Texas Genetics Society Thirtieth Annual Meeting Radisson Hotel Austin, TX March 27-29, 2003

Schedule of Events and Presentations

Thursday 3/27/2003

5pm – 7pmRegistrationMezzanine7pm – 8pm**Dr. Kimberlyn Nelson**Austin Room

Introduced by Dr. Robert Baker

Keynote address: To Win or Lose by a Hair: The Science and Art of Forensic Mitochondrial DNA Analysis.

8pm – 10pm Reception

Desserts and Cash Bar Travis Room

Friday 3/28/2003

7:30am Continental Breakfast Travis Room
Meeting Registration Mezzanine
8:30am – 8:40am Welcome and Announcements

Dr. James Derr, TGS President Austin Room 8:40am – 10:20am Contributed Paper Session I Austin Room

8:40am – 9:00am Genome wide scans of Mexican Americans reveal locations on chromosomes 1, 2 and 15 linked to insulin sensitivity. G. Cai^{1,2}, S.A. Cole¹, J. Freeland-Graves², J. Maccluer¹, J. Blangero¹, A.G. Commuzzie¹. Department of Genetics, Southwest Foundation for Biomedical Research, San Antonio, TX; Department of Human Ecology, University of Texas at Austin, Austin, TX

9:00am – 9:20am **Distribution of LINEs on Marsupial Chromosomes: Divergence in Genome Characteristics between Marsupials and Eutherians. D.A. Parish**¹, H.A. Wichman², L. Scott², R. Strauss¹, R.J. Baker¹. ¹Department of Biological Sciences and The Museum, Texas Tech University, Lubbock, TX; ²Department of Biological Sciences, University of Idaho, Moscow, ID

9:20am – 10:20am *Invited Address*: **<u>Dr. Holly Wichman</u>**, Professor, Department of Biology, University of Idaho.

"Genomes: One Man's Junk is Another Man's Treasure"

10:20am – 10:40am Coffee Break

Travis Room

- 10:40am 11:00am Identification of male infertility markers on the equine Y chromosome: Mapping and implications. <u>A.B. Santani</u>, T. Raudsepp, L.C. Skow, B.P. Chowdhary. Department of Veterinary Anatomy and Public Health, College of Veterinary Medicine, Texas A&M University, College Station, TX
- 11:00am 11:20am **A glimpse of the past and vision into the future: The legacy of Charles Goodnight's bison herd.** N.R. Halbert, J.N. Derr. Department of Veterinary Pathobiology, College of Veterinary Medicine, Texas A&M University, College Station, TX
- 11:20am 11:40am A species level subdivision in the *Apodemus sylvaticus* complex based on evidence from the cytochrome-*b* gene and the nuclear beta fibrinogen intron 7 sequence. Y.V. Dunina-Barkovskaya¹, J.K. Wickliffe², B.E. Rodgers³, C.J. Phillips¹, R.K. Chesser¹, S. Gaschak⁴, R.J. Baker¹. ¹Department of Biological Sciences, Texas Tech University, Lubbock, TX; ²Department of Preventive Medicine and Community Health, University of Texas Medical Branch, Galveston, TX; ³Department of Life, Earth & Environmental Sciences, West Texas A&M University, Canyon, TX; ⁴International Radioecology Lab, Slavutych, Ukraine
- 11:40am 12:00pm Identification for a novel PrP polymorphism and scrapie resistant genotypes for dorpcroix: A new ovine breed. <u>C.M. Seabury</u>, J.N. Derr. Department of Veterinary Pathobiology, College of Veterinary Medicine, Texas A&M University, College Station, TX

12:00pm – 1:30pm Lunch (on your own)

Board of Directors Meetings Congress Board

Room

1:30pm – 2:30pm *Invited Address*: **<u>Dr. Jim Lupski</u>**, M.D., Baylor College of Medicine

"Genomic Disorders: Recombination-based Disease Resulting from Genome Architecture"

2:30pm – 4:50pm Contributed Paper Session III Austin Room (SESSION CHAIR)

2:30pm – 2:50pm Large-scale gene expression study of PAPA syndrome: An autoinflammatory disorder. <u>E.J. Smith</u>¹, L. Bennett², V. Pascual^{1,2}, C.A. Wise¹. ¹Department of Pediatric Molecular Genetics, Scottish Rite Hospital for Children, Dallas, TX; ²Baylor Institute of Immunology, Dallas, TX

2:50pm – 3:10pm A selective sweep driven by pyrimethamine treatment in SE Asian malaria parasites. S. Nair¹, J. Williams¹, A. Brockman^{2,3}, L. Paiphun², M. Mayxay⁵, P.N. Newton^{4,6}, J.P. Guthmann⁷, F.M. Smithius⁸, T.T. Hien⁹, N.J. White^{2,3}, F. Nosten^{2,3,4}, T.J.C. Anderson¹. ¹Southwest Foundation for Biomedical Research, San Antonio, TX; ²Shoklo Malaria Research Unit, Mae Sot, Tak, Thailand; ³Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand; ⁴Nuffield Department of Medicine, John Radcliffe Hospital, Oxford, U.K.; ⁵Faculty of Medicine, National University of Laos, Vientiane, Lao PDR; ⁶Wellcome Trust-Mahosot-Oxford Tropical Medicine Research Collaboration, Mahosot Hospital, Vientiane, Lao PDR; ⁷Epicentre (Medecins Sans Frontieres-France), 8 rue Saint Sabin, 75011 Paris, France; ⁸Artsen Zonder Grenzen, Medecins Sans Frontieres-Holland, Yangon, Myanmar; ⁹Hospital for Tropical Diseases, Cho Quan Hospital, Ho Chimin, Vietnam

3:10pm – 3:30pm Coffee Break

Travis Room

- 3:30pm 3:50pm Identification of required sequences for Pol II synthesis of rRNA in *Saccharomyces cerevisiae*. P. Jodhka, M. Haymowicz, H. Conrad-Webb. Department of Biology, Texas Women's University, Denton, TX
- 3:50pm 4:10pm **Study of the** *CDKN2D (P19)* **locus in** *Xiphophorus.* <u>V.A. Khanolkar</u>¹, R.B. Walter¹, R.S. Nairn², D. Trono², J.D. Rains¹, E.L. Williams¹. Department of ¹Chemistry and Biochemistry, Southwest Texas State University, San Marcos, TX; ²U.T.M.D. Anderson Cancer Center, Science Park Research Division, Smithville, TX
- 4:10pm 4:30pm Role of *Lrp5* in mammary development and *MMTV-Wnt1* induced mammary carcinogenesis. <u>T.A. Giambernardi</u>¹, S.L. Holmen¹, C. Lindvall¹, S.A. Robertson¹, C.R. Zylstra¹, Y. Li², B.O. Williams¹. ¹Laboratory of Cell Signaling & Carcinogenesis, Van Andel Research Institute, Grand Rapids, MI; ²Baylor College of Medicine, Houston, TX
- 4:30pm 4:50pm **Demethylation precedes transcriptional activation of the spermatogenesis-specific** *Pgk2* **gene in the mouse.** <u>C.B. Geyer</u>¹, J.R. McCarrey^{1,2}.

 ¹Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio, TX; ²Department of Biology, University of Texas, San Antonio, TX

6:00pm - 7:00pm	Poster Viewing and Reception	Travis Room
7:00pm - 8:30pm	Banquet	Austin Room

Saturday 3/29/2003

7:30am	Continental Breakfast	Travis Room
8:00am – 8:10am	Meeting Announcements	
	Dr. James Derr, TGS President	Austin Room
8:10am – 11:30am	Contributed Paper Session IV	Austin Room

- 8:10am 8:30am **Bovine toll-like receptor 4: Haplotype analysis of a highly polymorphic bovine gene.** S.N. White¹, C.A. Abbey², C.A. Gill², J.E. Womack¹. Departments of ¹Veterinary Pathobiology and ²Animal Science, Texas A&M University, College Station, TX
- 8:30am 8:50am Gene content and homology-based assembly of overlapping BACS fro the equine major histocompatibility (ELA) complex. A. Gustafson, N. Ramlachan, T. Raudsepp, B.P. Chowdhary, L.C. Skow. Department of Veterinary Anatomy and Public Health, College of Veterinary Medicine, Texas A&M University, College Station, TX
- 8:50am 9:10am **A model of sensitivity: 1,3-butadiene induces genotoxicity in micromsomal epoxide hydrolase deficient mice. J.K. Wickliffe**¹, J.J. Salazar², M.M. Ammenheuser¹, D.A. Hastings-Smith¹, R.S. Lloyd², J.B. Ward¹. ¹Department of Preventive Medicine and Community Health, University of Texas Medical Branch, Galveston, TX; ²Sealy Center for Environmental Health and Medicine, University of Texas Medical Branch, Galveston, TX
- 9:10am 10:10am *Invited Address*: **Dr. David Hillis**, Alfred W. Roark Centennial Professor, University of Texas at Austin

"Sex and the Single Rotifer (and other tales of sexual intrigue)"

10:10am – 10:30am Coffee Break

Travis Room

- 10:30am 10:50am **Both strand invasion and single-strand annealing subpathways of recombinational repair are impacted by loss of** *XPF* **in Chinese Hamster Ovary (CHO) cells. L.L. Talbert**, L.D. Coletta, A. Bolt, G.M.Adair, R.S. Nairn. Department of Carcinogenesis, University of Texas, M.D. Anderson Cancer Center, Science Park, Smithville, TX.
- 10:50am 11:10am Consequences of increased AP endonuclease expression on mutagenesis and survival. T. Reddick¹, Z.Q. Zhou², C.A. Walter¹. ¹Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio, TX; ²Department of Cell and Development Biology, Oregon Health Science University, Portland, OR
- 11:10am 11:30am **Patterns and estimates of time of intrageneric speciation in New World, leaf-nosed bats. A.D. Brown**¹, F.G. Hoffmann², R.J. Baker¹. ¹Department of Biological Sciences, Texas Tech University, Lubbock, TX; ²Department of Biological Sciences, University of Nebraska, Lincoln, NE
- 11:30am 12:00pm **Texas Genetics Society Annual Business Meeting**