A. Research paper in print/in press in 2005 (alphabetically by last name of 1st author):

1. Ceylan-Isik AF, LaCour KH, Ren J. Gender disparity of streptozotocin-induced intrinsic contractile dysfunction in murine ventricular myocytes: Role of chronic activation of Akt. *Clin Exp Pharm Physiol.* in press.


15. Fang CX, Doser TA, Yang X, Sreejayan N, Ren J. Metallothionein antagonizes aging-induced cardiac contractile dysfunction: Role of PTP1B, insulin receptor tyrosine phosphorylation and Akt. *Aging Cell* in press.


22. Li SY, Liu Y, Sigmon VK, McCort A, Ren J. High fat diet enhances advanced glycation endproduct (AGE) and apoptosis: Role of nuclear O-GlcNAc modification and p38 MAP kinase activation. *Diabetes Obese. Metab.* 7: 448-454, 2005.

23. Li SY, Yang X, Ceylan-Isik AF, Du M, Sreejayan N, Ren J. Cardiac contractile dysfunction in ob/ob obesity is accompanied with NADPH Oxidase Activation, oxidative modification of sarco(endo)plasmic reticulum Ca\(^{2+}\)-ATPase and myosin heavy chain isozyme switch. *Diabetologia* in press.


29. Ren J, Relling DP. Leptin-induced suppression of cardiomyocyte contraction is amplified by ceramide. *Peptide* in press.


**Statistics of paper by group members – congratulations to these big paper winners:**

Asli Ceylan-Isik: 9 (4 being the first author);
Cindy X. Fang: 13 (3 being the first author);
Shan Wu: 4 (2 being the first author);
Xiaoping Yang: 12 (6 being the first author);
Tom Doser: 2;
Karissa LaCour: 3;
Feng Dong: 12 (8 being the first author)
Shi-Yan Li: 10 (6 being the first author)
Qun Li: 3
Xiaochun Zhang: 10 (3 – first author)
Jennifer Nunn: 1
Sreejayan: 10
B. Meeting presentation at the national or international levels - 2005


3. 12th World Congress for Heart Diseases - Vancouver, BC, Canada, July 2005

   8. Li Q*, Ren J, Zhang XC. Chronic alcohol consumption reduces activation of mammalian target of rapamycin (mTOR) and ribosomal p70s6 kinase in cerebral cortex associated with glucose intolerance. Society for Neuroscience, Washington, DC, November 2005.

5. Other National Meeting Presentation from our collaborators:

C. Proposal submitted or grant dollars awarded for the year of 2005:
Total $$ awarded (direct + indirect) for fiscal year 2005: $139,000 to Sreejayan and $305,331 to Ren. A C-CRAM center project grant (PI: Ren, project leaders: Sreejayan and Li SY) was submitted to NIH/NCCAM “Treatment of Diabetes and Vascular Injury with Natural Products”

D. Patent:

E. Awards & etc:
(1). Dr. Sreejayan received the inaugural C-CRAM Research Award (7/05) and the American Diabetes Association Junior Investigator Research Award to work on chromium complexes in diabetes.
(2). Graduate students Cindy Fang and Olalekan Ajayi (mentor: Ren and Culver, respectively) were chosen as graduate students by Dean Roth of UW graduate school to participate in National Institute of Health Biomedical Science Awareness Project.

Merry Christmas and Happy New Year!!!