A. Research Published Papers in 2008-alphabetically by 1st author:


B. Book and Book Chapters- alphabetically by 1st author:

C. Meeting Presentations/Invited Lectures in 2008- alphabetically by 1st author:


2. **Culver B:** “Involvement of Neuroinflammation in Models of Neurodegeneration” Shangdong University; Jinan, China, October, 2008 2 points (non-competitive)

3. **Culver B:** “Involvement of neuroinflammation and cyclooxygenase in chronic methamphetamine abuse associated neurotoxicity” Beijing Joint Conference of Physiological Sciences 2008 which will be held in Beijing, China from October 19-22, 2008 2 points (non-competitive)

4. **Das M, Shields KM, Burns N, Harral J, Homma N, Oka M, West J.** Deficiency of MAP Kinase Phosphatase-1 Induces Development of Pulmonary Hypertension in Mice. EB 2008, April 5-9, San Diego, California 2 points (non-competitive)

5. **Forhead AJ, Shen QW, Du M, Fowden AL.** Cortisol suppresses the anabolic signalling proteins, p-mTOR and p-S6 kinase, in skeletal muscle of fetal sheep near term. The Physiological Society Annual Meeting, University of Cambridge, UK, July 14-16, 2008. 2 points (non-competitive)


7. **Kimzey JM, Du M.** Development of AMP-activated protein kinase fluorescence constructs for monitoring pluripotential cell differentiation. Graduate Student Symposium, Laramie, WY, April 2-3, 2008 2 points (non-competitive)

8. **Kimzey JM, McCormick RJ, Stayton MM, Du M.** Development of AMP-activated protein kinase fluorescence constructs for monitoring pluripotential cell differentiation. Western Section of ASAS Annual Meeting, Laramie, WY, June 24-26, 2008 2 points (non-competitive)


13. **Li J.** Signaling pathways in the ischemic hearts. *Chinese Pharmacologist* 25:22-24, 2008 2 points (non-competitive)

14. **Li J, Haynes NA, Geringer M, Wen L, Young LH, Li J.** Toll-like receptor 4-deficiency limits ischemic injury via up-regulation of AMPK and down-regulation of p38 MAPK. *Diabetes* 57 (supplement): A426-A426, 2008 5 points (competitive-poster)

15. **Li J:** “The Cardioprotective Effect of AMPK on Ischemic Injury”, University at Buffalo, Buffalo, NY, December 2008 N/A

16. **Li J:** “Aging-associated impairment in the activation of AMP-activated protein kinase in the ischemic heart”, 61st Annual Scientific Meeting, Washington DC, MD, November 2008 N/A

17. **Li J:** “AMP-activated Protein Kinase: A Novel Target for Protection against Ischemic Injury”, University of Arkansas Medical School, Little Rock, AR, October 2008 N/A
18. **Li J:** “MKP-1 and AMPK: Targets for Inflammatory and Ischemic Heart Disease”, The Keynote speaker of UW INBRE retreat, Yellowstone, WY, September 2008 N/A

19. **Li J:** “MAPK and AMPK: Critical Mediators of the Cellular Stress Response”, Institute of Biochemistry and Cell Biology, SIBS, CAS, Shanghai, China, July 2008 N/A

20. **Li J:** “AMPK: Mediator of the Cardioprotective Effects of MIF and Urocortin”, Uniformed Service University, Bethesda, MD, June 2008 N/A

21. **Li J:** “The Cellular Fuel Gauge-AMPK in the Heart”, Saint Louis University, Saint Louis, MO, April 2008 N/A

22. **Li J:** “Regulation of AMP-activated Protein Kinase in the Ischemic Heart”, Department of Molecular Biology, University of Wyoming, Laramie, WY, February 2008 N/A

23. **Li Q, Thomas DP, Ren J.** Intramyocardial delivery of mesenchymal stem cell ameliorates the function of cardiomyocytes from area at risk after myocardial infarction. *AAPS annual meeting* 2008, Nov. 16-20, Atlanta, GA 2 points (non-competitive)

24. **Ma H, Xu P, Shen Y, Ren J.** Cisplatin compromises the ultrastructure of mitochondria and mechanical function of cardiomyocytes. 2008 NISBRE, Washington DC, August 6-8, 2008 2 points (non-competitive)


27. **Ren J:** “Cardiac dysfunction in cardiometabolic syndrome”, University of British Columbia Faculty of Pharmacy, Vancouver, Canada, March 2008 N/A

28. **Ren J:** “Wyoming Biomedical research Excellence”, US Congressional Event on IDeA Program, the Capital Hill, Washington, D.C., June 2008 N/A

29. **Shields KM, Burns N, Harral J, Homma N, Oka M, West J, Das M.** Deficiency of MAP Kinase Phosphatase-1, a Critical Inflammatory Modulator, Induces Development of Pulmonary Hypertension in Mice. 2008 Western Student Medical Research Forum. January 30-February 2, Carmel, California 2 points (non-competitive)

30. **Sreejayan N, Dong F, Zhao P, Ren J, Du M.** Novel chromium complex inhibits skeletal muscle atrophy and whole body glucose intolerance associated with hindlimb suspension. College of Health Sciences 14th Annual Research Day Presentation, Laramie, WY, April 2-3, 2008 2 points (non-competitive)


34. **Turdi S, Yan X, Ren J.** High fat-diet induced cardiomyocyte dysfunction in AMPK-deficient mice. *Circulation* 118: S376, 2008 5 points (competitive-poster)

35. **Underwood KR, Du M.** Gestational nutrition affects growth and adipose tissue deposition in steers. Graduate Student Symposium, Laramie, WY, April 2-3, 2008 2 points (non-competitive)


38. **Wang J, Ma H, Ren J, Li J.** Ischemia and AMPK activator phosphorylate the cardiac transcription factor FOXO3. *National IDeA Symposium of Biomedical Research Excellence (NISBRE), Washington DC, August 6-8, 2008* 2 points (non-competitive)


46. **Zawada WM, Banning GP, Jones S, Thornton J, Marrriott B, Cantu D, Rachubinski A, Poczobutt A, Das M.** Non-phagocytic NADPH oxidase is present in dopaminergic neurons. *EB 2008, April 5-9, San Diego, California* 2 points (non-competitive)

D. **Awarded Ph.D. in Neuroscience:**

Xiaochun (Susan) Zhang (advisor Bruce Culver)

**Current Position:** Research Scientist for PrognostiX, Inc.; 10625 Carnegie Ave., Cleveland, OH 44106

**Thesis:** “Involvement of Neuroinflammation In Models Of Neurodegeneration”, Ph.D., Graduate Neuroscience Program. Department of Zoology and Physiology, Aug, 2008

E. **Research Proposals Awarded in 2008-alphabetically by 1st author:**

**Das M:** 2R01 HL64917-01A1 - NHLBI Title: PKC Isozymes in Hypoxia-Induced Fibroblast Proliferation. $223,894 (2006-2009) 20 points

**Driscoll M:** WWAMI medical student, was awarded a grant to conduct research entitled "The effects of omega-3 fatty acids and saturated fats on the accumulation of b-amyloid in an Alzheimer’s disease mouse model" in Dr. Culver’s Lab. Meghan received a $4500 stipend through the MSRP (Medical Student Research Training Program) from the University of Washington Medical Center to conduct research in Dr. Culver’s lab 2008 summer. 5 points
Du M: NIH. (1R03HD057506) A novel model for studying fetal muscle development. $143,000 (2/08-01/10) 14 points


Hess BW, Du M, Rule DC, McCormick RJ, Ford SP. UW-AES Special Equipment Grant. Purchase of RT-PCR instrument for Animal Science. $20,338 5 points

Li J: American Heart Association National SDG Program: Aging-associated alterations in heart stress signaling during ischemia/reperfusion. (PI), $308,000 (7/1/08-6/30/12) 30 points

Li J: American Heart Association Pacific Mountain Affiliate: Alterations in AMP-activated protein kinase signaling pathway during ischemia with aging. (PI), $132,000 (7/1/08-6/30/10) Relinquish due to overlap with AHA SDG. N/A

Li J: NIH 1R03AG-028163: Alterations in heart stress signaling during ischemia. (PI), $117,200 (4/1/08-3/30/10) 12 points

Li J: American Federation for Aging Research (AFAR) A08007: Alterations in AMP-activated protein kinase signaling during ischemia with aging. (PI), $60,000 (7/1/08-6/30/10) 6 points

Li J: NIH UW INBRE Pilot Grants: Aging-associated alterations in cardiac MIF-AMPK signaling during ischemia/reperfusion. $25,000 (5/1/08-4/30/09) 6 points

Luhrs K: (supervisor: Dr. Bruce Culver) NSF/EPSCoR Undergraduate Research Fellowships: “The Effects of a Nuclear Factor-Kappa B Inhibitor on the Cerebral Amyloid Burden in a Transgenic Mouse Model of Alzheimer’s Disease”, $3,000 (2008-2009) 5 points

Malik W: (supervisor: Dr. Bruce Culver) NSF/EPSCoR Undergraduate Research Fellowships: “Effects of a Diet High in Saturated Fat and Total Fat on Inflammatory Markers and Amyloid Plaque Accumulation in a Transgenic Mouse Model of Alzheimer’s Disease”, $4,500 (2008-2009) 5 points


Ren J: Natural Science Foundation of China (NSFC), key laboratory establishment in Xinjiang, Platform for selection of anti-diabetic drugs. (PI), YMB 50,000 (1/1/09-12/31/10) 5 points

Rule DC, Du M, Cammack KM, Moss GE. Graduate School Recruitment Initiative, UW. Graduate student recruitment proposal. $3,000 (07/07-08/08) 5 points

Ryff K: (supervisor: Dr. Bruce Culver) NSF/EPSCoR Undergraduate Research Fellowships: “Dietary and Antiinflammatory Approaches to Alter Function and Amyloid Plaque Accumulation in a Transgenic Mouse Model of Alzheimer’s Disease”, $3,000 (2008-2009) 5 points

Turdi S: The College of Health Science Research Grant. $1,100, May, 2008 5 points

Kyla Jones, Emily Byra: Wyoming Space Grant Consortium Grants, study cardiac deconditioning. $5,000 (Faculty sponsor: Jun Ren) 10 points

Zhu MJ: R. J. McCormick, W. J. Means, S. I. Paisley, M. Du. USDA-China Scientific cooperation exchange travel grant. Antibiotics as feed supplement in beef cattle and safety of beef. (06/01/08~07/31/09) N/A

Zhu MJ: NIH. University of Wyoming Northern Rockies Regional INBRE, (5P20RR016474 Pilot). Maternal obesity, inflammation and epigenetic modifications in fetal intestine. $25,000. (05/01/2008-04/30/2009) 6 points

Zhu MJ: USDA-NRI. AMP-activated protein kinase and glucose transporters in sheep placentomes. $99,862. 07/01/08-06/30/10 10 points

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