
DOPS NOTES!

Department of Pharmaceutical Sciences

University of Colorado Health Sciences Center

School of Pharmacy

WINTER/MILLENNIUM EDITION

DEC

1999

DR. DAVID ROSS

Y2-Kindness

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During this winter season with 2000 just around the corner, I keep thinking of an event that happened this summer. Hiking Hahn's peak in the Steamboat Lake area with my family and a cousin we got caught in a storm. We were at the top before 11 am but the storm caught us anyway. Since this is a well-known spot for lightning fatalities, the situation was potentially serious. We hiked down quickly but just as we retreated below tree line the lightning really started to kick in. We were looking around for somewhere to shelter when a shepherd, seeing we could be in a lot of trouble, beckoned us in to

his tiny caravan in the woods. There was just enough room for all of us to huddle around the stove and dry out a little. This man was called Marcello and was a Peruvian – he didn't speak English and we didn't speak Spanish but it really didn't matter. We needed help and he provided both shelter and kindness. So when we're all awash in commercialism over the next few weeks try and remember the basics – shelter and kindness are certainly a great start.

I hope you all have a marvelous holiday season and I wish you, your



friends and family a happy and healthy millennial year.

PUBLICATIONS

Nebel A, Schneider BJ, **Baker RK**, and **Kroll DJ** (1999) A potential metabolic interaction between theophylline and St. John's wort. *Annals of Pharmacotherapy*, **33**: 502.

Kepa, J.K. and **Ross, D.** DT-Diaphorase activity in NSCLC and SCLC cell lines: A role for Fos/Jun regulation. *Br. J. Cancer*, 79 1679-1684, 1999.

Stillman, W.S., Varella-Garcia, M. & **Irons, R.D.** (1999). "The benzene metabolites hydroquinone and catechol act in synergy to induce dose-dependent hypoploidy and -5q31 in a

human cell line." *Leukemia & Lymphoma*, 35: 269-281.

Pyatt, D.W., Stillman, W.S., Yang, Y., Gross, S., Zheng, J.-H. & **Irons, R.D.** (1999). "An essential role for NF-Kappa B in human CD34+ bone marrow cell survival." *Blood*, 93: 3302-3308.

Tanguay, R.L., Abnet, C.C., Heideman, W., and Peterson, R.E. (1999) Cloning and characterization of the zebrafish (*Danio rerio*) aryl hydrocarbon receptor. *Biochimica Biophysica Acta*, 1444:35-48.

Abnet, C.C., **Tanguay, R.L.**, Hanh, M.E. and Peterson, R.E. (1999) Two forms of aryl hydrocarbon receptor in rainbow trout (*Oncorhynchus mykiss*): Evidence for differential expression and enhancer specificity. *J. Biol. Chem.*, 274:15159-15166.

Yang, Q., Berton, N., **Manning, M.C.**, and **Catalano, C.E.** (1999) "Domain Structure of gpNu1, a Phage Lambda DNA Packaging Protein" *Biochemistry*, **38**:14238-14247.

Yang, Q., de Beer, T., Woods, L., Meyer, J.D., **Manning, M.C.**, Stillman, W.S., Yang, Y., Gross, S., Zheng, J.-H. & Ir
Overduin, M., and **Catalano, C.E.** (1999) "Cloning, Expression, and Characterization of a DNA Binding Domain of gpNu1, a Phage ? DNA Packaging Protein" *Biochemistry*, **38**:465-477.

Lin, B., Williams-Skipp, C., Tao, Y., Schleicher, M.S., **Cano, L.C.**, Duke, R.C., and **Scheinman, R.I.** (1999) NF-? B Functions As Both a Proapoptotic and Antiapoptotic Regulatory Factor Within a Single Cell Type. *Cell Death and Differentiation* 6:570-582.

Anchordoquy, T.J. Physical stability of nonviral gene delivery systems. *BioPharm*, 12 (6): 42-48 (1999).

Henthorn, T., Liu, Y., Mahapatro, M. and **Ng, K.** Active transport of fentanyl by the blood-brain barrier. *J. Pharmacol. & Exp. Therap.* **289**: 1084-1089, 1999.

Robert Tanguay submitted grants to the Manufacturers of America Foundation New investigator Program for \$25,000 (1/01/00-12/31/00) and a grant for \$453,000 to NIH-NIAAA titled *Zebrafish: A model for fetal ethanol injury* (08/01/00-07/30/01).

Mark Manning submitted a grant to NASA for \$174,000 titled *Production of Stable Biopharmaceuticals* (6/00 - 6/03)

Vasilis Vasilou submitted grants to NEI/NIH titled *Molecular Mechanisms of Corneal Aldehyde Dehydrogenase* in the amount of \$98,740 (12/99 - 11/00), and to NIH/NIAAA titled *Genetic Models to Study Alcohol Toxicity* for \$252,737 (1/99 - 12/03)

Lawrence Ng submitted a grant to NCI/NIH in the amount of \$204,350 titled *Brain Therapy Using Ultrasound Mediated Drug Delivery* (2/00 - 1/02)

Al Malkinson has submitted a grant to NIH titled *Lung Tumor*

GRANTS SUBMITTED

Promotion by BHT for
\$354,453 (2/00 – 1/31/04)

Tom Anchoquy
submitted grants to NIH in
the amount of \$1,321,250
titled *Degradation
Mechanisms of DNA in the
Dried State* (7/00 – 6/05),
and in the amount of
\$589,720 titled
*Lyophilization of Nonviral
Gene Delivery Systems* (7/00
– 6/03)

Robert Scheinman
submitted a grant for
\$140,800 to NIH titled
*Selective Disruption of TNF-
alpha Signaling in Murine
Collagen Induced Arthritis*
(7/00 – 6/02)

PRESENTATIONS

Graduate Student Rotation Talks

The following students
presented their rotation
seminars on December
16th, 1999. The reviews
were all exceptional.
Good Job!!

Katherine Peebles –
“Induction of 1A Enzyme
By Hypericin: A Potential
For Drug Interactions
Between St. John’s Wort
and Mutiple Therapeutic
Agents”

Sampathkumar Krishnan
– “Issues Related to
Protein Unfolding Curves”
Qingchen Chen – “Bovine
Brain Microvessel
Endothelial Cell Culture
and an integrated
Diffusion/Ultrasound
Therapy Unit for Blood-
Brain Barrier Transport
Studies”

Yongsung Kim –
“Thermodynamic
Modulation of Light
Chains Amyloid Fibril
Formation”

ITEMS OF INTEREST

●**Ronda Baker, Donna Dehn,
Susanne Williams and John
Reichard** have all succesfully
passed their respective
Comprehensive Examinations
this fall. Ronda was recently
quoted as saying “Thank God
it’s over” **Congratulations!** to
each of them. Next up – Thesis
Proposal and Defense!!

●**Shannon Winski**, slashing
forward for the Denver-based
Burlly Foxes Inline Hockey
Team, helped lead her
teammates to the Women’s
Division II 1999 USA Hockey
Inline Cup in New Orleans
earlier this Fall.
Congratulations! to Shannon
and her teammates for defeating
another Denver-based team,
The Denver Smash, 4-2 to win

their first **national
championship!**

●**Orlando Green** was elected
to the UCHCS Staff Council
along with **Christine Morton**
of OSS as the newest
representatives of the School of
Pharmacy. They are both
delighted to serve the SOP staff.

DOPS NOTES STAFF

David Ross, Department Chair
Orlando Green, Admin. Ass’t.
Carol Carper, Admin Ass’t
Becky Stricker, Student Ass’t