structural Biology	Mechanisms regulating the development, differentiation and manipulation of germ cells and stem cells in mammals.	john.mccarrey@utsa.edu http://www.uthscsa.edu/csb/faculty/camccarrey.asp
Donald McEwen, PhD Biochemistry	Genetic and biochemical approaches to signaling pathways	mcewen@uthscsa.edu http://www.biochem.uthscsa.edu/faculty.php?displayID=44
Charleen Moore, PhD Cellular & Structural Biology	Characterizing human cytogenetic abnormalities and carrying out comparative cytogenetics studies in primates and marsupials	moorec@uthscsa.edu http://www.uthscsa.edu/csb/faculty/moore.asp
Sue Naylor, PhD Cellular & Structural Biology	In our early studies with chromosome 3, we found that the middle of the short arm of chromosome 3 is frequently deleted in many types of cancer including lung, ovarian, head and neck, and uterine cancer. Using a combination of analysis of tumor samples and a functional assay for tumor suppression, we have limited the region to 80Kb of human DNA	naylor@uthscsa.edu http://www.uthscsa.edu/csb/faculty/naylor.asp
Susan S.Padalecki, PhD Urology/ Cellular & Structural Biology	Bone is the most common site of metastases for solid tumors such as breast, prostate and bladder cancers. These metastases contribute significantly to the morbidity and mortality of these cancers	southwell@uthscsa.edu http://www.uthscsa.edu/csb/faculty/capadalecki.asp
Dubravko Pavlin, DMD, PhD Orthodontics	Regulation of genes for bone cell (osteoblast) markers	pavlin@uthscsa.edu http://orthodontics.uthscsa.edu/faculty/pavlin.html
Luiz Penalva, PhD Cellular & Structural Biology	Dissecting gene expression of tumors and complex tissues with RNA binding proteins	penalva@uthscsa.edu http://www.uthscsa.edu/csb/faculty/penalva.asp
Ravi Ranjan, PhD Pharmacology	The genetics of aging in Drosophila and the mechanism of neurotransmitter secretion at the synapse	ranjan@uthscsa.edu http://pharmacology.uthscsa.edu/faculty/Ranjana.asp
Shane L.Rea, PhD Barshop/Physiology	Aging in C. elegans (Mit Mutants; Mitochondrial; Bioenergetics; Metabolomics; DNA Damage); Human Mitochondrial-associated Disorders (S. cerevisiae Models); Type II Diabetes.	reas3@uthscsa.edu http://physiology.uthscsa.edu/new/research/faculty_view.asp?id=63

Vivienne Rebel, MD, PhD Cellular & Structural Biology	We are interested in understanding how blood-forming stem cells are regulated and how these regulatory processes are affected by disease (such as myelodysplastic syndrome and leukemia) and age. In our studies we use mouse models and we study both stem cell intrinsic - and extrinsic (microenvironment-mediated) regulatory mechanisms.	rebel@uthscsa.edu http://ccri.uthscsa.edu/VRebel.asp
Paula Shireman, MD, MSCI Surgery	Our lab studies the inflammatory-mediated mechanisms of angiogenesis and skeletal muscle regeneration. We are particularly interested in how hematopoietic stem cells, myogenic stem cells and inflammatory cells interact to form muscle after injury. A better understanding of muscle regeneration will be useful in tissue regeneration strategies for limb salvage.	shireman@uthscsa.edu http://surgery.uthscsa.edu/faculty/shireman.asp
Thomas Slaga, PhD Pharmacology	Glucocorticoid hormones (GC), very potent inhibitors of physiological DNA synthesis in keratinocytes in vivo	slagat@uthscsa.edu http://pharmacology.uthscsa.edu/faculty/Slaga.asp
Gail Tomlinson, MD, PhD Pediatrics	Genetic predisposition to cancer, Hepatoblastoma, Hereditary breast cancer, Other Pediatric Tumors, Population-specific aspects of childhood cancer, von Hippel-Lindau disease	tomlinsong@uthscsa.edu http://ccri.uthscsa.edu/GTomlinson.asp
Kristine S. Vogel, PhD Cellular & Structural Biology	Neurofibromatosis Type 1 and Genomic Instability	vogelk@uthscsa.edu http://www.uthscsa.edu/csb/faculty/vogel.asp
M. Consuelo Walss-Bass, PhD Psychiatry	Role of genetic polymorphisms in risk of Schizophrenia and Bipolar Disorder	walss@uthscsa.edu http://psychiatry.uthscsa.edu/faculty.aspx?f=1KD00PXM
Christi Walter, PhD Cellular & Structural Biology	DNA repair, mutagenesis, mitochondria, transgenic mice, aging, spermatogenic cells	walter@uthscsa.edu http://www.uthscsa.edu/csb/faculty/walter.asp
P. Renee Yew, PhD Molecular Medicine	Vertebrate cell cycle regulation, DNA replication initiation, Ubiquitin-mediated proteolysis and signaling, Tumor suppressor function	yew@uthscsa.edu http://www.uthscsa.edu/ibt/FAC_Research.asp?facID=45
NON-MENTORING FACULTY:		
Tien-cheng (Arthur) Chang Ob-Gyn		changt3@uthscsa.edu http://profiles.uthscsa.edu/?pid=profile&id=25A0MC7IF
Nameer Kirma Ob-Gyn		kirma@uthscsa.edu http://profiles.uthscsa.edu/?pid=profile&id=1B50IFUHM
Srinivas Mummidi Medicine		mummidi@uthscsa.edu http://profiles.uthscsa.edu/?pid=profile&id=0V71EUC4G