

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

**Schedule of Events and Presentations**

Thursday 3/27/2003

5pm – 7pm	Registration	Mezzanine
7pm – 8pm	<b>Dr. Kimberlyn Nelson</b>	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
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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<sup>1,2</sup>, S.A. Cole<sup>1</sup>, J. Freeland-Graves<sup>2</sup>, J. Maccluer<sup>1</sup>, J. Blangero<sup>1</sup>, A.G. Commuzzie<sup>1</sup>.** <sup>1</sup>Department of Genetics, Southwest Foundation for Biomedical Research, San Antonio, TX; <sup>2</sup>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<sup>1</sup>, H.A. Wichman<sup>2</sup>, L. Scott<sup>2</sup>, R. Strauss<sup>1</sup>, R.J. Baker<sup>1</sup>.** <sup>1</sup>Department of Biological Sciences and The Museum, Texas Tech University, Lubbock, TX; <sup>2</sup>Department of Biological Sciences, University of Idaho, Moscow, ID

9:20am – 10:20am    *Invited Address:* **Dr. Holly Wichman**, 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
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10:40am – 12:00pm Contributed Paper Session II

Austin Room

10:40am – 11:00am **Identification of male infertility markers on the equine Y chromosome: Mapping and implications.** A.B. Santani, 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-Barkovskaya<sup>1</sup>, J.K. Wickliffe<sup>2</sup>, B.E. Rodgers<sup>3</sup>, C.J. Phillips<sup>1</sup>, R.K. Chesser<sup>1</sup>, S. Gaschak<sup>4</sup>, R.J. Baker<sup>1</sup>. <sup>1</sup>Department of Biological Sciences, Texas Tech University, Lubbock, TX; <sup>2</sup>Department of Preventive Medicine and Community Health, University of Texas Medical Branch, Galveston, TX; <sup>3</sup>Department of Life, Earth & Environmental Sciences, West Texas A&M University, Canyon, TX; <sup>4</sup>International Radioecology Lab, Slavutych, Ukraine

11:40am – 12:00pm **Identification for a novel PrP polymorphism and scrapie resistant genotypes for dorpcroix: A new ovine breed.** C.M. Seabury, 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:* Dr. Jim Lupski, M.D., Baylor College of Medicine

**“Genomic Disorders: Recombination-based Disease Resulting from Genome Architecture”**

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

Austin Room

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



8:10am – 8:30am **Bovine toll-like receptor 4: Haplotype analysis of a highly polymorphic bovine gene.** S.N. White<sup>1</sup>, C.A. Abbey<sup>2</sup>, C.A. Gill<sup>2</sup>, J.E. Womack<sup>1</sup>. Departments of <sup>1</sup>Veterinary Pathobiology and <sup>2</sup>Animal 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 micromosomal epoxide hydrolase deficient mice.** J.K. Wickliffe<sup>1</sup>, J.J. Salazar<sup>2</sup>, M.M. Ammenheuser<sup>1</sup>, D.A. Hastings-Smith<sup>1</sup>, R.S. Lloyd<sup>2</sup>, J.B. Ward<sup>1</sup>. <sup>1</sup>Department of Preventive Medicine and Community Health, University of Texas Medical Branch, Galveston, TX; <sup>2</sup>Sealy 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. Reddick<sup>1</sup>, Z.Q. Zhou<sup>2</sup>, C.A. Walter<sup>1</sup>. <sup>1</sup>Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio, TX; <sup>2</sup>Department of Cell and Development Biology, Oregon Health Science University, Portland, OR

11:10am – 11:30am **Patterns and estimates of time of intragenetic speciation in New World, leaf-nosed bats.** A.D. Brown<sup>1</sup>, F.G. Hoffmann<sup>2</sup>, R.J. Baker<sup>1</sup>. <sup>1</sup>Department of Biological Sciences, Texas Tech University, Lubbock, TX; <sup>2</sup>Department of Biological Sciences, University of Nebraska, Lincoln, NE

11:30am – 12:00pm **Texas Genetics Society Annual Business Meeting**