



Texas A&M University Faculty of Toxicology News & Reviews

Volume 8, Number 2

June 1997

Announcements

Meeting Attendance

Thirty-seven toxicology graduate students, 4 postdoctoral fellows and 6 faculty from Texas A&M University attended the Society of Toxicology meeting in Cincinnati, Ohio from March 9-13. **Alan Parrish**, a doctoral student in Ken Ramos' laboratory, received the Colgate-Palmolive Postdoctoral Award which he will be using to support his research activities at the University of Arizona. **Cody Wilson** and **Kristie Willett**, both doctoral students in Steve Safe's laboratory, received First Place and Third Place respectively in the Molecular Biology Specialty Section. These awards were based on full-length manuscripts of the research outlined in the students' abstracts and included a cash award and plaque. **Dr. Ken Ramos** was elected Vice President of the Molecular Biology Specialty Section and **Dr. Steve Safe** was elected as a councilor of the Society. **Emely Castro-Rivera**, **Renquin Duan** and **Fan Wang** each received CVM Graduate Student Association travel awards to attend the meeting. Please see pages 4 and 5 for a complete list of presentations.

Cody Wilson and **Dr. Debie Hoivik**, both from Steve Safe's lab attended the American Association for Cancer Research meeting in San Diego in April. Cody presented "ER-Negative Human Breast Cancer Cells: Stable Transfection With ER Does Not Alter Drug Resistance" and Debie presented "ERAP 140 Increases TCDD-Mediated Induction of the Ah Receptor."

Hanna Craig from Rick Finnell's lab attended the David Smith workshop in Lake Arrowhead, CA in October 1996 and the American Society of Human Genetics conference in San Francisco

in November 1996. She presented "Developmental Expression of Morphoregulatory Genes in the Mouse Embryo: An Analytical Approach Using a Novel Technology" at both meetings.

Christy Goff and **Dr. Beverly Clement** attended the International Symposium of Poisonous Plants in San Antonio, May 18-24 and presented a paper entitled "Toxic Amines and Alkaloids in Texas Acacias."

Henry Huebner and **Dr. L. He** from K.C. Donnelly's group presented posters at the Western Region Hazardous Substance Research Center meeting in Kansas City.

Scott McKenzie attended the Southern Poultry Science Society meeting in Atlanta in February. He won First Place in the Environment and Health Division with his platform presentation entitled "Aflatoxicosis in Turkey Poult is Prevented by Treatment of Naturally Contaminated Corn with Ozone Generated by Electrolysis."

Honors & Awards

Two doctoral students, **Shanna Collie** and **Patrick Grant** from K.C. Donnelly's and Tim Phillips' labs respectively, were invited to present seminars at UTMB-Galveston in a seminar speaker exchange program between the two Toxicology Programs. Patrick

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presented “Clay-Based Technology for the Prevention of Aflatoxicosis” on May 14, while Shanna’s seminar on June 4 was “Genotoxicity Changes in Superfund Soils: Potential Impact on Risk Assessment.”

At the annual TAMU Graduate Student Council Research Competition, **Nancy Bordelon**, a doctoral student in K.C. Donnelly’s lab won second place for her poster entitled “Reduction of Contaminant Levels in MGP Soil Using Fenton’s Reagent.” Also, **Katie Springman**, a doctoral student in Tim Phillips’ lab won third place for her poster entitled “Adsorption of Pentachlorophenol by Cetyl Pyridinium-Modified Acidic Clay.”

At the 1997 College of Veterinary Medicine Honors Convocation, two of Steve Safe’s students received awards. **I-Chen Chen** won the George T. Edds Award for an outstanding toxicology student and **Cody Wilson** received the doctoral level CVM Outstanding Graduate Student Award.

Weston Porter was awarded the Distinguished Graduate Student Assistant — Research by the Association of Former Students of Texas A&M University.

Shawn Castro who was an undergraduate Summer Intern in Steve Safe’s laboratory last year received high honors from the NIH for her poster entitled “The Effect of Antiestrogens on Heat Shock Protein 27 Gene Expression in MCF-7 Human Breast Cancer Cells.” Her poster was one of the top 16 nationally in Biomedical Research at the Society for the Advancement of Chicanos and Native Americans in Science conference.

Dr. Larry Johnson was recently selected as one of the three 1997-98 University Honors Program Teacher/Scholars in the University. In addition to the award he received a professional development grant.

Nancy Bordelon has a summer internship with the U.S. Environmental Protection Agency in North Carolina and is conducting animal feeding studies with contaminated soil to measure bioavailability.

Shannon Garcia, a doctoral student in K.C. Donnelly’s lab was awarded an assistantship by the Center for Environmental and Rural Health.

Student News

Three students defended this spring and received their PhDs in May:

Maxene Dwyer from Dr. Phillips’ lab is seeking an environmental toxicology or risk assessment position in the Houston area.

Sandra Hong from Dr. Evelyn Tiffany-Castiglioni’s lab now works as a Consulting Toxicologist at Exxon Biomedical Sciences, Inc. in East Millstone, NJ.

Kristie Willett from Dr. Safe’s lab is now a Dreyfus Postdoctoral Fellow in Environmental Chemistry under the direction of Dr. Ron Hites at Indiana University, Bloomington, IN.

These students recently completed **Preliminary Exams:**

<u>Student</u>	<u>Advisor</u>
Fan Wang	Safe
James Howell	Donnelly

Superfund News

Funding of the SBRP is again under attack and many of our Faculty and President Bowen have written our representatives and requested support for this valuable research program. This is one of the few programs that has the support of scientists, grass roots environmental organizations, the Society of Toxicology and many industry representatives!

K.C. Donnelly and his coworkers are interacting with Region 6 EPA colleagues on a regular basis, making them aware of our research activities and developing areas where we can interact with their scientists. On April 3, 1997, he also attended the NIEHS Superfund Outreach Program Quarterly meeting in Dallas. On May 3, 1997, **Steve Safe** presented a seminar entitled "Environment Estrogens and Endocrine Disruptors—Human Health Impacts" to over 70 staff in Dallas.

The NIEHS-SBRP cosponsors numerous conferences and symposia on topical issues related to the multiple themes of this program. On August 11-13, a conference co-hosted by the National Institute of Environmental Health Sciences and Colorado State University will be held in Fort Collins and the focus will be on "Current Issues on Chemical Mixtures." This conference will be an update of scientific advancements made worldwide on an array of issues related to chemical mixtures including health effects, impact and ecological systems, risk assessment, engineering and remediation efforts, and policy and regulatory concerns. Interactions of interest include combinations of chemical-physical and chemical-biological agents as well as conventional chemical mixtures.

Graduate students and postdoctoral fellows are encouraged to submit abstracts for the

Tuesday p.m. poster session. Some fellowships in the form of traveling expenses, room and board, and registration fee will be awarded to graduate students or postdoctoral fellows who present posters which are not only of outstanding quality, but are also of particular relevance to the central theme of this symposium. For more information on submitting abstracts and how to apply for a fellowship, please refer to **Format Guide for Abstracts** or contact:

Amy Coulson
Center for Environmental
Toxicology and Technology
Colorado State University
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E-mail: acoulson@vines.colostate.edu
Voice: (970) 491-8522
FAX: (970) 491-8304

Former Student E-mail List

A few of you have requested e-mail addresses for other former students. If you would like to have your e-mail address added to such a list for distribution, please send your address and request to tox@cvm.tamu.edu.

Society of Toxicology '97 Presentations

CYTOTOXIC RESPONSE PROFILES OF RENAL MESENCHYMAL AND EPITHELIAL CELLS TO SELECTED AROMATIC HYDROCARBONS. N.F. Alejandro, A.R. Parrish, R.C. Bowes and K.S. Ramos.

ALTERATION OF INTRINSIC CALCIUM OSCILLATIONS IN CULTURED RAT ASTROCYTES BY TCDD AND LEAD. R. Barhoumi, E. Tiffany-Castiglioni, S. H. Safe and R.C. Burghardt.

IDENTIFICATION OF NOVEL C/S-ACTING ELEMENTS RESPONSIVE TO BENZO(A)PYRENE WITHIN THE C-HA-RAS PROMOTER. C.M. Bral and K.S. Ramos.

ALTERATIONS IN GROWTH-RELATED GENE EXPRESSION AND SIGNALING IN PRECISION-CUT ADULT RAT LIVER SLICES BY BENZO(a)PYRENE. K. Brendel, A.R. Parrish, R. Fisher, C.M. Bral and K.S. Ramos.

ALTERATION OF OXYTOCIN-INDUCED CALCIUM OSCILLATIONS IN HUMAN MYOMETRIAL CELLS. R.C. Burghardt, R. Barhoumi, J. Andersen and B. Sanborn.

ARYL HYDROCARBON (AH)-RESPONSIVENESS OF HEC1A ENDOMETRIAL CANCER CELLS. E. Castro-Rivera, J. Thomsen and S. Safe.

ANTIESTROGENIC ACTIVITIES OF INDOLE-3-CARBINOL, DIINDOLYLMETHANE AND SUBSTITUTED ANALOGS IN MCF-7 HUMAN BREAST CANCER CELLS. I.-C. Chen and S. Safe.

2,3,7,8-TETRACHLORODIBENZO-*p*-DIOXIN (TCDD) INHIBITS INDUCTION OF *BCL-2* GENE EXPRESSION BY 17 β -ESTRADIOL IN MCF-7 HUMAN BREAST CANCER CELLS. L. Dong and S. Safe.

LOCALIZATION OF ESTROGEN-RESPONSIVE ELEMENT IN THE C-FOS PROTOONCOGENE PROMOTER. R. Duan, W. Porter and S. Safe.

BISPHENOL A INTERACTS WITH THE ESTROGEN RECEPTOR IN A DISTINCT MANNER FROM ESTRADIOL. J. Gould, L. Leonard, D. McDonnell, K. Connor, I. Chen, T. Zacharewshi, S. Safe and K.W. Gaido.

ISOTHERMAL ANALYSIS AND THERMODYNAMIC MEASUREMENT OF AFLATOXIN B₁ BINDING TO PHYLLOSILICATE CLAYS. P.G. Grant and T.D. Phillips.

ADSORPTION OF *SALMONELLA ENTERITIDIS* BY CETYL PYRIDINIUM EXCHANGED PHYLLOSILICATE CLAYS. P. Herrera, K. Springman and T.D. Phillips.

EFFECT OF ESTROGEN RECEPTOR (ER) TRANSFECTION ON GLUTATHIONE-S-TRANSFERASE (GST) EXPRESSION, 2,3,7,8-TETRACHLORO-DIBENZO-*p*-DIOXIN (TCDD) INDUCIBILITY AND DRUG SUSCEPTIBILITY IN HUMAN BREAST CANCER CELLS. D.J. Hoivik, C.L. Wilson, W. Wang and S.H. Safe.

ATTENUATION OF GOSSYPOL CYTOTOXICITY IN RAT LIVER CELLS BY CYCLIC AMP. R. Hutchinson, R. Barhoumi, J. Miles and R.C. Burghardt.

INTERACTIONS BETWEEN GLUTATHIONE, OXIDATIVE STRESS, AND BENZO(a)PYRENE IN THE REGULATION OF C-HA-RAS GENE EXPRESSION. J.K. Kerzee and K.S. Ramos.

RATIONAL ENZYME DESIGN: COMPUTER MODELING AND SITE-DIRECTED MUTAGENESIS AS TOOLS TO IMPROVE CATALYTIC ACTIVITY AND SPECIFICITY OF ORGANOPHOSPHORUS HYDROLASE. B.D. Kuhlmann, L. Scapozza, K. Lai, J. Grimsley and J.R. Wild

EVALUATION OF THE TOXICITY OF POLYCYCLIC AROMATIC HYDROCARBONS FROM COAL TAR UTILIZING THE CHICK EMBRYOTOXICITY SCREENING TEST (CHEST). K. Mayura, F. Zhao, M.R. Dwyer, K.S. McKenzie, K.S. Washburn, R.H. Bailey, K.C. Donnelly, L.F. Kubena and T.D. Phillips.

INDUCTION OF ESTRADIOL 2-HYDROXYLASE ACTIVITY IN MCF-7 HUMAN BREAST CANCER CELLS BY PESTICIDES AND CARCINOGENS. A. McDougal, C. Wilson and S. Safe.

TOXICITY AND DEGRADATION OF AFLATOXIN B₁ IN FIELD-CONTAMINATED CORN TREATED WITH ELECTROLYTICALLY GENERATED OZONE GAS. K.S. McKenzie, A.J. Denvir, T.D. Rogers, L.F. Kubena, K. Mayura,

continued on page 5

M.R. Dwyer and T.D. Phillips.

MOLECULAR BASIS OF PROLIFERATIVE DEREGULATION OF VASCULAR SMOOTH MUSCLE CELLS BY AL-LYLAMINE. A.R. Parrish and K.S. Ramos.

THE EFFECT OF ANTIESTROGENS ON HEAT SHOCK PROTEIN 27 GENE EXPRESSION IN MCF-7 HUMAN BREAST CANCER CELLS. W. Porter, S. Castro and S. Safe.

INCREASING AGE DECREASES SUBCELLULAR LEVELS OF FATTYACID BINDING PROTEINS (FABPS) IN MOUSE BRAIN. L. Pu, U. Igbavboa, W.G. Wood, J.B. Roths, A.B. Kier, F. Spenser and F. Schroeder.

ESTROGENIC ACTIVITIES OF 2',3',4',5'-TETRACHLORO- AND 2',4',6'-TRICHLORO-4-BIPHENYLOL: NO SYNERGISTIC INTERACTIONS. K. Ramamoorthy, F. Wang, I.-C. Chen, S.C. Maness, L. Leonard, K. Gaido and S. Safe.

MESENCHYLMAL-TO-EPITHELIAL TRANSITION IN RENAL GLOMERULAR MESANGIAL CELLS FOLLOWING REPEATED *IN VITRO* CHALLENGE WITH BENZO (a)PYRENE. K.S. Ramos, A.R. Parrish and R.C. Burghardt.

IDENTIFICATION OF RAT LIVER PROTEINS ALKYLATED BY BUTYLATED HYDROXYTOLUENE. M.D. Reed and D.C. Thompson.

ESTROGENIC ACTIVITY OF A DIELDRIN/TOXAPHENE MIXTURE IN THE MOUSE UTERUS, MCF-7 HUMAN BREAST CANCER CELLS AND YEAST-BASED ESTROGEN RECEPTOR ASSAYS: NO APPARENT SYNERGISM. S. Safe, K. Ramamoorthy, F. Wang, I.-C. Chen, J.D. Norris, D.P. McDonnell, K.W. Gaido, W.P. Bocchinfuso and K.S. Korach.

2,3,7,8-TETRACHLORODIBENZO-*p*-DIOXIN (TCDD) MODULATION OF SECRETION AND EXPRESSION OF INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN-4 IN MCF-7 CELLS. K. Schrope, W. Porter, M. Moore and S. Safe.

AH RECEPTOR-INDEPENDENT INDUCTION OF CYP1A2 GENE EXPRESSION IN GENETICALLY-INBRED MICE. M. Sethi-Gupta, A. Parrish, K. Ramos, J. Miggins, S. Safe and J. Womack.

ADSORPTION OF THE PENTACHLOROPHENOL BY CETYL PYRIDINIUM-MODIFIED ACIDIC CLAY. K.R. Springman, P.G. Grant, K.S. Washburn and T.D. Phillips.

INHIBITION OF ESTROGEN-INDUCED RETINOIC ACID RECEPTOR α GENE EXPRESSION BY 2,3,7,8-TETRACHLORODIBENZO-*p*-DIOXIN IN MCF-7 HUMAN BREAST CANCER CELLS. G. Sun, Y.-F. Lu and S. Safe.

COMPARATIVE TOXICITY OF EUGENOL AND ITS QUINONE METHIDE METABOLITE IN CULTURED LIVER CELLS USING KINETIC VITAL FLUORESCENCE BIOASSAYS. D.C. Thompson, R. Barhoumi and R.C. Burghardt.

INHIBITION OF ESTROGEN-INDUCED TGF α GENE EXPRESSION BY TCDD. C. Vyhlidal and S. Safe.

IDENTIFICATION OF A FUNCTIONAL IMPERFECT ESTROGEN-RESPONSIVE ELEMENT IN THE 5' PROMOTER REGION OF THE HUMAN CATHEPSIN D GENE. F. Wang, W. Porter and S. Safe.

GROWTH INHIBITION BY 17 β -ESTRADIOL OF MDA-MB-468 BREAST CANCER CELLS STABLY-TRANSFECTED WITH THE ESTROGEN RECEPTOR-EFFECTS ON CELL CYCLE PARAMETERS. W. Wang, R. Smith and S. Safe.

POLYNUCLEAR AROMATIC BINDING PROTEINS IN MARINE MOLLUSCS. K. Willett, J. Thomsen, C. Wilson, W. Porter and S. Safe.

VARIABLE ARYL HYDROCARBON-RESPONSIVENESS IN MDA-MB-231 HUMAN BREAST CANCER CELLS IS ASSOCIATED WITH ARNT EXPRESSION. C. Wilson, D. Hoivik, C. Holtzapple, L. Stanker and S. Safe.

REGULATION OF CATHEPSIN D GENE EXPRESSION IN HUMAN ENDOMETRIAL CANCER CELLS. M. Wormke, D. Hoivik, C. Holtzapple, L. Stanker and S. Safe.

DEREGULATION OF C-HA-RAS GENE EXPRESSION IN VASCULAR SMOOTH MUSCLE CELLS BY BENZO(a)PYRENE. Y. Zhang and K.S. Ramos.

CONTRIBUTION OF OXIDATIVE STRESS TO BENZO(a)PYRENE-INDUCED HEPATOCYTE INJURY AND MODULATION OF GROWTH RELATED GENE EXPRESSION. W. Zhao and K.S. Ramos.

Conferences

July 1997

July 6-10, 1997

7th International Congress of the European Assoc. for Veterinary Pharmacology and Toxicology

Madrid, Spain

Contact: Prof. Arturo Anadon, Chrm., Dept. Toxicology, Universidad Complutense, de Madrid, Spain; Tel: 34 1 394 38 34; Fax: 34 1 394 38 40

July 6-11

ICT VIII (Intl Congress of Toxicology), Chemical Safety for the 21st Century

Paris, France

Contact: Remi Glomot, Secretary-General; Tel: 38.87.60.00; Fax: 38.87.60.66

July 6-13, 1997

AACR - Molecular Biology and Pathology of Neoplasia

Keystone, CO
Contact: American Assoc. for Cancer Research, Public Ledger Building, Suite 826, 150 S. Independence Mall West, Philadelphia, PA 19106-3493;

Tel: (215)440-9300;

Fax: (215)440-9313

August 1997

August 21-26

Tenth Intl Conference on Cytochrome P450: Biochemistry, Biophysics and Molecular Biology

San Francisco, CA

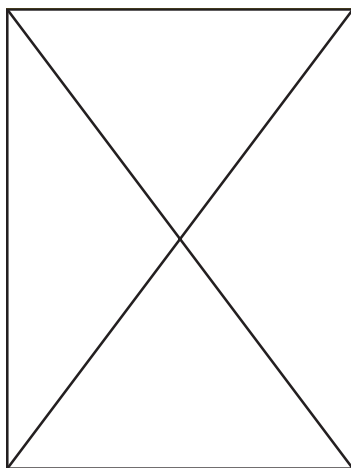
Contact: Professor J. Dawson, Dept. of Chemistry and Biochemistry, University of South Carolina, Columbia, SC 29208; Tel: (803)777-7234; Fax: (803)777-9521; E-mail: Dawson@psc.sc.edu; Website: www.cosm.sc.edu/chem/dawson.html

August 26-28

Chemical Mechanisms in Toxicology

Washington, DC

Contact: American Chemical Society Dept. Continuing



Education, 1155 Sixteenth St. NW, Washington, DC 20036; Tel: (202)872-6336 Fax: (202)872 6336

September 1997

September 7-10, 1997

Symposium on Mechanisms of Toxicity

Baltimore, MD

Contact: Office of Continuing

Medical Education, Johns Hopkins Medical Institutions, Turner 20, 720 Rutland Ave., Baltimore, MD 21205-2195; Tel: (410) 955-2959; Fax: (410) 955-0807; E-mail: cmenet@som.adm.jhu.edu

For poster abstract forms Fax: (410)223-1603; E-mail: caat@caat.spharbor.jhu.edu

September 7-11, 1997

111th AOAC International Annual Meeting & Exposition

San Diego, CA

Contact: AOAC INTERNATIONAL Tel: 800-379-2622; Fax: (301)924-7089; E-mail: aoac@aoac.org

September 9-12

Molecular Genetics of Cancer-American and European Associations for Cancer Research Joint Conference

Oxford, England

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

September 17-20

Eicosanoids & Other Bioactive Lipids in Cancer, Inflammation & Related Diseases-5th International Conference

La Jolla, California

Contact: Dr. Kenneth V.

Honn, Wayne State University, Dept. of Radiation Oncology, 431 Chemistry Bldg., 5101 Cass Ave., Detroit, MI 48202

September 17-20

The Fourth International Metallothionein Meeting

Kansas City, MO

Contact: Curtis D. Klaassen, Ph.D., Dept. Pharmacology & Toxicology University of Kansas Medical Center, 3901 Rainbow Blvd, Kansas City, KS 66160-7417;

Tel: (913)588-7714;

Fax: (913)588-7501;

E-mail: cklaasse@kumc.edu

October 1997

October 8-10

Workshop on Reproductive Toxicology

Granada, Spain

Contact: Secretariat: Dr. J. del Mazo, Centro de Investigaciones Biológicas. C.S.I.C., Velazquez 144, 28006 Madrid, Spain; Tel: 34 1 5644562 ext. 4324;

Fax: 34 1 5627518; E-mail: cibjm26@fresno.csic.es

October 28-31, 1997

50th Annual Symposium on Fundamental Cancer Research: Molecular Determinants of Cancer Metastasis

Houston, TX

Contact: UT M.D. Anderson Cancer Center, Conference Services, HMB 131, #30070074, 1515 Holcombe Blvd, Houston, TX 77030-4095

November 1997

November 4-6

Toxicology for Chemists

Clearwater, FL

Contact: American Chemical Society Dept. Continuing Education, 1155 Sixteenth St. NW, Washington, DC 20036;

Tel: (202)872-6336;

Fax: (202)872 6336; E-mail: shortcourses@acs.org

December 1997

December 13-17

American Society for Cell Biology-37th Annual Meeting

Washington DC

Contact: The American Society for Cell Biology, 9650 Rockville Pike, Bethesda, MD 20814-03992; Tel: (301)530-7153; Fax: (301)530-7139; E-mail: ascbinfo@ascb.org; Website: www.ascb.org/ascb

April 1998

8th Annual Meeting of SETAC-Europe. Interfaces in Environmental Chemistry and Toxicology: from the global to the molecular level.

Bordeaux, France

Contact: SETAC-Europe, Av. E. Mounier 83, Box 1, 1200 Brussels, Belgium; Fax: 32 2 770 53 86

July 1998

July 20-24

12th Intl Symposium on Microsomes and Drug Oxidations

Contact: VISA Congres, 624 rue des Grezes, 34070 Montpellier France;

Tel: 33-4 67 45 56 77;

Fax: 33-4 67 45 57 97;

E-mail: visa@imagnet.fr

Special Thanks to Chris Bral, Kevin Kerzee and Scott McKenzie for planning and cooking at the "First Annual Faculty of Toxicology **Crawfish Boil and Barbecue Spring Feast.**"

Employment Opportunities

Faculty Position

Jefferson Medical College

Full-time academic position of Associate Professor / Full Professor. Ph.D., MD or equivalent degree required with substantial evidence of scholarly accomplishments. Will join scientists, physicians and specialist members of the Jefferson Occupational and Environmental Medicine Program. Will conduct independent or collaborative scholarly research. Experience in neurotoxicology, hepatotoxicology or the study of agents that cause cancer desirable. Send CV, history of relevant experience and names of at least three persons who can provide letters of evaluation to: Lance L. Simpson, Ph.D., Prof. Medicine & Director, Jefferson Occupational & Environmental Medicine Program, Room 314-JAH, Jefferson Medical College, 1020 Locust St., Philadelphia, PA 19107.

Postdoctoral Position

CDC/NIOSH

Immediate opening to study Ah receptor and mechanism of action of 2,3,7,8-tetrachlorodibenzo-p-dioxin (dioxin). Lab devoted to applying modern cellular and molecular biology and genetics to unravel mechanisms of toxicity. Send CV, list of three references to: Dr. Alan Poland, CDC/NIOSH, Toxicology and Molecular Branch, Mailstop L-4020, 1095

Willowdale Rd., Morgantown, WV 26505.

Postdoctoral Position

University of California at Davis

Position in Dept. of Environmental Toxicology to study cellular protein phosphorylation activities affected by xenobiotics, particularly organochlorines. Experience in basic cellular biology and biochemistry required, expertise in toxicology helpful. Send letter of application with CV and two names of reference to: Rebecca Morrison, Program Manager, Center for Environmental Health Sciences, Dept of Environmental Toxicology, Univ. of California, Davis, CA 95616; Tel: (916) 752-2732; Fax: (916)752-3394; E-mail: rlmorrison@ucdavis.edu

Postdoctoral/Research Associate

Wayne State University School of Medicine

Position in Dept. Pharmacology focused on isolation and characterization of a negatively acting transcription factor regulating human *CYP1A1* gene expression. Will also assist with training new personnel and students and with preparation and writing of reports, manuscripts and grant applications. Requires Ph.D. in biological sciences and experience in recombinant DNA, cell culture and protein chemistry methodologies. Send letter of application, CV, and arrange for

three letters of recommendation to be sent to: Dr. Ronald N. Hines, Dept. of Pharmacology, Wayne State University School of Medicine, 540 East Canfield Ave., Detroit, MI 48201-1998

Delaware Health & Social Services Division of Public Health

Dover, DE. For applications, call Applicant Services Office at (302) 577-4690. For questions about positions, contact Gerald Llewellyn, Ph.D. at (302) 739-6619.

1) *Public Health Toxicologist/Environmental Scientist Recruitment #97-H186C*. Scientist will provide human health assessments, health hazard evaluation and risk assessments. Should be able to assess public health impacts due to environmental exposures from hazardous substances, and have knowledge, experience and/or course work in toxicology and environmental cancer issues, be computer literate and have strong written and oral communication skills.

2) *Public Health Epidemiologist Recruitment #97-H171C*. To undertake epidemiology studies. Knowledge of methods, techniques, study designs and statistics relevant to epidemiology studies, on-line database searching and application of data to investigative finding required. Prefer candidates with experience or training relating to environmental health issues such as environmental

cancer. Ability to write and speak well are critical.

Faculty Positions

Wayne State University School of Medicine

Tenured/tenure-track faculty positions to contribute to clinical trials of investigational agents (antineoplastics) and develop independent, extramurally-funded research programs. Submit CV, description of interests, key reprints, and names, addresses, phones, faxes and emails of three references to Dr. Ralph E. Parchment, Chairman, Faculty Search Committee, Division of Hematology-Oncology, 501 Hudson, Wayne State Univ., 3990 John R, Detroit, MI 48236; Tel: (313)745-4700; Fax:(313)993-0559; E-mail: parchment@onccgate.roc.wayne.edu

(1) *Drug Delivery*: Dept. of Pharmaceutical Sciences, College of Pharmacy and Allied Health Professionals and Pharmacology Laboratory, Karmanos Cancer Institute. Research emphasis on novel and emerging technologies in drug delivery.

(2) *Pharmacokinetics*: Pharmacology Lab, Karmanos Cancer Institute, and Dept of Pharmaceutical Sciences, College of Pharmacy and Allied Health Professionals. Expertise in pharmacokinetic modeling, research program in pharmacokinetics.

Postdoctoral Associate

University at Albany-SUNY

Identify novel toxic contaminants in sediments using chemical analysis and bioassay procedures. Aquatic and mammalian bioassays will be

used to evaluate toxicity of fractions separated from sediment extracts and identify environmental pollutants. Requires PhD in environmental chemistry, analytical organic chemistry, analytical toxicology or related field. Must have strong background in GC/MS and liquid chromatography, also GC/FTIR and LC/MS. Send resume and names of three references to Patrick W. O'Keefe, Wadsworth Center, New York State Dept. of Health, PO Box 509, Albany, NY 12201.

Postdoc/ Predoc Positions

University of New Mexico

Immediate openings for two postdocs and one predoc in immunotoxicology and breast epithelial cell signaling by environmental agents. Postdoc applicants must have PhD in toxicology-related discipline and should send resumes with cover letter including original signature referencing Job Req. Nos. P3369-A to Dr. Scott W. Burchiel, Professor, College of Pharmacy Toxicology Program, The University of New Mexico, Albuquerque, NM 87131-1066. Predoctoral position requires admission and enrollment in UNM Toxicology Graduate Program. For additional information, contact Dr. Burchiel at Tel: (505)272-0920, Fax: (505)272-6749, or e-mail: burchiel@unm.edu.

Assistant/Associate Professors

Wayne State University

Dept. of Occupational and Environmental Health Sciences has tenure-track positions available for PhD or MD candidates to teach and conduct research in Toxicology, Industrial Hygiene or related discipline. Previous teaching

experience and excellent research record are preferred, and ability to sustain extramural funding is required. Laboratory space and start up funds are available. Salary and rank commensurate with experience. Send CV, concise description of research interests, teaching experience and names, addresses and phone numbers of three references to: Deepak K. Bhalla, PhD (Chair, Search Committee), Wayne State University, Dept. of Occupational and Environmental Health Sciences, 628 Shapero Hall, Detroit, Michigan 48202.

Assistant Professor Position

Rutgers University College of Pharmacy

Dept. of Pharmacology and Toxicology and the Environmental and Occupational Health Sciences Institute (EOHSI) are seeking full-time, tenure track Asst. Professor. Should have PhD in Pharmacology or Toxicology or MD plus appropriate postdoctoral training. Expected to develop extramurally funded research program and participate in teaching activities. Program research focused on mechanistic level solutions to environmental health questions. Basic research and teaching at undergraduate and graduate levels required. Should be able to combine molecular biology and chemistry to solve fundamental problems in toxicology. Send CV and list of three references to Robert Snyder, PhD, Professor and Chairman, Dept. of Pharmacology and Toxicology at Rutgers Univ., Busch Campus, 681 Frelinghuysen Road, PO Box 1179, Piscataway, NJ 08855-1179.

Internet Resources

Toxicology Newsgroups

* **RISKANAL** A discussion list focused on risk analysis, affiliated with the Society for Risk Analysis. To join, send message to: listserv@listserv.pnl.gov. Content of message: subscribe riskanal first_name last_name

* **ToxList** An electronic group created for the discussion and dissemination of issues and information related to all fields of toxicology. To join, send message to: listserv@esc.syrres.com. Content of message: Subscribe ToxList

* **Enviro-Newsbrief** Provides a summary of the news that affects EPA, especially EPA and other environment-related appointments; the Council on Environmental Quality; changes to OMB's process of regulatory review; regulatory reform; "reinventing government"; environmental legislation; federal employee issues; and interagency work on environmental issues. To join, send message to: listserv@unixmail.rtpnc.epa.gov. Content of message: Subscribe EnvironB-L first_name last_name

WWW Home Pages

U.S. Government Sites

- * Environmental Protection Agency (EPA) <http://www.epa.gov>
 - * EPA=B9s IRIS database <http://www.epa.gov/iris/>
 - * EPA=B9s Center for Exposure Assessment Modeling <http://www.epa.gov/software.html>
 - * EPA=B9s THERdbASE (Total Human Exposure Risk database & Advanced Simulation Environment) Modeling and Software Tool <http://eeyore.lv-hrc.nevada.edu/therdbase.html>
- * Centers for Disease Control & Prevention <http://www.cdc.gov/cdc.html>
- * Agency for Toxic Substances & Disease Registry (ATSDR)—Access to newsletter, internet resources, toxicological profiles for various chemicals, etc. <http://atsdr1/cdc/gov:8080/atsdrhome.html>
- * National Institute for Occupational Safety & Health (NIOSH) <http://www.cdc.gov/niosh/homepage.html>
- * National Institute of Environmental Health Sciences (NIEHS) <http://www.niehs.nih.gov>
- * National Institutes of Health (NIH) <http://www.nih.gov>
- * National Library of Medicine (NLM) <http://www.nlm.nih.gov>
- * National Toxicology Program (NTP) <http://ntp-server.niehs.nih.gov/>
- * Occupational Safety & Health Administration (OSHA) <http://www.osha.gov>

Other U.S. Sites

- * Toxicology Excellence for Risk Assessment (TERA) <http://www.tera.org> (Developed an international database of risk values, a pilot of which is available at this site)
- * Resources for the Future (RFF) <http://www.rff.org> (Washington, DC organization that includes Center for Risk Management; site provides linkages to other home pages.)
- * RiskWorld: <http://www.riskworld.com> (International www publication covering news and views on risk assessment and risk management.)
- * Toxicology News Group via the BIOSC/bionet Electronic Newsgroup Network for Biology <http://www.bio.net> (choose =B3toxicology=B2 from the newsgroups listed in =B3archives=B2)
- * EXTension TOXicology NETwork (EXTOXNET) <http://www.oes.orst.edu> (Cooperative effort among various universities to stimulate dialog on toxicology issues and make toxicology information available. Includes newsletter, fact sheets, chemical profiles, etc.)

International Sites

- * Central European Environmental Data Request Facility (CEDAR) <http://www.cedar.univie.ac.at> (Access to other environmental organizations and programs.)
 - * International Agency for Research on Cancer (IARC) <http://www.iarc.fr>
 - * International Occupational Safety & Health Information Centre (ILO-CIS) <http://turva.me.tut.fi/cis/home.html> (Includes listings of online and CD-ROM databases, useful internet resources, etc.)
 - * International Society of Exposure Analysis (ISEA) <http://www.isea.rutgers.edu/isea/isea.html>
 - * United Nations Environment Programme (UNEP) <http://www.unep.ch> (Includes access to information about the International Register of Potentially Toxic Chemicals (IRPTC))
 - * World Health Organization (WHO) <http://www.who.ch>
 - * Includes information on the International Programme on Chemical Safety (IPCS): <http://www.who.ch/programmes/pcs/pcs-home.htm>
 - * Includes GELNET (Global Health and Environment Library Network): <http://who.unep.ch/geenet/helmtoc.html>
 - * Canadian Centre for Occupational Health & Safety <http://www.ccohs.ca>
- Japan: * National Institute of Health Sciences (Ministry of Health & Welfare) <http://www.nihs.go.jp>
- Singapore: * National University of Singapore BioMed Server <http://bilmed.nus.sg>
- Sweden: * National Institute for Working Life <http://www.nioh.se>
- The Netherlands: * National Institute of Public Health & Environmental Protection (RIVM) <http://deimos.rivm.nl/about.html>

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