

Curriculum Vitae

NAME: Edward Michael Mills, Ph.D., Assistant Professor

ADDRESS: The University of Texas at Austin
College of Pharmacy
Division of Pharmacology and Toxicology
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1 University Station, A1915
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DEGREES: B.A., Ph.D.

PRIMARY APPOINTMENTS

2003-2004 **National Institutes of Health, National Heart, Lung, and Blood Institute,**
Bethesda, MD
Cardiology Branch
Research Fellow

2004-present **The University of Texas At Austin, Austin, Texas**
College of Pharmacy, Division of Pharmacology and Toxicology
Assistant Professor

ADJUNCT APPOINTMENTS

2007-present **Fudan University, Shanghai, China**
School Of Life Sciences
Assistant Professor (Adjunct)

EDUCATION

1987 **Franklin College, Franklin, IN**
Bachelor of Arts, Double Major Biology, Psychology
Honors: Dean's List; 1987 - 1991

1991-1997 **Purdue University, College of Pharmacy, West Lafayette, IN**
Department of Pharmacology and Toxicology
Doctor of Philosophy in Pharmacology and Toxicology
Thesis: "*Mechanisms of Cyanide Neurotoxicity: A Role for Programmed Cell Death*"

1997-1999 **National Institutes of Health, National Institute of Child Health And Human Development, Bethesda, MD**

Section on Growth Factors
Postdoctoral Fellow, Pharmacology Research and Associate in Training Fellow
Mentor: the late Gordon Guroff, Ph.D.

1999-2003 **National Institutes of Health, National Heart, Lung and Blood
Institute**, Bethesda, MD
Cardiology Branch
Laboratory of Molecular Biology
Postdoctoral Fellow
Mentor: Toren Finkel, M.D. / Ph.D.

AWARDS & HONORS

1987 Presidential Scholarship, Franklin College

1991-1997 National Defense Science and Engineering Fellowship, Purdue University

1995 Albert and Kienly Award for Excellence in Teaching, Purdue University

1997-1999 Pharmacology Research Associate in Training Fellow, National Institutes of
Health

2005 Research Starter Grant in Pharmacology and Toxicology, Pharmaceutical
Research and Manufacturers of America

2005-present Clinical Research and Health Disparities Research Scholar, National Institutes of
Health

PROFESSIONAL SOCIETIES (Full Membership)

1994-present Society of Toxicology

2004-present American Society for Pharmacology and Experimental Therapeutics

2005-present American Association for the Advancement of Science

2005-present Gulf Coast Society of Toxicology

2005-present The Biochemical Society

2006-present American Association for Cancer Research

SCHOLARLY REVIEW

Ad hoc review:

2005-present *Journal of Biological Chemistry*
American Journal of Physiology
Journal of Pharmacology and Experimental Therapeutics
Biochemistry Journal
Brain Research
Muscle and Nerve
Biochemical Pharmacology
Chemico-Biological Interactions
Society for Experimental Biology and Medicine
Toxicology Letters

Editorial review:

2006-present Member, Editorial Advisory Board, *The Biochemical Journal*

Grant Review:

2005-present Member, Peer Review Committee, Basic Cellular and Molecular Biology, American Heart Association

2006-present Member, Peer Review Committee, Clinical Research and Health Disparities Loan Repayment Program, National Institutes of Health

SERVICE

The University of Texas at Austin:

2006 Lecturer, The University of Texas at Austin and MD Anderson Office of Medical Education Continuing Education Program

2009 Reviewer, Office of Sponsored Projects Limited Submissions Grants

College of Pharmacy:

2004-present Member, Center for Molecular and Cellular Toxicology (CMCT)

2004-2006 Mentor, UTEP Pharmacy Scholars Program

2004-present Participant, graduate student recruitment and interviews

2005-2007 Mentor and Participant, Multicultural Health Research Program, Hispanic Center of Excellence

- 2005-2008 Member, Toxicology Faculty Recruitment Committee, Division of Pharmacology and Toxicology
- 2006 Coordinator, Toxicology Seminar Series
- 2006-present Member, Center for Molecular and Cellular Toxicology
- 2006-present Member, Library Services Committee
- 2006-2007 Faculty Facilitator, Clinical Therapeutics Lab
- 2006-2007 Faculty Facilitator, Clinical Therapeutics Lab
- 2007-present Patient Case Study, PHR 281U, Host Debra Lopez
- 2007-2008 Mentor, UT College of Pharmacy Pharm.D. Scholars Program
- 2008-present Coordinator, Graduate Recruitment, Division of Pharmacology and Toxicology.
- From 2008 to 2009 graduate recruitment increased 6-fold in the Pharmacology and Toxicology Division.*
- 2009-present Member, Honors Program – Pharm.D./Ph.D. Oversight Committee
- 2009-present Member, Pharm.D. Admissions Committee
- 2009-present Member, Pharm.D. Professional Development Convocation Committee

College of Pharmacy / M.D. Anderson:

- 2008-present Member, The Center for Research on Environmental Disease, a jointly funded NIEHS Center between the MD Anderson Cancer Center, Science Park Research Division and The University of Texas at Austin, College of Pharmacy.

College of Natural Sciences:

- 2004-present Member, Graduate Studies Committee, Institute for Cell and Molecular Biology (ICMB)
- 2004-present Participant, graduate student recruitment and interviews, ICMB

Professional Societies:

- 2007-present Councilor, Gulf Coast Regional Chapter of the Society of Toxicology

- 2007-2009 Member, Organizing Committee, Third International Symposium on Physiology and Pharmacology of Temperature Regulation. Matsue, Japan (meeting July 22-26, 2009)
- 2009 Member, Organizing Committee, Gulf Coast Regional Chapter of the Society of Toxicology
- 2009 Author / Chairperson, “Mitochondrial metabolism and iatrogenic hyperthermia” to be presented at the Society of Toxicology (SOT) 2010 Annual Meeting. Salt Lake City, Utah. Proposal provisionally accepted by SOT review. Acceptance letter from the Society is included in supplemental material section “Service”

Community Service:

- 2006 Lecturer, UT / MD Anderson Continuing Education Series. Host: Don Cook, Director of the Office of Medical Education, MD Anderson, Bastrop, Texas
- 2007-2008 Volunteer, Juvenile Diabetes Research Association annual “Walk to Cure Diabetes”

Professional Enrichment Activities:

- 2004 Participant, UT Center for Teaching Effectiveness, “New Faculty Welcome Week” program
- 2004-2005 Participant, Office of Sponsored Projects, “Grant Writing Workshop”. This was a year long course that contributed to the successful funding of my NIH R21 grant (PI: Mills)
- 2008 Attendee, UT College of Pharmacy Teaching Conversations
- 2008 Participant, UT College of Pharmacy Formative Teaching Review, Reviewer: Dr. Pat Davis
- 2008-2009 Participant, UT College of Pharmacy Faculty Mentorship Program, Mentors: Dr. Carlton Erickson and Dr. Rick Morrisett
- 2009 Participant, UT Center for Teaching Effectiveness peer review program. Reviewer: Dr. Karron Lewis. Dr. Lewis provided significant insights into areas of strengths during my lectures and suggested specific ways in which aspects of my lecture style could be improved for greater learning effectiveness. Presentation by Dr. Lynn Jones-Eaton, Host: Dr. Pat Davis
- 2009 Participant, Division of Instructional Innovation and Assessment / UT College of Pharmacy Peer Review Workshop (July 9th). This workshop provided specific

training and guidelines regarding the formal peer review process in the college. It also provided knowledge of classical peer review rubric of the peer review process for the optimal evaluation of faculty colleagues teaching skills and effectiveness

TEACHING:

Courses Taught:

Undergraduate / Pharm.D.

2005-present	PHR 375EG, Pharmacotherapeutics, Diabetes modules (2.0 h)
2005-present	PHR 396F, Pharmacogenomics, Maturity Onset Diabetes of the Young, Diabetes Pharmacogenetics (1.5 h)
2007-present	PHR 375EG, Pharmacotherapeutics, Contraceptives, growth hormone, thyroid hormone modules (6.0 h)

Graduate

2004-present	PHR 384K, Fundamentals of Toxicology, Club Drugs (3.0 h)
2004- present	PHR 380N, Biomedical Pharmacology, Diabetes, Insulin Resistance, Anti-fungals (5 x 1.5h)
2005-2006	PHR 380N, Course Coordinator.
2005	MOL 190, facilitated / graded weekly student journal article presentations (12 h)
2005-2008	PHR390F, Methods in Toxicology, (3.0 h)
2005-present	PHR 390N, Biochemical and Molecular Toxicology, Mitochondrial toxicants, oxidative stress (4.5 h)
2008- present	PHR384K, Fundamentals of Toxicology, Neurotoxicology (4.5 hr)
2008-present	PHR 384K, Fundamentals of Toxicology, <u>Course Coordinator</u>
2008-present	PHR 185D, The Responsible Conduct of Science, lecture on peer review (1 h)

Students Supervised:

Postdoctoral Fellows

2004-2005 Xianmei Yang, Ph.D.
Current Position: Assistant Professor, Fudan University, Shanghai, China

Visiting Scholars

2009-2011 Katsuya Hirasaka, Ph.D. (*fully funded by the government of Japan*)
Assistant Professor, Tokushima University, Tokushima, Japan

Graduate Students (* in candidacy, ¥ graduate)

Doctoral Degree

2004-2009	¥ Cory (Ungles) Lago, Ph.D.	Cellular and Molecular Biology
2004-present	* Ellen Abramson	Cellular and Molecular Biology
2005-present	* Matthew Pfeiffer	Pharmacology / Toxicology
2005-present	* M. Alexander Kenaston	Pharmacology / Toxicology
2008-present	Sara Holdwick	Pharmacology / Toxicology
2009-present	Christine Dao	Pharmacology / Toxicology

Undergraduate and Pharm.D. Students

College of Pharmacy Hispanic Center of Excellence Trainees:

2006 Joey Garza
2006 Eric Contreras

College of Pharmacy Honors Program:

2006 Eric Zinsmeyer

Student Volunteers:

2005-2007 Sarah Wu (High School, Biology)
2006-2007 Sarah Wang (Pre Med)
2007-2008 Katherine Smith (Biology)
2008-present Bora Shin (Pre Med)
2008-present Bonny Su (Pre Med)
2008-2009 Mia Han (Pre Pharmacy)
2009-present Jessica Delaisse (Pre Med)
2009-present Ty Terrasso (Pre Med)

Student Committees:

*Doctoral Thesis Committees (*denotes chair of committee)*

2006	Elena Reveron, Ph.D.	Pharmacology / Toxicology
2007	Manoranjan D'Souza, Ph.D.	Pharmacology / Toxicology
2007	Madhavi Challah, Ph.D.	Cellular & Molecular Biology
2008	Weiling Yin, Ph.D.	Pharmacology / Toxicology
2008	Tara Rasmussen, Ph.D.	Cellular & Molecular Biology
2008	Elaine Ellerton, Ph.D.	Neuroscience
2008	Qiwei Paulson, Ph.D.	Pharmacology / Toxicology
2009	InOk Surh, Ph.D.	Pharmacology / Toxicology
2009	Youngeun Choi, Ph.D.	Pharmacology / Toxicology
2009	Shreya Mitra, Ph.D.	Pharmacology / Toxicology
2009	Cory Ungles Lago, Ph.D.*	Cellular & Molecular Biology
pending	Jina Hong	Nutrition
pending	Srinivas Malladi	Cellular & Molecular Biology
pending	Indra Mahajan	Pharmacology / Toxicology
pending	Jae Kyoung Son	Pharmacology / Toxicology
pending	Ellen Abramson *	Cellular & Molecular Biology
pending	Alexander Kenaston *	Pharmacology / Toxicology
pending	Matthew Pfeiffer *	Pharmacology / Toxicology
pending	Sara Holdwick *	Pharmacology / Toxicology

Student Awards: *(under my direct supervision)*

High School Volunteers:

2006 Sara Wu, Semifinalist, Intel Young Scientist Talent Search (National)

Graduate Students:

2009 Alexander Kenaston, Professional Development Award, The University of Texas At Austin

2009 Alexander Kenaston, B. Bernard Matthews Endowed Scholarship in Pharmacy, University of Texas at Austin

2008-2009 Sara Holdwick, Graduate Recruitment Fellowship, The University of Texas at Austin

2008 Alexander Kenaston, Graduate Dean's Prestigious Fellowship, University of Texas at Austin

2008 Cory Ungles, Teaching Excellence Award, The University of Texas at Austin

- 2008 Cory Ungles, Professional Development Award, The University of Texas at Austin
- 2008-2010 Alexander Kenaston, National Research Service Awardee (F31), Predoctoral five year grant from the National Institutes of Health 5 F31 DK079371-02
- 2008-2009 Matthew Pfeiffer, Predoctoral Toxicology Training Fellowship, Toxicology Training Grant, National Institutes of Environmental Health Sciences, National Institutes of Health 2T32ES007247-18 (Richburg, J PI)
- 2006-2007 Alexander Kenaston, Johnson & Johnson Graduate Fellowship in Pharmacy, Johnson & Johnson Pharmaceuticals
- 2005-2006 Alexander Kenaston, Graduate Recruitment Fellowship, University of Texas at Austin

RESEARCH

Peer Reviewed Publications:

1. **Mills E. M.** and Isom G. E. (1996) Chemical hypoxia-induced apoptosis and oxidative stress in differentiated PC12 cells. *Journal of Neurochemistry* 67(3): 1039-1046.
Journal Impact Factor: 4.5
2. Kanthasamy A. G., Ardelt B. K., **Mills E. M.**, Borowitz J. L., and Isom G. E. (1997). Reactive oxygen species generated by cyanide mediate toxicity in rat pheochromocytoma cells. *Toxicology Letters* 93 (1): 47-54.
Journal Impact Factor: 3.3
3. Bojes H. K., Suresh P. K., **Mills E. M.**, Spitz D. R., Sim J. E., and Kehrer J. P. (1998) Bcl-2 and Bcl-x-L in peroxide-resistant A549 and U87MG cells. *Toxicological Sciences* 42 (2): 109-116.
Journal Impact Factor: 4.4
4. **Mills E. M.**, Takeda K., Yu Z-X., Ferrans V., Katagiri Y., Jiang H., Lavigne M. C., Leto T. L., and Guroff G. (1998) Nerve growth factor treatment prevents the increase in superoxide produced by epidermal growth factor in PC12 cells. Rapid Communication: *Journal of Biological Chemistry* 273: 22165-22168.
Journal Impact Factor: 5.5

5. **Mills E. M.**, Gunasekar P. G., Li L., Borowitz J. L., and Isom G. E. (1999) Differential susceptibility of brain areas to cyanide involves different modes of cell death. *Toxicology and Applied Pharmacology* 156: 6-16.

Journal Impact Factor: 3.4

6. **Mills E. M.**, Fergusson, M., Combs, C.A., Xu, Y., and Finkel, T. (2002) Regulation of cellular oncosis by uncoupling protein-2. *Journal of Biological Chemistry* 277(30): 27385-27392.

Journal Impact Factor: 5.5

7. Sprague J. E., Banks M. L., Cook V. J., and **Mills, E. M.** (2003) Role of the hypothalamic-pituitary-thyroid (HPT) axis in hyperthermia and neurotoxicity produced by ecstasy (3,4-methylenedioxymethamphetamine). *Journal of Pharmacology and Experimental Therapeutics* 305(1): 159-66.

Journal Impact Factor: 4.3

8. **Mills E. M.**, Banks M. L., Sprague J. E., Finkel T. (2003) Uncoupling the agony from Ecstasy. *Nature* 426: 403-404.

Journal Impact Factor: 29.6

9. Sprague J.E., Brutcher R.E., **Mills E. M.**, Caden D., Rusyniak D.E. (2004) Attenuation of 3,4-methylenedioxymethamphetamine (ecstasy)-induced rhabdomyolysis with alpha1 plus beta3-adrenoceptor antagonists. *British Journal of Pharmacology* 142(4): 667-670.

Journal Impact Factor: 4.9

10. Sprague J. E., Smith R. M., Gibbs J., Liu J., Kisor D. F., **Mills E. M.** (2004) UCP3 and thyroid hormone involvement in methamphetamine-induced hyperthermia. *Biochemical Pharmacology* 68(7): 1339-1343.

Journal Impact Factor: 4.9

11. Rusyniak D. E., Banks M. L., **Mills E. M.**, Sprague J. E. (2004) Dantrolene use in MDMA (Ecstasy) mediated hyperthermia. *Anesthesiology* 101(1): 263-264.

Journal Impact Factor: 5.1

12. **(Invited Review) Mills E. M.**, Rusyniak D. E., Sprague J. E. (2004) Role of uncoupling proteins in sympathomimetic-induced hyperthermia: a focus on 3,4-methylenedioxymethamphetamine (MDMA, Ecstasy). *Journal of Molecular Medicine* 82(12): 787-799.

Journal Impact Factor: 4.37

13. Sprague J. E., Moze P., Caden D., Rusyniak D. E., **Mills E. M.** (2005) Carvedilol rapidly reverses hyperthermia and attenuates rhabdomyolysis induced by 3,4-methylenedioxymethamphetamine (MDMA, Ecstasy) *Critical Care Medicine* 33(6): 1311-1316.

Journal Impact Factor: 6.6

14. Li L., Prabhakaran K., **Mills E. M.**, Borowitz J. L., Isom G. E. (2005) Enhancement of Cyanide-induced Mitochondrial Dysfunction and Cortical Cell Necrosis by Uncoupling Protein-2. *Toxicological Sciences* 86(1): 116-124.

Journal Impact Factor: 4.4

15. Rusyniak D.E., Tandy S. L., Hekmatyar N. S., **Mills E. M.**, Smith D. J., Bansal N., Sprague J. E. (2005) Role of mitochondrial uncoupling in MDMA-mediated skeletal muscle hyperthermia and rhabdomyolysis. *Journal of Pharmacology and Experimental Therapeutics* 313(2): 629-639.

Journal Impact Factor: 4.3

16. K. Prabhakaran, L. Li, **E.M. Mills**, J.L. Borowitz, Isom G.E. (2005) Up-regulation of UCP-2 by cyanide is linked with cytotoxicity in mesencephalic cells. *Journal of Pharmacology and Experimental Therapeutics* 314(3): 1338-1345.

Journal Impact Factor: 4.3

17. Sprague J.E., Yang X., Summers J., Gilman T., and **Mills E.M.** (2007) Roles of norepinephrine, free fatty acids, thyroid status and skeletal muscle uncoupling protein 3 expression in sympathomimetic-induced thermogenesis. *Journal of Pharmacology and Experimental Therapeutics* 320(1): 274-80.

Journal Impact Factor: 4.3

18. **Edward M. Mills**, Kara L. Weaver, Ellen Abramson, Matthew Pfeiffer, and Jon E. Sprague (2007). Influences of dietary fats on Ecstasy-induced hyperthermia. *British Journal of Pharmacology* 151(7): 1103-1108.

Journal Impact Factor: 4.9

19. Hang Wang, Yasuhiro Katagiri, Thomas McCann, Zu-Xi Yu, Fei Tan, Edward Unsworth, Paul Goldsmith, **Edward M. Mills**, Yu Wang, , Aviva J. Symes, and Herbert M. Geller (2008) 4-sulfation of chondroitin is essential for inhibition of axonal growth. *Journal of Cell Science* 121(18): 3083-3091.

Journal Impact Factor: 6.2

20. Richard P Wyeth, **Edward M. Mills**, Tracy Ulman, Alexander Kenaston, Johanna Burwell, and Jon E. Sprague. (2009) The hyperthermia mediated by 3,4-methylenedioxymethamphetamine (MDMA, Ecstasy) is gender sensitive. *Toxicology and Applied Pharmacology* 235(1): 33-38.

Journal Impact Factor: 3.4

21. Matthew Banks, Candice Gehret, Sarah Buzard, Alexander Kenaston, **Edward M. Mills**, Jon E. Sprague. (2009) Pharmacodynamic characterization of insulin on MDMA-induced thermogenesis. *European Journal of Pharmacology* 615(1-3) 257-61.

Journal Impact Factor: 2.8

22. Nikawa T., Hirasaka K., Ishidoh K., Ikemoto M., Kano M., Nonaka I., Ogawa T., Yasui N., Yasutomo K., Adams G. R., Baldwin K. M., Kominami H., Inazu T., Gu H., Takeda S., **Mills E. M.**, Kishi K. (2009) The ubiquitin ligase Cbl-b is a master regulator of skeletal muscle atrophy during muscle unloading. *Molecular and Cellular Biology* (In Press).

Journal Impact Factor: 6.0

23. Cory U. Lago, Joyce E. Rundhaug, Matthew Pfeiffer, Xianmei Yang, Shawn B. Bratton, Renata Colavitti, Carol Trempus, Rebecca Morris, Susan M. Fischer, and **Edward M. Mills**. (2009) Mitochondrial uncoupling protein 3 blocks skin carcinogenesis and promotes keratinocyte differentiation. (*Peer Reviewed at Cancer Research, June, 2009, under revision for August, 2009 resubmission*).

** reviewers' comments are provided in Supplemental Materials **

Journal Impact Factor: 7.5

24. Matthew Pfeiffer, E. Bernhard Kayser, Xianmei Yang, Ellen Abramson, Cory Ungles, Christopher McLeod, Charles Hoppel, Philip Morgan, Adam Lunceford, Catherine Clark, Toren Finkel, and **Edward M. Mills** (2009) *Caenorhabditis elegans* uncoupling protein 4 is indispensable for mitochondrial complex II-mediated respiration and survival. (*in final preparation for Cell Metabolism*)

Journal Impact Factor: 18.0

25. M. Alexander Kenaston, Katsuya Hirasaka, Sook Young, Takeshi Nikawa, **Edward M. Mills** (2009) Biochemical and functional interactions between mitochondrial Dienoyl CoA Isomerase and uncoupling protein 3. (*in final preparation for Journal of Biological Chemistry*)

Journal Impact Factor: 5.5

26. Ellen M. Abramson and Edward M. Mills (2009) The orphan nuclear receptor NGFI-B regulates mitochondrial respiration and membrane potential in skeletal myoblasts. (*In preparation for Molecular Endocrinology*)

Journal Impact Factor: 18.0

Book Chapters:

1. M. Alexander Kenaston, Matthew Pfeiffer, Ellen Abramson and **Edward M. Mills**. Skeletal Muscle Toxicology. *General and Applied Toxicology*. 3rd Edition. John Wiley and Sons. In Press, May 2009

International Invited Lectures:

- 11/2006 Tokushima University, Tokushima, Japan, School of Medicine Seminar Series. “Uncoupling the old from the new – a novel mechanism by which skeletal muscle generates heat”, *Host: Professor Takeshi Nikawa, Ph.D.*

National Invited Lectures:

- 1/2005 School of Pharmacy, Ohio Northern University. Novel Biological Functions of the Mitochondrial Uncoupling Proteins, *Host Jon Sprague, Ph.D.*
- 4/2005 National Institutes of Health, National Heart, Lung and Blood Institute Postdoctoral Fellows Retreat, St. Michael’s, Maryland. NIH/NHLBI. From Bench to Grantside, *Host: Herbert Geller, Ph.D.*
- 8/2005 Center for Hispanic Excellence, The University of Texas at Austin College of Pharmacy. Role of Uncoupling Protein 3 in Ecstasy-induced hyperthermia. *Hosts: Dr. Rueben Gonzales, Ph.D. and Cliff Littlefield, Pharm.D.*
- 8/2005 Waggoner Center, The University of Texas at Austin. Uncoupling the Agony and the Ecstasy. *Host: Adron Harris, Ph.D.*
- 1/2006 MD Anderson Continuing Education Series, The University of Texas at Austin, and MD Anderson, Smithville, Texas. Nutrition and Energy Balance: Recipe for a long fit life. *Host: Don Cook*
- 5/2006 Laboratory of Cell Signaling, National Heart Lung and Blood Institute, National Institutes of Health, Bethesda, MD. Role of uncoupling proteins and mitochondrial metabolism in fatty acid disposal and thermoregulation. *Host: Fujio Sekiya, Ph.D.*
- 2/2007 Developmental Genetics Laboratory, The University of Texas at Austin. Regulation of energy metabolism in the nematode *C. elegans*. *Host: Jeff Gross, Ph.D.*
- 11/2007 Skin Interest Group, MD Anderson Cancer Center, Smithville, Texas. Epidermal mitochondrial uncoupling blocks skin carcinogenesis and promotes stem cell differentiation. *Host. Joyce Rundhaug, Ph.D.*

10/2008 Center for Research on Environmental Diseases Symposium MD Anderson Cancer Center, October 23-24, 2008, Round Top, Texas. Energizing the Warburg effect and prevention of skin carcinogenesis with uncoupled mitochondrial respiration. *Host: John DiGiovanni, Ph.D.*

International Meeting Presentations / Abstracts:

6/2008 Cory U. Lago, Joyce E. Rundhaug, Matthew Pfeiffer, Xianmei Yang, Shawn B. Bratton, Renata Colavitti, Carol Trempus, Rebecca Morris, Susan M. Fischer, **Edward M. Mills.** Mitochondrial uncoupling protein 3 induces epidermal stem cell differentiation and blocks skin carcinogenesis. The Beatson Society for Cancer Research, Glasgow, Scotland.

7/2009 Kenaston MA, Sprague JE, **Mills EM.** Molecular genetics of drug-induced thermogenic responses: A critical role for mitochondrial uncoupling protein 3. *The 3rd International Symposium on Physiology and Pharmacology of Temperature Regulation.* Matsue, Japan July 23-26, 2009.

National Meeting Presentations / Abstracts:

10/2007 Matthew Pfeiffer, Ellen Abramson, Xianmei Yang, E. Bernhard Kayser, Charles Hoppel, Philip Morgan, Adam Lunceford, Catherine Clark, Toren Finkel, and **Edward M. Mills.** *C. elegans* uncoupling protein regulates energy balance and mitochondrial succinate transport. Annual meeting of the *Gulf Coast Society of Toxicology.* College Station, Texas.

2/2008 Cory U. Lago, Joyce E. Rundhaug, Matthew Pfeiffer, Xianmei Yang, Shawn B. Bratton, Renata Colavitti, Carol Trempus, Rebecca Morris, Susan M. Fischer, **Edward M. Mills.** Mitochondrial Uncoupling Protein 3 Induces Epidermal Stem Cell Differentiation and Blocks Skin Carcinogenesis. *American Association for Cancer Research* special conference: "The Role of Cancer Stem Cells in the Initiation and Propagation of Tumorigenesis", Los Angeles, California.

3/2009 Matthew Pfeiffer, Ellen Abramson, Xianmei Yang, E. Bernhard Kayser, Charles Hoppel, Philip Morgan, Adam Lunceford, Catherine Clark, Toren Finkel, and **Edward M. Mills.** *C. elegans* mitochondrial uncoupling protein 4: role in redox balance, aging, and mitochondrial substrate utilization. *Annual meeting of the Society of Toxicology.* Baltimore, Maryland.

4/2009 Cory U. Lago, Joyce E. Rundhaug, Matthew Pfeiffer, Xianmei Yang, Shawn B. Bratton, Renata Colavitti, Carol Trempus, Rebecca Morris, Susan M. Fischer, **Edward M. Mills.** Mitochondrial uncoupling protein 3 blocks skin carcinogenesis and drives cellular differentiation. *Symposia on Cancer Research;* MD Anderson Cancer Center, Houston, Texas.

Local Meeting Presentations / Abstracts:

- 4/2008 Cory U. Lago, Joyce E. Rundhaug, Matthew Pfeiffer, Xianmei Yang, Shawn B. Bratton, Renata Colavitti, Carol Trempus, Rebecca Morris, Susan M. Fischer, **Edward M. Mills**. Mitochondrial uncoupling protein 3 induces epidermal stem cell differentiation and blocks skin carcinogenesis. *Fourth Annual Louis C. Littlefield Celebrating Pharmacy Research Excellence Day in Professional, Graduate and Postgraduate Programs*, College of Pharmacy, The University of Texas at Austin, Austin, TX.
- 4/2008 Matthew Pfeiffer, Ellen Abramson, Xianmei Yang, E. Bernhard Kayser, Charles Hoppel, Philip Morgan, Adam Lunceford, Catherine Clark, Toren Finkel, and **Edward M. Mills**. C. elegans UCP4, a mitochondrial succinic acid transporter? *Fourth Annual Louis C. Littlefield Celebrating Pharmacy Research Excellence Day in Professional, Graduate and Postgraduate Programs*, The University of Texas at Austin, Austin, TX.
- 4/2009 Kenaston MA, Pfeiffer ME, Hirasaka K, Shin B, Lu Z, Sack MN, Sprague JE, **Mills EM**. Molecular genetics of drug-induced thermogenic responses: A critical role for mitochondrial uncoupling protein 3. *Fourth Annual Louis C. Littlefield Celebrating Pharmacy Research Excellence Day in Professional, Graduate and Postgraduate Programs*, The University of Texas, Austin, TX.
- 4/2009 Matthew Pfeiffer, Ellen Abramson, Xianmei Yang, E. Bernhard Kayser, Charles Hoppel, Philip Morgan, Adam Lunceford, Catherine Clark, Toren Finkel, and **Edward M. Mills**. Uncoupling protein regulates the balance between complex I and complex II utilization in C. elegans. *Fourth Annual Louis C. Littlefield Celebrating Pharmacy Research Excellence Day in Professional, Graduate and Postgraduate Programs*. The University of Texas at Austin, Austin, TX.