CURRICULUM VITAE

Dai, Aihua, MD, MS
daia@missouri.edu

Education and Training:

Medicine, M.D.
Lanzhou Medical College, Lanzhou, China

Pathophysiology, M.S.
Hunan University of Medical Sciences, Changsha, China

Postdoctoral Training
1. University of California Medical School at San Francisco
2. University Texas, Health Science Center at San Antonio

Research Fields:

Neuroscience, Neonatology, Cancer Research, Bone Pathology, Developmental Biology, Molecular Biology

Positions:

2005-present Senior Research Specialist
Department of Biological Sciences
College of Arts and Sciences
University of Missouri-Columbia

2002-2005 Pediatric/Neonatal Research Scientist
Department of the Pediatrics/ Neonatology
University of New Mexico
Albuquerque, New Mexico

1998-2002 Research Associate III
Research & Education Institute
Harbor-UCLA Medical Center
Torrance, California

1996-1998 Postdoctoral Fellow
Department of Pathology
University of Texas Health Science Center
San Antonio, TX 78284

1993-1995 Research Associate II
Cancer Therapy and Research Center
San Antonio, TX 78229

1990-1992 Research Associate II
Department of Biology
Beckman Research Institute of the City of Hope
Duarte, CA 91010

Publications:

Peer Reviewed Manuscripts

1. Temporal S, Desai M, Khorkova O, Varghese G, ***Dai A,*** Schulz DJ and Golowasch J: Neuromodulation independently determines correlated channel expression and conductance levels in motor neurons of the stomatogastric ganglion. J. Neurophysiology, in submission, 2011

2. Tippin BL, Levine JL, Materi AM, ***Dai A,*** (Total 25) and Lin HJ: Hematopoietic prostaglandin D synthase (HPGDS): a high stability, Val187Ile isoenzyme common among African Americans and its relationship to risk for colorectal cancer. Prostaglandins & Other Lipid Mediators, In Press, Available online 28 July 2011

3. ***Dai A,*** Temporal S, Schulz DJ: Cell-specific patterns of alternative splicing of voltage-gated ion channels in single identified neurons. Neuroscience, 2010 168(1):118-29.

4. Lin HJ, Johansson AS, Stenberg G, Materi AM, Park JM, ***Dai A***, Zhou H, Gim JS, Kau IH, Hardy SI, Parker MW, Mannervik B: Naturally occurring Phe151Leu substitution near a conserved folding module lowers stability of glutathione transferase P1-1.Biochim Biophys Acta.2003, 1649:16-23

5. Lin HJ, Zhou H, ***Dai A***, Huang HF, Lin JH, Frank HD, Lee ER and Haile RW: Glutathione Transferase GSTT1, Broccoli, and Prevalence of Colorectal Adenomas. Pharmacogenetics 2002, 12:1-5

6. Lin HJ, Lakkides KM, Keku TO, ***Dai A***,(Total 25) et al. Prostaglandin H synthase 2 Variant (Val511Ala) in African Americans May Reduce the Risk for Colorectal Neoplasia. Cancer Epidemiol Biomarkers Prev 2002, 11:1305–15.

7. Boyce BF, Hughes DE, Xing L and ***Dai A***: Recent Advances in Bone Biology Provide Insight into the Pathogenesis of Bone Diseases. Laboratory Investigation, 2:83-94, 1999

8. Hughes DE, ***Dai A,*** Tiffee JC, Li H, Mundy GR and Boyce BF: Estrogen Promotes Apoptosis of Murine Osteoclasts Mediated by TGF-β. Nature, Medicine, 2:1132-1136, 1996

9. Cohen BE, ***Dai A,*** Thor AT, Shuman MA and Helene HS: Immunohistochemical Localization of the Plasminogen Activator Inhibitor-1 in Breast Cancer. International Journal of Cancer, 60:597-603, 1995

10. Eckhardt GS, ***Dai A,*** Davidson KK, Forseth B, Wahl G and Von Hoff, DD: Induction of Differentiation in HL60 Cells by the Reduction of Extra-chromosomally Amplified c-myc. Proc. Natl. Acad. Sci. 91:6674-78, 1994

11. Singer-Sam J, Goldstein JL, ***Dai A,*** Gartler SM and Riggs AD: A Potentially Critical Hpall Site of the X Chromosome-linked PGK1 Gene Is Unmethylated Prior to the Onset of Meiosis of Human Oogenic Cells. Proc. Natl. Acad. Sci. 89:1413-1417, 1992

Book Chapters

1.Singer-Sam J, LeBon JM, ***Dai A***, and Riggs AD: A Sensitive, Quantitative Assay for Measurement of Allele-specific Transcripts Differing by a Single Nucleotide, in PCR Methods and Applications. Cold Spring Harbor Laboratory Press, pp l60-l63, 1992

2. Ohls RK and ***Dai A***: Long-acting erythropoietin: clinical studies and potential uses in neonates. Clinics in Perinatology, Hematopoietic Growth Factors in Neonatal Medicine, 31:77-89, Elsevier Saunders, 2004

3. Boyce BF, Hughes DE, Xing L and ***Dai A***: Apoptosis in Bone Cell, in de novo Approach to Treatment of Osteoporosis. Eds. Russell RGG, Pp61-82, 1998

Selected Abstracts

1. ***Dai A***, McKnight HM, Ohls RK: The Effects of Aranesp on Stimulation of Fetal and Neonatal Erythropoiesis. Pediatr Res 2004, 55:290A

2. Ohls RK, ***Dai A***: The effect of Aranesp on the growth of fetal and neonatal erythroid progenitors. Blood 2003, 102:18b

3. ***Dai A***, Bryce BF: Effect of Sex Steroids and TGF-β on Osteoclast Apoptosis. Journal of Bone and Mineral Research 12, supplement 1, page S192, 1997

4. ***Dai A***, Hughes DE, Li H, Tiffee JC, Boyce, BF: Variation in Response of Osteoclasts to Apoptosis Inducing Agents. Journal of Bone and Mineral Research 11, supplement 1, page S190, 1996