



# Texas A&M University Faculty of Toxicology News & Reviews

Volume 9, Number 2

May 1998

## Announcements

### Meeting Attendance

The 37th annual meeting of the Society of Toxicology was held in Seattle, WA from March 1-5, 1998. Fifty-six graduate students, faculty and staff from the TAMU Faculty of Toxicology attended the meeting. The fifty-one abstracts presented (see p. 4) represent the largest number of contributions from our program since its inception. **Kavita Ramamoorthy** (Safe) won the Hoffman-LaRoche, Inc. SOT Graduate Student Fellowship. In the Mechanisms Specialty Section, **Kevin Kerzee** (Ramos) placed first and **Renqin Duan** (Safe) received honorable mention. **Dr. Rick Finnell** presented "Screening for Alterations in Developmental Gene Expression" in the continuing education course "Current Developmental Biology: Relevance and Application for Developmental Toxicology." **Dr. Steve Safe** presented "Dietary Estrogens: An Overview" as part of the symposium "Role of Diet and Obesity in Endocrine Disruption."

Many students received travel awards to attend the meeting. SOT awards: **Renqin Duan**, **Richard**

**Hutchinson** (Burghardt) and **Kavita Ramamoorthy**. Women's Faculty Network award: **Shawna Lemke** (Phillips). CVM Graduate Student Association awards: **Hanna Craig** from Dr. Finnell's lab, **Henry Huebner**, **Shawna Lemke**, and **Sean Ottinger** from Dr. Phillips' lab; **Napoleon Alejandro**, **Yun-Houng Chen**, **Kevin Kerzee**, **Kim Poe Lu** and **Kim Miller** from Dr. Ramos' lab; and **Emely Castro-Rivera**, **I-Chen Chen**, **Andrew McDougal**, **Chunhua Qin**, **Matt Stoner**, **Gulan Sun**, **Mark Wormke** and **Wen Xie** from Dr. Safe's lab.

**Francis Lau** (Abbott) and **Dr. Jane van Waes** (Finnell) traveled to New Orleans, LA, Oct. 24-30, 1997 for the Society of Neuroscience annual meeting. **Francis** presented "Expression of the xia voltage-sensitive calcium channel subunit in leaner mouse." **Janee** presented "Transgenic mice for folate binding proteins: Potential role in neural tube closure."

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**Johanna Craig** (Finnell) attended the American Society of Human Genetics annual meeting in Baltimore, MD, Oct. 28-Nov. 2, 1997. Her poster was entitled "Differential screening for regulatory genes involved in murine neural tube closure."

**Shannon Garcia** (Donnelly) attended the Pollution Prevention - Green Chemistry Symposium at Rice University in Houston on October 29, 1997. She presented "Destruction of PCBs in soil by Fenton's reagent."

**Kavita Ramamoorthy** (Safe) attended Dioxin '97 in Indianapolis, IN and presented "The antiestrogenic activity of 3,3',4,4'-tetrachlorobiphenyl in the immature mouse uterus." Seven additional abstracts from Dr. Safe's lab were presented as well.

**Dr. Janee van Waes** (Finnell) attended the American Epilepsy Society meeting in Boston, MA, Dec. 5-10, 1997 and presented "Molecular mechanisms of pheytoin teratogenicity in a murine model system."

**Thu Nguyen** (Safe) attended the Keystone Symposia "Breast and Prostate Cancer Conference" at Copper Mountain, CO, Feb. 21-26,

1998. She received travel awards from both the CVM Graduate Student Association and NIH Keystone to attend the meeting. She presented "Functional and physical interactions of steroid hormone/nuclear coactivators and the aryl hydrocarbon receptor complex."

**Napoleon Alejandro** (Ramos) attended the Experimental Biology meeting in San Francisco, CA, April 18-22, 1998 and presented "WT1, Pax-2 and E-cadherin expression profiles during epithelialization of glomerular mesangial cells by Benzo[a]pyrene."

### **Honors & Awards**

At the College of Veterinary Medicine Honors Convocation in April, **Mark Wormke** (Safe) received the George T. Edds Award for outstanding toxicology student. **Johanna Craig** (Finnell) received the Texas A&M Veterinary Faculty Auxiliary Graduate Award. Two Toxicology faculty also received awards: **Dr. Timothy Phillips** received the Pfizer Award for Research Excellence and **Dr. John Reagor** received the Texas Veterinary Medical Association Research Award.

**Kim Poe Lu** (Ramos) was named an All-American Collegiate Scholar by the United States Achievement Academy.

### **New Students**

**Hadi Falahatpisheh** works in Dr. Ken Ramos' laboratory. He has a DVM from Shiraz University in Iran.

**Anca Petrescu** worked for Dr. Fred Schroeder for a number of years prior to entering graduate school. She is currently a part-time student and hopes to become full-time in the fall. She has a BS from the University of Bucharest, Romania.

### **Former Student E-mail List**

The Toxicology Office would like to assemble a Former Student e-mail list. It will not be accessible by the public, but will be for the purpose of information distribution.

Please send your address to  
"tox@cvm.tamu.edu".

## Superfund News

The NIEHS/EPA Superfund Basic Research Program (SBRP) sponsored a conference in Cambridge, MA that was hosted by four of the regional SBRPs from MIT, Dartmouth College, Boston University and Harvard University. The conference theme was "Superfund Communities: Who's Exposed and Who's at Risk?" The major aims of the conference were (1) to review the history of changes in environmental conditions and disease rates in the United States and (2) to bring researchers up to date on the technology for measuring human exposures and for accessing and using public health records to form testable hypotheses. **Steve Safe** was invited to present a plenary lecture entitled "Mechanistic Paradigms - Breast Cancer and Exposure to Environmental Estrogens." **K.C. Donnelly** attended the conference and presented a

research poster entitled "Genotoxic Interactions of Complex PAH Mixtures," (coauthored by S. Safe, K. Randerath, T. Phillips, K. Donnelly, W. Reeves and K. Brown). He also presented a poster on the Texas A&M SBRP entitled "Outreach and the Development of Procedures to Assess the Hazard of a Superfund Site" (coauthored by K. Donnelly, S. Safe, K. Randerath, T. Phillips and K. Brown). K.C. also attended a workshop entitled "A Hitch-Hikers Guide to Outreach: Preparing for the 1999 Superfund Basic Research Program RFA." This one-day workshop focused on developing tools useful in establishing, enhancing and implementing successful outreach projects.

In April, **K.C. Donnelly** and graduate students **Shannon Garcia**, **Sean Ottinger** and **Carol Swartz** traveled to Dallas for the quarterly US EPA Region 6 Toxicology Group meeting for Superfund outreach.

### **Student Progress**

Completed Preliminary Exams:

<u>Student</u>	<u>Advisor</u>
<b>I-Chen Chen</b>	Steve Safe
<b>Andrew McDougal</b>	Steve Safe
<b>Kavita Ramamoorthy</b>	Steve Safe
<b>Erika Straka</b>	Murl Bailey

Five students have recently completed Doctor of Philosophy Degrees:

#### December 1997

**Shanna Collie** from Dr. K.C. Donnelly's lab is now residing in Katy, TX and working in Risk Assessment for ERM Southwest, Inc.

**Scott McKenzie** from Dr. Tim Phillips'

lab is a Research Scientist at Lynntech, Inc. in College Station.

**Cody Wilson** who worked in Dr. Steve Safe's lab is now a Lieutenant in the US Navy and works as a postdoctoral fellow in toxicology research at Wright-Patterson AFB, Ohio.

#### May 1998

**Patrick Grant** worked in Dr. Tim Phillips' lab and is now a postdoctoral fellow working in mass spectrometry at the Lawrence Livermore National Laboratory in the San Francisco area.

**James Howell** worked in Dr. Donnelly's lab and is now a consultant in Lake Jackson, TX.

# Society of Toxicology Abstracts

BENZO[A]PYRENE-INDUCED TRANSITION OF RENAL GLOMERULAR MESANGIAL CELLS FROM MESENCHYMAL TO EPITHELIAL PHENOTYPES INVOLVES ALTERATIONS IN Pax-2 and WT1 REGULATION. NFAlejandro and KSRamos.

TODD ALTERS CALCIUM OSCILLATIONS IN RATASTROCYTES. RBarhoumi, ETiffany-Castiglioni, YMouneimne, SHSafe and RC Burghardt.

FOLATE, VITAMIN B12, INOSITOL, OR PANTOTHENIC ACIDS SUPPLEMENTATION EXACERBATES THE FREQUENCY OF VALPROIC ACID INDUCED NEURAL TUBE DEFECTS. GDBennett, LRidge, and RH Finnell.

COMPARATIVE ESTROGEN ACTIVITY OF ORGANOCHLORINE PESTICIDE RESIDUES IN FOOD AND WINE EXTRACTS. B Blankvoort, KGaido, LLeonard, FWang, IChen, KRamamoorthy and S Safe.

INDUCTION OF BENZO(a)PYRENE METABOLISM IN CELLS OF THE ATLANTIC BOTTLENOSE DOLPHIN. DLBusbee, SD Miller, MPCarvan and E Ott-Reeves.

ESTROGEN- AND ANTIESTROGEN-RESPONSIVENESS OF HEC1A ENDOMETRIAL ADENOCARCINOMA CELLS IN CULTURE. ECastro-Rivera and S Safe.

ANTIESTROGENIC AND ANTI-TUMORIGENIC ACTIVITY OF DIINDOLYL METHANE IS MEDIATED THROUGH THE Ah RECEPTOR. IChen, A McDougland and S Safe.

FUNCTIONAL INTERACTIONS BETWEEN THE ELECTROPHILE AND ARYL HYDRO-CARBON RESPONSIVE ELEMENTS WITHIN THE GST- $\gamma$ a PROMOTER IN VASCULAR SMOOTH MUSCLE CELLS. YHChen and KSRamos.

DIFFERENTIAL SCREENING FOR REGULATORY GENES INVOLVED IN MURINE NEURAL TUBE CLOSURE. JC Craig, GDBennett and RH Finnell.

THE USE OF COMPLIMENTARY *IN VITRO* AND *IN VIVO* TECHNIQUES TO ASSESS THE ACTIONS AND INTERACTIONS OF IGF-1 AND ETHANOL ON THE ONSET OF FEMALE PUBERTY. LDees, JHiney and V Sivastava.

CHARACTERIZATION OF CIS GENOMIC ELEMENTS IN THE BCL-2 GENE PROMOTER ASSOCIATED WITH ESTROGEN AND ARYL HYDRO-CARBON-RESPONSIVENESS. LDong and S Safe.

ESTROGEN INDUCED *c-fos* PROTO-ONCOGENE EXPRESSION IN MCF-7 HUMAN BREAST CANCER CELLS ROLE OF ESTROGEN RECEPTOR  $\text{Sp1}$  COMPLEX FORMATION. R Duan, W Porter and S Safe.

ORGANOCHLORINE RESIDUES IN HEALTHY ATLANTIC BOTTLENOSE DOLPHINS: CORRELATION BETWEEN LEVELS IN BLUBBER AND BLOOD. M Reddy, BFinklea, DBusbee and SRidgway.

EFFECT OF BIOREMEDIATION ON THE GENOTOXICITY OF WOOD PRESERVING WASTE CONTAMINATED SOIL. SSGarcia, HJ Huebner, TM McDonald and KC Donnelly.

THE EFFECT OF FOLIC ACID ON THE INCIDENCE OF NEURAL TUBE DEFECTS IN THE MURINE MUTANT SPLOCH. LA Gefrides, GDBennett and RH Finnell.

PHENYTON INDUCED TERATOGENESIS: ALTERED PATTERNS OF GENE EXPRESSION IN A MURINE MODEL. JGelineau-van Waes, GDBennett and RH Finnell.

INDUCTION OF MURINE CYP1A2 GENE

EXPRESSION BY ACENAPHTHYLENE AND OTHER DRUG METABOLIZING ENZYME INDUCERS. M Gupta, J Miggins, J Womack and S Safe.

INHIBITION OF DNA REPAIR IN CHEMICAL ATHEROGENESIS. LM Hallberg, JATomlinson and KSRamos.

REDOX REGULATION OF *c-Ha-RAS* BY BENZO[A]PYRENE AND RELATED OXIDANTS IS MEDIATED THROUGH AN ELECTROPHILE RESPONSIVE ELEMENT. V Hastings, CMBral and KSRamos.

QUANTIFICATION OF THE ANTIBACTERIAL PROPERTIES OF MONITORILLON TEE EXCHANGED WITH CATIONIC SURFACTANTS. PHerrera, PG Grant, KSSpringman, RC Burghardt and TD Phillips.

ERAP140 ENHANCES Ah RECEPTOR-MEDIATED TRANSACTIVATION IN BREAST CANCER CELLS. DJHoivik, TANGuyen and S Safe.

ORGANOPHOSPHATE-INDUCED NEUROTOXICITY IN DIFFERENTIATED SH-SY5Y HUMAN NEUROBLASTOMA CELLS. MHong, SHong, RBarhoumi, RC Burghardt, KC Donnelly, JR Wild and E Tiffany-Castiglioni.

EQUILIBRIUM ADSORPTION OF ERGOTAMINE BY VARIOUS PHYLLO-SILICATE CLAYS. HHuebner, S Lemke, S Ottinger, P Grant and TD Phillips.

MECHANISTIC ANALYSIS OF ATTENUATION OF GOSSYPOL CYTOTOXICITY BY CYCLIC AMP. RW Hutchinson, R Barhoumi, N Ing, JM Miles and RC Burghardt.

DE-REGULATION OF *c-Ha-ras* EXPRESSION IN VASCULAR SMOOTH MUSCLE CELLS BY BENZO(A)PYRENE

- AND RELATED OXIDANTS. JK Kerzee and KS Ramos.
- FUMONISIN B, ADSORPTION ONTO ORGANO-SUBSTITUTED CLAYS. SL Lemke, KS McKenzie, PG Grant and TD Phillips.
- ASTROGLIAL CULTURES FROM LEAD-TREATED RAT PUPS: GLUTATHIONE LEVELS AND GLUTATHIONE-S-TRANSFERASE ACTIVITY. LS Lindhal, R Barhoumi, GR Bratton, RC Burghardt and E Tiffany-Castiglioni.
- GENETIC BASIS OF BENZO[*a*]PYRENE-INDUCED ATEROGENESIS. KPLu, Y Zhang and KS Ramos.
- PESTICIDES, MAMMARY CARCINOGENS AND ANTIESTROGENS INCREASE AND DECREASE 16 $\alpha$ ,2-HYDROXYESTRONE METABOLITE RATIOS IN MCF-7 CELLS. A McDougal and S Safe.
- ACTIVATION OF E<sub>p</sub> REBINDING PROTEIN BY BENZO[*a*]PYRENE-3,6-QUINONE AND HYDROGEN PEROXIDE IN VASCULAR SMOOTH MUSCLE CELLS. KPMiller and KS Ramos.
- ALTERATION OF CALCIUM OSCILLATIONS BY ELF ELECTRIC FIELDS IN CLONE 9 CELLS. Y Mounieime, R Barhoumi, TD Phillips and RC Burghardt.
- FUNCTIONAL AND PHYSICAL INTERACTIONS OF STEROID HORMONE NUCLEAR COACTIVATORS AND THE ARYL HYDROCARBON RECEPTOR COMPLEX. TA Nguyen, DJ Hovik and S Safe.
- USING GENETIC EXPRESSION PROFILING TO DETERMINE POTENTIAL REPRODUCTIVE TOXICITY AND CARCINOGENICITY. RSNop, GDBennett, PE Chang, DE Mitchell, JC Craig and RH Finell.
- DEGRADATION OF BENZO[*a*]PYRENE VIA ELECTROCHEMICALLY GENERATED OZONE AND OZONE/UV LIGHT. SE Ottinger, K Mayura, KS McKenzie, LF Kubena and TD Phillips.
- PRECISION-CUT LIVER SLICES: INVESTIGATION OF THE MOLECULAR RESPONSE TO TOXICANTS. AR Parish, KS Ramos, K Brendel and AJ Gandolfi.
- CELL-SPECIFIC INDUCTION OF SOMATOSTATIN RECEPTOR SUBTYPE 2 GENE EXPRESSION BY ESTRADIOL AND INHIBITION BY 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN. C Qin and S Safe.
- THE ANTIESTROGENIC ACTIVITY OF 3,3',4,4'-TETRACHLOROBIPHENYL IN THE IMMATURE MOUSE UTERUS. K Ramamoorthy, A McDougal and S Safe.
- THE INDUCTION OF ATHEROSCLEROTIC VASCULAR LESIONS BY BENZO[*a*]PYRENE, A TOBACCO SMOKE CONSTITUENT, CORRELATES WITH ENHANCED *c-HA-RAS* p21 EXPRESSION *IN VIVO*. KS Ramos, AR Parish, Y Zhang, JK Kerzee and NF Alejandro.
- MUTAGENIC INTERACTIONS OF A POLYCYCLIC AROMATIC HYDROCARBON FRACTION OF COAL TAR WITH 2-NITROFLUORENE. WR Reeves, TJ McDonald and KC Donnelly.
- DIETARY ESTROGENS: AN OVERVIEW. S Safe.
- LIGAND-DEPENDENT ACTIVATION OF ESTROGEN RECEPTOR  $\beta$ -Sp1 COMPLEXES. B Saville, G Kuiper, J-A Gustafsson and S Safe.
- ORGANO-CLAY ADSORPTION OF COMPONENTS OF A COMPLEX MIXTURE FROM GROUNDWATER. KR Springman, TJ McDonald, K Mayura, KC Donnelly and TD Phillips.
- ESTROGEN RECEPTOR/SP1 COMPLEXES ARE INVOLVED IN REGULATION OF MUC1 GENE EXPRESSION BY ESTROGEN IN BREAST CANCER CELL LINES. MA Stoner and S Safe.
- IDENTIFICATION OF AGC-RICH SITE IN THE RETINOIC ACID RECEPTOR  $\alpha$ 1 GENE PROMOTER REQUIRED FOR ESTROGEN-RESPONSIVENESS. GSun and S Safe.
- COMPARISON OF LOW-LEVEL LEAD EFFECTS ON ASTROGLIA EXPOSED *IN VIVO* OR *IN VITRO*. E Tiffany-Castiglioni, ME Legare, R Barhoumi, RC Burghardt, and L Schneider.
- ESTROGEN-INDUCIBILITY OF TRANSFORMING GROWTH FACTOR  $\alpha$  GENE EXPRESSION. CVitchal and S Safe.
- FUNCTIONAL AND PHYSICAL INTERACTIONS BETWEEN THE ESTROGEN RECEPTOR-Sp1 AND NUCLEAR ARYL HYDROCARBON RECEPTOR COMPLEXES. FWang, DJ Hovik and S Safe.
- INHIBITION OF ESTROGEN-INDUCED CELL CYCLE ENZYMES IN MCF-7 CELLS BY 2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN. WWang and S Safe.
- HYPOXIA-INDUCIBLE VEGF GENE EXPRESSION IN MDA-MB-231 HUMAN BREAST CANCER CELLS WHICH EXPRESS A VARIANT FORM OF HIF-1 $\beta$  (ARNT). C Wilson, MWormke, E Castro-Rivera, DJ Hovik and S Safe.
- INHIBITION OF ESTROGEN-INDUCED PROGESTERONE RECEPTOR GENE EXPRESSION BY 2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN: MECHANISTIC STUDIES. MWormke and S Safe.
- IDENTIFICATION OF AGC-RICH SITE IN THE ADENOSINE DEAMINASE GENE PROMOTER WHICH IS REQUIRED FOR ESTROGEN-RESPONSIVENESS. WXe, R Duan and S Safe.

# Conferences

## June 1998

June 3-5

Comparative Risk in Food Safety: Future Direction for Risk Analysis

East Lansing, MI

Contact: The Kellogg Center, Michigan State University, East Lansing, MI 48824; Internet: <http://foodsafety.msu.edu>

June 13-18

Retinoids

Snowmass Village, CO

Contact: (301) 530-7095; E-mail: [kvienot@faseb.org](mailto:kvienot@faseb.org)

June 21-26

Neurobiology of Central Nervous System Injury

Namaste Retreat Center, OR

Tel: (301) 530-7093; E-Mail: [jlafrankie@faseb.org](mailto:jlafrankie@faseb.org)

June 25-27

Site Characterization Including Feasibility Studies

June 26-27

Water Quality Engineering & Wastewater Mgmt

June 28-29

Groundwater & Soil Remediation

Portland, OR

Contact: Address: AIChE, PO Box 29496, GPO, New York, NY 10087-9496; Tel: 800-242-4363 or (212) 705-8100; Fax: (212) 705-8400

\*Early registration if by May 22

June 29- July 1

Complete Your Winning Hand at the Hazardous Materials & Waste Workshop

Las Vegas, Nevada

Contact: NEHA, 720 S. Colorado Blvd., Ste. 970, S. Tower, Denver, CO 80246-1925; Tel: (303) 756-9090; Fax: (303) 691-9490

## July 1998

July 3-4

Satellite Meeting of the International Congress of Toxicology VIII (IUTOX): Agrochemicals and animal poisoning towards toxicovigilance?

Lyon, France

Contact: Dr. P.J. Berny: Address: CNITV c/o Dr. P.J. Berny, ENVL-BP 83, F-69280 MARCY L'ETOILE, FRANCE; Tel: (0)4-78-87-10-40; Fax: (0)4-78-87-80-12; E-mail: [berny@clermont.inra.fr](mailto:berny@clermont.inra.fr)

July 19-24

Receptors & Signal Transduction

Copper Mountain, CO

Tel: (301) 530-7093; E-Mail: [jlafrankie@faseb.org](mailto:jlafrankie@faseb.org)

July 25-30

Transcriptional Regulation during Cell Growth, Differentiation & Development

Snowmass Village, CO

Contact: (301) 530-7095; E-mail: [kvienot@faseb.org](mailto:kvienot@faseb.org)

July 26-31

Gordon Conference: Mechanisms of Toxicity

Henniker, New Hampshire

Contact: The Gordon Research Conferences, Univ of Rhode Island, PO Box 984, West Kingston, RI 02892-0984. Tel: 401-783-4011; Fax: 401-783-7644. Email: [app@grcmail.uri.edu](mailto:app@grcmail.uri.edu). Website: <http://www.grc.uri.edu>

## August 1998

August 2-7

Molecular & Biological Mchms of Antioxidant Action

Copper Mountain, CO

Tel: (301) 530-7093; E-Mail: [jlafrankie@faseb.org](mailto:jlafrankie@faseb.org)

August 5-7

XIIth Ovarian Workshop: Molecular and Genetic Approaches to Study Ovarian Function

Houston, TX

Contact: David A. Pherson, Ph.D., XIIth Ovarian Workshop, Serono Symposia USA, Inc., 100 Longwater Circle, Norwell, MA 02061; Fax: (718) 982-9481

August 9-12

4th Intl Symposium on Environmental Geotechnology & Global Sustainable Development

TOXLIST@esc\_server.syrres.com-Boston, MA

Contact: Dr. Vincent O. Ogunro, (4th Int. Environmental Geotechnology Symposium), Center for Environ. Eng. Sci. & Tech, (CEEST), University of Massachusetts, (North Campus, Rm E-114), One University Avenue, Lowell, MA 01854, USA; Tel: (978)934-3185; Fax: (978)934-4014; E-mail: [Vincent\\_Ogunro@uml.edu](mailto:Vincent_Ogunro@uml.edu)

August 15-19

Connecting with the Community in Environmental Health Studies

Boston, MA

Contact: Carol Rougvie, JSI Research and Training Institute, 44 Farnsworth Street, Boston, Massachusetts, 02210-1211 USA; Tel: (617) 482-9485; Fax: (617) 482-0617; E-mail: [isee&isea98@jsi.com](mailto:isee&isea98@jsi.com); Internet: [www.med.ualberta.ca/PHS/ISEE](http://www.med.ualberta.ca/PHS/ISEE)

August 16-18

Probability-based Distributional Risk Assessment: How to Use the New Risk Assessment Tools

Washington, DC

Contact: Sallie Carr, ISRTP, 6546 Belleview Drive, Columbia, MD 21046; Tel: (410) 992-9083; Fax: (410) 740-9181 OR E. DeGraff, TAS-ENVIRON, 4350 N. Fairfax Drive, Arlington, VA 22203; Tel: (703)516-2381;

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Fax: (703) 516-2390

August 17-20

SETAC Modeling and Measuring the Vulnerability of Ecosystems at Regional Scales for Use in Ecological Risk Assessment and Risk Management  
Seattle, WA

Contact: Llewellyn R. Williams, Chair, Organizing Committee, US EPA, Ntl Exposure Research Lab, POBox 93478, Las Vegas, NV 89193-3478; Tel: (702)798-2138; Fax: (702)798-2233; E-mail: williams.llewlyn@epamail.epa.gov

August 23-26

Issues in Environmental Pollution  
Denver, CO

Contact: Don Smith, IEP'98 US Secretariat, Elsevier Science Inc., 8773 South Ridgeline Boulevard, Highlands Ranch, CO 80126-2329; Tel: (303)470-1900; Fax: (303)470-5119; E-mail: dcsmith@elsevier-hr.com; Internet: [www.elsevier.nl/locat.iep98](http://www.elsevier.nl/locat.iep98)

### September 1998

September 6-12

Third Intl Symposium on Hormonal Carcinogenesis  
Seattle, Washington

Contact: Dr. Jonathan J. Li, Division of Etiology and Prevention of Hormonal Cancers, Kansas Cancer Institute, University of Kansas Medical Center, Suite 5008 Robinson, 3901 Rainbow Boulevard, Kansas City, KS 66160-7312; Fax: 913-588-4740; E-mail: [dephc@kumc.edu](mailto:dephc@kumc.edu)

September 21-26

First Asian SECOTOX Conference on Ecotoxicology and Environmental Safety  
Wuhan, China

Contact: Shaowu Shu, Institute of Hydrobiology, The Chinese Academy of Sciences, Wuhan 430072, P.R. China; Tel: +(86 27) 7870739; Fax: +(86 27) 7875132; E-mail: [plan@lily.whihb.ac.cn](mailto:plan@lily.whihb.ac.cn) OR Wenzhong Wu, GSF-National Research Center for Environment and Health, Institute of Ecological Chemistry, P.O. Box 1129, D-85758, Oberschleissheim, Germany; Fax: +(49 89) 3187 3371; E-mail: [wenzhong@gsf.de](mailto:wenzhong@gsf.de)

September 24-28

22nd Breast Cancer Research Congress of the IABCR  
Athens, Greece

Contact: International Congress Organizers, 227, Kifissais Ave., Kifissia 145 61, Athens, Greece; Tel: 00301-6125022/3; Fax: 00301-6125021

### October 1998

October 24-27

Impact of Biotechnology on Cancer: Diagnostic and Prognostic Indicators  
Nice, France

Call For Abstracts: July 10

Contact: HE Nieburgs MD; Address: Box 20, University of Massachusetts Medical Center, 55 Lake Ave N. Worcester, MA 01655 USA; Tel:(212) 534-7491; Fax: (508) 856-1567; E-mail: [canprev@cancerprev.org](mailto:canprev@cancerprev.org); Internet: [www.cancerprev.org](http://www.cancerprev.org)

October 25-29

Intl. Society for the Study of Xenobiotics  
Cairns, Australia

Contact: Conference Secretariat, PO Box 153, Nairne, South Australia 5252; Fax: 61-8-8388-6164; Internet: <http://www.health.adelaide.edu.au/Pharm/ISSX1998.htm>

November 1998

November 8-11

American College of Toxicology 19th Annual Meeting  
Orlando, FL

Contact: American College of Toxicology, 9650 Rockville Pike, Bethesda, MD 20814; Tel: 301-571-1840; Fax: 301-571-1852; Email: [ekagan@act.faseb.org](mailto:ekagan@act.faseb.org)

### December 1998

December 12-16

The American Society for Cell Biology 38th Annual Mtg  
San Francisco, California

Call for Abstracts: August 3

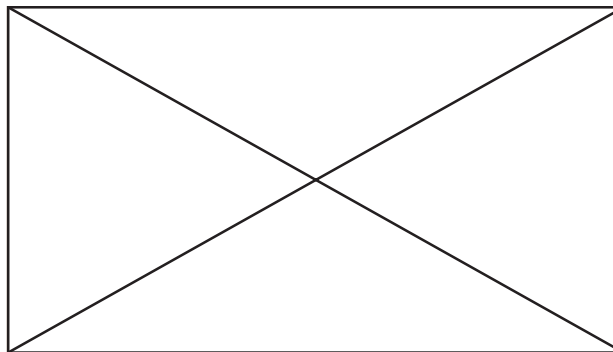
Contact: The American Society for Cell Biology, 9650 Rockville Pike, Bethesda, MD 20814-3992; Tel: (301) 530-7153; Fax: (301) 530-7139; E-mail: [ascbinfo@ascb.org](mailto:ascbinfo@ascb.org); Internet: [www.ascb.org/ascb](http://www.ascb.org/ascb)

### April 1999

April 19-22

In Situ and On-Site Bioremediation  
San Diego, CA

Call for Abstracts: August 31. For questions about the scope of the technical program: Symposium Chairs, Dr. Andrea Leeson ([leeson@battelle.org](mailto:leeson@battelle.org)) or Dr. Bruce Alleman ([alleman@battelle.org](mailto:alleman@battelle.org)); For questions about abstract admission and review: Carol Young; Tel: (614) 424-7064; Fax: (614) 424-3667; E-mail: [biosym@battelle.org](mailto:biosym@battelle.org)



# Employment Opportunities

*Professor of Epidemiology*  
**Harvard School of Public Health, Dept. of Epidemiology**

Seeking person with expertise in the application of biomarkers to the study of chronic disease epidemiology. Candidate will be expected to bring new expertise to one or more of the current programs of the department, and to develop new areas of research. Please contact Ms. Susan Foster, Dept of Epidemiology, Harvard School of Public Health, 677 Huntington Avenue, Boston, MA 02115.

*Two Postdoctoral Positions*  
**Jake Gittlen Cancer Research Institute, Penn State College of Medicine**

One fellow experienced in molecular, cellular, or cancer biology and/or histopathology and interest in cancer genetics needed no later than June 1 to study zebrafish cellular differentiation mutants and to determine their potential role as tumor suppressor genes. A second fellow experienced in genetics, molecular biology, and/or DNA repair needed after July 1 to develop novel molecular genetic techniques for genetic mapping, mutation detection, and gene expression in zebrafish, especially as applied to genomic instability mutants. Candidates must be highly-motivated team players with excellent thinking and communication skills. Interested candidates should send CV, statement of short and long-term career goals, and references to: Keith C. Cheng, MD, Ph D, The Jake Gittlen Cancer Research

Institutes H059, Penn State Univ. College of Medicine, PO Box 850, Hershey, PA 17033.

*Postdoctoral Position*  
**University at Albany, State University of New York, School of Public Health**

Available immediately to study neurochemical consequences of developmental exposure to environmental neurotoxicants using both *in-vivo* microdialysis and tissue culture procedures. Knowledge of HPLC analysis of biogenic amine and amino acid neurotransmitters preferred. Send CV and names of three references to: Dr. Richard R. Seegal, Wadsworth Center, New York State Dept. of Health, and Dept. of Environmental Health and Toxicology, Univ. at Albany, Albany, NY 12201-0509.

*Postdoctoral Position*  
**Wayne State Univ., Dept. of Chemistry**

NIH-funded position available for four years to study the relationship between transcription and mutagenesis. Will explore the molecular mechanism underlying how transcription in *E. coli* promotes spontaneous mutations in a strand specific manner and extend it to other systems and chemical mutagenesis. Background in protein biochemistry or molecular biology desired. Fax and mail CV and three letters of recommendation to Dr. Ashok S. Bhagwat, 463 Chemistry Bldg., Dept. of Chemistry, Wayne State Univ, Detroit, MI 48202-3489; Fax (313)577-8822.

*Toxicologist or Analytical Chemist*

Mid-sized pharmaceutical company in Long Island, NY seeking person with approx two years experience. Will report directly to Associate Director of the company. Position entails directing and running metabolite studies on products and analytical kinetics on biological samples (serum, urine and tissues). Studies dependent on radiolabeled drug and radioactive detection systems as well as NMR and MS techniques. All analyses are run under Good Laboratory Practice standards. Contact Mr. Jerry Brown at <TMA@staffing.net>. *Mr. Brown also recruits new graduates (PhD level) and is a potential source of information for additional pharmaceutical positions.*

**Hewlett-Packard, Inc.**

Corvallis, OR facility seeking MS or PhD level candidate to study the toxicity of inks related to inkjet cartridges on an international basis. Involves recordkeeping, knowledge of international regulations and preparation of MSDS. Will involve international travel. Find more information on their website: <http://www.hp.com>.

**Industrial In Vitro Toxicology Group**

posts positions available in companies and academic institutions related to experimental cellular and molecular toxicology. The service is free. Visit <http://www.invitro.org> or contact [invitro@invitro.org](mailto:invitro@invitro.org)

## Transition to Independent Positions (TIP)

### NIEHS K22 Scholar Development Award

Letter of Intent Receipt Date: June 15, 1998

Application Receipt Date: July 21, 1998

*"The NIEHS must attract the most talented young scientists to address the important environmental health issues facing us in the 21st century. The TIP award provides NIEHS a mechanism for meeting this challenge."* Ken Olden, Ph.D.

**Purpose:** The NIEHS mission is to reduce the burden of human illness and dysfunction from environmental exposures by understanding the exposures, individual susceptibility and time and how these elements interrelate. The NIEHS achieves its mission through multi-disciplinary biomedical research programs, prevention and intervention efforts and communication strategies that encompass training, education, technology transfer and community outreach. Developing the next generation of exceptionally talented young scientists committed to understanding the impact of environmental exposures on human health is an important element of the mission. The TIP program provides a mechanism for attracting and supporting exceptionally talented new investigators who can impact our understanding of the problems and mechanisms associated with exposure to environmental agents in order to better protect the public health.

#### **Eligibility:**

- Research or health professional doctoral level degree or equivalent
- No more than five years of postdoctoral research training
- Demonstrated outstanding abilities in basic, clinical or population-based research
- US citizen or non-citizen national or lawful permanent resident with an Alien Registration Card (Individuals on temporary or student visas are NOT eligible).
- Current or former NIEHS Individual National Research Service Fellow or current NIEHS Intramural Research Training Awardee, staff or clinical fellow or current NIH Individual NRSA fellow training in an area specific to the mission of the NIEHS but under support of another division of the NIH
- At least 18 months of postdoctoral training at the time of application submission

Submit an application on a PHS Research Grant Application form accompanied by two letters of recommendation addressing the applicant's potential to become an important contributor to science relevant to the NIEHS mission.

The total estimated funds available for this announcement are \$500,000 which will support 4 to 5 awards. This level of support is dependent on the receipt of a sufficient number of applications of high scientific merit. The earliest start date will be June 1, 1999.

*To request a copy of the entire announcement, please contact the TAMU Toxicology Office at (409) 845-5529 or "tox@cvm.tamu.edu".*

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Texas A&M University has a strong institutional commitment to the principle of diversity in all areas. In that spirit, admission to Texas A&M University and its sponsored programs is open to all qualified individuals.

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