

SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY

In recognition of distinguished toxicologists and students, SOT presents Honorary Membership and Awards each year. In addition to receiving a plaque, recipients are honored at a special Awards Ceremony at the SOT Annual Meeting and their names are listed in SOT publications. The deadline for 2013 Honorary Membership and Award nominations is October 9, 2012.

SOT Council reviews nominations for Honorary Membership and the Awards Committee reviews applications for SOT Awards and most Sponsored Awards. Awards Committee members are not eligible to receive any awards conferred by the Committee while serving on the Committee and for one subsequent year.

The Best Paper Awards in *Toxicological Sciences* are reviewed by the Board of Publications. The Education Committee selects the recipients of the Pfizer Undergraduate Travel Award and the Committee on Diversity Initiatives selects the recipients of other undergraduate student awards. The Postdoctoral Assembly selects those receiving the Best Postdoctoral Publication Awards and the Student Advisory Council selects the recipients of the Outstanding Leadership Award. Nominees for the Congressional Science Leadership Award are reviewed and recommended by the Communications Committee and approved by Council.

Nominations for many awards must be submitted by a sponsor and a seconder who are Full members of SOT using the online Award Nomination form. The supporting documentation must indicate the candidate's achievements in toxicology and is critical in the review of each application. See the award description for the additional requirements and details. There are specific applications for Fellowships and Graduate Student Travel Support.

Other graduate student and postdoctoral fellow awards are available through Regional Chapters, Special Interest Groups, and Specialty Sections (many of these awards are funded through the various Named Endowment Funds). A student or postdoctoral scholar may apply for any award for which he or she is eligible and may apply for and receive multiple awards, whether SOT, Regional Chapters, Special Interest Groups, or Specialty Sections administrators the awards. Policies related to travel support are determined by the sponsor (SOT, Regional Chapter, Special Interest Group, or Specialty Section). **A Student may only receive one SOT national travel award.**

Full descriptions of all current awards, awards no longer being offered, application procedures, and names of past recipients can be found on the "Awards and Fellowships" section of the SOT website at www.toxicology.org.

SOT HONOR DESCRIPTIONS



HONORARY MEMBERSHIP

The Society of Toxicology recognizes nonmembers who embody outstanding and sustained achievements in the field of toxicology with Honorary Membership. Candidates are nominated by two Full or Associate members of the Society. Seconding letters and information regarding career achievements in toxicology should accompany the nomination. A two-thirds vote of Council determines recipients, with not more than two Honorary Members elected during any one term of Council. Nominations should be sent to SOT Headquarters by October 9.

Inductees

1962	..... Eugene M. K. Geiling*	1994	..... Wendell W. Weber	2001	..... Herbert Needleman
1962	..... W. F. Von Oettingen*	1995	..... Gertrude B. Elion*	2007	..... Mario Molina
1962	..... Torald H. Sollman*	1995	..... Charles S. Lieber*	2008	..... Lee Hartwell
1963	..... Ethel Browning*	1996	..... Sten G. Orrenius	2008	..... H. Robert Horvitz
1966	..... R. Tecwyn Williams*	1996	..... Dennis Parke*	2009	..... Gilbert S. Omenn
1976	..... Norton Nelson*	1997	..... John E. Casida	2009	..... Sir John E. Walker
1982	..... George H. Hitchings*	1997	..... Roger W. Russell*	2010	..... Sir Philip Cohen
1986	..... Bernard B. Brodie*	1998	..... Jud Coon	2010	..... Ferid Murad
1986	..... Herbert Remmer*	1998	..... Michel Mercier	2011	..... William C. Hays
1991	..... Hyman J. Zimmerman*	1999	..... William O. Robertson	2011	..... Frances Oldham Kelsey
1994	..... Ronald W. Estabrook	1999	..... Takashi Sugimura	2012	..... Frank J. Gonzalez
		2000	..... Findlay Russell*	2012	..... Leroy Hood



INDICATES AN SOT SPONSORED AWARD

*DECEASED

SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY

SOT AWARD DESCRIPTIONS



ACHIEVEMENT AWARD

The Achievement Award is presented to a member of the Society of Toxicology who has within 15 years since obtaining his/her highest earned degree (in the year of the SOT Annual Meeting) made significant contributions to toxicology. This award consists of a plaque and a cash stipend.

Award Recipients

1967 Gabriel L. Plaa*
1968 Allan H. Conney
1969 Samuel S. Epstein
1970 Sheldon D. Murphy*
1971 Yves Alarie
1972 Robert L. Dixon*
1974 Morris F. Cranmer
1975 Ian C. Munro*
1976 Curtis D. Klaassen
1977 James E. Gibson
1978 Raymond D. Harbison
1979 Michael R. Boyd
1980 Philip G. Watanabe*
1982 Frederick P. Guengerich
1984 Melvin E. Andersen
1985 Alan R. Buckpitt
1986 Sam Kacew
1987 James S. Bus
1988 Jeanne M. Manson
1989 James P. Kehrer
1990 Michael P. Waalkes
1991 Debra Lynn Laskin
1992 Michael P. Holsapple
1993 David L. Eaton
1994 James L. Stevens
1995 Lucio G. Costa
1996 Kenneth S. Ramos
1997 Kevin E. Driscoll
1998 Rick G. Schnellmann
1999 Michel Charbonneau
2000 Christopher Bradfield
2001 Martin A. Philbert
2002 Ruth A. Roberts
2003 Lois D. Lehman-McKeeman
2004 David C. Dorman
2006 José E. Manautou
2007 Jeffrey M. Peters
2008 Ivan Rusyn
2009 Russell S. Thomas
2010 Gary W. Miller
2011 Nathan Cherrington
2012 Donna D. Zhang



ARNOLD J. LEHMAN AWARD

The Arnold J. Lehman Award is presented to recognize an individual who has made a major contribution to risk assessment and/or the regulation of chemical agents, including pharmaceuticals. The contribution may have resulted from the application of sound scientific principles to regulation and/or from research activities that have significantly influenced the regulatory process. The nominee may be employed in academia, government, or industry and must be an SOT member. This award consists of a plaque and a cash stipend.

Award Recipients

1980 Allan H. Conney
1981 Gabriel L. Plaa*
1982 Gary M. Williams
1983 David P. Rall*
1984 Tibor Balasz
1985 Frederick Coulston*
1986 Gerrit Johannes Van Esch
1987 John P. Frawley*
1988 Kundan S. Khera*
1989 Richard H. Adamson
1990 Harold C. Grice
1991 Bernard A. Schwetz
1992 Roger O. McClellan
1993 Thomas W. Clarkson
1994 Bruce Ames
1995 Emil A. Pfitzer*
1996 John F. Rosen
1998 Helmut Alfred Greim
2000 Carole A. Kimmel and Janardan K. Reddy
2001 Samuel M. Cohen
2002 Dennis Paustenbach
2003 Michael L. Dourson
2004 Melvin E. Andersen
2005 Rory B. Conolly
2006 Kathryn R. Mahaffey*
2007 Harvey J. Clewell
2008 Vicki Dellarco
2009 Michael Bolger
2010 Edward V. Ohanian
2011 Bette Meek
2012 Joe L. Mauderly



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SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY



BEST POSTDOCTORAL PUBLICATION AWARDS

The Best Postdoctoral Publication Awards recognize talented postdoctoral researchers who have recently published exceptional papers in the field of toxicology. Applications are reviewed by the Postdoctoral Assembly Board and outside reviewers with appropriate scientific expertise. The research reported in the paper must have been conducted while the applicant was engaged in a postdoctoral research position. The applicant will be the first author on a peer-reviewed paper published on-line or in print, or in press, in the preceding interval of June 1, 2010, and September 30, 2011. The review process follows NIH conflict of interest, confidentiality, and nondisclosure rules.

Award Recipients

- 2007 Nadine Dragin, Kristen Mitchell, Drobna Zuzana
- 2008 Joshua P. Gray, Christie M. Sayes, Khristy J. Thompson
- 2009 Jeffrey W. Card, Kembra Howdeshell, Lewis Zhichang Shi
- 2010 Bret F. Bessac, Manabu Nukaya, Nicholas Radio
- 2011 Dieldrich S. Bermudez, Joshua A. Harrill, Jordan Ned Smith
- 2012 Maryse Lemaire, Xuefeng Ren, Nisha S. Sipes



BOARD OF PUBLICATIONS AWARD FOR THE BEST PAPER IN TOXICOLOGICAL SCIENCES

The Board of Publications Award for the Best Paper in *Toxicological Sciences* is presented to the author(s) of the best paper published in this official SOT publication during a 12-month period, terminating with the June issue of the calendar year preceding the Annual Meeting at which the award is presented. The author(s) need not be a member of the Society of Toxicology. Submissions should include a one-page summary of the paper's contribution to the science of toxicology and a copy of the article for which the nomination is being made. Any member of the Society may submit one title for consideration. In addition, the titles of no more than six papers to be considered are submitted by the editor of *Toxicological Sciences*. All papers submitted will be evaluated by the Board of Publications. This award consists of a plaque and a cash stipend. (This award was formerly known as the Frank R. Blood Award from 1974–1994.)

Best Paper in Toxicological Sciences

Award Recipients

- 1995 J. L. Larson, D. C. Wolf, B. E. Butterworth
- 1995 M. I. Luster, C. Portier, D. G. Pait, G. J. Rosenthal, D. R. Germolec, E. Corsini, B. L. Blaylock, P. Pollock, Y. Kouchi, W. Craig, K. L. White, A. E. Munson, C. E. Comment
- 1996 B. C. Allen, R. J. Kavlock, C. A. Kimmel, E. M. Faustman

- 1997 F. L. Fort, H. Ando, T. Suzuki, M. Yamamoto, T. Hamashima, S. Sato, T. Kitazaki, M. C. Matony, G. D. Hodgen
- 1998 D. D. Parrish, M. J. Schlosser, J. C. Kapeghian, V. M. Traina
- 1999 C. A. Franklin, M. J. Inskip, C. L. Bacchanale, C. M. Edwards, W. I. Manton, E. Edwards, E. J. O'Flaherty
- 2000 H. A. Boulares, C. Giardina, C. L. Navarro, E. A. Khairallah*, S. D. Cohen
- 2001 J. Chen, Y. Li, J. A. Lavigne, M. A. Trush, J. D. Yager
- 2002 M. J. Bajt, J. A. Lawson, S. L. Vonderfecht, J. S. Gujral, H. Jaeschke
- 2003 S. Haddad, M. Beliveau, R. Tardif, K. Krishnan
- 2004 A. Nyska, C. Moyer, A. Ledbetter, D. Christiani, M. Schlasweiler, D. Costa, R. Hauser, U. Kodavanti,
- 2005 N. V. Soucy, M. A. Ihnat, L. Hess, C. D. Kamat, A. Barchowsky, M. J. Post, L. R. Klei, C. Clark,
- 2006 H. Sawada, K. Takami, S. Ashai
- 2007 T. Green, R. Lee, S. Lloyd, J. Noakes, T. Pastoor, R. Peffer, M. Robinson, P. Rose, A. Toghil, F. Waechter, E. Weber
- 2008 S. Snykers, T. Vanhaecke, P. Papeleue, A. Luttun, Y. Jiang, Y. V. Heyden, C. Verfaillie, V. Rogiers
- 2009 Q. Yang, T. Nagano, Y. Shah, C. Cheung, S. Ito, F. J. Gonzalez
- 2010 R. L. M. Dobson, S. Motlagh, M. Quijano, R. T. Cambron, T. R. Baker, A. M. Pullen, B. T. Regg, A. S. Bigalow-Kern, T. Vennard, A. Fix, R. Reimschuessel, G. Overmann, Y. Shan, G. P. Daston
- 2011 K. Lu, L. B. Collins, H. Ru, E. Bermudez, and J. A. Swenberg
- 2012 Joshua G. DeKeyser, Elizabeth M. Laurenzana, Eric C. Peterson, Tao Chen, and Curtis J. Omiecinski

Frank R. Blood Award

Award Recipients

- 1974 Y. Alarie
- 1975 D. J. Ecobichon, G. J. Johnstone, O. Hutzinger
- 1976 R. D. Brown
- 1977 J. Dedinas, G. D. DiVincenzo, C. J. Kaplan
- 1978 P. J. Gehring*, E. O. Madrid, G. R. McGowan, P. G. Watanabe*
- 1979 R. Fradkin, E. J. Ritter, W. J. Scott, J. G. Wilson
- 1980 J. A. Last, P. F. Moore, O. G. Raabe, B. K. Tarkington
- 1981 Y. Alarie, M. Brady, C. Dixon, M. Karol
- 1982 M. E. Andersen, M. L. Gargas, L. J. Jenkins, Jr., R. A. Jones
- 1983 H. D. Heck
- 1984 E. Dybing, S. Nelson, E. Soderlund, C. Von Bahr
- 1985 N. Imura, M. Inokawa, K. Miura
- 1986 C. C. Wilhite, M. I. Dawson, K. J. Williams
- 1987 J. Kao, F. K. Patterson, J. Hall
- 1988 D. L. Laskin, S. Ji, A. M. Pilaro
- 1989 R. G. Cuddihy, W. C. Griffith, R. F. Henderson, J. L. Mauderly, R. O. McClellan, M. D. Snipes, R. K. Wolff
- 1990 W. P. Beierschmitt, J. T. Brady, J. B. Bartolone, D. S. Wyand, E. A. Khairallah*, S. D. Cohen
- 1991 J. B. Silkworth, D. Cutler, L. Antrim, D. Houston, C. Tumasonis, L. S. Kaminsky
- 1992 D. A. Fox, S. D. Rubinstein, P. Hsu
- 1993 T. Mably, R. W. Moore, R. W. Goy, R. E. Peterson
- 1994 S. J. Borghoff, W. H. Lagarde

SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY



CONGRESSIONAL SCIENCE LEADERSHIP AWARD

The Congressional Science Leadership Award provides recognition of a Congressional leader who demonstrates reliance upon sound scientific principles in either 1) public policy or decision-making relating to health and safety or 2) dedicated advancement of legislation for the protection of human, animal, and environmental health. This award consists of a plaque.

Award Recipients

- 2009 Congressman David Wu (D-OR)
- 2010 Senator Johnny Isakson (R-GA)
Congressman David Price (D-NC)
- 2011 Congresswoman Judy Biggert (R-IL)
Senator Amy Klobuchar (D-MN)
- 2012 Representative Rush Holt (D-NJ)



CONTRIBUTIONS TO PUBLIC AWARENESS OF THE IMPORTANCE OF ANIMALS IN TOXICOLOGY RESEARCH AWARD

The Contributions to Public Awareness of the Importance of Animals in Toxicology Research Award is presented annually to an individual (or organization) in recognition of contributions made to the public understanding of the role and importance of experimental animals in toxicological science. This award may be for either a single seminal piece of work or a longer-term contribution to public understanding of the necessity of the use of animals in toxicological research to both ensure and enhance the quality of human and animal health and the environment. This award consists of a plaque and a cash stipend.

Award Recipients

- 2000 Allegheny-Erie Regional Chapter
- 2001 Massachusetts Society for Medical Research
- 2002 George Nethercutt
- 2003 Michael Derelanko
- 2004 North Carolina Association for Biomedical Research (NCABR), Americans for Medical Progress (AMP)
- 2005 Orrin G. Hatch, Foundation for Biomedical Research (FBR)
- 2006 Jayne Mackta



DISTINGUISHED TOXICOLOGY SCHOLAR AWARD

The Distinguished Toxicology Scholar Award is presented to a member of SOT who has made substantial and seminal scientific contributions to our understanding of the science of toxicology. Nominees should be active scientists involved in toxicological research. The prime consideration for this award is scientific accomplishments. This award consists of a plaque and a cash stipend. The recipient delivers the Distinguished Toxicology Scholar Award Lecture at the SOT Annual Meeting. (This award was presented in 2001 as the Scientific Achievement Award.)

Award Recipients

- 2001 James E. Troska
- 2003 Henry C. Pitot
- 2004 Gerald N. Wogan
- 2005 Daniel Nebert
- 2006 Sten G. Orrenius
- 2007 Stephen H. Safe
- 2008 Toshio Narahashi
- 2009 Lance R. Pohl
- 2010 Harihara M. Mehendale
- 2011 Oliver Hankinson
- 2012 Ernest Hodgson



EDUCATION AWARD

The Education Award is presented to an individual who is distinguished by the teaching and training of toxicologists and who has made significant contributions to education in the broad field of toxicology. This award consists of a plaque and a cash stipend.

Award Recipients

- 1975 Harold C. Hodge*
- 1976 Ted A. Loomis
- 1977 Robert B. Forney*
- 1979 Sheldon D. Murphy*
- 1980 Herbert H. Cornish*
- 1981 Frederick Sperling*
- 1982 Lloyd W. Hazleton*
- 1983 Julius M. Coon*
- 1984 Frank Guthrie, Ernest Hodgson
- 1985 William B. Buck
- 1986 Robert I. Krieger
- 1987 Gabriel L. Plaa*
- 1988 John Autian
- 1989 Tom S. Miya
- 1990 Charles H. Hine
- 1991 Hanspeter R. Witschi
- 1992 Dean E. Carter*
- 1993 Curtis D. Klaassen
- 1994 Robert A. Neal*
- 1995 William Carlton
- 1996 Robert Snyder
- 1997 Albert E. Munson

SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY

1998 David J. Holbrook
1999 Jules Brodeur
2000 Gary Carlson
2001 Harihara Mehendale
2002 Joseph Borzelleca
2003 Frederick W. Oehme
2004 A. Jay Gandolfi
2005 Nobuyuki Ito
2006 Robert A. Schatz
2007 Torbjörn Malmfors
2008 Steven Cohen
2009 Janice E. Chambers, Serrine S. Lau
2010 Tetsuo Satoh
2011 Michael Gallo
2012 John H. Duffus



ENHANCEMENT OF ANIMAL WELFARE AWARD

The Enhancement of Animal Welfare Award is presented annually to a member of the Society in recognition of a contribution made to the advancement of toxicological science through the development and application of methods that replace, refine, or reduce the need for experimental animals. The achievement recognized may be either a seminal piece of work or a long-term contribution to toxicological science and animal welfare. This award consists of a plaque and a cash stipend.

Award Recipients

2000 Yves Alarie
2001 Alan Goldberg
2002 Gary Williams
2003 G. Frank Gerberick
2003 Ian Kimber
2005 Daniel Acosta
2006 William S. Stokes
2007 Thomas Hartung
2009 Sally Robinson
2010 Leonard M. Schechtman



FOUNDERS AWARD

The SOT Founders Award is presented to a Full, Emeritus Full, or Retired Full member of the Society of Toxicology who has demonstrated outstanding leadership in fostering the role of toxicological sciences in safety decision-making through the development and/or application of state-of-the-art approaches that elucidate, with a high degree of confidence, the distinctions for humans between safe and unsafe levels of exposures to chemical and physical agents. This award consists of a plaque and a cash stipend.

Award Recipients

2008 John Doull
2009 Roger O. McClellan
2010 James S. Bus

2011 Joseph F. Borzelleca
2012 John A. Moore



GLOBAL SENIOR SCHOLAR EXCHANGE PROGRAM

The Global Senior Scholar Exchange Program (GSSEP) funds two Senior Scholar toxicologists from developing countries in Latin America, Africa, or Asia to attend the SOT Annual Meeting and spend up to four weeks with one or more hosts from academic, government, or industry organization(s) in the US or Canada. The Host will in turn visit the Senior Scholar's institution. The program provides a cash stipend and travel support for each pair. A listing of the 2012 inaugural-year recipients can be found under the GSSEP section on page 329.

Award Recipients

2012 Jesus Olivero-Verbel (Hosts: Miroslav Styblo, NC University at Chapel Hill and Michael P. Waalkes, NIEHS) and Orish Ebere Orisakwe (Host: Judith T. Zelikoff, NYU School of Medicine)



GRADUATE STUDENT TRAVEL SUPPORT

Graduate Student Travel Support defrays expenses for doctoral students presenting platform talks or posters at the SOT Annual Meeting. The student must be an SOT member or pending member who has not previously received SOT Graduate Student Travel Support. Funding priority is based on seniority in graduate school. A full listing of recipients can be found under the Graduate Travel Support section on page 334.



LEADING EDGE IN BASIC SCIENCE AWARD

The Leading Edge in Basic Science Award is presented to a scientist who, based on his/her research, has made a recent (within the last 5 years), seminal basic scientific contribution to understanding fundamental mechanisms of toxicity. The recipient may be a member or nonmember, including toxicologists as well as other scientists who may not identify themselves with the discipline of toxicology but whose research findings are likely to have a pervasive impact on the field of toxicology. This award consists of a plaque and a cash stipend. The recipient delivers the Leading Edge in Basic Science Award Lecture at the SOT Annual Meeting.

Award Recipients

2009 John Katzenellenbogen
2010 Richard S. Paules
2011 Masayuki Yamamoto
2012 Myung-Haing Cho



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SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY



MERIT AWARD

The Merit Award is presented to a member of the Society of Toxicology in recognition of distinguished contributions to toxicology throughout an entire career in areas such as research, teaching, regulatory activities, consulting, and service to the Society. This award consists of a plaque and a cash stipend. The recipient delivers the Merit Award Lecture at the SOT Annual Meeting.

Award Recipients

1966 Henry F. Smyth, Jr.*
1967 Arnold J. Lehman*
1968 R. T. Williams*
1969 Harold C. Hodge*
1970 Don D. Irish
1971 Kenneth P. DuBois*
1972 O. Garth Fitzhugh*
1973 Herbert E. Stokinger*
1974 William B. Deichmann*
1975 Frederick Coulston*
1976 Verald K. Rowe*
1977 Harry W. Hays*
1978 Julius M. Coon*
1979 David W. Fassett*
1980 Bernard L. Oser*
1981 John H. Weisburger
1982 Harold M. Peck*
1983 Perry J. Gehring*
1984 Tom S. Miya
1985 Carrol S. Weil*
1986 Ted A. Loomis
1987 Bo Holmstedt
1988 Seymour L. Friess*
1989 Wayland J. Hayes, Jr.*
1990 Sheldon D. Murphy*
1991 Toshio Narahashi
1992 W. Norman Aldridge
1993 John Doull
1994 Ernest Hodgson
1995 Robert A. Scala
1996 Gabriel L. Plaa*
1997 Mary O. Amdur*
1998 John A. Thomas
1999 Thomas Clarkson
2000 Philippe Shubik*
2001 Donald Reed
2002 Bernard Schwetz
2003 M. W. Anders
2004 Robert Goyer
2005 Roger O. McClellan
2006 A. Wallace Hayes
2007 James A. Swenberg
2008 Hanspeter Witschi
2009 Gary M. Williams
2010 Marion F. Ehrich
2011 Michael Aschner
2012 Curtis D. Klaassen



MINORITY UNDERGRADUATE STUDENT AND ADVISOR AWARDS

The Minority Undergraduate Student and Advisor Awards provide support for awardees to participate in the Undergraduate Education Program at the SOT Annual Meeting. This program is an introduction to the discipline of toxicology for undergraduate science majors and includes an orientation, a special poster session with scientists, and activities with an SOT mentor. The travel awards are for those from races and ethnic groups underrepresented in the sciences (African American, American Indian, or Hispanic American) and for their advisors. The advisors are eligible regardless of racial or ethnic background. Meeting registration and support for travel, lodging, and meals are provided for students and advisors who are not local to the meeting site. Students and advisors from local institutions receive meeting and program registration and meals. In the past, the program has been supported in part by NIH-MARC, Pfizer, Johnson & Johnson, Covance, and other supporters. The recipient list is available on the website.



OUTSTANDING GRADUATE STUDENT LEADERSHIP AWARDS

The Outstanding Graduate Student Leadership Award is presented by the SOT Student Advisory Council in recognition of graduate student representatives who have contributed to the Society in a significant manner beyond the routine duties of a representative of a Regional Chapter, Specialty Section, or Special Interest Group.

Award Recipients

2009 Enrique Fuentes-Mattei, Sheppard A. Martin
2010 Haitian Lu, Prasad Krishnan, Erica N. Rogers
2011 Heather M. Bolstad, James Michael Borland
2012 Chad Brocker, Azita Cuevas



PERRY J. GEHRING DIVERSITY STUDENT TRAVEL AWARD

The Perry J. Gehring Diversity Student Travel Award recognizes a student who was selected to participate in a previous SOT Undergraduate Program, is from an ethnic group underrepresented in toxicology (African American, Hispanic, Native American or Pacific Islander), and is presenting a paper at the upcoming SOT meeting. The award recipient is selected by the Committee on Diversity Initiatives.

The Gehring Student Travel Award is provided through the Society of Toxicology Endowment Fund. This award recognizes Dr. Perry J. Gehring, who served as SOT President in 1980–1981 and made important scientific contributions, especially in biological modeling and evidence-based assessment. Dr. Gehring had a strong interest in encouraging individuals from ethnic groups underrepresented in the sciences to enter biomedical sciences and toxicology.

SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY

Award Recipients

2009 Vanessa De La Rosa
2010 Nygerma L. Dangleben
2011 Eva A. Amouzougan
2012 Alba K. Gonzalez Rivera



PUBLIC COMMUNICATIONS AWARD

The Public Communications Award is presented by the Society of Toxicology to an individual who has made a major contribution to broadening the awareness of the general public on toxicological issues through any aspect of public communications. The award should reflect accomplishments made over a significant period of time. Examples of qualifying media in which the nominated communication may appear are as follows: books, brochures, continuing education courses, databases, extension bulletins, magazines, newspapers (local or national), outreach, public presentations, public forums, radio and television scripts, and workshops. This award consists of a plaque and a cash stipend.

Award Recipients

1994 Michael A. Kamrin
1995 Philip Abelson*
1996 Bruce N. Ames
1997 Audrey Gotsch
1999 Ann de Peyster
2001 Anna Shvedova
2002 Sam Kacew
2003 Charlene A. McQueen
2004 Kenneth Olden
2005 Robert Kreiger
2007 Linda S. Birnbaum
2010 Philip Wexler
2012 Martin A. Philbert



SOT/ASTRAZENECA/ IUTOX TRAVEL FELLOWSHIPS

The Society of Toxicology sponsors travel fellowships administered by IUTOX and sponsored by AstraZeneca, the Society of Toxicology and the SOT Endowment Fund. Awards are available to senior scientists from a country where toxicology is underrepresented to assist with travel to attend the Society of Toxicology Annual Meeting.

Award Recipients

2002 Christophor Dishovsky (Bulgaria)
Zoltan Gregus (Hungary)
Maritza Rojas Martini (Venezuela)
Choon-Nam Ong (Singapore)
W. Wasowicz (Poland)
Ping-kun Zhou (China)
2003 Jian-Hui Liang (China)
Eman A. Seif (Egypt)
Marjan G. Vracko (Slovenia)

2004 Cristina Bolaton (Philippines)
P. K. Gupta (India)
Salmaan Inayat-Hussain (Malaysia)
Xianping Ying (China)
2005 Diana B. Apostolova (Bulgaria)
Marite Arija Bake (Latvia)
Teresa I. Fortuoul (Mexico)
Mary Gulumian (South Africa)
He Jiliang (China)
Khalidya Khamidulina (Russia)
L. Orish Orisakwe (Nigeria)
Songsak Srianjata (Thailand)
Sinan Suzen (Turkey)
2006 Olanike Adeyemo (Nigeria)
Deepak Argwal (India)
Carlos Colangelo (Argentina)
Sandra Demichelis (Argentina)
Mumtaz Iscan (Turkey)
Karolina Lyubomirova (Bulgaria)
Osman Aly Osman (Egypt)
Shuang-Qing Peng (China)
Julia Radenkova-Saeva (Bulgaria)
2007 Hatem Ahmed (Egypt)
Jiri Bajgar (Czech Republic)
Ismet Çok (Turkey)
Carlos Gàrcia (Peru)
Wenceslao Kiat (Philippines)
Calivarathan Latchoumycandane (Singapore)
Fateheya Metwally (Egypt)
Hilmi Orhan (Turkey)
Nwoha Umunna (Nigeria)
2008 Gafe Rageh Ahmed (Egypt)
Sayed Bakry (Egypt)
Phillip Burcham (Australia)
Kemal Buyukguzel (Turkey)
Jin-Ho Chung (Korea)
Hande Gurer-Orhan (Turkey)
Lyndy McGaw (South Africa)
Zdravko Paskalev (Bulgaria)
2009 Sema Burgaz (Turkey)
Estefania G. Moreira (Brazil)
Kolawole V. Olorunshola (Nigeria)
Kelly P. K. Olympio (Brazil)
Betzabet Quintanilla-Vega (Mexico)
Jalila Ben Salah (Tunisia)
Suleeporn Sangrajang (Thailand)
2010 Asongalem Emmanuel Acha (Cameroon)
Ayse Basak Engin (Turkey)
Ronnie A. D. Frazer-Williams (Sierra Leone)
Yan Li (China)
Jesus T. Olivero-Verbel (Colombia)
Suresh V. S. Rana (India)
Ganna Shayakhmetova (Ukraine)
Vanessa Steenkamp (South Africa)
Marcelo J. Wolansky (Argentina)
Motao Zhu (China)
2011 Sonali Das (India)
Rawiwan Maniratanachote (Thailand)
Anoka A. Njan (Nigeria)
Daam Settachan (Thailand) **
Osman S. Shaik (India)
Songsak Srianjata (Thailand)
Omoniyi Kayode Yemitan (Nigeria) **

SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY

Qinli Zhang (China)
Bin Zhao (China)

2012 Oladipo Ademuyiwa (Nigeria)
Murali Badanthadka (China)
Sunisa Chaiklieng (Thailand) **
Xianju Huang (China)
Zhenlie Huang (China)
Guojun Li (China)
Jianlin Lou (China) **
Maria Samayoa (Guatemala)
Haixue Wang (China)
Jingshu Zhang (China)
Xiaofeng Zhang (China)
Li Zhou (China)

** Sponsored by the SOT Endowment Global Fund.



SOT REGIONAL CHAPTER AWARDS

Most SOT Regional Chapters provide awards to recognize outstanding students, postdoctoral fellows, or scientists throughout their career. Application requirements and deadlines vary. For more details refer to the Award descriptions on the SOT website at www.toxicology.org, under Regional Chapters or the Awards and Fellowships section.



SOT SPECIAL INTEREST GROUP AWARDS

SOT Special Interest Groups provide awards to recognize outstanding students, postdoctoral fellows, or scientists throughout their career. Application requirements and deadlines vary. For more details refer to the Award descriptions on the SOT website at www.toxicology.org, under Special Interest Groups or the Awards and Fellowships section.



SOT SPECIALTY SECTION AWARDS

Most SOT Specialty Sections provide awards at the SOT Annual Meeting to recognize outstanding students, postdoctoral fellows, or scientists throughout their career. Application requirements and deadlines vary. For more details refer to the Award descriptions on the SOT website at www.toxicology.org, under Specialty Sections or the Awards and Fellowships section.



TRANSLATIONAL IMPACT AWARD

The Translational Impact Award is presented to a scientist whose recent (in the last 10 years) outstanding clinical, environmental health, or translational research has improved human and/or public health in an area of toxicological concern. Scientists who are leaders in multidisciplinary team efforts who have contributed to alleviating toxicity-related health problems are particularly attractive candidates. The nominee may be a member or nonmember from any background (toxicologists, clinicians, basic scientists, epidemiologists, engineers, etc.). This award consists of a plaque and a cash stipend. The recipient delivers the Translational Impact Award Lecture at the SOT Annual Meeting.

Award Recipients

2009 Thomas W. Kensler
2010 Kenneth E. McMartin
2011 Weida Tong
2012 John G. Benitez



TRANSLATIONAL/BRIDGING TRAVEL AWARD

Two awards may be given annually to assist with travel to the SOT Annual Meeting. The SOT Awards Committee may confer two awards annually to either a mid- or senior-level scientist or clinician, with at least ten years postdoctoral research or clinical practice experience and who has an active research program, or currently is active either in the practice of clinical toxicology, medical toxicology, disease prevention, or in the application of transitional toxicology. This award consists of a cash stipend and a complimentary registration for the SOT Annual Meeting.

Award Recipient

2012 Xuemei Huang



UNDERGRADUATE EDUCATOR AWARD

The Undergraduate Educator Award, sponsored by the Endowment Fund, is presented to an SOT member who is distinguished by outstanding contributions to the teaching of undergraduate students in toxicology and toxicology-related areas, and whose efforts support SOT's strategic efforts to "Build for the Future of Toxicology." Members of the Society of Toxicology who have made significant contributions to undergraduate education in toxicology may be nominated and should have a faculty appointment with primary responsibilities in the teaching of undergraduates and demonstrate a distinguished undergraduate teaching record. This award consists of a plaque and a cash stipend.

SPONSORED AWARD DESCRIPTIONS AND HISTORY

Award Recipient

2011 Joan B. Tarloff
2012 Sue M. Ford



UNDERGRADUATE TOXICOLOGY EDUCATION AWARDS

The Undergraduate Toxicology Education Awards provide support for awardees to participate in the Undergraduate Education Program at the SOT Annual Meeting. This program is an introduction to the discipline of toxicology for undergraduate science majors and includes an orientation, a special poster session with scientists, and activities with an

SOT mentor. The travel awards are for those from institutions that receive a limited amount of Federal funding in science and technology (list is available on the website). Preference in selection will be students who are first generation college attendees (that is, neither parent graduated from a four-year academic institution).

Meeting registration and support for travel, lodging, and meals are provided for students who are not local to the meeting site. Students from local institutions receive registration, meeting materials, and an expense stipend. The recipient list is available on the website.

ASTRAZENECA TRAVELING LECTURESHIP AWARD

The AstraZeneca Traveling Lectureship Award is presented through the Society of Toxicology to recognize excellence in research and service in toxicology. AstraZeneca provides one award annually in the amount of \$9,000 to promote greater collaboration between European and North American toxicologists and to enable North American toxicologists to undertake a three-four week lecture tour of Europe. The award is intended to familiarize recipients with research and regulatory issues in Europe and to bring a North American perspective to these issues. Candidates for the award should be established, mid-career North American scientists who are members of the Society and who demonstrate the ability to develop collaborative relationships with European colleagues.

Award Recipients

1990 Robert I. Krieger, Joseph R. Landolph
1991 Sam Kacew
1992 Charles V. Smith, Jerold A. Last
1993 Terrence James Monks, Harihara H. Mehendale
1995 David L. Eaton, Hanspeter R. Witschi
1996 Rick G. Schnellmann, James P. Kehrer
1997 Lucio G. Costa, Durisala Desaiiah
1998 Syed F. Ali, Curtis J. Omiecinski
1999 Alvaro Puga
2000 Kenneth Ramos, Garold Yost
2001 Ronald Hines, Richard Seegal
2003 William D. Atchison
2004 Charlene A. McQueen
2005 Kevin M. Crofton

2006 Robert A. Roth
2007 Michael S. Denison
2008 José E. Manautou
2009 Kim Boekelheide
2010 J. Chris Corton
2011 Saber Hussain
2012 Bhagavatula Moorthy

COLGATE-PALMOLIVE AWARDS FOR STUDENT RESEARCH TRAINING IN ALTERNATIVE METHODS

The purpose of the Colgate-Palmolive Awards for Student Research Training in Alternative Methods is to enhance student research training using *in vitro* methods or alternative techniques to reduce, replace or refine use of animals in toxicological research. The Awards Committee will present the awards to graduate students. Two or more awards, up to \$3,750 each, are available annually. Awards will defray travel, *per diem*, and training expenses.

The award is for expenses for training consistent with the goal of this award program. The training may include, but is not limited to, use of *in vitro* and *ex vivo* procedures, use of nonmammalian animal models, computer modeling, and structure-activity relationships. Graduate students may propose to develop expertise in relevant methodologies at 1) a laboratory away from their home institution; 2) a laboratory at their home institution that would not be available to them otherwise; or 3) approved workshops, symposia, or continuing education programs where hands-on training will be received. The training should help toxicology graduate students enhance their thesis or dissertation research.

Award Recipients

2000 Jason Gross
2001 Jason Biggs, Victoria Richards
2002 Kartik Shankar, Chad M. Vezina, Ryan L. Williams
2003 Sachin Devi, Midhun Korrapati, Pallavi Limaye
2004 Jaya Chilakapati, Marc A. Nascarella
2005 Vishaka Bhave, Ankur Dnyanmote, Jonathan Maher
2006 Mary Hassani, Prajakta Palkar
2007 Renee Gardner, Prajakta Palkar, Rohit Singhal, René Vinas
2008 Kimberly A. Hays, Haitian Lu
2009 Jennifer Cole, Katie Beth Paul, Samuel Peterson
2010 Maxwell C. K. Leung, David T. Szabo, Natalia M. VanDuyun
2011 Vijay More
2012 Agnes Forgacs, René Viñas, Aaron Lulla

SPONSORED AWARD DESCRIPTIONS AND HISTORY

COLGATE-PALMOLIVE GRANTS FOR ALTERNATIVE RESEARCH

The Colgate-Palmolive Grants for Alternative Research will identify and support efforts that promote, develop, refine, or validate scientifically acceptable animal alternative methods to facilitate the safety assessment of new chemicals and formulations. Scientists at any stage of career progression may submit a proposal.

High priority will be given to projects that use *in vitro* or nonanimal models, reproductive and developmental toxicology, neurotoxicology, systemic toxicology, sensitization, and acute toxicity.

The maximum award is \$40,000, made as a single lump payment. Awardees can re-apply for funding in subsequent years.

Award Recipients

- 2006 Rola Barhoumi, Abby Benninghoff, Jodie Flaws, Courtney Sulentic, Xiaouzhong Yu
- 2007 Rita L. Caruso, Daniel R. Cerven, Anne R. Greenlee, Glenn M. Walker
- 2008 Daniel R. Ceven, Duncan C. Ferguson, Shashi K. Ramiah
- 2009 Qin M. Chen, Timothy J. Shafer, Mehmet Uzumcu
- 2010 Patrick Allard, Duncan C. Ferguson, Mehmet Uzumcu
- 2011 Patrick Allard, Hao Zhu
- 2012 Mingzhu Fang, Jennifer Freeman

COLGATE-PALMOLIVE POSTDOCTORAL FELLOWSHIP AWARD IN *IN VITRO* TOXICOLOGY

The Colgate-Palmolive Company sponsors the Colgate-Palmolive Postdoctoral Fellowship Award in *In Vitro* Toxicology through the Society of Toxicology to advance the development of alternatives to animal testing in toxicological research. The award is given annually and includes stipend and research-related costs up to \$44,000 for one year (including funding to attend the SOT Annual Meeting to present this research). The award is available to postdoctoral trainees employed by academic institutions, federal/national laboratories, or research institutes worldwide. Preference will be given to applicants in their first year of postdoctoral study.

Award Recipients

- 1988 Ernest Bloom
- 1989 Gin Hsieh
- 1990 Dennis E. Chapman
- 1991 Anne Walsh
- 1992 Qin Chen
- 1993 Erika Cretton
- 1994 William Chan
- 1995 Bob Van de Water
- 1997 Alan Parrish
- 1999 Russell Thomas
- 2001 Kevin Kerzee, Christopher Reilly
- 2002 Kevin Kerzee

- 2003 Kimberly Miller
- 2004 Kimberly Miller
- 2005 Francis Tukov
- 2007 Aaron Rowland
- 2008 Aaron Rowland
- 2009 Ankur Dnyanmote
- 2010 Ankur Dnyanmote
- 2011 Cassandra Deering-Rice
- 2012 Melanie Adler

COLGATE-PALMOLIVE TRAVELING LECTURESHIP IN ALTERNATIVE METHODS IN TOXICOLOGY AWARD

Offered 1996–2008

Award Recipients

- 1996 University of Mississippi Medical Center
Visiting Professor: Tetsuo Satoh
- 1996 University of Illinois at Urbana
Visiting Professor: Julio Davila
- 1996 Mississippi State University
Visiting Professor: Michael Holsapple
- 1996 Washington State University
Visiting Professor: Daniel Acosta
- 1997 Indiana University School of Medicine
Visiting Professor: A. Jay Gandolfi
- 1997 University of Arizona Health Science Center
Visiting Professor: Kevin E. Driscoll
- 1997 University of New Mexico Health Sciences Center
Visiting Professor: Sam Kacew
- 1997 University of Illinois
Visiting Professor: Michael Denison
- 1998 University of Washington
Visiting Professor: Bruce Fowler
- 1998 San Diego State University
Visiting Professor: Leigh Ann Burns-Naas
- 1999 San Diego State University
Visiting Professor: Robert Chapin
- 2000 Yale University, School of Medicine
Visiting Professor: Narendre Singh
- 2001 Medical College of Wisconsin
Visiting Professor: Garold Yost
- 2003 Washington State University
Visiting Professor: Marc W. Fariss
- 2004 University of Louisiana at Monroe
Visiting Professor: Snorri S. Thorgeirsson
- 2008 University of Louisiana at Monroe
Visiting Professor: George Michalopoulos



INDICATES AN SOT SPONSORED AWARD

*DECEASED

SPONSORED AWARD DESCRIPTIONS AND HISTORY

NOVARTIS GRADUATE STUDENT FELLOWSHIP AWARD

The Novartis Graduate Student Fellowship Award is available for student members of the SOT engaged in full-time graduate study towards a Ph.D. in toxicology. The major professor must be an SOT member. The evaluation is based primarily on originality of the dissertation research, research productivity, relevance to toxicology, scholastic achievement, and letters of recommendation. Finalists are interviewed at the Annual Meeting and receive travel support.

Award Recipients

1989	.....	Timothy Zacharewski
1990	.....	Mary Suzanne Stefaniak
1991	.....	Donald Bjerke
1992	.....	Lhanoo Gunawardhana
1993	.....	Christopher Martenson
1994	.....	Nyla Harper
1995	.....	Heather E. Kleiner
1996	.....	Russell Thomas
1997	.....	Melva Rios-Blancos
1998	.....	Kent Carlson
1999	.....	Mark Hickman
2000	.....	Jeffrey Moran
2001	.....	Vishal Vaidya
2002	.....	Kartik Shankar
2003	.....	Sachin Devi
2004	.....	James Luyendyk
2005	.....	Andrea W. Wong
2006	.....	Sheung P. Ng
2007	.....	Atrayee Banerjee
2008	.....	Helen J. Badham
2009	.....	Yue Cui
2010	.....	Eric N. Liberda
2011	.....	Alexandria Lau
2012	.....	Julia Rager

(Recipients of Graduate Student Fellowship Awards no longer offered may be found on the SOT website at www.toxicology.org.)

PFIZER UNDERGRADUATE STUDENT TRAVEL AWARD

Pfizer Undergraduate Student Travel Awards are presented through the Society of Toxicology to foster an interest in graduate studies in the field of toxicology by bringing promising undergraduate students to the SOT Annual Meetings. Pfizer, Inc., will provide up to five awards per year to undergraduate students presenting research at the Annual Meeting. Awardees will be selected by the Education Committee based on the quality of the submitted abstract and the advisor's supporting recommendation. Those selected will receive travel assistance for the meeting, a plaque presented at the annual Awards Ceremony, and recognition at a special Pfizer function. Awardees will be matched with a graduate student and a Pfizer scientist to mentor them during the Annual Meeting, and will have the opportunity to attend the Society of Toxicology Undergraduate Education Program on the Sunday of the Annual Meeting.

Award Recipients

2006	.....	Shawntay Chaney, Theresa M. Eagle, Natalie Malek, Adeliada Segarra, Ryan Vaughan
2007	.....	Kay Gonsalves, Lisa Koselke, Basharat Sanni, Sonia Talathi, Anna Zimmerman
2008	.....	Amy DeMicco, Tharu Fernando, Yamel Perdomo, Amy Yi Hsan Saik, Kelly Sullivan
2009	.....	Sherine Crawford, Trish T. Hoang, Kelly Krcmarik, Cory M. Mathias, P. Sean McGrath
2010	.....	Annie L. Carlton, Alisha Chitrakar, Megan E. Culbreth, Chang Woo Lee, Sharon Ochs
2011	.....	Brandon Haghverdian, Jessica H. Hartman, Camila Odio, Viviana Vidal Anaya, Phillip Alan Wages
2012	.....	Ashley Press, Darien Shapiro, Qi Wang, Brittany Winner, Frances A. Xin

SYNGENTA FELLOWSHIP AWARD IN HUMAN HEALTH APPLICATIONS OF NEW TECHNOLOGIES

The Syngenta Fellowship Award in Human Health Applications of New Technologies is presented to either a third year (or later) graduate student or a postdoctoral trainee. Funding in the amount of \$15,000 is to support mode-of-action research aimed at characterizing dose-dependent effects of xenobiotics on mammalian systems in such a way that the causal sequence of key events underlying toxicity is elucidated. The work should permit a quantitative basis for extrapolation of the results from animal bioassays or animal models (*in silico*, *in vitro*) to humans at relevant human doses. The awardee will receive funding to travel to the SOT Annual Meeting to accept the award and for travel to a Syngenta facility to present the results.

Award Recipients

2010	.....	Haitian Lu
2011	.....	Michelle C. DeSimone
2012	.....	Benjamin Moeller

2012 HONOR AND AWARD RECIPIENTS



HONORARY MEMBERSHIP



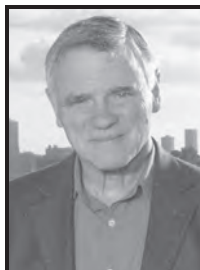
Frank J. Gonzalez

Frank J. Gonzalez, PhD, during the last 30 years, has made major advances that have significantly moved the field of carcinogenesis forward. His interests in drug/chemical carcinogen metabolism led to the identification and characterization of many cytochrome P450s and phase II xenobiotic metabolizing enzymes. This interest ultimately led to his seminal studies elucidating how regulatory transcription factors modulate expression of xenobiotic metabolizing enzymes that contribute to cancer etiology, through the generation and characterization of countless knockout, transgenic, and “humanized” mouse models. Many of the mouse models generated by Dr. Gonzalez during his tenure at the National Cancer Institute have been utilized by countless investigators and have provided invaluable tools to allow for continued progress in the field of carcinogenesis. His most recent research interests have focused on applying metabolomics to bridge the gap in knowledge between genomics and proteomics. Toward this goal, he has established a center for metabolomics where he uses this approach for his own research goals that have made significant advances in our understanding of how xenobiotic metabolism drives carcinogenesis using both rodent and human models.

Dr. Gonzalez has also served as a mentor for many postdoctoral fellows, providing exceptional training that has led to the development of many scientists in the field. He has served on numerous grant peer-review panels, has served as editor/associate editor and editorial boards of many journals, has reviewed thousands of manuscripts for his peers, and has provided hundreds of invited presentations at national and international meetings to share unpublished findings that are of interest to investigators in the field of carcinogenesis. He is among the top ten “most highly cited” authors in the fields of toxicology and pharmacology, and he has held this distinction for at least the last two decades.



HONORARY MEMBERSHIP



Leroy Hood

Leroy Hood, MD, PhD, is a renowned scientist and pioneer in systems biology and medicine. While at Caltech, Dr. Hood, along with his colleagues, developed the DNA sequencer and synthesizer and the protein synthesizer and sequencer—four instruments that paved the way for the successful mapping of the human genome. His accomplishments are many, including the concept of the 4Ps in medicine—Predictive, Preventive, Personalized, and Participatory—which lead to his receipt of this year’s prestigious Russ Prize, awarded by the Academy of Engineering (2011).

In addition to his impressive accomplishments, he is a co-founder of the Institute for Systems Biology (ISB) in Seattle, Washington. ISB was established to address the greatest challenge of 21st century science—understanding biological complexity. Since its founding in 2000, ISB has been a pioneering source of new knowledge, innovative technologies and computational tools, and creative ways of understanding, conducting, and communicating science. ISB is catalyzing fundamental paradigm changes in how the life sciences and medicine are practiced globally.

The Society welcomes Dr. Hood back to celebrate our 51st Annual Meeting as the Opening Plenary Lecturer; he delivered the Society’s 1998 Medical Research Council (MRC) lecture entitled “Genes and Genomes: Deciphering the Periodic Table of Life.”



ACHIEVEMENT AWARD



Donna D. Zhang

Donna D. Zhang, PhD, Associate Professor, Department of Pharmacology and Toxicology, College of Pharmacy, University of Arizona, is the recipient of the SOT 2012 Achievement Award.

Dr. Zhang's research program features important, multi-faceted, cutting edge science elucidating the key factors regulating the Nrf2-Keap1 pathway that controls adaptive responses of cells to environmental and endogenous stresses. She was the first to describe

the interactions between Keap1 and the Cul3-Rbx1 E3 ubiquitin ligase system that maintains low constitutive levels of Nrf2 through ubiquitination and subsequent proteasomal degradation (*Mol Cell Biol* 2003, 2004, 2007, and 2011; *J Biol Chem*, 2005). She is also characterizing cross-talk between Nrf2-Keap1 and the p53-p21 (Cip1/WAF1) and autophagy (via p62-Keap1) pathways (*Mol Cell* 2009; *Mol Cell Biol* 2010.) Understanding the broad reach of this adaptive response pathway will help define its role as a key susceptibility modifier in toxicological responses.

In addition, Dr. Zhang is examining the effects of Nrf2 signaling in arsenic toxicity. Several of her papers in *Toxicology and Applied Pharmacology* (2007, 2008, and 2009) describe the protective roles of Nrf2 against indices of acute toxicity and cell transformation by arsenic. She is also seeking to identify small molecule activators and inhibitors of the pathway that have applications in the prophylaxis and treatment of chronic degenerative diseases with underlying environmental etiologies (*Proc. Natl. Acad. Sci. USA*, 2011; *Chem. Biol.*, 2010).

Dr. Zhang has made several seminal observations in the Nrf2-Keap1 field that are establishing new paradigms for understanding its roles in toxicology. This work has been supported, in part, through a highly competitive ONES award from NIEHS as well as awards from the National Cancer Institute and the American Cancer Society. Dr. Zhang has also developed an active role within SOT as 2011–2012 President of the Mountain West Chapter of SOT, and as the organizer of a symposium on Nrf2 featuring international experts held as part of the program for the SOT 50th Anniversary Annual Meeting of SOT in 2011. For the significant contributions to toxicology that she has made in the early stages of her career, the Society of Toxicology is pleased to present the SOT 2012 Achievement Award to Dr. Donna D. Zhang.



ARNOLD J. LEHMAN AWARD



Joe L. Mauderly

Joe L. Mauderly, DVM, is presented with the 2012 SOT Arnold J. Lehman Award for his contributions to the application of sound scientific principles to the regulation of airborne materials, and the conduct and management of research that has had special impact on the regulation of airborne materials.

Dr. Mauderly is currently a Senior Scientist Emeritus (in residence) of the Lovelace Respiratory Research Institute and Director of the National

Environmental Respiratory Center. Before his recent retirement, he was Principal Investigator of ACES project on health impacts of new technology diesel emissions and the NPACT project on critical components of airborne particulate matter. He was a former Director of Lovelace's Inhalation Toxicology Research Institute and President of the Lovelace Biomedical and Environmental Research Institute.

Internationally recognized for his contributions to the application of sound science in the regulation of airborne materials, he has served on more than 40 national and international committees advising on the science supporting national and international air quality standards and the use of that research in establishing air quality standards. He is author or coauthor of 252 journal articles, chapters and books, and 80 published technical reports. Dr. Mauderly served on Pollutant Specific Panels of the Clean Air Scientific Advisory Committee (CASAC) from 1992 to 2006; and as Chair of CASAC from 1997 to 2000, where he played a key role as a contributor and as a leader of multidisciplinary panels of scientists and engineers advising on the setting of National Ambient Air Quality Standards (NAAQS) for particulate matter, ozone, lead, nitrogen oxides, sulfur dioxide and carbon monoxide. He is especially known for his research on the hazards of engine emissions, and during his tenure as CASAC Chair, the Committee approved US EPA's Hazard Assessment of Diesel Exhaust. Since 1998, he has provided leadership for development of the Lovelace National Environmental Respiratory Center (NERC) multipollutant research program funded jointly by government and industry. The research findings from that program are already providing improved insight into the role of individual constituents and complex mixtures of air contaminants from multiple sources in causing disease. Dr. Mauderly continues to manage the NERC Program and assist other Lovelace research efforts on a part-time basis.

Dr. Mauderly is a renowned speaker who is able to communicate with audiences of varied backgrounds, ranging from his scientific peers and students to technology developers to policy makers to the general public. He serves as a role model for others and is a wonderful representative of the science of toxicology. In recognition of his contributions to risk assessment and the regulation of chemical agents, the Society of Toxicology is pleased to announce Dr. Joe L. Mauderly as the recipient of the 2012 SOT Arnold J. Lehman Award.



SOCIETY OF TOXICOLOGY
SPONSORED AWARDS

2012 HONOR AND AWARD RECIPIENTS



BEST POSTDOCTORAL PUBLICATION AWARD

The Postdoctoral Assembly recognizes these three recipients of their 2011 awards:



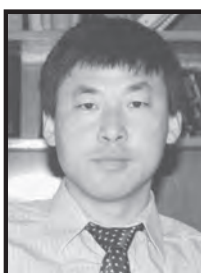
Maryse Lemaire

Maryse Lemaire, PhD, Institute for Medical Research, Montréal, Québec, Canada

Lemaire M, Lamrie CA, Molina MF, Schiffrin EL, Lehoux S, and Mann KK

Exposure to Moderate Arsenic Concentrations Increases Atherosclerosis in ApoE^{-/-} Mouse Model

Toxicological Sciences 2011, 122 (1): 211–221



Xuefeng Ren

Xuefeng Ren, PhD, The State University of New York at Buffalo, Buffalo, NY

Ren X, Aleshin M, Jo, WJ, Dills R, Kalman DA, Vulpe CD, Smith MT, and Zhang L

Involvement of N-6 Adenine-Specific DNA Methyltransferase 1 (N6AMT1) in Arsenic Biomethylation and Its Role in Arsenic-Induced Toxicity

Environmental Health Perspectives, 2011, 119(6): 771–777



Nisha S. Sipes

Nisha S. Sipes, PhD, US EPA, Research Triangle Park, NC

Sipes NS, Martin MT, Reif DM, Kleinstreuer NC, Judson RS, Singh AV, Chandler KJ, Dix DJ, Kavlock RJ, and Knudsen T

Predictive Models of Prenatal Developmental Toxicity from ToxCast High-Throughput Screening Data

Toxicological Sciences 2011, 124(1): 109–127



BOARD OF PUBLICATIONS AWARD FOR THE BEST PAPER IN TOXICOLOGICAL SCIENCES



The Board of Publications has selected the paper entitled “Selective Phthalate Activation of Naturally Occurring Human Constitutive Androstane Receptor Splice Variants and the Pregnane X Receptor” as the best paper published in *Toxicological Sciences* in the past year (*Toxicol. Sci* 2011, 120(2): 381–391). The authors of the paper are Joshua G. DeKeyser, Elizabeth M. Laurenzana, Eric C. Peterson, Tao Chen, and Curtis J. Omiecinski.

In this paper, the authors used transactivation and mammalian two-hybrid assays to demonstrate differential selectivity of endocrine-disrupting chemicals on CAR and PXR variants. These results offer an important insight into the mechanism whereby alternate splicing of receptors results in an enhanced capability of receptors to distinguish among a broad range of xenobiotics that possess similar chemical properties. In this way, variant receptors possess distinct ligand-selective activation profiles.

This paper greatly extends our understanding of a fundamental mystery of toxicology—How are a relatively small number of xenosensing receptors able to identify an enormous number of xenobiotics and respond appropriately? The answer contained here demonstrates that alternately spliced human CAR genes transcripts increase CAR's capacity to serve as a selective xenosensor. Since rodent species appear incapable of producing some receptor splice variants, this finding is crucial to understanding the reasons behind the differences in response to chemical exposures observed for humans and rodents.

2012 HONOR AND AWARD RECIPIENTS



CONGRESSIONAL SCIENCE LEADERSHIP AWARD



Rush Holt

Representative Rush Holt, a Democrat from the 12th District of New Jersey, is the Society's 2012 Congressional Science Leadership Award recipient. This seventh term Member of Congress has been selected for his enduring vision and preeminent leadership to foster recognition throughout the legislative community of the importance of supporting sound science as a basis for making effective policy decisions.

Rep. Holt earned his BA in Physics from Carleton College in Minnesota and completed his Master's and PhD at NYU. He has held positions as a teacher, Congressional Science Fellow, and arms control expert at the US State Department where he monitored the nuclear programs of countries such as Iraq, Iran, North Korea, and the former Soviet Union. Holt was Assistant Director of the Princeton Plasma Physics Laboratory, the largest research facility of Princeton University and the largest center for research in alternative energy in New Jersey. He has conducted extensive research on alternative energy and has his own patent for a solar energy device.

An active Member of Congress and a strong voice for his constituents, Rep. Holt serves on the Committee on Education and the Workforce and the Committee on Natural Resources, where he serves as the Ranking Member on the Subcommittee on Energy and Mineral Resources helping to develop a long-term strategy to decrease our nation's dependence on fossil fuels and protect our environment for future generations. Holt was honored to serve on the National Commission on Mathematics and Science Teaching for the 21st Century chaired by former Senator and astronaut John Glenn. Rep. Holt has won several significant victories on the Hill. He helped secure more than \$700 million in new federal funding for science and technology research. He is co-chair of the Research and Development Caucus, and sits on Congressional caucuses concerning Children's Environmental Health, Renewable Energy, Sustainable Development, Alzheimer's, Diabetes, Biomedical Research, Internet, Community College, Farmland Protection, Human Rights, and a Women's Right to Choose. As a member of the House Committee on Education and Labor, Holt helped write the College Cost Reduction Act—the largest college aid expansion since the GI Bill—which cuts student loan interest rates in half, increases individual Pell Grant amounts by \$1,090 over five years, and forgives loans for graduates who provide 10 years of public service. The bill also includes Holt's provision to provide upfront tuition assistance—up to \$16,000 per year—for math, science and foreign language teachers, supporting Holt's effort to strengthen such education in the US.

For these efforts and others, he is the 2012 Congressional Science Leadership Award recipient.



DISTINGUISHED TOXICOLOGY SCHOLAR AWARD



Ernest Hodgson

Ernest Hodgson, PhD, Distinguished Professor Emeritus, Environmental and Molecular Toxicology, North Carolina State University, Raleigh, is the recipient of the 2012 SOT Distinguished Toxicology Scholar Award. Dr. Hodgson's current and recent research activities are extremely important to the characterization of the human metabolism of nonpharmaceutical xenobiotics and to the characterization of the flavin-containing monooxygenases (FMOs). He is a recognized leader in the field of human metabolism of agrochemicals and also the specific interactions that agrochemicals can have with one another from the standpoint of metabolism, as well as the inhibition of steroid hormone metabolism by organophosphorus compounds (insecticides or their metabolites). Dr. Hodgson's work in this area is a unique and important contribution to our protection of human health. He has made North Carolina State University renowned for research in human metabolism of agrochemicals.

Dr. Hodgson is well known for his scientific leadership in the field of pesticide toxicology and metabolism, and he has competed successfully for substantial federal support for his research. He has published prolifically. He edits the *Journal of Biochemical and Molecular Toxicology*. He also has edited and part-authored two textbooks of toxicology, both now in fourth editions, and contributed to a variety of review books, dictionaries, and electronic databases. He has contributed to the education of numerous toxicologists and has former students and postdocs distributed among a variety of academic, industrial, and government positions. He is frequently called upon to serve on advisory committees and review panels and has received significant recognition at his own institution by being named to one of the prestigious endowed professorships, a William Neal Reynolds Professor.

Dr. Hodgson has been involved in numerous roles in SOT and other professional societies and always garners the respect of those whom he leads or interacts with through both his wisdom and his dry wit. He has a rather unique talent for analyzing situations and developing appropriate conclusions, and delivering those conclusions in an effective and diplomatic way.

In recognition of his seminal scientific achievements that have advanced the science of toxicology and have given additional recognition and prestige to the field, Dr. Ernest Hodgson is presented the 2012 SOT Distinguished Toxicology Scholar Award.

2012 HONOR AND AWARD RECIPIENTS



EDUCATION AWARD



John H. Duffus

John H. Duffus, BSc, PhD, DSc, CSci, CChem, FRSC, CBiol, MSB, is recognized as the recipient of the 2012 SOT Education Award. The Director of Heriot Watt University's Edinburgh Centre for Toxicology, Edinburgh, Scotland, since 1989, Professor Duffus has spent a distinguished academic career educating toxicologists. He has held a variety of lectureships there and at other UK universities, and organized and taught numerous toxicology courses over decades. His appointments at the Chulabhorn Research Institute in Bangkok and the Asian Institute of Technology attest to his global influence and keen interest in strengthening training opportunities in developing nations, as do a variety of consultancies he has held to develop toxicology curricula throughout Europe, Asia, and Africa. His programs on chemical safety, the teaching of toxicology, and manpower development have been widely used. In addition, he has organized assorted international courses and workshops in toxicology and ecotoxicology.

Professor Duffus is the author of numerous research articles and technical reports for the World Health Organization, the Royal Society of Chemistry, and other prestigious organizations. He is renowned for his widely used textbooks, *Fundamental Toxicology* and *Concepts in Toxicology*, and for his efforts on behalf of standardizing toxicology nomenclature through the International Union of Pure and Applied Chemistry (IUPAC). He has also made important contributions to publications and training in risk assessment as well as in educating and providing resources for toxicology educators, including his online presentations, the *Science of Chemical Safety: Essential Toxicology*. He also serves as a key member of the Steering Team for ToxLearn, a multi-module tutorial being developed jointly by the Society of Toxicology and the National Library of Medicine.

Professor Duffus' global achievements in the training of toxicologists have been numerous, and praised by his students and followers. He has been responsible, directly in the classroom, or indirectly through his many works, for broadening the intellectual horizons of many hundreds of toxicologists and nurturing those in training. For his dedicated practice and advocacy to the science of toxicology, the Society of Toxicology is pleased to name Dr. John H. Duffus the 2012 SOT Education Award recipient.



FOUNDERS AWARD



John A. Moore

John A. Moore, DVM, DABT, is presented the 2012 SOT Founders Award in recognition of his outstanding leadership in fostering the role of toxicological sciences in safety decision-making through the development and application of state-of-the-art approaches that elucidate, with a high degree of confidence, the distinctions for humans between safe and unsafe exposures to chemical and physical agents.

Dr. Moore has distinguished himself in various governmental and private positions, holding a number of senior positions in the US government, including Deputy Administrator and Assistant Administrator for Pesticides and Toxic Substances of the US EPA, Deputy Director of the National Toxicology Program (NTP), and Director of Toxicology Research and Testing at the National Institute of Environmental Health Sciences (NIEHS).

He served for ten years as founder and President and CEO of the not-for-profit Institute for Evaluating Health Risks (IEHR) and recently completed a five-year term as principal scientist at the NTP Center for the Evaluation of Risks to Human Reproduction. Dr. Moore has served on several National Research Council committees, including being chair of the Subcommittee on the Toxicity of Diisopropyl Methylphosphonate and a member of the Subcommittee on Reproductive and Developmental Toxicology.

Dr. Moore has also served as the President of the Toxicology Education Foundation. He also reviewed new scientific data and advised the manufacturer on additional studies that characterized the toxicity profile of perfluorinated chemicals such as PFOS. This work led to the quick withdrawal of such compounds from commercial use in an expedient and orderly manner. At IEHR and later for NTP's Center for Evaluating Risks to Human Reproduction (CERHR), he designed and implemented a program to comprehensively review toxicology and exposure data on reproductive and developmental toxicology. This resulted in the strongest documents on this important area of chemical safety. Although retired, Dr. Moore has continued to serve on various panels and boards.

For his contributions to toxicology and to the safety assessment and regulation of chemicals, the Society recognizes Dr. John A. Moore as the 2012 SOT Founders Award recipient.



GLOBAL SENIOR SCHOLAR EXCHANGE PROGRAM



Orish Ebere Orisakwe

African Region Recipient

Orish Ebere Orisakwe, PhD, ERT, ATS, MRSC, Professor of Pharmacology & Toxicology, Professor & Chair, Toxicology Unit, Faculty of Pharmacy, University of Port Harcourt, Rivers State, Nigeria.

US University Host: Judith T. Zelikoff, PhD New York University School of Medicine Department of Environmental Medicine.

As a fellow of the Academy of Toxicological Sciences and European Registered Toxicologists, Professor Orisakwe has shown sustained leadership and direction in toxicology, especially in Sub-Saharan Africa. His department and toxicology program have been recognized by the World Health Organization (WHO) as a WHO Global Environment Monitoring System (GEMS) that is responsible for food monitoring and assessment. Dr. Orisakwe is a WHO—appointed Adviser, Scientific Expert, and study group coordinator for food additives, lead poisoning, and other toxicology-related issues. To highlight his regional influence, Professor Orisakwe is the African Society for Toxicological Sciences (ASTS) coordinator for Nigeria, an Advisor to the Cameroon Society for Toxicological Sciences (CSTS), President of the West African Society of Toxicology (WASOT), and Coordinator of the Society of Environmental Toxicology and Chemistry (SETAC), West Africa. He is also the Country Correspondent (Nigeria) for the World Library of Toxicology (WLT) and has been instrumental in identifying other Country Correspondents in Africa.

In recent years Professor Orisakwe's toxicology program has shown promising growth in the output of quality research papers, increased the number of participants in conferences, and disseminated information in public lectures and awareness campaigns. His current research focus includes: (i) sources, behavior, fate, and effects of metals in the natural and contaminated environments (electronic waste, telephone mast, acid rain, etc.); (ii) environmental justice and disproportionate exposure of communities to environmental pollutants; (iii) environmental/public health problems in the developing countries, especially in the oil rich Niger Delta; and (iv) risk assessment.

The GSSEP offered Professor Orisakwe the opportunity to interact with world-renowned experts, including his host, Dr. Zelikoff, to develop collaborations, and to identify ways to strengthen his toxicology curriculum, which will be of immediate benefit to his department and program. He also looks forward to using the opportunity to create links that will attract international scholars as Visiting Professors to Nigeria and the surrounding region.



Jesus Olivero-Verbel

Latin American Region Recipient

Jesus Olivero-Verbel, PhD, PhD Program in Environmental Toxicology (Doctorado en Toxicología Ambiental) Faculty of Pharmaceutical Sciences, Campus of Zaragocilla, University of Cartagena, Cartagena, Colombia.

US University Host: Miroslav Styblo, PhD Research Associate Professor University of North Carolina Chapel Hill.

Co-Host: Michael P. Waalkes, PhD, Chief NTP Laboratory Branch, NIEHS, DNTP.

Professor Olivero-Verbel is the recipient of numerous recognitions, including Distinguished Research Professor Ivo Seni Canata, Universidad de Cartagena, 2010; SOT/AstraZeneca/IUTOX Travel Fellowship, 2010; Ten Outstanding Young Citizens of the Year from the Junior Chamber, Colombia, 2003; and the Third World Academy of Sciences (TWAS) Award for Young Scientists from Colombia, 2003. He has authored or co-authored over 50 research papers in peer-reviewed journals, as well as numerous books and book chapters.

The Global Senior Scholar Exchange Program (GSSEP) will assist Dr. Olivero-Verbel in improving and developing his graduate program in environmental toxicology, the first in Colombia. It will allow the formation of a research network with his host, Dr. Miroslav Styblo and co-host, Dr. Michael Waalkes, as well as with other US scientists that will lead to improved understanding, and the formulation of solutions to environmentally derived toxicological problems in Colombia.

Through the GSSEP Dr. Olivero-Verbel seeks to decrease the gap between economical and sustainable development in the country, leading to less environmental damage and more possibilities for the future of Colombia and indeed the region. Currently, gold and coal mining are high-priority issues for the national government, but these activities are creating environmental problems that are threatening ecosystems, biodiversity, and human health. Therefore, the PhD Program in Environmental Toxicology at the University of Cartagena (close to the mining region) hopes to develop platforms where economic growth and the protection of human health and ecosystems can take place together, as well as to develop new research strategies to generate data useful to take necessary actions to halt and prevent further environmental pollution and deleterious effects on humans.

Dr. Olivero-Verbel's doctoral students benefited from the GSSEP program, as they were able to learn many new tools and strategies related to their research interests gained during his US visit, and his visit opened opportunities for academic exchanges with US universities. Through the GSSEP, a bridge was built transferring ideas and science between the United States and Colombia, creating ways of thinking that allow necessary international consensus to promote the protection of the environment, as Colombia struggles to attain sustainable development.

2012 HONOR AND AWARD RECIPIENTS



LEADING EDGE IN BASIC SCIENCE AWARD



Myung-Haing Cho

Myung-Haing Cho, DVM, PhD, Professor, College of Veterinary Medicine, Seoul National University, Korea, is awarded the 2012 SOT Leading Edge in Basic Science Award for his extensive research on lung toxicity and cancer, toxicity and efficacy of nanoparticles, gene delivery, and stem cells.

Dr. Cho has investigated the health impact of high dietary inorganic phosphate and found that it increases lung tumorigenesis via altering Akt

signaling. With respect to the mechanical basis of lung cancer treatment, he found that the apoptosis induced by 4-(N-methylnitrosamino)-1-(3-pyridyl)-butanone occurred initially through Cap-independent protein translation and then changed to Cap-dependent protein via translation at a later stage. Also, he has reported that aerosol delivery of a complex of glucosylated polyethylenimine/programmed cell death 4 (PDCD4) through a nose-only inhalation facilitates the apoptosis of lungs via regulation of proteins relevant to cell-cycle control and suppression of AP-1 activity, providing a more efficient approach to tumor prevention and treatment.

Dr. Cho has been very active in the field of nanomaterials toxicology and their systemic toxicity, and has vital experience in studying for the toxic effects of nanomaterials in lungs as well as in immune systems. He also cleared the mechanism of apoptosis induction by nanoparticles using various cell lines including HeLa cell, CT-26 carcinoma cells, JB6 cells, and lung cancer cells, and validated short-term and subchronic inhalation toxicity of silver nanoparticles with a mechanistic explanation in a variety of animal models involving AP-1 luciferase reporter mice, K-ras null mice, A/J mice, and monkey. Among his more recent contributions, Dr. Cho has designed a noninvasive aerosol gene delivery system that makes it possible to reach large surface areas through inhalation treatment. Additionally, he has investigated more efficient ways to treat lung cancer and found that repeated aerosol delivery of carboxyl-terminal modulator protein suppresses lung tumors in K-rasLA1 mice.

Dr. Cho's accomplishments have paved the way for toxicologists to identify specific targets and pathways of nanomaterials, leading to new approaches to tumor therapy using nanomaterials.

In recognition of his accomplishments and impact on the field of toxicology, the Society of Toxicology recognizes Dr. Myung-Haing Cho as the 2012 SOT Leading Edge in Basic Science Award.



MERIT AWARD



Curtis D. Klaassen

Curtis D. Klaassen, PhD, DABT, ATS, Distinguished Professor, University of Kansas Medical Center (KUMC), is the recipient of the 2012 SOT Merit Award in recognition of his distinguished contributions to toxicology throughout his career.

Dr. Klaassen's reputation in toxicology research and education has drawn students from all over the world to be trained under his mentorship. Since joining the faculty of KUMC in 1968,

he has mentored 121 scientists, including 31 students who received their PhDs and 64 postdoctoral fellows. Among these trainees, many have become pillars of the Toxicology and Pharmacology society, and Dr. Klaassen's training and continuous support to all his students have certainly contributed to their success and achievements.

Dr. Klaassen has served as editor of the Casarett and Doull's Toxicology textbook for several decades, and inaugural editor of *Toxicological Sciences* and associate editor for the *Journal of Pharmacology and Experimental Therapeutics*, two of the most important journals for the fields of toxicology and pharmacology. He has published more than 600 research articles, reviews, and book chapters, and has been ranked in the Top five Most Highly Cited Pharmacologists/Toxicologists in the world for the last decade.

In addition to his remarkably productive contributions to the scientific literature and education of the next generation of toxicologists, Dr. Klaassen has contributed professionally in many other ways. He has been elected to 27 different positions in professional organizations, including President of the Society of Toxicology (1990–1991) and President of IUTOX (1992–1995); he also has served on 75 national/international committees of prominence and as the Chair for the Department of Pharmacology, Toxicology, and Therapeutics at the KUMC (2002–2011). Dr. Klaassen also has participated on numerous panels, committees, and study sections and has organized several national and international meetings on heavy metal toxicology, including the Midwest Toxicology Course, one of the most respected and important annual training courses for toxicologists preparing for board certification.

In recognition of his scientific accomplishments and his tireless efforts in championing both the science of toxicology and the Society of Toxicology, Dr. Curtis D. Klaassen is presented with the 2012 SOT Merit Award.



OUTSTANDING GRADUATE STUDENT LEADERSHIP AWARDS



Chad Brocker
University of Colorado, CO



Azita Cuevas
New York University School of Medicine, NY



PERRY J. GEHRING DIVERSITY STUDENT TRAVEL AWARD



Alba K. Gonzalez Rivera
University of Puerto Rico Arecibo, Arecibo, Puerto Rico

Abstract Title: Effects of Acute Exposure to Methylmercury on the Viability of Primary Cerebellar Granule Cells of Lethargic Mice



SOT/ASTRAZENECA/IUTOX TRAVEL FELLOWSHIPS

- Oladipo Ademuyiwa** (*Nigeria*)
- Murali Badanthadka** (*China*)
- Sunisa Chaiklieng** (*Thailand*) **
- Xianju Huang** (*China*)
- Zhenlie Huang** (*China*)
- Guojun Li** (*China*)
- Jianlin Lou** (*China*) **
- Maria Samayoa** (*Guatemala*)
- Haixue Wang** (*China*)
- Jingshu Zhang** (*China*)

Xiaofeng Zhang (*China*)

Li Zhou (*China*)

** Sponsored by the SOT Endowment Global Fund.



TRANSLATIONAL IMPACT AWARD



John G. Benitez

John G. Benitez, MD, MPH, Associate Professor of Clinical Medicine and Associate Professor of Emergency Medicine, Vanderbilt University, Nashville, Tennessee; Managing Director, Tennessee Poison Control Center, Nashville, Tennessee; and Associate Professor of Clinical Emergency Medicine, University of Rochester, Rochester, New York, is the 2012 SOT Translational Impact Award recipient in recognition of his outstanding contributions to human and public health related to toxicology.

Dr. Benitez's commitment to protecting human and public health from toxic substances was recently demonstrated in the 2008 Tennessee Valley Authority Kingston Fossil Plant fly ash spill. Dr. Benitez, of the Tennessee Poison Control Center, and his colleagues (Drs. Seger and Williams) and Dr. Donna Cragle (Oak Ridge Associated Universities) immediately responded to the needs of the public and local health officials by providing critical information about the nature of the exposure and its potential health effects and instituting a health surveillance program that included clinical laboratory testing for heavy metals for those in the affected community. His quick actions led to findings that allowed health officials to conclude that no significant health effects resulted from the public's exposure to the fly ash.

Dr. Benitez has served in various roles at the state, national, and international level as the director of a regional resource center (regional hospital disaster preparedness) and center for disaster medicine and emergency preparedness (URMC), the director of a regional training center (Advanced Disaster Life Support), the managing director of a state poison control center (NY and TN), medical director of a regional poison center (PA), and the chairperson of the poison plant group of the International Programme on Chemical Safety, WHO. As a recently joined member of the Society of Toxicology and the SOT Occupational and Public Health Specialty Section and the newly created Clinical and Translational Toxicology Specialty Section, he has rapidly become integrated and involved in the activities of the Society and the OPPTS and CTSS sections. He currently serves as the interim secretary of the CTSS. He was an invited speaker at the 2010 SOT Annual Meeting in Salt Lake City, where he gave a timely description of the medical actions ongoing on behalf of those in the area of exposure; and was a past member and invited speaker of the Allegheny-Erie Chapter of the Society of Toxicology.

2012 SPONSORED AWARD RECIPIENTS

ASTRAZENECA TRAVELING LECTURESHIP AWARD



**Bhagavatula
Moorthy**

Bhagavatula Moorthy, PhD, Director, Neonatology Research Program, Department of Pediatrics, Baylor College of Medicine, Houston, Texas, is awarded the 2012 AstraZeneca Traveling Lectureship Award.

Dr. Moorthy teaches principles of toxicology and pharmacology to medical students as part of the Integrated Problem Solving (IPS) Course at Baylor College of Medicine. He has been very active in mentoring research

fellows, clinical neonatology fellows, and junior faculty in toxicology. In 2007, he received the Outstanding Research Teacher Award from the Department of Pediatrics at Baylor, and the Fulbright and Jaworski award for excellence in teaching at Baylor College of Medicine. He has been an active member of the Society of Toxicology since 1995, serving as President of the Gulf Coast Chapter of the SOT (2010–2011). He successfully organized the 2010 fall meeting (October 14–15, 2010) at Baylor College of Medicine, has served on the MBSS program committee, and also has developed and chaired a continuing education course on transgenic mouse models in toxicology. His workshop proposal on mechanisms of carcinogenesis by polycyclic aromatic hydrocarbons (PAHs), submitted jointly with the NIEHS, has been accepted by the SOT for presentation at the 2012 SOT Annual Meeting. He has previously served on the editorial board of *Toxicology Letters*, and is currently on the editorial board of *Environmental Health Perspectives*, *Journal of Chromatography and Separation Techniques*, and *Journal of Carcinogenesis and Mutagenesis*. He also has served on the XNDA (NIH) Study Section (2005–2009), and has reviewed grants for the NIEHS superfund research program, NIEHS Children's center, and numerous other special emphasis panels.

Dr. Moorthy intends that the AstraZeneca Travelling Lectureship will expose him to diverse areas that are relevant and important to his own toxicology research programs in the area of carcinogenesis and BPD. He expects that his proposed visits will bring a new perspective into his research work and will also provide an infusion of new knowledge, ideas, and technologies that will further advance his scholarly productivity. SOT is pleased to announce Dr. Bhagavatula Moorthy as the recipient of the 2012 AstraZeneca Travelling Lectureship Award.

COLGATE-PALMOLIVE AWARDS FOR STUDENT RESEARCH TRAINING IN ALTERNATIVE METHODS



Agnes Forgacs, Michigan State University, East Lansing, MI

Project Title: High-Throughput Assay Development for Steroidgenesis

Host Institution: National Center for Computational Toxicology, Environmental Protection Agency, Durham, NC



René Viñas, University of Texas Medical Branch, Galveston, TX

Project Title: Development of an Automated High-Throughput Screening Method for the Analysis of the Estrogenic Potential of Polychlorinated and Conjugated Metabolites of Bisphenol-A

Host Institution: University of Texas Medical Branch, Galveston National Laboratory—Assay Development Service Division, Galveston, TX

COLGATE-PALMOLIVE GRANTS FOR ALTERNATIVE RESEARCH



Mingzhu Fang, University of Medicine and Dentistry of New Jersey, Piscataway, NJ

Project Title: Development of an *In Vitro* Assay for Assessing the Effects of Chemical Exposures on Circadian Rhythm



Jennifer Freeman, Purdue University, West Lafayette, IN

Project Title: Development and Application of an Aged Zebrafish Model to Assess the Role of Environmental Chemicals in Neurodegenerative Disease Pathogenesis

2012 SPONSORED AWARD RECIPIENTS

NOVARTIS GRADUATE STUDENT FELLOWSHIP AWARD



Julia Rager, *University of North Carolina at Chapel Hill, Chapel Hill, NC*

Project Title: The Effects of Formaldehyde Exposure on microRNA Expression Profiles

SYNGENTA FELLOWSHIP AWARD IN HUMAN HEALTH APPLICATIONS OF NEW TECHNOLOGIES



Benjamin Moeller
University of North Carolina at Chapel Hill, Chapel Hill, NC

Project Title: Measurement of Formaldehyde Specified DNA-Protein Crosslinks

PFIZER UNDERGRADUATE STUDENT TRAVEL AWARD



Ashley Press
High Point University



Darien Shapiro
University of Utah



Qi Wang
Rutgers University



Brittany Winner
Sam Houston State University



Frances A. Xin
St. Olaf College

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- Colgate-Palmolive Grants for Alternative Research
- Colgate-Palmolive Postdoctoral Fellowship Award in *In Vitro* Toxicology

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- Undergraduate Educator Award

2012 GRADUATE STUDENT TRAVEL SUPPORT RECIPIENTS

SOCIETY OF TOXICOLOGY GRADUATE STUDENT TRAVEL SUPPORT

Kelly Almond, *St. Johns University*
Anthony Apostoli, *Queen's University*
Sainath Babu, *Southern University and A&M College*
Melissa Badding, *University of Rochester Medical Center*
Brittany Baisch, *University of Rochester Medical Center*
Nitin Bhardwaj, *Jawaharlal Nehru University*
Kristin Bircsak, *Rutgers University*
Josephine Bonventre, *Rutgers University/UMDNJ*
Jessica Bradley, *Louisiana State University Health Science Center*
Alex Carll, *University of North Carolina at Chapel Hill*
Sudipta Chakraborty, *Vanderbilt University Medical Center*
Elaina Chambers, *University of Louisville*
Hemantkumar Chavan, *University of Kansas Medical Center*
Xin Chen, *University of Toronto*
Daniel Consoer, *University of Minnesota*
Sarah Cook, *University of Utah*
Mo Dan, *University of Kentucky*
Danica DeGroot, *University of California Davis*
James Delgado, *Iowa State University*
Daniel Dever, *University of Rochester*
Paul Eden, *Mississippi State University*
Sadaff Ejaz, *University of the Sciences*
Adam Filgo, *University of North Carolina at Chapel Hill*
Agnes Forgacs, *Michigan State University*
Xue Fu, *Purdue University*
Sanket Gadhia, *St. John's University*
Felix Garcia-Montes de Oca, *CINESTAV-IPN*
Kaylyn Germ, *The Institute of Environmental and Human Health*
Zachariah Guerrette, *University of Washington*
Sean Harris, *University of Washington*
Jenny Hennen, *University Trier*
Xin Hu, *University of Iowa*
Zhenlie Huang, *Nagoya University Graduate School of Medicine*
Swetha Inturi, *University of Colorado Denver*
Amy Irving, *University of Wisconsin Madison*
B Jayasinghe, *University of South Carolina*
George Jules, *Meharry Medical College*
Pranita Katwa, *East Carolina University*
Kelly Kirkley, *Colorado State University*
Narendrababu Kolisetty, *University of Georgia*
Mansi Krishan, *University of Cincinnati*
Tiffany Kung, *Rutgers University*
Daniela Kurzatkowski, *St. John's University*
Tejas Lahoti, *Penn State University*

Awards in the amount of \$1,000 each were provided to graduate students in toxicology to support travel to the SOT 51st Annual Meeting in San Francisco, California.

April Lake, *University of Arizona*
Jessica LaRocca, *Brown University*
Alexandria Lau, *University of Arizona*
Maxwell Leung, *Duke University*
Alexcia Linthicum, *North Carolina State University*
Mariya Liyasova, *University of Nebraska Medical Center*
Lucina Lizarraga, *University of Arizona*
Dan Lou, *Institute of Risk Analysis and Risk Communication*
Chuanwen Lu, *The Institute of Environmental and Human Health*
Madisa Macon, *University of North Carolina at Chapel Hill*
Casey Manning, *University of Rochester Medical Center*
Wilbes Mbiya, *Portland State University*
Sean McGee, *University of South Carolina*
Jaime Mirowsky, *New York University School of Medicine*
Anurag Mishra, *West Virginia University*
Jeanne Mulder, *Queen's University*
Brittany Murphy, *University of Colorado Denver*
Thitirat Ngaoteprutaram, *Michigan State University*
Ogunlana Olubanke, *Covenant University*
Jessica Pellman, *Indiana University School of Medicine*
Christina Perez, *University of North Carolina at Chapel Hill*
Ashwini Phadnis, *Michigan State University*
Daniella Pizzurro, *University of Washington*
Mary Popovech, *New York University School of Medicine*
Jesse Port, *University of Washington*
Ronald Pringle, *Mississippi State University*
Vincent Ramirez, *University of Connecticut*
Roshni Rao, *University of South Carolina*
Ashish Sachan, *Iowa State University*
Jessica Sapiro, *University of Arizona*
Thomas Simones, *University of Montana*
Surendra Singh, *University of Colorado Denver*
Steven Singleton, *University at Buffalo*
Graham Skelhorne-Gross, *Queen's University*
Arya Sobhakumari, *University of Iowa*
Jessica Sorrentino, *University of North Carolina at Chapel Hill*
Shyla Stanley, *National Institute of Occupational Safety and Health*
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Sunil Tomar, *University of South Carolina School of Medicine*
Lisa Truong, *Oregon State University*
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Yi Zhu, *Wadsworth Center*

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