



Announcements

Meeting Attendance

Over 40 graduate students, faculty and staff attended the 39th Annual Meeting of the Society of Toxicology in Philadelphia, Pennsylvania the week of March 19-23, 2000. The Texas A&M University Toxicology program received three awards

at the National meeting.

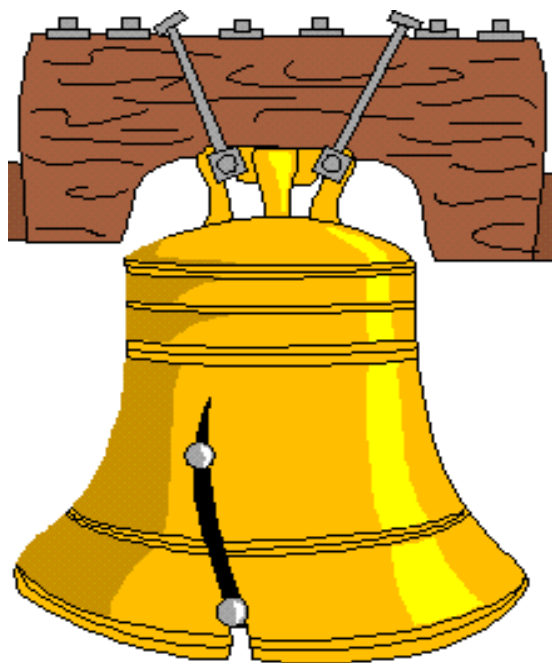
Dr. Ken Ramos was the recipient of the Zeneca Traveling Lectureship which will support his visits and lectures in numerous laboratories in Europe.

I-Chen Chen (Safe) was the first place winner of the In Vitro Specialty Section award for her presentation and **Yun-Houng Chen** (Ramos) received a first place award for his research from the Mechanisms Specialty Section.

Shawna Lemke (Phillips) and **Chunhua Qin** (Safe) received travel awards from SOT to attend the meeting. In addition, **Emely Castro-Rivera** (Safe), **Yun-Houng Chen**, **Tae-Hyeon Cho** (Tiffany-Castiglioni/Donnelly), **Andrew McDougal** (Safe), **Derek Morrow** (Safe) and

Matthew Stoner (Safe) received College of Veterinary Medicine Graduate Student Association travel awards, and **Kim Miller** (Ramos) received a Women's Faculty Network travel award. *Abstracts presented at the Society of Toxicology meeting are shown on pages 4 and 5.*

Bill Reeves (Donnelly) won 1st Place in the Graduate Student Poster Division of Biological Sciences at the annual Texas A&M Graduate Student Association competition, March 19-24. Bill's poster, "Development of Methods for Predicting the Availability of Soil Contaminants" describes his ongoing research of the bioavailability of soil-bound polycyclic aromatic hydrocarbons.



Shawna Lemke (Phillips) attended the American Chemical Society National



Meeting in San Francisco, CA, March 26-30. Her abstract in the Division of Agricultural and Food Chemistry (AGFD) was entitled "Deamination of Fumonisin B₁ and Biological Assessment of Reaction-Product Toxicity *In vitro*." As a student finalist competing at the national level, she received a travel award to attend the meeting from ACS, and she won the 2000 AGFD Graduate Research Award with her outstanding presentation.

Napoleon Alejandro and **Hadi Falahatpisheh**, along with their mentor Dr. Ken Ramos, attended the Contemporary Concepts in Toxicology, Mechanisms of Nephrotoxicity and Nephrocarcinogenicity Conference at Martha's Vineyard, MA from April 15-18. Hadi's poster was entitled "Disruption of Nephrogenesis in Metanephric Organ Cultures by Benzo(A)Pyrene" while Napoleon presented "Modulation of Glomerular Cell Phenotypes by Benzo(A)Pyrene *In vitro*." Napoleon received a travel award from the organization to attend the meeting.

Lora Lindahl (recently completed a Ph.D. in Tiffany-Castiglioni's laboratory) was awarded third place on her poster abstract entitled "Differential Ability of Astroglia and Neuronal Cells to Accumulate Lead: Dependence on Cell Type and on Degree of Differentiation," at the 17th International Neurotoxicology Conference, "Children's Health and

the Environment: Mechanisms and Consequences of Developmental Neurotoxicology") held in Little Rock, Arkansas, October 17-20, 1999.

Awards & Honors

I-Chen Chen was awarded the Distinguished Former Graduate Student Award in Research by the Texas A&M University Association of Former Students.

At the annual College of Veterinary Medicine Honors Convocation held on April 20, several Toxicology students received awards. **Yun-Houng Chen** and **Matthew Stoner** were both recipients of the

George T. Edds Award; **Shawna Lemke** and **Lora Lindahl** received Fisher Institute Medical Research Awards; and **Napoleon**

Alejandro received an Outstanding Graduate Student Award.

Student Progress

The following students completed preliminary exams:

<u>Student</u>	<u>Mentor</u>
Shannon Garcia	Donnelly
Kim Miller	Ramos

Recruiting Visits

Dr. Evelyn Tiffany-Castiglioni has visited Austin College in Sherman, TX and the University of Texas at Arlington, in a recruiting capacity.



Superfund Program Project Funded

The Texas A&M University Superfund Basic Research Program (SBRP) Project has been funded by the National Institute for Environmental Health Sciences (NIEHS) since 1988. The overall theme of this program project has focused on development of *in vivo* and *in vitro* bioassays that can be used for risk assessment of complex mixtures of environmental contaminants commonly found in most Superfund sites throughout the nation. The specific classes of chemicals that have been targeted for study include polynuclear aromatic hydrocarbons (PAHs) that are routinely found in oily wastes and combustion products; chlorinated phenols, and other hydroxyaromatic industrial compounds and byproducts; polychlorinated biphenyl (PCB), dibenzofuran (PCDF) and dibenzo-p-dioxin (PCDD) industrial compounds and/or byproducts and other endocrine-active industrial compounds.

The SBRP project renewal application (2000-2005) capitalized on the results of our previous studies and focused on many of the same groups of environmental and Superfund site chemicals but expanded the scope of the project into three main focus areas that are supported by several laboratory service cores. Projects 1-4 are focused on Basic Toxicology Research on the mechanism of action of endocrine disruptors (Project 1 – S. Safe, PI); the genotoxicity of PAHs (Project 2 – K.C. Donnelly, PI); the use of stress genes as biomarkers of heavy metal exposure (Project 3 – E. Tiffany-Castiglioni and K. Ramos, Co-PIs) and studies of chemical effects on potential human susceptibility genes in mouse models (Project 4 – R. Finnell, PI). Dr. Tim Phillips will be carrying out basic research on clay-based models for preferential absorption of toxins (Project 5) and he will also be involved in development of Site Remediation Strategies that will include field studies on bioremediation and natural attenuation (Project 6 – R. Autenrieth PI). The third area of research focuses on Exposure Assessment and Modeling which will integrate results from all projects to improve methods for risk assessment of chemical mixtures. The research projects will be supported by laboratory services that include in Image Analysis and Bioassays (R. Burghardt, PI), Analytical Methods (T. McDonald, PI), Biostatistics (J.A. Calvin, PI) and Field Services (K.C. Donnelly, PI).

The SBRP Project will also support Outreach activities (K.C. Donnelly, PI) and a Training Core (T.D. Phillips, PI) and the overall project will be coordinated through an Administrative Core (S. Safe, PI). The SBRP project recently received notice that the grant application was both approved and funded with an overall recommended budget of \$6,132,250 (direct costs). The Superfund Center at Texas A&M University is one of only 17 funded programs in the United States and our University along with UC-Berkeley, Harvard, NYU, UC-Davis, University of Washington and the University of Arizona are the only institutions receiving Superfund and Environmental Health Sciences Center grants from NIEHS.



Society of Toxicology 2000 Presentations

MODULATION OF GLOMERULAR CELL FUNCTIONS BENZO(A)PYRENE: IMPLICATIONS FOR MESENCHYMAL/EPITHELIAL INTERACTIONS *IN VITRO*. **N.F. Alejandro** and K.S. Ramos.

ADVANCES IN NON-INVASIVE MICROMETER AND NANOMETER SCALE CELLULAR/ TISSUE VITAL IMAGING. **R.C. Burghardt**, M.A. Philbert, R. Barhoumi, D. Kawahara, C.R. Meyer and D. Piston.

COMPARATIVE MECHANISMS OF ACTIVATION OF ESTROGEN RECEPTOR α BY ESTROGEN AND 4'-HYDROXYTAMOXIFEN. **E. Castro-Rivera** and S. Safe.

IDENTIFICATION OF ESTROGEN-INDUCED GENES DOWN-REGULATED BY 2,3,7,8-TETRACHLORODIBENZO-*p*-DIOXIN BY COUPLING SUPPRESSION SUBTRACTIVE HYBRIDIZATION AND cDNA MICROARRAYS. **I. Chen**, T. Hsieh, T. Thomas and S. Safe.

A CCAAT/ENHANCER BINDING PROTEIN (C/EBP) SITE ALONG WITH CREB BINDING PROTEIN (CBP) PARTICIPATE IN NEGATIVE REGULATION OF RAT *GST-Ya* IN VASCULAR SMOOTH MUSCLE CELLS BY BENZO(A)PYRENE. **Y. Chen** and K.S. Ramos.

TOXICITIES OF ORGANOPHOSPHORUS COMPOUNDS IN A HUMAN NEUROBLASTOMA (SH-SY5Y) CELLLINE. **T. Cho** and E. Tiffany-Castiglioni.

ESTROGEN-MEDIATED ACTIVATION OF *c-Fos* PROTOONCOGENE THROUGH PROTEIN BINDING THE SERUM RESPONSE ELEMENT. **R. Duan** and S. Safe.

ANTAGONIST NEPHROTOXIC INTERACTIONS IN BINARY AND TERNARY MIXTURES OF POLYCYCLIC AROMATIC HYDROCARBONS. **M.H. Falahatpisheh**, R. Metz, K.C. Donnelly and K.S. Ramos.

INTERACTION OF METHOXYCHLOR AND RELATED COMPOUNDS WITH ESTROGEN RECEPTOR ALPHA AND BETA, AND ANDROGEN RECEPTOR: STRUCTURE-ACTIVITY STUDIES. K.W. Gaido, S.C. Maness, D.P. McDonnell, D. Kupfer, S. Dehal and **S. Safe**.

GENOTOXIC INTERACTIONS OF MODEL COMPOUNDS AND BINARY MIXTURES. **S.S. Garcia**, M.G. Mumtaz and K.C. Donnelly.

NEW INFORMATION DEBUNKS BLEACH FOR PATIENT DECONTAMINATION IN CHEMICAL/BIOLOGICAL WARFARE INCIDENTS. **T. Garland**.

ANTIBACTERIAL ACTIVITY OF IMMOBILIZED ORGANOCCLAY FILTRATION BEDS. **P. Herrera**, H.J. Heubner, C. Ake and T.D. Phillips.

FURTHER CHARACTERIZATION OF OXIDANT - ACTIVATED PROTEIN BINDING TO THE ANTIOXIDANT/ELECTROPHILE RESPONSE ELEMENT IN VASCULAR SMOOTH MUSCLE CELLS. **M.T. Holderman** and K. Ramos.

THIN FILM CLAY-BASED COMPOSITES AS AFFINITY PROBES FOR AFLATOXINS. **H.J. Huebner**, K. Mayura, C. Ake, S.L. Lemke and T.D. Phillips.

ENVIRONMENTAL AND RURAL HEALTH EDUCATION PARTNERSHIP. **L. Johnson**, J.J. Denton, T. Davis, K.C. Donnelly, N. Ing and I. Ramos.

PERINATAL/JUVENILE EXPOSURE TO METHOXYCHLOR REDUCES SERTOLI CELL NUMBERS IN ADULT RATS. **L. Johnson**, R.E. Chapin, M.W. Harris, R.L. Silge, A.C. Guidry and W.R. Lee.

CONSTITUTIVE AND INDUCIBLE EXPRESSION OF CYP1B1 IN VASCULAR SMOOTH MUSCLE CELLS: DIRECT INVOLVEMENT OF THE ARYL HYDROCARBON RECEPTOR IN BENZO(A)PYRENE-MEDIATED DEREGULATION OF *C-HA-RAS*. **J.K. Kerzee** and K.S. Ramos.

ENHANCED DNA-INDEPENDENT TRANSCRIPTIONAL ACTIVITY OF ZINC FINGER DOMAIN-DELETED MOUSE ESTROGEN RECEPTOR THROUGH THE ESTROGEN RECEPTOR/SP1 PROTEIN INTERACTION. **K.H. Kim** and S. Safe.

3',4'-DIMETHOXYFLAVONE AS AN ARYL HYDROCARBON RECEPTOR ANTAGONIST IN BREAST CANCER CELLS. **J.E. Lee**, M. Sethi-Gupta and S. Safe.

APPLICATION OF AN *IN VITRO* GASTROINTESTINAL MODEL FOR THE PREDICTION OF MYCOTOXIN ENTEROSORBENT EFFICACY. **S.L. Lemke**, K. Mayura, S.E. Ottinger, C.A. Ake, H.J. Huebner, K. Pimpudkee, N. Wang, L.F. Kubena and T.D. Phillips.

EFFECTS OF LIGAND-STRUCTURE ON ESTROGEN/ANTIESTROGEN INDUCTION VIA ESTROGEN RECEPTOR/SP1 INTERACTIONS WITH GC-RICH PROMOTER ELEMENTS. **X. Li**, W. Porter, E. Castro-Rivera, Q. Chin, R. Duan, B. Saville, G. Sun, W. Xie and S. Safe.

ACTIVATION OF *LIMD*

- RETROTRANSPOSON IN MOUSE VASCULAR SMOOTH MUSCLE CELLS BY BENZO(A)PYRENE METABOLITES AND HYDROGEN PEROXIDE: IMPLICATIONS IN CHEMICAL ATHEROGENESIS. **K.P. Lu** and K. Ramos.
- ARYL HYDROCARBON RECEPTOR-MEDIATED INHIBITION OF MAMMARY TUMOR GROWTH IN AN ATHYMIC NUDE MOUSE MODEL BEARING MCF-7 CELL XENOGRAFTS. **A.J. McDougal** and S. Safe.
- MECHANISMS OF C-HA-RAS ACTIVATION IN VASCULAR SMOOTH MUSCLE CELLS BY BENZO(A)PYRENE. **R.P. Metz**, Y. Zhang and K.S. Ramos.
- DIFFERENTIAL ACTIVATION OF C-HA-RAS ARE/EpRE BINDING PROTEINS BY BENZO(A)PYRENE AND THAPSIGARGIN IN VASCULAR SMOOTH MUSCLE CELLS. **K.P. Miller** and K.S. Ramos.
- METHYLENE-SUBSTITUTED 1,1'-DIMETHYLDIINDOLY-METHANE ANALOGS AS INHIBITORS OF CARCINOGEN-INDUCED MAMMARY TUMOR GROWTH IN RODENTS. **M. D. Morrow**, A.J. McDougal and S. Safe.
- CELL AND PROMOTER-SPECIFIC INTERACTIONS OF STEROID RECEPTOR COACTIVATORS WITH ESTROGEN RECEPTOR α (ER α) AND ER α /SP1. **T.A. Nguyen** and S. Safe.
- OXIDATION OF POLYCYCLIC AROMATIC HYDROCARBONS AND THEIR EFFECT ON GAP JUNCTION INTERCELLULAR COMMUNICATION. **S.E. Ottinger**, R. Barhoumi, K.S. McKenzie, T. McDonald, R. Autenrieth, R.C. Burghardt and T.D. Phillips.
- CELL CONTEXT-DEPENDENT ESTROGEN RECEPTOR α (ER α) AGONIST AND ER β ANTAGONIST ACTIVITIES OF METHOXYCHLOR METABOLITES. **L. Pallaroni**, B. Saville, J.E. Lee, M. Stoner, K. Gaido, S.C. Maness and S. Safe.
- HIGH AFFINITY SORPTION OF AFLATOXIN B1 BY HECTORITE CLAY. **K. Pimpukdee**, C. Ake, S.L. Lemke, K. Mayura and T.D. Phillips.
- LEAD (PB) TARGETS GRP78, A MOLECULAR CHAPERONE, IN C6 RAT GLIOMA CELLS. **Y. Qian**, E.D. Harris, Y. Zheng and E. Tiffany-Castiglioni.
- TRANSCRIPTIONAL ACTIVATION OF ORNITHINE DECARBOXYLASE GENE EXPRESSION BY ESTROGENS IN MCF-7 BREAST CANCER CELLS. **C. Qin** and S. Safe.
- TRANSCRIPTIONAL ACTIVATION OF DNA POLYMERASE α BY ESTROGEN IN MCF-7 CELLS REQUIRES INTERACTION OF ESTROGEN RECEPTOR α /Sp1 WITH A GC-RICH ELEMENT. **I. Samudio**, C. Vyhldal and S. Safe.
- LIGAND-ACTIVATED ESTROGEN RECEPTOR α (ER α)/Sp1 ACTION IN BREAST CANCER CELLS IS DEPENDENT ON THE ACTIVATION FUNCTION 1 DOMAIN OF ER α . **B. Saville**, M. Wormke and S. Safe.
- DOWNREGULATION OF VASCULAR ENDOTHELIAL GROWTH FACTOR EXPRESSION IN HEC1A ENDOMETRIAL CANCER CELLS THROUGH INTERACTIONS OF ESTROGEN RECEPTOR α AND Sp3 PROTEINS. **M. Stoner**, F. Wang, I. Samudio, C. Vyhldal, M. Kladde, T. Nguyen and S. Safe.
- INHIBITION OF ESTROGEN-INDUCED RETINOIC ACID RECEPTOR α 1 GENE EXPRESSION BY TCDD MECHANISMS OF ACTION. **G. Sun**, I. Samudio and S. Safe.
- EFFECTS OF 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN AND DI-INDOLYL METHANES ON CYTOCHROME P450 1A1, CARCINOMA CELLS. **M. vandenBerg**, L. Slobbe, **S. Safe** and J.T. Sanderson.
- REGULATION OF TRANSFERRIN GENE EXPRESSION BY 17 β -ESTRADIOL IN HUMAN BREAST CANCER CELLS. **C. Vyhldal**, C. Mach and S. Safe.
- TRANSCRIPTIONAL ACTIVATION OF CATHEPSIN D GENE EXPRESSION BY GROWTH FACTORS. **F. Wang**, R. Duan and S. Safe.
- INVESTIGATING THE MECHANISM OF METHOXYCHLOR TOXICITY THROUGH ESTROGEN RECEPTORS ALPHA AND BETA USING CDNA ARRAY TECHNOLOGY. **K.M. Waters**, **S. Safe**, K.S. Korach and K.W. Gaido.
- OXIDATIVE INJURY MODULATES EXTRACELLULAR MATRIX-REGULATED NF κ B BINDING ACTIVITY IN VASCULAR SMOOTH MUSCLE CELLS. **E.S. Williams**, E. Wilson and K.S. Ramos.
- INSULIN-LIKE GROWTH FACTOR-1 INDUCES ADENOSINE DEAMINASE IN MCF-7 HUMAN BREAST CANCER CELLS THROUGH ESTROGEN RECEPTOR-SP1 INTERACTIONS. **W. Xie**, R. Duan and S. Safe.
- LIGAND STRUCTURE-DEPENDENT DIFFERENCES IN ACTIVATION OF ESTROGEN RECEPTOR α IN HUMAN HepG2 LIVER AND U2 OSTEOGENIC CANCER CELL LINES. **K. Yoon**, L. Pallaroni, K. Ramamoorthy, K. Gaido and S. Safe.

Conferences

June 2000

June 4-8

ASBMB/ASPET Joint Meetings

Boston, MD

Contact: ASBMB/ASPET Joint Meeting Office,

9650 Rockville Pike, Bethesda, MD 20814; Tel:

(301) 530-7010; Fax: (301) 530-7014; Email:

drita@faseb.org; Internet: www.faseb.org/meetings

Abstract Deadline: January 31, 2000

June 5-8

Critical Issues in Tumor Microcirculation,

Angiogenesis and Metastasis

Cambridge, MA

Contact: Harvard MED-CME, PO Box 825,

Boston, MA 02117-0825; Tel: 617-432-1525; Fax:

617-432-1562; Email: hms-cme@hms.harvard.edu.

June 11-16

DMW/ISSX 2000

Fife, Scotland

Contact: Conference Secretariat, 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:

dmwissx2000@meetingmakers.co.uk.

June 15-19

64th Annual Educational Conference and Exhibi-
tion by NEHA

Denver, Colorado

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

June 19-22

ICDI 2000: International Conference on Drug-Drug
Interactions

Baltimore, Maryland

Contact: ISE, Inc. 7061 Deepage Drive, Suite 102,

Columbia, MD 21045; Fax: 410-309-9014; Email:

nola@iscience.com.

June 22-24

2nd Annual Intl Conference on Ovarian Cancer

New York, NY

Contact: Memorial Sloan-Kettering Cancer Center,

Office of Continuing Medical Education; 1275

York Avenue, Box 31, New York, NY 10021; Tel:

212-639-6754; Fax: 212-717-3140; Email:

CMEInfo@mskcc.org; Internet: www.mskcc.org

June 25-28

The 9th Meeting of the PanAmerican Society for

Pigment Cell Research

College Station, TX

Contacts: Lynn Lamoreux, Dept. of Vet.

Pathobiology, College of Vet. Medicine, Texas

A&M University, College Station, TX 77843; Tel:

409-845-6084; Fax: 409-845-9972; Email:

llamoreux@CVM.TAMU.edu

June 25-29

Society of Toxicologic Pathologists 19th Annual
Symposium

Phoenix, Arizona

Contact: Society of Toxicologic Pathologists,

Symposium Registration, 19 Mantua Road, Mt.

Royal, NJ 08061; Tel: 856-423-7222 x 360; Fax:

856-423-3420; Internet: www.toxpath.org

Registration Deadline: May 26,2000

June 26-28

Breast Cancer: Application of New Evidence to
Patient Treatment

Edmonton, Alberta Canada

Contact: Buksa Associates, Inc., BCIRG Confer-

ence Secretariat, 11659-72 Avenue, Edmonton AB

T6G 0B9 Canada; Tel: 780-436-0983; Fax: 780-

437-5984; Email: bcrig@buksa.com; Internet:

www.buksa.com/bcirgconference.

July 2000

July 16-20

The Sixth International Symposium on Biological
Reactive Intermediates

Paris, France

Contact: Michele Centonze Conseil, 6 bis rue des

Cendriers, 75020 Paris; Tel: 33 (0)1 44 62 68 80;

Fax: 3 (0)1 43 49 68 58; Email: [mail@m-centonze-](mailto:mail@m-centonze-conseil.com)

[conseil.com](http://www.m-centonze-conseil.com); Internet: [\[conseil.com\]\(http://www.m-centonze-conseil.com\)](http://www.m-centonze-</p>
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October 2000

October 14-18

New Molecular Targets for Cancer Therapy
St. Petersburg Beach, FLContact: Office of Continuing Education, 12902
Magnolia Drive, Tampa, FL 33612; Tel: 813-632-
1775; Fax: 813-979-3874; Email:
seaster@moffitt.usf.edu

October 24-28

10th North American ISSX Meeting
Indianapolis, INContact: ISSX Office, PO Box 3, Cabin John, MD
20818; Fax: 301-983-5357; Email:
nholahan@issx.org; Internet: www.issx.org

October 26-28

Cell Biology and Pathophysiology of Peptide
Hormone Processing, Secretion, and Action
Auckland, New ZealandContact: Peptide Hormone Symposium, 6701
Democracy Blvd., Suite 401, Bethesda, MD 20817;
Tel: 301-493-9674; Fax: 301-530-0634; Email:
sheehy@computercraft-usa.com; Internet:
www.ep.niddk.nih.gov/epconferences.htm**November 2000**

November 1-3

Alternate Methods for Carcinogenicity Testing
Leesburg, VirginiaContact: HESI ACT Workshop, International
Life Sciences Institute, 1126 Sixteenth Street, NW,
Washington, DC 20036-4810; Fax: 202-659-3859;Email: meetings@ilsa.org; Internet: <http://www.ilsa.org>Application/Abstract Deadline: July 17, 2000**December 2000**

December 9-13

40th American Society for Cell Biology Annual
Meeting

San Francisco, CA

Contact: The American Society for Cell Biology,
9650 Rockville Pike, Bethesda, MD 20814-3992;
Tel: 301-530-7153; Fax: 301-530-7139; Email:
ascbinfo@ascb.org; Internet: www.ascb.org/ascb**June 2001**

June 4-7

In Situ and On-Site Bioremediation

San Diego, CA

Contact: The Conference Group, 1989 West Fifth
Avenue Suite 3, Columbus, Ohio 43212-1912;
Tel: 800-783-6338; Fax: 614-488-5747; Email:
conferencegroup@compuserve.com
Abstract Deadline: September 29, 2000**October 2001**

October 7-11

The 6th International ISSX 2001 Meeting
Munich, GermanyContact: ISSX 2001, c/o INTERPLAN,
Albert-Rosshaupter-StraBe 65, 81369 Munchen,
Germany; Fax: +49-89-54 82 34 44; Email: info@i-plan.deAbstract Deadline: July 1, 2001

Transition to Independent Positions (TIP) Program

TIP is a National Institute of Environmental Health Sciences program that provides career development awards of three years support for exceptionally talented postdoctoral investigators to establish their first independent research program at a research intensive institution. Postdoctoral investigators can apply prior to indentifying a permanent position. Eligibility is limited to Postdoctoral scientists with 1.5-6.0 years of postdoctoral training in the areas of basic, clinical, or population-based biomedical research relevent to environmental health sciences. Contact: Michael E. McClure, Ph.D., Organ and System Toxicology Branch, National Institute of Environmental Health Sciences; Tel: 919-541-5327; Fax: 919-541-5064; Email: mm461n@.nih.gov; Internet: <http://www.niehs.nih.gov/dert/rfa.htm>

Applications Due: July 12, 2000

Employment Opportunities

Postdoctoral Positions

Diedre Moire Corporation. Seeking Ph.D. toxicologist responsible for screening and development efforts on the safety evaluation of novel biopharmaceutical products for treatment of CNS disorders and drug delivery polymer products for the treatment of cancer. Candidate needs excellent interpersonal skills and ability to work closely on project team efforts. Contact: Bob Griese, Diedre Moire Corporation; Tel: 609-584-8733 X 235; Fax: 609-584-9575; Email: 915613@candseek.com.

Dynamac Corporation. Seeking a Master or recent Ph.D. toxicologist with a specialization in the field of general and applied toxicology, or a strong background in pathology and/or veterinary medicine to work at the Research Triangle Park Office. Involves office review and evaluation of mammalian toxicological data on pesticides. Send resume with cover letter indicating salary requirement to: Dynamac Corporation, 2275 Research Blvd., Ste. 500 (286-COL), Rockville, MD 20850; Fax: 301-417-9801; Email: hr@dynamac.com.

Eli Lilly and Company has a research associate position available. 5-7 years of academic or industrial experience in Molecular and Cell Biology required. Send CV and names of 3 references to Dr. Gary Krishnan, Senior Scientist, Eli Lilly and Company, 355 East Merrill Street, Drop Code 0434, Indianapolis, IN 46225; Fax: 317-276-1414; Email: Krishnan@lilly.com.

Oregon State University, National Pesticide Telecommunications Network has a faculty research assistant position available. The position requires a minimum of a B.S., with a M.S. strongly preferred, in toxicology, environmental chemistry, biotechnology, agricultural sciences, public health or related field. Fluency in Spanish is desirable. Send an application, CV and names and addresses of three references to: Ms. Laura Boehme, Search Committee, Natl. Pesticide Telecommunications Network, 333 Weniger Hall, Oregon State University, Corvallis, OR 97331-6502; Tel: 541-791-9137.

Boston University, Dept. of Biology. Postdoctoral research positions available to study the role of xenobiotic-activated nuclear receptors and hormone/cytokine-activated JAK/STAT signaling in the control of liver cytochrome P450 gene expression. Send CV, brief

summary of research experience, copies of selected publications, and names of three references to: Dr. David J. Waxman, Professor of Cell and Molecular Biology, Dept. of Biology, Boston University, 5 Cummington St., Boston, MA 02215; Email: djw@bio.bu.edu.

Loyola University Health Systems, Div. of Endocrinology & Metabolism. Seeking candidates for full-time faculty position. Qualifications include Board Certification/Board Eligibility in Internal Medicine as well as in Endocrinology and Metabolism, strong clinical skills, strong interest in teaching, and ability to coordinate expansion of their A.D.A. accredited Diabetes Care Center. Contact or send CV to: Mary Dwyer-Butera, Physician Recruitment, 2160 South First Ave., Maywood, IL 60153; Tel: 1-800-424-4845; Fax: 708-216-3854; Email: mdwyer@luc.edu; Internet: www.luhs.org.

University of Manchester, School of Biological Sciences. Four post-doc positions available in the following categories: IGF and integrin signaling, BAX-regulated apoptosis, protein kinase B and breast cancer, and toxin-induced activation of Bak and Bax. Contact: Catherine Moorhouse; Email: Catherine.Moorhouse@man.ac.uk.

University of Wisconsin. Postdoctoral positions available in the study of the role of antioxidant/electrophile response element driven gene expression in preventing neurodegeneration/neurotoxicity, and in the molecular mechanisms of signaling associated with Ah Receptor action in differentiation carcinogenesis and Cytochrome P450 expression. Candidates must have strong background in molecular or cell biology/biochemistry. Email CV and names of three references to 1) Jeffrey Johnson, jajohnson@pharmacy.wisc.edu, 2) Colin Jefcoate, jefcoate@facstaff.wisc.edu or send to Environmental Health Services Center, University of Wisconsin, B157 Steenbock Library, 550 Babcock Dr., Madison, WI 53706.

NIEHS. Positions available in regulation of gene expression; toxicant activation; toxicity in developing organisms; mechanisms of carcinogenesis; action of toxicants on liver, kidney, gonadal, and immune cells. US citizen or permanent residency required. Send CV, three references and letter stating research interests to: B. Lynn Allen-Hoffmann, Director, Environmental

Toxicology Center, B157 Steenbock Library, 550 Babcock Drive, Madison, WI 53706; Tel: 608-263-4580; Fax: 608-262-5245; Email: uwetox@facstaff.wisc.edu.

University of Washington Post Doctoral Fellow. Requires a PhD in environmental, analytical, or atmospheric chemistry to research organic compounds in particulate air pollution. Appointment is for two years and potentially renewable. Applicants should contact: Dr. Russell Dills, Dept. of Environmental Health, Box 357234, Univ. of Washington, Seattle, WA 98195; Fax: 206-543-9616; Email: deadrat@u.washington.edu.

Texas Heart Institute in Houston is seeking two scientists at the early post-doctoral level for a research fellowship in vascular biology and gene therapy. Contact: Dr. Pierre Zoldhelyi, Director, Wagic Said Molecular Cardiology and Gene Therapy Research Laboratory, Texas Heart Institute, 1101 Bates, MC 2-255, Houston, TX 77030; Tel: 713-791-3187; Fax: 713-791-3080; Email: zoldhelyi@aol.com.

Professorships

University of Prince Edward Island. Assistant professor tenure-track position in Environmental Toxicology. Involves teaching in the first year of the professional curriculum, graduate teaching and development of competitive research program. Contact: Luis A. Bate, Ph.D.; Tel: 902-566-0813; Email: bate@upe.ca.

University of Texas Medical Branch, Dept. of Pharmacology and Toxicology are seeking three tenure-track positions at the Assistant and Associate Professor levels. Applicants must have a doctoral degree, at least two years of completed postdoctoral training, and experience in grant writing. Submit CV, list of publications, concise statement of research accomplishments and future plans, and names and contacts information on three references to: Dr. James Halpert, Professor and Chairman, Dept. of Pharmacology and Toxicology, 301 University Blvd., University of Texas Medical Branch, Galveston, TX 77555-1031.

University of Utah, Dept. of Pharmacology and Toxicology. Associate Professor or Professor level tenure-track position as the director of The Center for Human Toxicology. Must have a Ph.D. and/or M.D. degree. Prior academic experience preferred. Contact: M.R. Franklin, Ph.D., Chair of CHT Director Search Committee, Univ. of Utah, Pharmacology and Toxicology, 30 S 2000 East, RM. 201, Salt Lake City, UT 84112-5820; Email: mfranklin@alanine.pharm.utah.edu.

Risk Assessment Positions

University of Illinois. Tenure track assistant professor position beginning August 15, 2000 in risk assessment/analysis and policy analysis. Candidates must have a PhD, evidence of research potential, and ability to teach courses. Send letter of application describing teaching and research interests, CV, transcripts and names and addresses of three references to Search Committee, Dept. of Environmental Studies, Univ. of Illinois at Springfield, P.O. Box 19243, Springfield, Illinois 62794-9243.

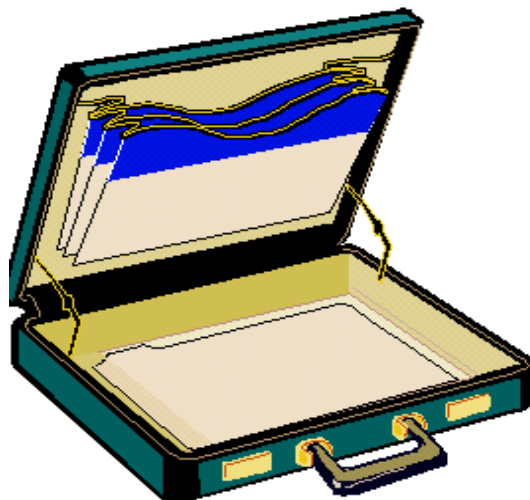
Business Positions

Cerep is seeking a Business Development Manager for Europe to make Cerep the drug discovery partner of choice. Must have a MS or PhD in biochemistry or

organic chemistry with a good understanding of the drug discovery process. At least 4 years of commercial experience in business development or sales, preferably in pharmaceutical research services environment. Send cover letter and CV to Paul-Franck Lagier, Director of Human Resources, Cerep SA, Le Bois l'Évêque-BP1, 86600 Celle l'Évescault, France; Fax: +33 (0) 5 49 89 31 11; Email: pf.lagier@cerep.fr.

Internships

Ethicon, Incorporated, a Johnson and Johnson company, has a position for a full time summer intern. The candidate must be a graduate student with training in toxicology and/or cell biology, and experience in cell culture techniques and fluorescence microscopy. Send a resume to Corporate College Relations, JH123, 501 George Street, New Brunswick, NJ 08906.



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