

Environmental & Molecular Toxicology

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Dept. Of Environmental & Molecular Toxicology Newsletter

2006, Issue 10

October 2006

WELCOME NEW EMPLOYEES



Kaci Agle
NPIC Project
Coordinator



Sudeep Perumbakkam
Res. Associate
PostDoc, Craig Lab



Amy Scanlon
NPIC Pesticide
Specialist



Tom Jones
NPIC Pesticide
Specialist

Kim Sielski
IPPC FRA working
with Mario
Ambrosino

Susan Sukontarak
Part-time Office
Specialist, EMT
Office

GOODBYE AND THANK YOU

Lary Curtis, Professor and Department Head, has left the department. Dr. Curtis was recently promoted to the position of Associate Dean with the College of Agricultural Sciences. His new Campus Mail address is 138F Strand Hall. His telephone number and email address remain the same; 7-1764 and larry.curtis@oregonstate.edu.

Carley Hansen Prince, the NPIC *Interim* Project Coordinator, has left the department to pursue new career opportunities.

Louisa Hooven, a pesticide specialist with NPIC, has left the department. Louisa is now in the Department of Zoology working as a

postdoctoral fellow with Dr. Jadwiga Giebultowich.

ANNOUNCEMENTS:

NPIC



National Pesticide Information Center (NPIC) Receives

Important Visitors! On September 26-27, 2006, NPIC was visited by staff from the Office of Pesticide Programs (OPP) including: Office Director Jim Jones, Associate Director of the Information Technology and

Resources Management Division (ITRMD); Robert Forrest, Chief of the Public Information and Records Integrity Branch Sherry Street, and NPIC Project Officer Frank Davido.

NPIC presented an overview of its services, including specific presentations about Computer Resources, Pesticide Inquiry Database, Active Ingredient Files, General Files, Email Management, and the Training Program. OPP staff listened to specialists responding to calls from the public, and participated in meetings with NPIC staff addressing a variety of current topics.

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BUERMAYER LAB

Two undergraduate Biochemistry and Biophysics students completed a research internships sponsored by URISC and HHMI this summer in the Buermeyer lab. **Andy Nguyen** is a junior and **Guatam Mankaney** is a senior. Both are continuing their Honors College Thesis research in the Buermeyer lab. Guatam was a grand prize winner for his oral presentation at the HHMI symposium.

Stephanie Smith-Roe (recent PhD graduate from the Buermeyer lab) presented a platform talk entitled, "DNA Mismatch Repair-Dependent Apoptotic Responses to the Food-borne Carcinogen 2-amino-1-methyl-6-phenylimidazo [4,5-b] pyridine (PhIP) and 1,2-dimethylhydrazine (DMH) in Murine Colon" at the 37th annual Environmental Mutagen Society Meeting in Vancouver, BC, Canada.

RECENT PUBLICATIONS:

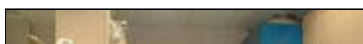
Smith-Roe SL, Lohr CV, Bildfell RJ, Fischer KA, Hegan DC, Glazer PM, Buermeyer AB. Induction of aberrant crypt foci in DNA mismatch repair-deficient mice by the food-borne carcinogen 2-amino-1-methyl-6-phenylimidazo [4,5-b] pyridine (PhIP). *Cancer Lett.* 2006 Nov 28; 244(1): 79-85. Epub 2006 Jan 20. PMID: 16427736 [PubMed - in process]

Gibson SL, Narayanan L, Hegan DC, Buermeyer AB, Liskay RM, Glazer PM.

Overexpression of the DNA mismatch repair factor, PMS2, confers hypermutability and DNA damage tolerance. *Cancer Lett.* 2006 Dec 8 ; 244(2): 195-202. Epub 2006 Jan 19. PMID: 16426742 [PubMed - in process]

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ANDERSON LAB



Kim Anderson has been appointed

to the Society of Environmental Toxicology and Chemistry (SETAC) North American Board of Directors.

Kim Anderson has also been appointed to the Expert Advisory Panel of the Canadian Network of Toxicology Centres Metals in the Human Environment Research Network.

RECENT PUBLICATIONS:



Angela Perez of the Anderson lab recently published the following paper:

Angela L. Perez, Brian W. Smith, and Kim A. Anderson (2006) Stable Isotope and Trace Element Profiling Combined with Classification

Models To Differentiate Geographic Growing Origin for Three Fruits: Effects of Subregion and Variety. J. Agric. Food Chem. 54(13) pp 4506 - 4516.

DASHWOOD LAB



Katherine (Kate) Scherrer of the Dashwood Lab and Matt Cleveland, a graduate student in the



Nuclear Engineering department at OSU studying Computational Methods, were married on June 30, 2006 at the Church of the Resurrection in Tualatin, OR.

KERKVLiet LAB



On Friday, November 10, 2006, the department presented "Immunomodulation and Disease Susceptibility" - A Minisymposium Recognizing 30 Years of Research Together at OSU: Nancy Kerkvliet, Julie Oughton and Linda Steppan. In honor of this special event, the cutting-edge presentations were given by Dr. Rod Prell, Dr. David Shepherd, Dr. Jin-Young Choi, Dr. B. Paige Lawrence, Dr. Erica Dearstyne and Dr. Beth Vorderstrasse - all of

whom are either previous graduate students or postdoctoral fellows of the Kerkvliet Laboratory and all of whom have had the privilege of working with Dr. Nancy Kerkvliet, Julie Oughton and Linda Steppan.

The celebration continued on Saturday, November 11, 2006 with a party held at the Corvallis Country Club. This event was attended by friends, family and colleagues - both past and present - who were treated to hearty hors d'oeuvres, wine, dessert, laughter and a presentation by Dr. Kerkvliet highlighting the 30-year history of research at OSU by this talented and committed team and their many accomplishments.

Congratulations to **all** who have been part of this creative and productive laboratory during the last 30 years!

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WILLIAMS LAB



David Castro of the Williams Lab has been appointed to the SOT Regional Chapter Graduate Committee- PacNW Region.

This summer, **David Castro** of the Williams Lab received *The Carl Storm Underrepresented Minority Fellowship Program award*. With this award, David

was able to attend a Gordon Research Conference: Mechanisms of Toxicity, held in Waterville, Maine. At that conference, David's poster, "(Modulation of Dibenzo[a.]pyrene Transplacental Carcinogenesis by Green Tea:

The Role of EGCG, Caffeine, and the Aryl Hydrocarbon Receptor)" was chosen for a "Late Breaking Research" session in which David gave a presentation. According to Dave, "It was a good conference, minus the humidity."



Abby D. Benninghoff, PhD. of the Williams Lab recently received the following awards:

Nov 2006: **Ruth L. Kirschstein National Research Service Award** (NRSA) for postdoctoral research from the NIEHS for a project titled "Role of

estrogen receptor beta in cancer chemoprevention by indole-3-carbinol"

Oct 2006: **International Society for the Study of Xenobiotics Postdoctoral Research Award** Finalist

Feb 2006: **Society of Toxicology & Colgate/Palmolive Grants for Alternative Research Award**

RECENT PUBLICATIONS:

Vyas PM, Roychowdhury S, Koukouritaki SB, Hines RN, Krueger SK, Williams DE, Nauseef WM, and Svensson CK (2006) Enzyme-mediated protein haptentation of dapsone and sulfamethoxazole in human keratinocytes. - 2. Expression and role of flavin monooxygenases and peroxidases. *J Pharmacol Exper Therap* 319,497-505.

Wang R, Dashwood WM, Bailey GS, Williams DE, Dashwood RH (2006) Tumors from rats given 1,2-dimethylhydrazine plus chlorophyllin or indole-3-carbinol contain transcriptional changes in beta-catenin that are independent of beta-catenin mutation status.

Mutat Res 601, 11-8.

Yu Z, Mahadevan B, Löhr CV, Fischer KA, Louderback MA, Krueger SK, Pereira CB, Albershardt DJ, Baird WM, Bailey GS, and Williams DE (2006) Indole-3-carbinol in the maternal diet provides chemoprotection for the fetus against transplacental carcinogenesis by the polycyclic aromatic hydrocarbon, dibenzo[a,l]pyrene. *Carcinogenesis* 27,2116-2123.

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BAIRD LAB



Lauren Courter obtained a travel award to attend the 37th Annual Meeting of the Environmental Mutagen Society, September 16-20, 06, Vancouver, B.C., Canada. She presented a poster titled "Diesel Exhaust Modifies Gene Expression and the Genotoxic Response by Benzo[a]pyrene and

Dibenzo[a,l]pyrene".

Lauren Courter participated at the PANWAT meeting with a platform presentation titled "Urban Dust Particulate Matter Alters PAH-Induced Carcinogenesis by Inhibition of CYP1A1 and CYP1B1". Pacific Northwest Association of Toxicologists 6th Annual Meeting, Missoula, MT.

Lauren's very first, first author publication in Toxicological sciences is now available (Epub ahead of print) See details below.



Brinda Mahadevan gave a Platform presentation on "Bulky DNA-adduct repair enzymes in early development of zebrafish (*Danio rerio*)" at the annual meeting of the Environmental Mutagen Society, Vancouver B.C, Canada, 2006.

Brinda Mahadevan presented a conference call symposia titled "Reduction in tamoxifen-induced CYP3A2 expression and DNA adducts using antisense technology" hosted by the Affymetrix microarray bulletin, Affymetrix, CA, August 24, 06.

RECENT PUBLICATIONS:

Courter, LA, Musafia-Jeknic T, Fischer K, Bildfell R, Giovanini J, Pereira C, and Baird, WM. (2006) Urban Dust Particulate Matter Alters PAH-Induced Carcinogenesis by Inhibition of CYP1A1 and CYP1B1. *Toxicol Sci.* Oct 23; [Epub ahead of print] PMID: 17060372 [PubMed - as supplied by publisher]

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TANGUAY LAB

GRANTS RECEIVED:

The Tanguay group received a **Medical Research Foundation Award** titled "Small molecule screening to unravel pathways controlling tissue regeneration".

The Tanguay group received an **EPA-STAR award** titled "In vivo model to assess the toxic potential of engineered nanomaterials"

The Tanguay group and Maret Traber (Linus Pauling Institute, LPI) received a **LPI pilot project award** titled "Vitamin E Functions

assessed in zebrafish"

The Tanguay group and the Kim Anderson group received a **pilot project award** titled "Biological Response Indicator Devices for Gauging Environmental Stressors (BRIDGES)"

AWARDS:



Lijoy Mathew won the **best student poster at the 2006 PANWAT** meeting in Missoula Montana for his poster entitled "AHR Activation Alters Molecular Signaling during Tissue Regeneration".

RECENT PUBLICATIONS:

Andreasen, E.A., Mathew, L., Lohr, C.V., Hasson, R., and Tanguay, R.L. AHR activation impairs extracellular matrix remodeling during tissue regeneration. (In Press Toxicol. Sci.)

Reimers, M. J., La Du, J. K., Periera, C. B., Giovanini, J., and Tanguay, R. L. (2006). Ethanol-Dependent Toxicity in Zebrafish is Partially Attenuated by Antioxidants. Neurotoxicol Teratol 28, 497-508

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TURKER LAB



Amy Skinner of the Turker Laboratory (CROET/OHSU) successfully defended her PhD thesis entitled "'Factors Contributing to the Formation of CC→TT Tandem Mutations" on Friday, October 13th, 2006.

Amy now has a Post Doctoral position in the Pediatric Hematology/ Oncology Dept. at Doernbecher Children's Hospital (OHSU).

Amy also just submitted an abstract for the Western Society of Pediatric Research and won a '**Young Scholar**' award.

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SIMONICH LAB

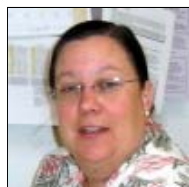
AWARD:

Dr. Staci L. Simonich has been selected by the College of Ag Sciences as the recipient of the **2006 Savery Young Faculty Award**. The award was presented to Staci during the College of Ag Sciences Faculty and Staff Day luncheon, November 16, 2006. **Congratulations Staci!**



OTHER NEWS

Ian Tinsley, Professor Emeritus and former Department Head was honored by the College of Ag Sciences by being **named to the 2006 class of Diamond Pioneers**. The Diamond Pioneer Agricultural Achievement Registry started 23 years ago when the College of Ag Sciences celebrated its 75th anniversary. This registry recognizes the achievements of innovative agricultural producers, community leaders, educators, authors and research scientists who are 75 and older.



Louisa Hooven, most recently of NPIC and formerly of the Baird laboratory, has received a **Ruth L. Kirchstein National Research Service Award** from the NIEHS and is now working as a postdoctoral fellow in the Department of Zoology with Dr. Jadwiga Giebultowicz. Louisa will be studying how the toxicological response to pyrethroids varies with circadian time in *Drosophila*.

Past Issues

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If there is any information that YOU would like to include in the next newsletter, which is scheduled for January 1, 2007, please e-mail [JayLene](#).



Department of Environmental and Molecular Toxicology,
1007 Agriculture and Life Sciences Building
Oregon State University, Corvallis, OR 97331
Contact us with your comments and questions | 541-737-3791
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