



News & Reviews

Announcements

Meeting Attendance

Over forty graduate students, postdoctoral fellows, and faculty from the College of Veterinary Medicine and Faculty of Toxicology attended the Society of Toxicology annual meeting in New Orleans, LA, March 14-18. Forty abstracts were presented and several individuals received awards. **Kevin Kerzee** (Ramos) was awarded the prestigious Proctor and Gamble/SOT Graduate Student Fellowship, one of the two highest student awards. SOT Specialty Section awards included **Kim Poe Lu** (Ramos), 1st place in *In Vitro* Toxicology, **Andrew McDougal** (Safe), 2nd place in Food Safety, **Kim Miller** (Ramos), 2nd place in Comparative and Veterinary Toxicology, **Chunhua Qin** (Safe), 2nd place in Molecular Biology and **Kevin Kerzee**, Honorable Mention in Mechanisms. **Yun-Houng Chen** received a Graduate Student Travel Award from SOT. In addition, several students received CVM Graduate Student Association travel awards: **Napoleon Alejandro**, **I-Chen Chen**, **Mona Gupta**, **Marc Holderman**, **Henry Huebner**, **Kim Poe Lu**, **Andrew McDougal**, **Kim Miller**, **Chunhua Qin**, **Kavita Ramamoorthy**, **Matthew Stoner** and **Mark Wormke**. *Abstracts begin on page 4.*



Thu Nguyen and **Kavita Ramamoorthy**, both from Dr. Safe's lab, attended the Keystone Conference on Endocrine Disruptors at Lake Tahoe, CA, Jan. 31-Feb. 5. Both presented posters at the conference.

TAMU Student Research Week was held March 23-27. Numerous Toxicology students participated in the poster competition. **Bill Reeves** (Donnelly) won the Life Sciences III: Toxicology-Graduate category and **Andrew McDougal** (Safe) tied for first place in the Biomedical Sciences-Graduate

category. Other student participants were **Napoleon Alejandro**, **Yun-Houng Chen**, **Marc Holderman**, **Kevin Kerzee** and **Kim Miller** from Ramos' lab,

Tae-Hyeon Cho from Tiffany-Castiglioni's and Donnelly's labs, and **Matthew Stoner** from Safe's lab.

Kevin Kerzee (Ramos) attended the FASEB meeting in Washington, DC from April 16-21 and gave three presentations. His abstract

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was “Role of the Aryl Hydrocarbon Receptor in the Regulation of c-Ha-ras in Vascular Smooth Muscle Cells by Benzo(a)Pyrene, a Tobacco Smoke Constituent.” The first presentation was an invited talk for the Highlights in Graduate Student Research, sponsored by the American Society for Investigative Pathology (ASIP), the second was a poster presentation at the North American Vascular Biology Organization (NAVBO) meeting, and the third was an oral presentation for winning the Young Investigator Award sponsored by NAVBO.

A group of graduate students from Dr. Safe’s laboratory attended the 5th Annual Meeting of the Texas Forum on Female Reproduction in Houston, TX, May 13-14. **Emely Castro-Rivera, I-Chen Chen, Renqin Duan, Andrew McDougal, Thu Nguyen, Matthew Stoner, Gulan Sun and Carrie Vyhlidal** each presented posters at the conference.

Bill Reeves (Donnelly) attended the Rocky Mountain/Great Plains Region Hazardous Substance Research Center conference in St. Louis, MO, May 25-27. He presented a poster entitled “Desorption and Aqueous Extractability of Polycyclic Aromatic Hydrocarbon Mixtures on Soil.”

Awards and Honors

Thu Nguyen (Safe) is a recipient of an Academic Excellence Award and Aggie Spirit Collegiate License Plate Scholarship from Texas A&M University.

At the annual College of Veterinary Medicine Honors Convocation in April, **Andrew McDougal** (Safe) and **Kim Poe Lu** (Ramos) received high honors by receiving the George T. Edds Award and the Fisher Institute Medical Research Award respectively.

Student Progress

Completed Preliminary Exams

<u>Student</u>	<u>Advisor</u>
Mona Gupta	Safe
Komkrich Pimpukdee	Phillips



Received Degrees in May 1999

Annamarie Bokelmann from Dr. K.C. Donnelly’s lab (VAPH) received her M.S. and is presently employed as a Technician II. Her major responsibilities include Health & Safety (for the laboratory and the VAPH Department), and QA/QC requirements for all research projects. She also coordinates activities for the Field Services Facility of the Center for Environmental and Rural Health and is responsible for coordinating standards preparation and analytical support for CERH projects.

Sam Frazier from Dr. Patricia Pietrantonio’s lab (ENTO) received his Ph.D. He resides in Delaware and is seeking employment with a pharmaceutical company.

Tim Kalafut from Dr. Jim Wild’s lab (BCBP) received his Ph.D. is now working for the Institute of Forensic Sciences in Dallas County. He performs DNA fingerprinting and is an expert witness.

Francis Lau from Dr. Louise Abbott’s lab (VAPH) received a Ph.D. He is an Intramural Research Training Award (IRTA) recipient and is working at the National Institutes of Health-Mental Health Division where he studies the gene expression of neurodegenerative diseases and neurogenesis.



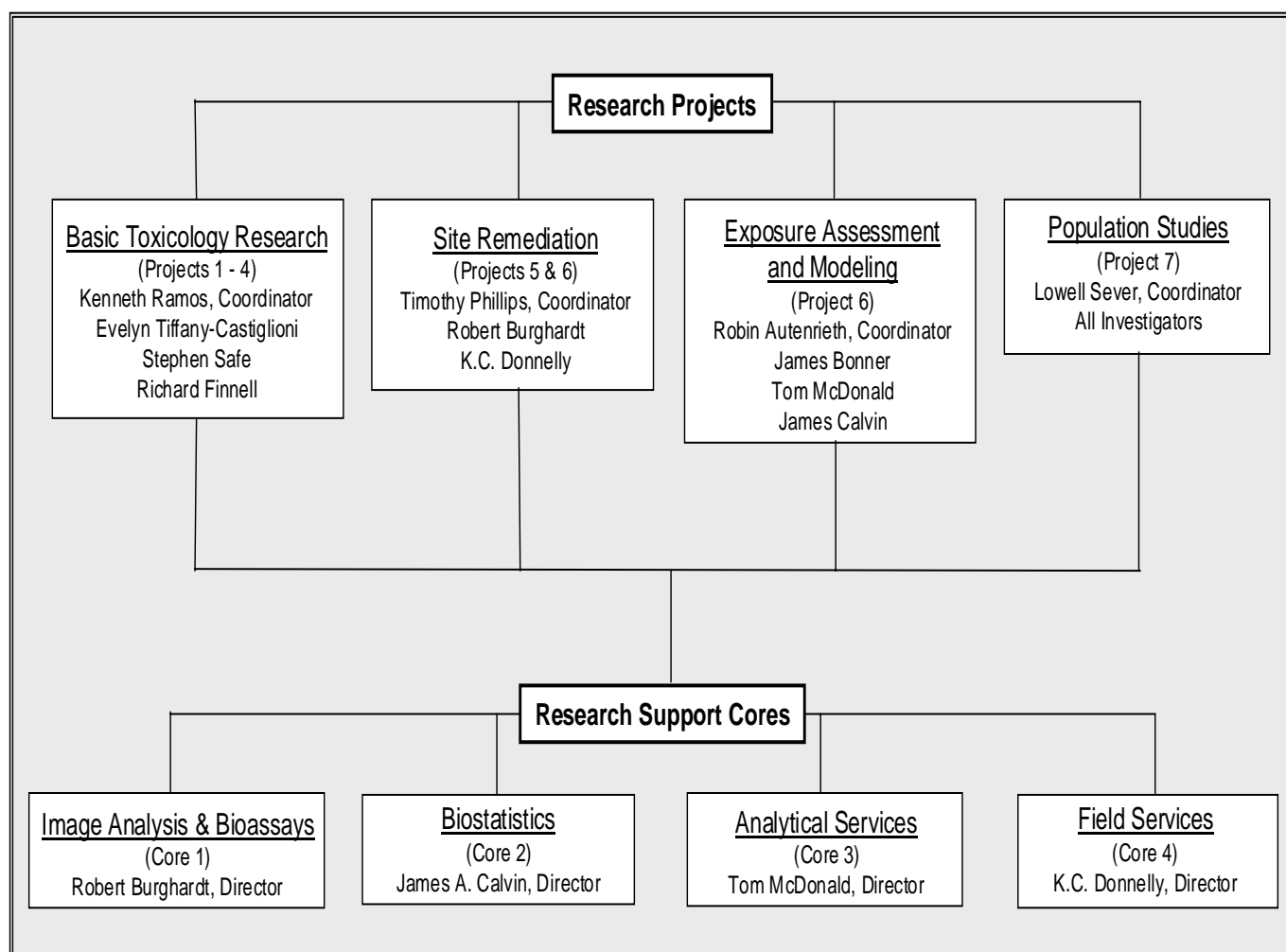
Superfund News

On March 3, 1999, Drs. Robert Burghardt, K.C. Donnelly, Steve Safe and Evelyn Tiffany-Castiglioni, Greg Bennett and Janee van Waes and graduate student Shannon Garcia (Donnelly's lab) traveled to Dallas, TX to attend a meeting with the U.S. Environmental Protection Agency Region VI scientists. At this meeting the various projects that will constitute our Superfund grant renewal were discussed and EPA scientists made a number of suggestions that were incorporated into the grant proposal that was submitted on May 11, 1999. Scientists from the Dallas regional office have agreed to form an EPA Scientific Advisory Board that will play an important role in the direction of our research program.

Dr. Donnelly traveled to Atlanta, GA, March 9-10 to attend the 1999 Agency for Toxic Substances and Disease Registry (ATSDR) Partners in Public Health meeting. He made a presentation entitled "Facing Conflict and Developing Partnership for a Healthier World."

Dr. Donnelly also traveled to Cincinnati, OH on May 19-21, 1999 to participate as a peer reviewer for the U.S. Environmental Protection Agency's "Peer Review Workshop on Guidance for Conducting Health Risk Assessments of Chemical Mixtures."

The renewal grant application for the SBRP Project was submitted and an overall summary of our submission is illustrated below.



1999 Society of Toxicology Presentations

EQUILIBRIUM ADSORPTION OF LEAD IN WATER BY TRIOCTAHEDRAL SMECTITE CLAY. **C.L. Ake**, K. Mayura, H.J. Huebner, G.R. Bratton and T.D. Phillips.

FUNCTIONAL, MORPHOLOGICAL AND MOLECULAR ALTERATIONS INDUCED BY BENZO[A]PYRENE IN THE ADULT RAT KIDNEY. **N.F. Alejandro** and K.S. Ramos.

DEVELOPMENT OF IN VITRO SCREENING ASSAYS FOR POTENTIALLY NEUROTOXIC POLYCYCLIC AROMATIC HYDROCARBONS IN C6 RAT GLIOMA CELLS. D. Alexander, **Y. Tang**, K.C. Donnelly, and E. Tiffany-Castiglioni.

ANALYSIS OF THE SUBCELLULAR DISTRIBUTION AND CYTOTOXICITY OF BENZO[a]PYRENE IN RAT LIVER CELLS. **R. Barhoumi**, K. Ramos, S.H. Safe, T.D. Phillips, and R.C. Burghardt.

POTENTIAL PROBLEMATIC GLYCOALKALOIDS IN PORK CHOPS. J.M. Betz and **T. Garland**.

ESTROGEN AND ARYL HYDROCARBON RESPONSIVENESS OF ECC-1 ENDOMETRIAL CANCER CELLS IN CULTURE. **E. Castro-Rivera** and S. Safe.

IDENTIFICATION OF ESTROGEN-INDUCED GENES DOWNREGULATED BY 2,3,7,8-TETRACHLORODIBENZO-*p*-DIOXIN (TCDD) BY SUPPRESSION SUBTRACTIVE HYBRIDIZATION. **I.-C. Chen** and S. Safe.

NEGATIVE REGULATION OF THE RAT GST-Ra GENE IN VASCULAR SMOOTH MUSCLE CELLS.

Y.-H. Chen, K.S. Ramos.

THE USE OF OPH ENZYME FOR THE DETOXIFICATION OF METHYL PARATHION. **T. Cho**, J.R. Wild, E. Tiffany-Castiglioni and K.C. Donnelly.

IDENTIFICATION OF ELEMENT IN THE bcl-2 GENE PROMOTER REQUIRED FOR ESTROGEN RESPONSIVENESS. **L. Dong**, W. Wang and S. Safe.



GENOTOXICITY STUDIES WITH BINARY, TERTIARY AND ISOLATED FRACTIONS OF COMPLEX ENVIRONMENTAL MIXTURES. **K.C. Donnelly**, M. Mumtaz, W.R. Reeves and S. Safe.

INHIBITION OF E2-INDUCED *C-fos* PROTOONCOGENE EXPRESSION BY 2,3,7,8-TETRACHLORODIBENZO-*p*-DIOXIN (TCDD) IN MCF-7 HUMAN BREAST CANCER CELLS. **R. Duan**, W. Porter, I.-C. Chen and S. Safe.

NEPHROTOXICITY ASSESSMENT OF SELECTED POLYCYCLIC AROMATIC HYDROCARBONS. **M.H. Falahatpisheh** and K.S. Ramos.

ANTIESTROGENIC ACTIVITY OF DIINDOLYL METHANE ANALOGS IN HUMAN BREAST CANCER CELLS: STRUCTURE ACTIVITY RELATIONSHIPS. **M.S. Gupta**, K. Yoon, K. Ramamoorthy, A. McDougal and S. Safe.

PROTEIN INTERACTIONS WITH THE ELECTROPHILE RESPONSE ELEMENT INDUCED BY BENZO[A] PYRENE AND RELATED OXIDANTS. **M.T. Holderman**, K.P. Miller, and K.S. Ramos.

APPLICATION OF IMMOBILIZED ACTIVATED CARBON FOR THE SORPTION OF PATULIN FROM AQUEOUS SOLUTION. **H. Huebner**, K. Mayura, C. L. Ake, S. Lemke and T.D. Phillips.

ROLE OF THE ARYL HYDROCARBON RECEPTOR AND P450 METABOLISM IN THE REDOX REGULATION OF *c-Ha-ras* BY BENZO[A] PYRENE IN VASCULAR SMOOTH MUSCLE CELLS. **J.K. Kerzee** and K.S. Ramos.

ESTROGEN-MEDIATED TRANSACTIVATION VIA ESTROGEN RECEPTOR (ER)-SP1 INTERACTIONS: COMPARISON OF WILD TYPE AND MUTANT MOUSE ER. **K. Kim**, M.G. Parker and S. Safe.

NUCLEAR RECEPTOR COREPRESSOR INTERACTIONS WITH Ah RECEPTOR SIGNALING. **J-E Lee**, T.A. Nguyen and S. Safe.

IDENTIFICATION OF GENES DIFFERENTIALLY EXPRESSED IN BENZO[A]PYRENE TREATED VASCULAR SMOOTH MUSCLE CELLS: IMPLICATIONS IN ATHEROGENESIS. **K.P. Lu** and K.S. Ramos.

HALODIINDOLYLMETHANES: NATURAL PRODUCT DERIVATIVES WITH ANTIESTROGENIC AND ANTITUMORIGENIC ACTIVITIES. **A.J. McDougal**, M. Gupta, K. Ramamoorthy and S.H. Safe.

FURTHER CHARACTERIZATION OF EpRE BINDING PROTEINS AND THEIR FUNCTION IN VASCULAR SMOOTH MUSCLE CELLS. **K.P. Miller**, M.T. Holderman and K.S. Ramos.

ALTERATION OF OXYTOCIN- AND VASOPRESSIN-INDUCED CALCIUM OSCILLATIONS IN ARAT LIVER CELL LINE BY TCDD. **Y. Mounieimne**, R. Barhouni, T.D. Phillips and S.H. Safe.

ESTROGEN RECEPTOR (ER) SP1 PROTEIN INTERACTIONS WITH ER COACTIVATORS. **T.A. Nguyen** and S. Safe.

Pb TOLERANCE IN C6 RAT GLIOMA CELLS. **Y. Qian**, Y. Zheng and E. Tiffany-Castiglioni.

MOLECULAR MECHANISM OF ESTROGEN-INDUCED IGFBP-4 GENE EXPRESSION. **C. Qin** and S. Safe.

A h R - M E D I A T E D ANTIESTROGENICITY AND ANTITUMORIGENICITY OF DIINDOLYL-METHANE AND ANALOGS. **K. Ramamoorthy**, A. McDougal, M. Gupta and S. Safe.

REGULATION OF GENE EXPRESSION VIA THE ELECTROPHILE RESPONSE

ELEMENT. **K. Ramos**.

MECHANISMS OF ACTION OF NATURALLY OCCURRING ANTICARINOGENS - INTRODUCTION. **S. Safe**.

ANTIESTROGENIC AND ANTITUMORIGENIC ACTIVITIES OF DIINDOLYL METHANE. **S. Safe**, A. McDougal, I. Chen, K. Ramamoorthy and M. Sethi-Gupta.

MECHANISM OF ESTROGEN-MEDIATED INDUCTION OF DNA POLYMERASE α GENE EXPRESSION IN MCF-7 HUMAN BREAST CANCER CELLS. **I. Samudio** and S. Safe.

MOLECULAR ANALYSIS OF ESTROGEN RECEPTOR α (ER α) AND ER β - S P 1 - M E D I A T E D TRANSACTIVATION: ROLE OF ACTIVATION FUNCTION 1. **B. Saville**, M. Wormke and S. Safe.

VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF) GENE EXPRESSION IS DOWNREGULATED BY 17 β -ESTRADIOL (E2) IN HEC1-A HUMAN ENDOMETRIAL CARCINOMA CELL LINE. **M. Stoner** and S. Safe.

INHIBITION OF ESTROGEN-INDUCED RETINOIC ACID RECEPTOR $\alpha 1$ GENE EXPRESSION IN MCF-7 CELLS BY

AH RECEPTOR AGONISTS: MECHANISM OF AH RECEPTOR-ESTROGEN RECEPTOR CROSSTALK. **G. Sun**, Y. Lu, and S. Safe.

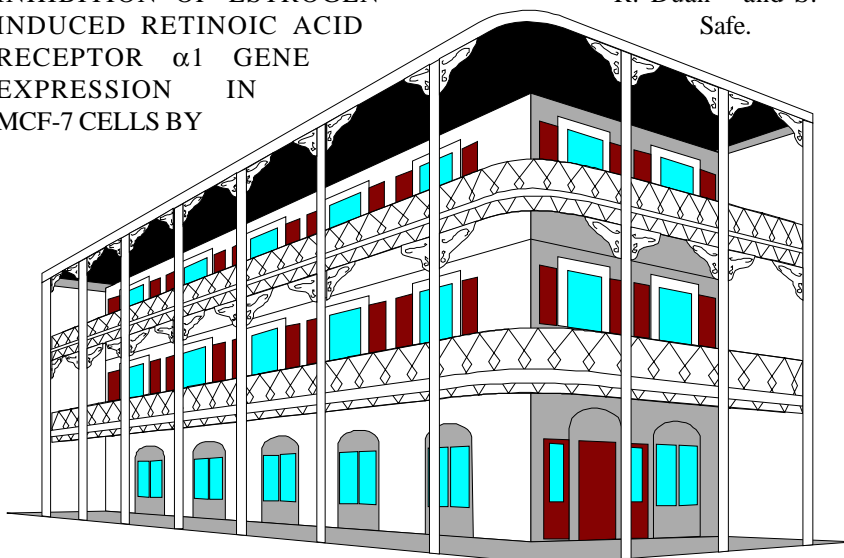
CROSSTALK BETWEEN THE AH RECEPTOR AND ESTROGEN RECEPTOR SIGNALING PATHWAYS IN REGULATION OF TRANSFORMING GROWTH FACTOR α . **C. Vyhldal** and S. Safe.

REGULATION OF CONSTITUTIVE GENE EXPRESSION THROUGH AhR COMPLEX - Sp1 PROTEIN INTERACTIONS. **F. Wang** and S. Safe.

MECHANISM OF ESTROGEN-INDUCED E2F1 GENE EXPRESSION: ROLE OF ESTROGEN RECEPTOR/SP1 INTERACTIONS WITH NF-YA. **W. Wang** and S. Safe.

MECHANISM OF INHIBITION OF ESTROGEN-INDUCED GENE EXPRESSION BY TCDD. **M. Wormke** and S. Safe.

A GC-RICH SITE IN THE THYMIDYLATE SYNTHASE GENE PROMOTER IS REQUIRED FOR ESTROGEN-RESPONSIVENESS IN MCF-7 HUMAN BREAST CANCER CELLS. **W. Xie**, R. Duan and S. Safe.



Conferences

July 1999

July 6-8

NEHA Hazardous Materials and Waste Conference

Nashville, TN

Contact: NEHA, 720 S. Colorado Blvd., Ste. 970-S, Denver, CO 80246-1925; Tel: 303-756-9090; Fax: 303-691-9490; Internet: www.neha.org.

August 1999

August 7-11

Endocrine Society: Recent Progress in Hormone Research

Stevenson, WA

Contact: The Meetings Department; Tel: 301-941-0020; Fax: 301-941-0259; Email: kakoto@endo-society.org; Internet: www.endo-society.org.

September 1999

September 2-3

Nutrition and Cancer Prevention: New Insights Into the Role of Phytochemicals

Washington, DC

Contact: American Institute for Cancer Research Conference Secretariat, The Pearson Group, Ste. 210, 1150 S. Washington St., Alexandria, VA 22314; Tel: 703-683-6334; Fax: 703-683-6407; Email: PGPlanners@aol.com.
Abstract deadline: August 5, 1999

September 20-21

In Vitro Human Tissue Models in Risk Assessment Workshop

Ellicott City, MD

Contact: Turf Valley Conference Center, 2700 Turf Valley Road, Ellicott City, MD 21042; Tel: 410-465-1500; Fax: 410-465-7365

September 22-26

AACR Molecular Aspects of Metastasis

Snowmass, CO

Contact: Special Conference Registration, American Association for Cancer Research, Public Ledger Bldg, Ste 826, 150 South Independence Mall West, Philadelphia, PA 19106-3483; Tel: 215-440-9300; Fax: 215-440-9313
Application and Abstract Deadline: June 21, 1999

October 1999

October 17-20

Epigenetic Toxicant-Induced Signal Transduction and Altered Cell-Cell Communication

Ann Arbor, MI

Contact: Joyce Robertson, Registrar, Office of Continuing

Medical Education, University of Michigan, P.O. Box 1157, Ann Arbor, MI 48106-1157; Tel: 734-763-1400 or 800-800-0666; Fax: 734-936-1641; Email: OCME@umich.edu; Website: www.msu.edu/~trosko/.

October 21-23

ACS Joint 55th Southwest/15th Rocky Mountain Regional Meeting

El Paso, TX

Contact: SWARM99, Dept of Chemistry, University of Texas at El Paso, El Paso, TX 79968-0513; Internet: www.chemistry.utep.edu/swarm.

October 24-28

9th North American ISSX Meeting

Nashville, TN

Contact: ISSX/ACS-DCT Meeting, PO Box 3, Cabin John, MD 20818; Fax: 301-983-5357; Email: nholahan@issx.org; Internet: www.louisville.edu/medschool/biochemistry/ISSX-ACS/ISSX.htm.

October 27-30

International Symposium on Endocrinology of Aging Tempe, AZ

Contact: Leslie Nies, President; Serono Symposia USA, Inc., 100 Longwater Circle, Norwell, MA 02061; Tel: 800-283-8088, 781-982-9000; Fax 781-982-9481
Abstract deadline: August 23, 1999

November 1999

November 6-10

IUTOX 4th Congress of Toxicology in Developing Countries "Chemical Safety for Every Country"

Antalya, Turkey

Contact: Prof. Dr. Semra Sardas, Gazi University Faculty of Pharmacy (Eczacilik), Department of Toxicology, 06330 Hipodrom – Ankara Turkey; Fax: 90-312-222 23 26; Email: eko30k@tr-net.net.tr; Internet: <http://www.pharmacy.ankara.edu.tr/turktox>.

Abstract deadline: July 31, 1999

November 16-17

Wetlands and Remediation

Salt Lake City, UT

Contact: The Conference Group, 1989 West Fifth Avenue, Suite 5, Columbus, OH 43212-1912. Tel: 800-783-6338, 614-424-5461; Fax: 614-488-5747; Email: conferencegroup@compuserve.com.

November 16-19

AACR-NCI-EORTC: Molecular Targets and Cancer Therapeutics

Washington, DC

Contact: American Association for Cancer Research, Public Ledger Bldg, Suite 826, 150 S. Independence Hall West, Philadelphia, PA 19106-3483; Tel: 215-440-9300; Fax: 215-440-9313; Email: meetings@aacr.org; Internet: <http://www.aacr.org>.

January 2000

January 9-12

Cancer Research at the Millenium

Houston, TX

Contact: Cancer Research at the Millenium, Conference Services-HMB 131, UT M.D. Anderson Cancer Center, 1515 Holcombe Blvd, Houston, TX 77030-4095; Tel: (713) 792-2222; Fax (713) 794-1724; Internet: <http://www.mdacc.tmc.edu/~meetings>.

Abstract deadline: September 15, 1999

March 2000

March 19-23

Society of Toxicology Annual Meeting

Philadelphia, PA

Contact: Society of Toxicology, 1767 Business Center Drive, Ste. 302, Reston, VA 20190-5332; Tel: 703-438-3115; Fax: 703-438-3113; Email: sothq@toxicology.org; Internet: <http://www.toxicology.org>.

Abstract deadline: October 1, 1999

April 2000

April 10-12

ASTM Environmental Toxicology and Risk Assessment

Toronto, Ontario, Canada

Contact: Dr. Bruce M. Greenberg, Dept. of Biology, University of Waterloo, Waterloo, ON, Canada N2L 3G1; Tel: 519-888-4567, ext. 3209; Fax: 519-746-0614; Email: greenber@sciborg.uwaterloo.ca.

Preliminary abstracts due August 31, 1999

April 19-21

Life Science and Clinical Medicine 2000

Beijing, China

Contact: LSCM2000 Secretariat, Room 202, No. 11, Xizhimen S. Street, Xicheng District, Beijing, China 100044; Tel: 86-10-68366259; Fax: 86-10-68333439; Email: Iscm@beic.gov.cn; Internet: Iscm.caemed.org

Abstract deadline: December 31, 1999

May 2000

May 22-25

Remediation of Chlorinated and Recalcitrant Compounds
Monterrey, CA

Contact: The Conference Group, 1989 West Fifth Avenue Suite 5, Columbus, OH 43212-1912. Tel: 800-783-6338, 614-424-5461; Fax: 614-488-5747; Email:

conferencegroup@compuserve.com.

Abstract deadline: July 30, 1999

May 27-June 1

11th Workshop on Vitamin D

Nashville, TN

Contact: Vitamin D Workshop, Inc., Dept of Biochemistry, University of California Riverside, Riverside, CA 92521; Fax: 909-787-4784; Internet: www.vitamind.ucr.edu; Email: VITAMIND@UCRAC1.UCR.EDU.

June 2000

June 11-16

Drug Metabolism Workshop / ISSX 2000

Fife, Scotland

Contact: Meeting Makers, Jordanhill Campus, 76 Southbrae Drive, Glasgow G13 1PP, Scotland, UK; Tel: +44 (0) 141 434 1500; Fax: +44 (0) 141 434 1519; Email: dmwssx2000@meetingmakers.co.uk.

Abstract deadline: March 15, 2000.

August 2000

August 27-September 1

XXV European Congress on Molecular Spectroscopy

Coimbra, Portugal

Contact: EUCMOS XXV Secretariat, Dept of Chemistry, University of Coimbra, P-3049 Coimbra, Portugal; Tel: 351-39-852080 or 351-931-9236971; Fax: 351-39-827703; Email: rfausto@gemini.ci.uc.pt.

Abstract deadline: March 31, 2000



Employment Opportunities

Risk Assessment Positions

Tetra Tech EM Inc. Human Health Risk Assessor sought to conduct risk assessments and assist with development of DQOs and sampling plans for contaminated waste sites. MPH/MS/PhD in toxicology/related field with 2-5 years experience in risk assessment. Requires proficiency in spreadsheet/database programs, strong written/verbal communication skills. Statistics a plus. Send resume and cover letter to: HR, Tetra Tech Em Inc., 135 Main Street, Suite 1800, San Francisco, CA 94105; Fax: 415-543-5480; Websites: www.ttemi.com or www.tetrattech.com

ISSI Consulting Group is seeking Risk Assessors with human health chemical risk assessment experience to join the fast growing team in the Washington, DC area. Requires excellent analysis and written communication skills. MS/PhD plus 5-10 years of relative experience required. Please send resume and salary requirements to: Patricia Schools, Director of Human Resources, ISSI Consulting Group, 8455 Colesville Road Suite 1050, Silver Spring, MD 20910; email: pschools@issiinc.com

Ecology and Environment, Inc. is an international environmental consulting firm with an opening for an experienced PhD in the life sciences with training/experience in toxicology, pharmacology, molecular biology or biophysics. Position requires sound scientific skills and ability to apply innovative approaches to complex litigation and risk assessment involving environmental and human health issues. Prior litigation support experience and trade association participation are highly desirable. Send resume, salary expectations and a writing sample to Ms. Janet Steinbruckner, Director of Human Resources, Ecology and Environment, Inc., 368 Pleasant View Drive, Lancaster, NY 14086; Fax: 716-684-0844; Email: jas02@ene.com, Internet: www.ecolen.com.

Biologist/Toxicologist

Syracuse Research Corporation's Environmental Science Center is seeking scientists to join their Syracuse, New York facility. The non-laboratory positions require a PhD or MS in toxicology, biology, or related fields, and 0-5 years experience. Offers competitive salaries, creative, challenging work environment and comprehensive benefits package. Send resume, cover letter, references, and salary requirements to: Syracuse Research Corporation Dept. 99-5, Running Ridge Road, North Syracuse, NY 13212-2510. Email: ryan@syres.com; Internet: <http://esc.syres.com>.

Assistant/Associate Professors (2)

University of North Dakota School of Medicine and Health Sciences, Dept. of Pharmacology and Toxicology has two tenure-track twelve-month appointments anticipated to begin Sept. 1, 1999. PhD in Pharmacology, Toxicology or related discipline or MD with significant research experience required. Applicant will be expected to initiate and maintain an independently funded research program as well as participate in team taught pharmacology and toxicology courses at the undergraduate, graduate and professional levels. Send letter of application, complete CV, statement of research interests and development plan, and names of three references to: Search Committee, Dept. of Pharmacology and Toxicology, University of North Dakota School of Medicine and Health Sciences, 501 North Columbia Road, Grand Forks, ND 58202-9037. Internet: www.med.und.nodak.edu/depts/pharmtox/home.htm.

Chief of Environmental Health

Seattle-King County Department of Public Health is seeking a director for the Division of Environmental Health. Responsible for the direction and management of Water Quality, Solid Waste, Wastewater Disposal, Plumbing and Gas Piping, Vector/Nuisance, Living Environment, Food Safety, Meat Inspection, Chemical/Physical Hazards and Local Hazardous Waste Management. Seeking progressive and assertive leader in public health with effective communication and community collaboration and policy development skills. Responsibilities are to direct, plan, develop, organize and monitor the Environmental Health Program; develop policies and procedures to comply with Federal, State and local laws, represent the Department in all matters related to environmental health and work with community groups, business interests and elected officials to ensure stakeholder involvement in new or changed environmental health laws or programs. Salary is \$71,526 - 83,105 annually with opportunity for supplemental merit pay, and excellent benefits. Minimum qualifications include MS in Environmental Health, Public Health or related area and 6 years of administrative or management experience. Washington State Registered Sanitarian license desired. Submit resume, complete list of five references, optional affirmative action information request, detailed letter of interest specifically addressing the qualifications listed in announcement to: Stein Stenseng, Executive Search Services, Washington State Department of Personnel, P.O. Box 47530, 600 South Franklin, Olympia, WA 98504-7530; Tel: 360-664-1953; Fax: 360-586-1389; Email: steins@dop.wa.gov; Internet: www.wa.gov/ess.

Postdoctoral Positions

University of Vermont, Dept. of Pathology. Two positions available to study molecular regulation of cell death by stress response genes. Focus on renal chemical injury and metabolic stress and survival of metastatic cells. Experience in molecular/cell biology and transgenic and knockout mice desirable. Send CV and names of three references to Dr. Jim Stevens, Dept. of Pathology, A249 Medical Alumni Building, Burlington, VT 05405; Tel: 802-656-9495; Fax: 802-656-2641; Email: jim.stevens@uvm.edu

Baylor College of Medicine Two positions (1) Mechanisms of Bioreductive Drug Activation. Involves purification, cloning and functional analysis of novel cytosolic mitomycin C reductase protein that activates antitumor drugs in tumor tissues. (2) Detoxification Mechanisms and Chemoprevention. Purify, clone and determine the role of newly identified NAD(P)H:quinone oxidoreductase in prevention of oxidative stress and cellular transformation. Need working knowledge of biochemistry, protein purification, and molecular and cell biology. Send CV and names of three references to Anil K. Jaiswal, PhD, Associate Professor, Dept of Pharmacology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.

Boston University. Two positions. Study involves (1) endocrine regulation and JAK/STAT signaling in control of liver P450 gene transcription and (2) gene therapy applications in cancer pharmacology. Requires strong molecular or cell biology or biochemical pharmacology research experience. Send CV, brief research summary, copies of select publications and names of three references to: Dr. David J. Waxman, Professor of Cell and Molecular Biology, Boston University, 5 Cummington St., Boston MA 02215-2406; Email djw@bio.bu.edu; Fax: 617-353-7404.

University of Cincinnati College of Medicine. Focus on molecular and cellular reproductive endocrinology with primary emphasis on mechanism of FSH in ovary. Recent PhD or MD with research experience in molecular and cell biology, endocrinology, biochemistry, physiology or related field needed. Techniques include cell culture, competitive RT/PCR, radioreceptor assay, metabolic labeling and immunoprecipitation, site-directed mutagenesis, and overexpression of the signal transduction system components. Contact Andrew R. LaBarbera, Ph.D., Professor of Obstetrics and Gynecology, University of Cincinnati College of Medicine, P.O. Box 670526, Cincinnati, OH 45267-0526. Tel: 513-558-3815; Fax: 513-558-6138; Email: andrew.labarbera@uc.edu

Rockefeller University Population Council's Center for Biomedical Research is recruiting postdoctoral fellows in

Cell and Molecular Biology of Reproduction. Send CV and names and addresses of three references to The Fellowship Secretary, Population Council, Center for Biomedical Research, 1230 York Avenue, Box 273, New York, NY 10021. Email contact: jes@popcbr.rockefeller.edu

Oregon Regional Primate Research Center-Laboratory of Perinatal Physiology (Miles J. Novy, M.D.). Position available to U.S. citizens on an NIH Training Grant. Research focuses on events surrounding transition from pregnancy to parturition in primates. Techniques include chronically catheterized rhesus monkey models for spontaneous and preterm labor, enzyme immunoassay for prostaglandins and other hormones, Western blotting, PCR, enzymography, RNase protection assay, cell sorting, light and electron microscopy, confocal imaging and immunocytochemistry. Contact George J. Haluska, Ph.D. at haluskag@ohsu.edu; Tel: 503-690-5289; fax: 503-690-5563.

Texas A&M University. Molecular endocrinology project focuses on sheep endometrium estradiol stabilized estrogen receptor mRNA. Work includes sheep handling and surgery, molecular cloning, Northern blot analysis and ribonuclease protection assays, cell culture and transfection assays. Requires recent PhD, predoctoral research experience in molecular biology, cell biology, endocrinology, biochemistry, physiology or related field and publication in peer-reviewed journals. Salary \$25,000 plus benefits. Send CV, reprints and three references to Dr. Nancy Ing, Dept of Animal Science, Texas A&M University, College Station, TX 77843-2471. Email: ning@cvm.tamu.edu, Internet: <http://catlserver.tamu.edu/ansc/faculty/ing.htm>.

University of Iowa College of Medicine. Two positions. (1) Focus on structure/function relationships of LH and FSH receptors. Ongoing projects include role of chaperone proteins, comparison of activation mechanisms of LH and FSH receptor by mutations versus hormone binding, characterization of G protein activation by receptors in reconstituted lipid vesicles and identification/characterization of naturally occurring activating and inactivating mutations of receptor. (2) Focus on transcriptional regulation of LH receptor gene in the ovary, specifically the FSH/cAMP-regulated expression of LH receptor gene in differentiating rat granulosa cells, identifying cis elements conferring cAMP inducibility and transcription factors involved in this process. Contact: Deborah L. Segaloff, Ph.D., Dept of Physiology and Biophysics, The University of Iowa College of Medicine, Iowa City, IA 52242; Tel: 319-335-7850; Fax: 319-335-7330; Email: deborah-segaloff@uiowa.edu; Internet: www.uiowa.edu, and www.physlog.uiowa.edu.

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