

1. SUMMARY OF THE PROFESSIONAL ACTIVITIES (July – September 2004)

Paper accepted between July and September 2004

None - summer explains it all.

Manuscript submitted between July and September 2004

1. Dong F, Zhang X, Culver B, Chew, HG, Jr., Kelley RO, Ren J. Dietary iron deficiency induces ventricular dilation, mitochondrial ultra-structural aberrations and cytochrome C release: Involvement of nitric oxide synthase and protein tyrosine nitration. *Clin Science*.
2. Dong F, Zhang X, Wold LE, Ren Q, Zhang Z, Ren J. Endothelin-1 enhances oxidative stress, cell proliferation and reduces apoptosis in human umbilical vein endothelial cells: Role of ET_B receptor, NADPH oxidase and caveolin-1. *British Journal of Pharmacology*
3. Ren J, Fang XC. Small guanine nucleotide-binding protein Rho and myocardial function. *Acta Sinica. Pharmacologica*.

Meeting abstract submitted between July and September 2004

For 2004 neuroscience meeting on Oct 23-27 in San Diego, CA:

**IRON-DEFICIENCY INDUCED APOPTOSIS IN CEREBRAL CORTEX AND HIPPOCAMPUS-
ROLE OF NITRIC OXIDE SYNTHASE AND PROTEIN TYROSINE NITRATION**

I. Willson, X. Zhang, J. Ren, C.J. Woodbury, B. Culver, F. Dong, H.G. Chew, Jr., R.A. Ball

**HIGH DIETARY FAT INDUCES NADPH OXIDASE-ASSOCIATED OXIDATIVE STRESS
AND INFLAMMATION IN RAT CEREBRAL CORTEX**

X.Zhang; B.Culver, J.Ren, F.Dong, M.J.Driscoll

Pharmacol. & Neurosci., Ctr. for Cardiovasc. Res. and Alt. Med., Univ Wyoming, Sch of Pharm.,
Laramie, WY, USA

Proposal submitted and funded: Meghan Driscoll was awarded EPSCoR undergraduate research fellowship under Drs. Culver and Zhang. Sree submitted to NIH ““Chromium-(amino acid)₃ enhances insulin signaling” (R15) on September 25, 2004.

Meeting presentations: Dr. Sreejayan: A Novel Chromium (Phenylalanine)₃ Complex Improves Insulin Signaling and Glucose Tolerance in Obese (ob/ob) Mouse. American Heart Association Council of Basic Science: Stress Signals, Molecular Targets and Genome. Stevenson, WA, July, 2004; Dr. Ren presented three seminars on diabetic heart diseases in Urumchi, Xinjiang, China in July, London, UK and Munich, Germany in August.

2. LABORATORY ISSUES, NOTE & OTHER BUSINESS:

1. Welcome to the new undergraduate students joining our labs: Dave Bruch (pre-pharmacy) and Misty (Freshman) to Culver's lab; Jihye Kim to Ren's lab.
2. Please keep a good habit in the lab. Take care of our equipments such as the balance.
3. Be extra careful for needle, broken glasses and other sharp stuff into trash can. They cannot go in there. We were caught several times over the last months. We can smell “trouble”.
4. New centrifuge is available for the CV lab. Speed up to 20,000 rpm, three rotors fit for 10ml, 30ml and 50 ml tubes. Please follow directions which hanging on the wall and pay special attention while changing rotors (news from Susan, please see her for detail).

