

SOT HONORS, 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, featured recipients are honored at a special Awards Ceremony at the SOT Annual Meeting and their names are listed in SOT publications. The deadline for 2015 Honorary Membership and Award nominations is October 9, 2014.

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 SOT 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 Graduate Student Leadership Committee 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 administered by SOT, Regional Chapters, Special Interest Groups, or Specialty Sections. 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/awards.

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*	1995	..... Gertrude B. Elion*	2008	..... H. Robert Horvitz
1962	..... W. F. Von Oettingen*	1995	..... Charles S. Lieber*	2009	..... Gilbert S. Omenn
1962	..... Torald H. Sollman*	1996	..... Sten G. Orrenius	2009	..... Sir John E. Walker
1963	..... Ethel Browning*	1996	..... Dennis Parke*	2010	..... Sir Philip Cohen
1966	..... R. Tecwyn Williams*	1997	..... John E. Casida	2010	..... Ferid Murad
1976	..... Norton Nelson*	1997	..... Roger W. Russell*	2011	..... William C. Hays
1982	..... George H. Hitchings*	1998	..... Jud Coon	2011	..... Frances Oldham Kelsey
1986	..... Bernard B. Brodie*	1998	..... Michel Mercier	2012	..... Frank J. Gonzalez
1986	..... Herbert Remmer*	1999	..... William O. Robertson	2012	..... Leroy Hood
1991	..... Hyman J. Zimmerman*	1999	..... Takashi Sugimura	2013	..... Bruce A. Beutler
1994	..... Ronald W. Estabrook*	2000	..... Findlay Russell*	2013	..... Jeremy K. Nicholson
1994	..... Wendell W. Weber	2001	..... Herbert L. Needleman	2014	..... John B. Gurdon
		2007 Mario Molina	2014 Donald E. Ingber
		2008 Lee Hartwell		



INDICATES AN SOT SPONSORED AWARD

*DECEASED

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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. Cranney
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
2013 Wei Xu
2014 Matthew J. Campen



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
2013 Moiz Mumtaz
2014 B. Bhaskar Gollapudi



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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 Executive 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 must 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, 2013, and September 30, 2014. 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
2013 Petra Haberzettl, Anne Loccisano, Yuanyuan Xu
2014 Annie Lumen, Gul Mehnaz Mustafa, Phoebe A. Stapleton



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-in-chief 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, J. A. Swenberg
2012 J. G. DeKeyser, E. M. Laurenzana, E. C. Peterson, T. Chen, C. J. Omiecinski
2013 R. Sellamuthu, C. Umbright, J. R. Roberts, R. Chapman, S. Young, D. Richardson, H. Leonard, W. McKinney, B. Chen, D. Frazer, S. Li, M. Kashon, and P. Joseph
2014 Anja Schinwald, Fiona A. Murphy, Adriele Prina-Mello, Craig A. Poland, Fiona Byrne, Dania Movia, James R. Glass, Janet C. Dickerson, David A. Schultz, Chris E. Jeffree, William MacNee, and Ken Donaldson

Frank R. Blood Award

Presented 1974–1994

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

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- 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



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)
2013 Congressman Dave Reichert (R-WA)
2014 Senator Tom Udall (D-NM)
Congressman Fred Upton (R-MI)



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

Presented 2000–2006

The Contributions to Public Awareness of the Importance of Animals in Toxicology Research Award was presented 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.

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
2013 John J. Lemasters
2014 Richard E. Peterson



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

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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
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
2013	.....	Rick G. Schnellmann
2014	.....	Herman N. Autrup



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
2013	.....	Martin L. Stephens



FOUNDERS AWARD

The SOT Founders Award, sponsored by the SOT Endowment Fund, 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
2013	.....	William Alfred Suk
2014	.....	John A. Thomas



GLOBAL SENIOR SCHOLAR EXCHANGE PROGRAM

The Global Senior Scholar Exchange Program (GSSEP) funds two mid-career to 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 established toxicology programs, academic, government, or industry organization(s) worldwide. The Host will in turn visit the Scholar's institution. The program provides a cash stipend and travel support for each pair. The 2014 recipients can be found under the GSSEP section on page 345.

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)
2013	.....	Sri Noegrohati (Hosts: Michael L. Dourson and Bernard K. Gadagbui, Toxicology Excellence for Risk Assessment) and Mohamed Mosaad Salama (Host: Mohamed Abou-Donia, Duke University Medical Center)
2014	.....	Gonzalo J. Diaz (Host: Wilson Kiiza Rumbelha, Iowa State University College of Veterinary Medicine), and Ebenezer O. Farombi (Host: James E. Klaunig, Indiana University)



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 352.

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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
2013 Donald E. Ingber
2014 Vishal S. Vaidya



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
2013 Frederick P. Guengerich
2014 Jay I. Goodman



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 (for example, 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.

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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
2013 Shirisha Chittiboyina, Hannah Pope-Varsalona
2014 Alessandro Venosa, Christin M. Grabinski,
Brittany Baisch



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 (for example, 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.

Award Recipients

- 2009 Vanessa De La Rosa
2010 Nygerma L. Dangleben
2011 Eva A. Amouzougan
2012 Alba K. Gonzalez Rivera
2013 Alexandra Colón-Rodríguez
2014 Pamela B. Tijerina



PFIZER SOT UNDERGRADUATE STUDENT TRAVEL AWARD

Pfizer SOT Undergraduate Student Travel Awards are presented by 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., and SOT will provide up to ten 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
2013 Amy Ashworth, Naing Bajaj, Adrienne R. Klinger,
Anna Lang, Douglas J. Saforo
2014 Wesley Cai, Cory V. Gerlach, Lukas Gora, Elaine Kuo,
Virginia Mitchell, Kia Z. Perez-Vale, Ricardo Rivera-
Soto, Bradley Rowland, Kelly Schlotman, Jennette
Shoots, Kelly VanDenBerg



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
2013 Martha A. Lindsey
2014 David L. Eaton

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SOT/ASTRAZENECA/ SOT ENDOWMENT FUND/IUTOX TRAVEL AWARDS

The Society of Toxicology sponsors travel awards 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 Srianujata (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 García (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 Srianujata (Thailand)
Omoniyi Kayode Yemitan (Nigeria) **
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)
- 2013 John I. Anetor (Nigeria)
Kailen Boodhia (South Africa)
Karina R. Caballero-Gallardo (Colombia)
Osama S. El-Tawil (Egypt)
Miriam Carolina Guzmán Quilo (Guatemala)
Wafa Hassen (Tunisia)
Saleem Khan (India)
Wenceslao A. Kiat Jr. (Philippines)
Ravinesh Mishra (India)
Olubanke O. Ogunlana (Nigeria)
- 2014 Samir Abbès, (Tunisia)
Wafa Hassen, (Tunisia)
Gopabandhu Jena, (India)
Sameeh A. Mansour, (Egypt)
Siti N. Mubarakah, (Indonesia)
Olufunke E. Ola-Davies, (Nigeria)
Iyekhoetin M. Omoruyi, (Nigeria)
Ishiaq Omotosho, (Nigeria)
Muneeb U. Rehman, (India)
Yang Song, (China)
Jing Zhang, (China)

** Sponsored by the SOT Endowment Global Fund.

SOT HONORS, AWARD DESCRIPTIONS, AND HISTORY



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
2014 Timothy D. Phillips



TRANSLATIONAL/BRIDGING TRAVEL AWARD

Two awards may be given annually to assist with travel to the SOT Annual Meeting 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. Applicants may be either members or non-members of SOT and should provide a statement on how they will benefit from the travel award and be willing to write an article about the experience for the SOT *Communiqué*, attend the Clinical and Translational Toxicology Specialty Section meeting (held during the SOT Annual Meeting) and contribute to the process for developing ideas for the following year scientific sessions of the SOT Annual Meeting. This award consists of a cash stipend and a complimentary registration for the SOT Annual Meeting.

Award Recipient

2012 Xuemei Huang
2013 M. Shane Hutson



SOT Society of Toxicology ENDOWMENT FUND UNDERGRADUATE EDUCATOR AWARD

The Undergraduate Educator Award, sponsored by the SOT 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.

Award Recipient

2011 Joan B. Tarloff*
2012 Sue M. Ford
2013 Sidhartha D. Ray
2014 William D. Atchison



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.

SPONSORED AWARD DESCRIPTIONS AND HISTORY

ASTRAZENECA TRAVELING LECTURESHIP AWARD

Presented 1990–2012

The AstraZeneca Traveling Lectureship Award was presented through the Society of Toxicology to recognize excellence in research and service in toxicology. The Award also promote greater collaboration between European and North American toxicologists by enabling North American toxicologists to undertake a three-four week lecture tour of Europe. The award helped to familiarize recipients with research and regulatory issues in Europe and to bring a North American perspective to these issues.

Award Recipient

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. VanDuyn
2011 Vijay More
2012 Agnes Forgacs, René Viñas, Aaron Lulla
2013 Aaron Lulla, Jamie Moscovitz, Alexandra Muñoz
2014 Laura E. Armstrong, Christin M. Grabinski

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
- 2013 Lei Li Kerr, Hao Zhu
- 2014 Patricia E. Ganey, Matthew Troese

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
- 2013 Melanie Adler
- 2014 Jonathan H. Shannahan

COLGATE-PALMOLIVE TRAVELING LECTURESHIP IN ALTERNATIVE METHODS IN TOXICOLOGY AWARD

Presented 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

SPONSORED AWARD DESCRIPTIONS AND HISTORY

NOVARTIS GRADUATE STUDENT FELLOWSHIP AWARD

Presented 1989–2012

The Novartis Graduate Student Fellowship Award was presented to student members of the SOT engaged in full-time graduate study towards a PhD in toxicology. The major professor must be an SOT member. Evaluation of the applications was based primarily on originality of the dissertation research, research productivity, relevance to toxicology, scholastic achievement, and letters of recommendation.

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

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
2013 Julia E. Rager
2014 Dilshan S. Harischandra



SOT | Society of Toxicology

***Creating a Safer and Healthier World
by Advancing the Science of Toxicology***

***Do you know a toxicologist
who deserves to be recognized?***

SOT recognizes distinguished toxicologists and students with many prestigious awards each year. In addition to receiving the specific award, recipients are honored at the special Awards Ceremony at the SOT Annual Meeting and their names are listed in SOT publications. Most award nominations and applications are submitted through a quick online process.

Applications for 2015 national SOT awards are due October 9, 2014.

***Regional Chapter Awards,
Special Interest Group Awards,
Specialty Section Awards, and some
SOT Awards have various deadlines
throughout the year.***

Visit the Awards and Fellowships section of the website for award descriptions, additional information, and to make nominations.

www.toxicology.org/awards

2014 HONOR AND AWARD RECIPIENTS



HONORARY MEMBERSHIP



John B. Gurdon

Sir John B. Gurdon, Kt, DPhil, DSc, FRS, was a zoology undergraduate at Oxford University and returned, after a postdoc year at CalTech, as Lecturer in Embryology. In 1971, he joined the MRC molecular biology lab in Cambridge to continue his work on amphibian developmental biology. In 1983 as John Humphrey Plummer Professor of Cell Biology at the University of Cambridge, he co-founded a research institute of developmental and cancer biology (now named the Gurdon Institute) with Professor Laskey, acting as Chairman until 2002. His career has concentrated on

nuclear transplantation in the frog and experiments to discover the value of mRNA microinjection, mechanisms of response to morphogen gradients, and recently, mechanisms of nuclear reprogramming by *Xenopus* oocytes and eggs. Master of Magdalene College Cambridge from 1995–2002, he has received various recognitions, including the 2009 Lasker Award for Basic Medical Science and the Nobel Prize for Physiology or Medicine in 2012.

The Society is pleased to recognize Dr. Gurdon as a 2014 SOT Honorary member.



HONORARY MEMBERSHIP



Donald E. Ingber

Donald E. Ingber, MD, PhD, Founding Director of the Wyss Institute for Biologically Inspired Engineering, Harvard University; the Judah Folkman Professor of Vascular Biology at Harvard Medical School and Boston Children's Hospital; and Professor of Bioengineering at the Harvard School of Engineering and Applied Sciences. He also leads the Biomimetic Microsystems platform in which microfabrication techniques from the computer industry are used to build functional circuits with living cells as components. Dr. Ingber has authored

more than 325 publications and 70 patents and has received numerous honors including the Holst Medal, Pritzker Award from the Biomedical Engineering Society, Rous-Whipple Award from the American Society for Investigative Pathology, Lifetime Achievement Award from the Society of *In Vitro* Biology, the Department of Defense Breast Cancer Innovator Award and SOT Leading Edge in Basic Science Award.

The Society is pleased to recognize Dr. Ingber as a 2014 SOT Honorary member.



ACHIEVEMENT AWARD



Matthew J. Campen

Matthew J. Campen, PhD, MSPH, is awarded the 2014 SOT Achievement Award.

Dr. Campen received his PhD degree from the Department of Environmental Science and Engineering at the University of North Carolina at Chapel Hill, School of Public Health in 2000 and has served as an Associate Professor, Pharma-ceutical Sciences Department, College of Pharmacy, University of New Mexico, in Albuquerque, New Mexico, since 2009.

Dr. Campen has established methods to assess mode of action of vascular dysfunction and mediator-based injury. He has developed an innovative approach *in vitro* in which he can use rodent blood vessels as a biometric tool to detect and assess mediators that arise in the serum in humans exposed to ozone or PM. His laboratory is unique in its ability to explore acute vascular injury and the pathogenesis of atherosclerotic disease due to chronic air pollution exposure.

Dr. Campen has contributed a great deal to our understanding of how airborne toxicants, such as particulate matter and ozone, cause systemic vascular insult. His most recent work (Channell et al., *ToxSci* 2012; Robertson et al., 2013) has shown that, in both rodents and humans, exposure to inhaled pollutants can induce compositional changes in the blood that leads to inflammatory responses in the systemic vasculature, which is effectively the initiating step in atherosclerosis. Additionally, Dr. Campen has contributed to regulatory efforts by the Environmental Protection Agency, writing sections on cardiovascular health outcomes related to carbon monoxide and particulate matter for recent Integrated Science Assessments.

Dr. Campen has been a member of SOT since 2002. He received the Mary O. Amdur Award for Environmental Inhalation Toxicology in 1999 and the Young Investigator Award from the Inhalation and Respiratory Specialty Section in 2013. He served in the presidential chain for the Mountain West Regional Chapter of SOT from 2005–2007. He was a member of the SOT Disease Prevention Task Force, 2008–2011. In addition, Dr. Campen was President and a Founding Officer of the Cardiovascular Specialty Section, 2010–2012. He currently serves on the Publications Committee (2012–2016, Co-Chair, 2013). Dr. Campen served with distinction as the interim Co-Editor-in-Chief of *Toxicological Sciences* during this past year.

The Society is pleased to present Dr. Campen with the 2014 SOT Achievement Award.



INDICATES AN SOT SPONSORED AWARD

2014 HONOR AND AWARD RECIPIENTS



ARNOLD J. LEHMAN AWARD



B. Bhaskar Gollapudi

B. Bhaskar Gollapudi, PhD, is awarded the 2014 SOT Arnold J. Lehman Award.

Dr. Gollapudi received his PhD degree in Biology from Dalhousie University, Canada. He is currently a Senior Managing Scientist in Exponent's Health Sciences Center for Toxicology and Mechanistic Biology.

Dr. Gollapudi specializes in genetic toxicology and chemical carcinogenesis with emphasis on the identification of mode of action and human relevance. Dr. Gollapudi has made many

contributions to the field of Genetic Toxicology, including the development of novel approaches for assessing genotoxicity, integration of contemporary molecular biology techniques to understand the mode of genotoxic action, and, more importantly, in leading the push for a paradigm shift in the dogma that there are no thresholds for genotoxic chemicals.

Currently, he is leading an effort under the auspices of International Workshops on Genotoxicity Testing (IWGT) to standardize a new *in vivo* gene mutation assay (Pig-a), which can be easily integrated into any repeat-dose toxicity studies. Dr. Gollapudi has contributed to the area of transgenic animal models for mutagenicity and carcinogenicity assessment and spearheaded their validation in the chemical/agrochemical industry to inform risk assessment. His focus has been on the application of genetically engineered animal models for the identification of mode of action and human relevance of toxicology findings. In recent years, Dr. Gollapudi contributed to the emerging field of epigenetics by critically evaluating its role in product safety assessment and investigating potential markers predictive of adverse toxicological outcomes. He has applied latest technologies in the safety assessment of a diverse portfolio of substances.

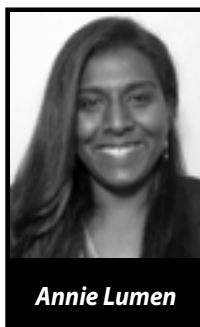
Dr. Gollapudi has been a member of the Society of Toxicology since 1998. He has been very active within the Society, having served as Associate Editor of *Toxicological Sciences* from 2005–Present; member of the SOT Scientific Program Committee from 2011–Present; and member of SOT Career Resource and Development (CRAD) Committee from 2007–2010.

The Society is pleased to present Dr. Gollapudi with the 2014 Arnold J. Lehman Award.



BEST POSTDOCTORAL PUBLICATION AWARDS

The Postdoctoral Assembly congratulates these three recipients for their accomplishment.



Annie Lumen

Annie Lumen, PhD, National Center for Toxicological Research/US FDA, Jefferson, AK
Lumen A, Mattie DR, Fisher JW.

Evaluation of Perturbations in Serum Thyroid Hormones during Human Pregnancy Due to Dietary Iodide and Perchlorate Exposure Using a Biologically Based Dose-Response Model

Toxicological Sciences, 2013 Mar;133(2): 320–341



Gul Mehnaz Mustafa

Gul Mehnaz Mustafa, PhD, University of Texas Medical Branch, Galveston, TX

Mustafa GM, Petersen JR, Ju H, Cicalese L, Snyder N, Haidacher SJ, Denner L, Elferink C.

Biomarker Discovery for Early Detection of Hepatocellular Carcinoma (HCC) in Hepatitis C (HCV) Infected Patients

Molecular and Cellular Proteomics, 2013 Dec;12(12):3640-52. doi: 10.1074/mcp.M113.031252. Epub 2013 Sep 5



Phoebe A. Stapleton

Phoebe A. Stapleton, PhD, West Virginia University, Morgantown, WV

Stapleton PA, Minarchick VC, Yi J, Engels K, McBride CR, Nurkiewicz TR.

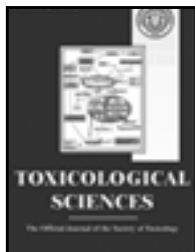
Maternal Engineered Nanomaterial Exposure and Fetal Microvascular Function: Does the Barker Hypothesis Apply?

American Journal of Obstetrics and Gynecology, 2013 Sep; 209(3): 227.e1–227.e11.

2014 HONOR AND AWARD RECIPIENTS



BOARD OF PUBLICATIONS AWARD FOR THE BEST PAPER IN TOXICOLOGICAL SCIENCES



The Society of Toxicology Board of Publications has selected the paper titled "The Threshold Length for Fiber-Induced Acute Pleural Inflammation: Shedding Light on the Early Events in Asbestos-Induced Mesothelioma" as the best paper published in *Toxicological Sciences* in the past year. The authors are Anja Schinwald, Fiona A. Murphy, Adriele Prina-Mello, Craig A. Poland, Fiona Byrne, Dania Movia, James R. Glass, Janet C. Dickerson, David A. Schultz, Chris E. Jeffree, William MacNee, and

Ken Donaldson. The research was conducted at MRC/University of Edinburgh.

Nano-Engineering Answers to Asbestos Toxicity

Many individuals are familiar with the commercials recruiting people into class-action lawsuits for mesothelioma. The scruples of the late-night Saul Goodmans notwithstanding, mesothelioma is a real health concern. Inhalation of asbestos fibers can lead to chronic lung inflammation with devastating results. The malignancies that develop in the parietal pleura impair pulmonary function, cause significant chest pain, and lead to other abdominal difficulties. Thousands of people are diagnosed every year. Many of the sufferers were exposed in the workplace decades ago.

For years we have known that inhalation of the fibers was dangerous. The precautionary steps taken during asbestos abatement are with good reason, but we know less about the process of mesothelioma initiation. What is the role of the fiber dimensions in the disease? Specifically, the field has wanted to ascertain the length at which the fibers become pathogenic. Asbestos products used in industrial nations are a mixed bag with a wide array of fiber lengths. It has been nearly impossible to figure out this threshold length.

In *Toxicological Sciences* (*Tox. Sci.* 2012, 128(2): 461–470), research from the laboratory of Ken Donaldson took advantage of high aspect ratio nanomaterials (HARN), nanowires, nanotubes, and nanorods to shed some light on this problem. The explosive growth of nanotechnology has put an ominous cloud over HARN. There is concern that such materials may lead to future health concerns analogous to the asbestos-mesothelioma connection, but the Donaldson group went right to the silver lining...literally. By synthesizing silver nanowires of precise lengths and then testing them for their ability to cause pleural inflammation, they were able to identify the toxic threshold as 4 microns.

Additional experiments with carbon nanotubes and nickel fibers confirmed the results; fibers longer than 4 microns induced inflammation, which is a key event in mesothelioma initiation.

While the direct introduction of the materials into the pleural cavity bypasses the normal route of inhalation, we know that long (> 25 micron) asbestos fibers traverse these barriers and end up in this pleural space. It is likely that many of the HARN will possess the same qualities as asbestos. Fortunately, we know the dangers of fiber particles and with HARN we have the ability to control their synthesis.

This study not only provided much needed insight into the initiating events in asbestos-induced mesothelioma, it could also prompt changes in industry practices that can prevent future disease incidence. By identifying the threshold length for inflammation, they have generated a blueprint for safer products. As they suggest in the paper, the engineering process of synthetic nanofibers should follow the green chemistry slogan of "benign-by-design." Ideally, industries involved in the production of HARN will read the findings published here in *ToxSci*, embrace the benign mantra, and work to design and produce products with reduced toxic potential. The field of toxicology will always be open for business, but wouldn't it be nice if things slowed down a bit?



DISTINGUISHED TOXICOLOGY SCHOLAR AWARD



**Richard E.
Peterson**

Richard E. Peterson, PhD, is awarded the 2014 SOT Distinguished Toxicology Scholar Award.

Dr. Peterson currently serves as the Charles Melbourne Johnson Distinguished Chair in Pharmaceutical Sciences, School of Pharmacy, University of Wisconsin-Madison. He received his PhD in Pharmacology in 1972 from Marquette University School of Medicine, Milwaukee, Wisconsin.

Dr. Peterson has made a number of seminal contributions in the areas of reproductive and developmental toxicology, ecotoxicology, cardiovascular toxicology, and risk assessment. He helped to develop and apply TEQ approaches to real-world scenarios, resulting in a tremendous positive societal benefit. He determined, for the first time, that lake trout embryos in Lake Ontario were exquisitely sensitive to dioxin and dioxin-like compounds. He predicted that if the environmental contaminant levels declined, the population would thrive. The breeding recovery in Lake Ontario lake trout that has taken place is consistent with the decrease in dioxin and dioxin-like compounds. He observed that the cardiovascular system was the primary target of these compounds in fish embryos. This led his group to establish zebrafish as a model for developmental toxicity. Recent efforts have demonstrated that dioxin impacts the development of the cardiovascular and craniofacial system by altering the expression of well-conserved genes, opening up opportunities for rapid translational studies. His work has led to a paradigm shift to allow the use of aquatic models for human health-related research and has laid a path for scientists to follow. His research on dioxin in fish, birds and mammals demonstrated that embryo and/or fetal exposure is far more susceptible to dioxin toxicity than adult exposure. These findings enhanced recognition of the risk that embryonic exposure to dioxin poses to fish and wildlife populations and to children's health and revealed how little is known about environmental factors, like dioxin, in the fetal basis of adult disease.

The Society is pleased to present Dr. Peterson with the 2014 SOT Distinguished Toxicology Scholar Award.

2014 HONOR AND AWARD RECIPIENTS



EDUCATION AWARD



Herman N. Autrup

Herman N. Autrup, PhD, ATS, is awarded the 2014 SOT Education Award.

Dr. Autrup received his PhD in Experimental Pathology in 1975 from the University of Nairobi, Kenya. He currently serves as a professor in Environmental Medicine at the Institute of Public Health, at University of Aarhus in Denmark.

Dr. Autrup has made impressive contributions to education in the area of environmental health. He established the curriculum in environmental and

occupational medicine at Aarhus University in 1990 and currently teaches courses in Human Toxicology, a course in Toxicology and Environmental Health as part of a diploma program offered by Aarhus University, and lectures in environmental and occupational medicine for medical students. These courses are widely recognized in Scandinavia and are well attended each year. Professor Autrup is also editor for the textbook *Miljø-og Arbejdsmedicin* (Environmental and Occupational Medicine) that is used throughout Denmark.

Even more impressive than his teaching efforts within Denmark, Professor Autrup has made a concerted effort to bring education in environmental health to other areas of the world—often where it is most needed. In 1998, he developed a graduate-level course in Environmental and Health Risk Assessment and Management of Toxic Chemicals for the Chulabhorn Research Institute in Bangkok, Thailand.

More recently, he also has developed an Advanced Environmental Health Sciences for the doctoral training program at the Chulabhorn Research Institute. Finally, Professor Autrup has extended his global outreach and has been invited to give lectures and present executive-level short courses on risk assessment and toxicology by professional organizations in Uganda, Zimbabwe, Kenya, Bolivia, Thailand, Vietnam, and Bhutan.

Dr. Autrup serves as an Associate Editor of *Toxicological Sciences* and has been a member of SOT since 1998.

The Society is pleased to present Dr. Autrup with the 2014 SOT Education Award.



FOUNDERS AWARD



John A. Thomas

John A. Thomas, PhD, ATS, FACT, is awarded the 2014 SOT Founders Award.

Dr. Thomas received his PhD from the University of Iowa in 1961. Currently he is a Professor Emeritus in the Department of Pharmacology at the University of Texas Health Science Center, San Antonio, Texas; as well as an Adjunct Professor at the Indiana University School of Medicine, Indiana.

Throughout his distinguished career, Dr. Thomas' contributions to toxicological sciences in many different areas ranging from the safety of nutrients and food ingredients, to pharmaceuticals, diagnostics, health-promoting agents and environmental chemicals, have been highly recognized by his peers and the scientific community. He continues to be an educator and a scientist, and the discipline of toxicology will continue to benefit from his vision and leadership. During his years in academia, he mentored undergraduate and graduate students, postdoctoral fellows and numerous colleagues.

In addition to his several decades as an educator in the United States and internationally, Dr. Thomas has volunteered his expertise as a member of various governmental science boards and advisory committees, on various editorial boards, and has provided his expertise as a consultant to the US FDA, National Academy of Sciences and the Department of Defense. Dr. Thomas is a Past President of the Academy of Toxicological Sciences and also the American College of Toxicology. He is a Fellow in the American College of Toxicology and also the Russian Academy of Medical Sciences.

As a member of SOT since 1971, Dr. Thomas has served as an SOT Continuing Education Lecturer (1983, 1985, and 1988); SOT Councilor (1985–1987); President of two Regional Chapter Executive Committees: Midwest Chapter (1988) and Gulf Coast Chapter (now Lone Star Chapter, 1998); and as the SOT Education Committee Chair (2000). He is the recipient of multiple prestigious awards including the SOT Merit Award (1998) and both the Commissioner's and Distinguished Service Awards from the US FDA.

The Society is pleased to further recognize Dr. Thomas with the 2014 Founders Award.

2014 HONOR AND AWARD RECIPIENTS



GLOBAL SENIOR SCHOLAR EXCHANGE PROGRAM

The Society of Toxicology Global Senior Scholar Exchange Program aims to increase the global impact of toxicology on human health and safety by working to strengthen toxicology programs and capacity in universities in developing countries. SOT sponsors specific collaborations between selected Senior Scholars from academic institutions in developing countries and SOT Member Hosts from established academic, government, and industry toxicology programs worldwide. The program enables an exchange visit of these scientists to support the developing country university's core toxicology curriculum, increase research collaborations, provide courses or symposia on toxicology topics of high priority in the developing country, and fund the senior scholar to attend the SOT Annual Meeting as an opportunity to present research and establish networking opportunities.



Gonzalo J. Diaz

Gonzalo J. Diaz, DVM, PhD, National University of Colombia, Bogotá, Colombia

Dr. Diaz is widely recognized in the field of mycotoxins and plant toxins especially in the Andean region. He is a Professor of Toxicology in the Department of Sciences for Animal Health, College of Veterinary Medicine, at the National University of Colombia. He received his MS and PhD degrees at the University of Guelph, Ontario, Canada, with Colombian sponsorship. His PhD in Toxicology/Nutrition was in the Department of

Animal and Poultry Science, Ontario Agricultural College and he continued there with postdoctoral research in the Proteomics Laboratory, Department of Biomedical Sciences. He holds two patents, has authored four books and numerous book chapters and other publications.

The National University of Colombia is the largest academic institution in Colombia, having close to 30,000 students and 8 campuses across the country. The Toxicology Program is under the Department of Toxicology in the College of Medicine, consisting of faculty from different departments and colleges. Currently he serves as the head of the Toxicology Laboratory and director of the Avian Nutrition and Toxicology Research Group. He supervises graduate students in both the Human Toxicology and Veterinary Toxicology programs as well as teaches an undergraduate course on Veterinary Toxicology and two graduate courses on Advanced Toxicology and Toxicants of Natural Origin.

The Global Senior Scholar Exchange Program will assist Dr. Diaz in establishing collaboration in the field of mycotoxins as well as strengthening the existing toxicology graduate program. Dr. Diaz is interested in toxins produced during the processing of foods such as acrylamides. This is of particular interest in Colombia, as deep-fried carbohydrate-containing foods are normally consumed and may contain these toxins. Some foods such as yucca (*Manihot sculenta*), plantain, potato, and corn chips are of particular interest in Dr. Diaz's research. Specific areas of collaboration between Dr. Diaz and his host institution will focus on toxicants of natural origin and from food processing. Toxins from plants and from fungi can affect both animals and humans and are strictly regulated in human foods. Investigating fungi requires the existence of laboratories that are highly competent in mycotoxin testing and staffed with experienced toxicologists in this field.



Wilson Kiiza Rumbeiha

Host:

Wilson Kiiza Rumbeiha, DVM, PhD, DABT, DABVT, Iowa State University College of Veterinary Medicine, Ames, IA

Dr. Diaz will be hosted by Wilson K. Rumbeiha under the Interdepartmental Graduate Toxicology Program at Iowa State University (ISU). Dr. Rumbeiha was the Section Head of the Veterinary Diagnostic Toxicology Laboratory, College of Veterinary Medicine, at Michigan State for over 12 years before relocating to ISU, where he now conducts research on neurotoxicology of sulfide gases, cyanotoxins, and applied clinical and diagnostic veterinary toxicology. He also is the president of Toxicologists Without Borders, a humanitarian organization of toxicologists working with other professions to solve toxicology-related issues in developing countries. ISU is an institution with a vibrant interdepartmental toxicology program with an intense curriculum leading to the award of MS and PhD degrees. The Veterinary Toxicology Training Program is one of two active Veterinary Toxicology Residency Training programs in the US. The broader interdepartmental program has core members from departments across campus including Food Safety and Nutrition. Some of the core faculty are engaged in mycotoxin research. Dr. Diaz will have the opportunity to interact with faculty of the Interdepartmental Toxicology Program. Dr. Diaz's program will benefit from learning how the host curriculum is structured to strengthen the existing toxicology graduate program at the National University of Colombia. In addition, Dr. Rumbeiha will travel to Colombia to engage in teaching, curriculum development, and to explore collaborative research projects.

(continued to next page)

2014 HONOR AND AWARD RECIPIENTS



Ebenezer O. Farombi, PhD, FRSC,
University of Ibadan, Ibadan, Nigeria

Dr. Farombi is currently Dean, Faculty of Basic Medical Sciences, and Director, Molecular Drug Metabolism and Toxicology Research Laboratories, at the University of Ibadan. He received his PhD from the University of Ibadan and completed his postdoctoral training at the University of Liverpool, United Kingdom.

Dr. Farombi's research over the past 20 years has included molecular toxicology, cellular oxidative stress mechanisms in toxicology,

reproductive and environmental toxicology, antioxidant redox biochemistry, nutraceuticals as prophylactic agents, and nutrigenomics. He is known nationally and internationally for his contributions on the biochemical and molecular mechanisms of chemoprevention using Kolaviron, a natural antioxidant biflavonoid from the seed of *Garcinia kola* (bitter kola, a widely consumed nut in West Africa). The Department of Biochemistry and its Toxicology program are recognized for their pioneering research on environmental compounds such as aflatoxins, palmotoxins, N-nitroso compounds, perfluidone and aryl alkyl sulfonamide pesticides, glyphosates (a broad-spectrum herbicide), naturally occurring coumarin compounds chalepin, imperatorin and oxypeucedanin isolated from medicinal plants, and polycyclic aromatic hydrocarbons.

An effective and productive researcher and supervisor, he has mentored over 150 graduate students in areas including environmental and reproductive toxicology and chemoprevention. He has authored or co-authored over 130 scientific articles and ten book chapters and recently edited the book *Nutritional Antioxidants in Cancer and Degenerative Diseases* with contributors from Nigeria, Cameroon, USA, Mauritius, South Africa, Japan, and Denmark. Dr. Farombi has received several international fellowships and grants. He is currently Vice President of the Society for Free Radical Research (SFRR)-Africa, and serves as Editor-in-Chief of the journal of the West Africa Society of Toxicology (WASOT).



Host:
James E. Klaunig, PhD, ATS, IATP, *Indiana University, Bloomington, IN*

Dr. Klaunig will host Dr. Farombi in the Toxicology Program at Indiana University (IU). Dr. Klaunig is Professor of Environmental Health in the IU School of Public Health at Bloomington. His research for the past 38 years has been devoted to understanding the mechanism of action of toxic agents and the risk of these agents to humans with emphasis in the field of chemically induced cancer and pathology. The Toxicology Program at IU

Bloomington is a multidisciplinary program in the Department of Environmental Health with significant collaborations of faculty across the Bloomington campus, including the School of Public and Environmental Affairs. The IU Toxicology Program has a long history of international interactions both at the student and visiting scientist levels as well as through international research collaborations. A major new strategic initiative of Indiana University is further development of international interactions, particularly in Africa.

Some of the expectations for this Global Senior Scholar Exchange include updating graduate training in molecular and biochemical toxicology at the University of Ibadan, developing a mechanism for interchange of graduate and postdoctoral trainees, strengthening collaboration and facilitating technology transfer, and increasing exposure to toxicogenomics and molecular techniques relevant to probing the underlying toxicity mechanisms of environmental chemicals. Ultimately Dr. Farombi would like to increase the capacity of the toxicology program in Ibadan University and the region to produce well-trained toxicologists to address safety, quality, and regulatory standards for drugs, chemicals, and foods. For example, the use of complementary and alternative medicines derived from medicinal plants prepared by traditional doctors is very common in the region and there is a dearth of appropriately trained scientists to investigate the safety profiles of these medicines. This and similar programs are invaluable in helping the region make a dent in the vast need for local expertise.

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- Colgate-Palmolive Grants for Alternative Research
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- Syngenta Fellowship Award in Human Health Applications of New Technologies

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- Graduate Student Travel Support
- Perry J. Gehring Student Travel Award
- SOT/AstraZeneca/SOT Endowment International Fund/IUTOX Travel Awards
- Undergraduate Educator Award

2014 HONOR AND AWARD RECIPIENTS



LEADING EDGE IN BASIC SCIENCE AWARD



Vishal S. Vaidya

Vishal S. Vaidya, PhD, is awarded the 2014 SOT Leading Edge in Basic Science Award.

Dr. Vaidya received his PhD in Toxicology from the University of Louisiana in 2003. As an Assistant Professor at Harvard Medical School, he leads the Systems Toxicology Program within the Harvard Program in Therapeutic Sciences and directs the Laboratory of Kidney Toxicology and Regeneration at Brigham and Women's Hospital.

His work in the past five years will change the way textbooks are written and science is conducted with respect to deploying biomarkers for monitoring kidney damage. Dr. Vaidya challenged the fundamental mechanism of kidney toxicity regarding injury assessment and developed, evaluated, and validated novel tools for biomarker detection applicable from bench to bedside, comparing the remarkably consistent sensitivity and specificity of urinary Kim-1 over several other potential biomarkers in a large number of collaborative studies. These studies are going to have a very significant impact on the way we monitor for kidney toxicity in drug development and in the clinic.

The outcome of his work in collaboration with Predictive Safety Testing Consortium is such that Kim-1 is now accepted by US, European, and Japanese Regulatory Agencies as a suitable marker of kidney injury to be used in drug discovery. Currently he is exploring the role of fibrinogen and related molecules and miRNA's as possible mechanistic markers of kidney injury in humans.

In 2011, Dr. Vaidya was awarded the Outstanding New Environmental Scientist Award by NIEHS, and in 2013, he was chosen to be one of six North American scientists to receive the Innovation in Regulatory Science Award from Burroughs Wellcome Fund. Dr. Vaidya has been a member of the Society since 1999. During this time he has served as a member of the CRAD Committee (2006–2009) and Continuing Education Committee (2011–2014). He has also served as Councilor to the SOT Northeast Regional Chapter.

The Society is pleased to further recognize Dr. Vaidya with the 2014 SOT Leading Edge in Basic Science Award.



MERIT AWARD



Jay I. Goodman

Jay I. Goodman, PhD, ATS, is awarded the 2014 SOT Merit Award.

Dr. Goodman is a Professor in the Department of Pharmacology and Toxicology, and Faculty Member, at the Center for Environmental Toxicology, Michigan State University. He is a Diplomate of the American Board of Toxicology and a Fellow of the Academy of Toxicological Sciences. His research interests are focused on discerning epigenetic mechanisms underlying carcinogenesis and other chemical-induced toxicities, and testing the hypothesis that the capacity to maintain the normal epigenetic status is related inversely to susceptibility to carcinogenesis.

Extensively involved in the training of the next generation of toxicologists, scientists, and physicians, Dr. Goodman has served as a mentor and advisor for many PhD students and postdoctoral fellows. He chaired his Department's Graduate Committee from 1979–1997 and served as the Interim Chair of the Department of Pharmacology and Toxicology, Michigan State University from 2001–2002.

Dr. Goodman has received numerous awards for his scientific achievements, including the Distinguished Alumnus Award, Doctoral Program in Pharmacology, University of Michigan; the John Barnes Prize Lecture, British Toxicology Society; and the George H. Scott Memorial Award from the Toxicology Forum, among others. He is also the first American to serve on a EUROTOX committee.

Dr. Goodman has participated actively on numerous SOT Committees and Task Forces including the Awards, Nominating, and Program Committees, and in SOT leadership as President of the Michigan Regional Chapter, SOT Secretary, and SOT President. He has published more than 125 peer reviewed manuscripts, given numerous invited presentations both nationally and internationally, and has participated on review panels and advisory boards for the NIH, NIEHS, NSF, NTP, US EPA, CDC, American Board of Toxicology, Academy of Toxicological Sciences, and the International Life Sciences Institute, Health and Environmental Sciences Institute. He continues to serve on editorial boards and as an advisor on toxicologic issues.

The Society is pleased to present Dr. Goodman with the 2014 Merit Award.

2014 HONOR AND AWARD RECIPIENTS



PERRY J. GEHRING DIVERSITY STUDENT TRAVEL AWARD



**Pamella B.
Tijerina**

Pamella B. Tijerina,
*New York University School of Medicine, Tuxedo
Park, NY*

Abstract Title: Gene Expression Alterations
in the Brain Elicited by Inhalation of Silver
Nanoparticles

Dr. Eaton has served on numerous National Academy of Sciences/National Research Council committees, helping to communicate scientific advice to federal agencies and organizations, often related to controversial areas in toxicology.

Dr. Eaton has been very active in the leadership of the Society of Toxicology. Appropriately he first began as a member on the Committee on Public Communications, from there he served on various committees including the Membership and Finance Committees. He also served as a member on the Board of Publications in addition to many other advisory boards, task forces, and working groups. He received the SOT Achievement Award in 1993. He has the distinction of having served on the Society's Council as SOT Secretary and SOT President. Dr. Eaton was elected, as a fellow of the Academy of Toxicological Sciences in 2000, and as a fellow of the American Association for the Advancement of Science in 2003. He was recently elected to the Washington Academy of Sciences and in 2011 was elected to the Institute of Medicine of the National Academies.

The Society is pleased to present Dr. Eaton with the 2014 Public Communications Award.



PUBLIC COMMUNICATIONS AWARD



David L. Eaton

David L. Eaton, PhD, ATS, is awarded the
2014 SOT Public Communications Award.

Dr. Eaton is Professor of Environmental and Occupational Health Sciences and Dean and Vice Provost of the Graduate School at the University of Washington (UW), in Seattle, Washington. He also has served as the Director of the NIEHS P30 Center for Ecogenetics and Environmental Health at UW since 1995, and currently Chairs the Research Committee of the Health Effects Institute.

Dr. Eaton has and continues to communicate understanding of toxicology to a broad community of non-toxicologists. He has served as an ambassador of toxicology in many circles and helped to promote the understanding of toxicology and environmental health sciences through the world. In addition to his many scientific contributions, Dr. Eaton was one of the pioneers in recognizing the importance of disseminating the message of toxicology to the public and launched one of the first community outreach and education programs in environmental health in the nation.

Dr. Eaton has authored 115 peer-reviewed publications, 40 book chapters, including the "Principles of Toxicology" chapters in *Casarett and Doull's Toxicology*, *Rosenstock and Cullen's Textbook of Occupational and Environmental Medicine*, and *Sipes, McQueen et al.'s Comprehensive Toxicology* series. Relevant to this award, he has an additional 17 general education articles that target audiences outside of toxicology. He reached out to the legal community providing presentations to law students and has publications directly targeted to lawyers. Some attorneys and judges tout Dr. Eaton's article "Scientific Judgment and Toxic Torts: A Primer in Toxicology for Judges and Lawyers" as the definitive source on adjudicating expert testimony and determining whether acceptable scientific practices have been followed in tort cases.



SOT/ASTRAZENECA/ SOT ENDOWMENT FUND/IUTOX TRAVEL AWARDS

Samir Abbès, PhD, *Higher Institute of Biotechnology of Béja, Béja, Tunisia*

Wafa Hassen, PhD, *High Institute of Biotechnology, University of Monastir, Monastir, Tunisia*

Gopabandhu Jena, PhD, *National Institute of Pharmaceutical Education and Research (NIPER), Mohali, India*

Sameeh A. Mansour, PhD, *National Research Centre, Giza, Egypt*

Siti N. Mubarakah, MSc, *Laboratory of Pharmacology, School of Medicine, University of Islam Malang, Malang, Indonesia*

Olufunke E. Ola-Davies, PhD, *University of Ibadan, Ibadan, Nigeria*

Iyekhoetin M. Omoruyi, MSc, *Benson Idahosa University, Benin City, Nigeria*

Ishiaq Omotosho, PhD, *College of Medicine, University of Ibadan, Ibadan, Nigeria*

Muneeb U. Rehman, PhD, *Department of Pharmaceutical Sciences, University of Kashmir, Srinagar, India*

Yang Song, PhD, *Zhejiang Academy of Medical Sciences, Hangzhou, China*

Jing Zhang, MSc, *Shanxi Medical University, Taiyuan City, China*

2014 HONOR AND AWARD RECIPIENTS



TRANSLATIONAL IMPACT AWARD



Timothy D. Phillips, PhD, ATS, is awarded the 2014 SOT Translational Impact Award.

Dr. Phillips is a Distinguished Professor and holds the Reed Endowed Chair in Toxicology at Texas A&M University. Since joining the faculty in 1979, he has published more than 185 papers.

Dr. Phillips' pioneering research in the United States and Africa has established that dioctahedral smectite clays, used as ancient medicine more than 2,000 years ago, can bind and render harmless food-born contaminants such as aflatoxin B1.

These toxins have been strongly associated with disease and death in people, particularly infants and children in developing countries. The findings from his research are directly relevant to high-risk populations (animals and humans) who suffer the consequences as a result of frequent dietary aflatoxin exposure. This work is expected to improve food and feed safety, quality, and security for greater than 4.5 billion people and their animals living in climates conducive to the growth of fungi.

Dr. Phillips' ongoing translational work in the US and Africa has confirmed the safety, palatability and efficacy of field-practical, clay-based strategies. The delivery of a therapeutic dose of clay has been established using common foods and nutritional supplements. Further developments of his research have resulted in wide-ranging implications for the prevention of chemotherapy-induced diarrhea and the treatment of chronic gastrointestinal illness.

Additionally, Dr. Phillips teaches future toxicologists on the subjects of Food Toxicology, Scientific Ethics, and Chemical Hazard Assessment. He is an internationally recognized leader in Food Safety and Toxicology, and has served on panels for numerous International Organizations and Academic Institutions worldwide.

Dr. Phillips has been a member of SOT for over 30 years. During this time he has served on the SOT Awards and Nominating Committees. He was also the President of the Lone Star Regional Chapter (formerly known as the Gulf Coast Chapter).

The Society is pleased to present Dr. Phillips with the 2014 SOT Translational Impact Award.



UNDERGRADUATE EDUCATOR AWARD



William D. Atchison, PhD, is awarded the SOT 2014 Undergraduate Educator Award.

Dr. Atchison received his PhD in Pharmacology from the University of Wisconsin, School of Pharmacy. Currently he serves as an Associate Dean for Research and Graduate Studies, College of Veterinary Medicine, Michigan State University. There he received the MSU Distinguished Faculty Award, which is among the highest honors bestowed upon faculty members. Dr. Atchison's research has resulted in over 95 articles in peer-

reviewed literature and 14 book chapters. During his tenure, he has trained 17 PhD students, 6 graduate students, and more than 100 undergraduate students.

Dr. Atchison's passion is to provide opportunities for undergraduate education in the biomedical sciences coupled with research experiences aimed at underrepresented minority students. In collaboration with the University of Puerto Rico, he developed and established an NIH, NINDS-funded R25-Diversity Education grant that provides research experiences for Hispanic undergraduates, since 2005. Dr. Atchison makes annual visits to campuses of the University of Puerto Rico to recruit/interview students for the program. Many of these students have gone on to participate in SOT's Annual Meeting by presenting their research. To date, 40 undergraduate students have received training through this program. Similarly, Dr. Atchison has received funding from Michigan State University's College of Veterinary Medicine to initiate a smaller program for preveterinary students.

Dr. Atchison has been a very active member of SOT. He has served on the SOT Program Committee and as Secretary/Treasurer and then President of the Neurotoxicology Specialty Section. He is a recipient of the SOT AstraZeneca Traveling Lectureship, and at the SOT Annual Meeting, Dr. Atchison contributes yearly to the Undergraduate Education Program that serves underrepresented minority students.

The Society is proud to present Dr. Atchison with the 2014 SOT Undergraduate Educator Award.

2014 SPONSORED AWARD RECIPIENTS

COLGATE-PALMOLIVE AWARDS FOR STUDENT RESEARCH TRAINING IN ALTERNATIVE METHODS



Laura E. Armstrong, BS, University of Rhode Island, Kingston, RI

Project Title: Isolation and Culture of Mature Adipocytes to Study Induction of the Antioxidant Response in Dieting and Obesity

Host Institution: Boston Nutrition Obesity Research Center—Adipose Biology and Nutrient Metabolism Core (ABM), Boston University—Department of Medicine, Boston, MA



Christin M. Grabinski, MS, US Air Force Research Laboratory, Dayton, OH

Project Title: Design and Validation of Nanomaterial Aerosol Exposure Techniques for *In Vitro* Toxicology

Host Institution: University of Pennsylvania, Philadelphia, PA

COLGATE-PALMOLIVE GRANTS FOR ALTERNATIVE RESEARCH



Patricia E. Ganey, PhD, Michigan State University, East Lansing, MI

Project Title: Prediction of Idiosyncratic, Drug-Induced Liver Injury from Drug-Cytokine Interaction *In Vitro*



Matthew Troese, PhD, MB Research Laboratories, Spinnerstown, PA

Project Title: *In Vitro* Coculture Assay for Identification of Dermal Sensitizers

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



Johathan H. Shannahan, PhD, University of Colorado, Aurora, CO

Project Title: *In Vitro* Assessment of Vascular Nanoparticle-Induced Toxicity: Implications for a Susceptible Human Subpopulation

PFIZER SOT UNDERGRADUATE STUDENT TRAVEL AWARDS



Wesley Cai, University of Arizona, Tucson, AZ

Abstract Title: Pentoxifylline Induces GSK-3-Independent Proteasomal Degradation of Cyclin D1 and Arrests Renal Cancer Cells in the G1 Phase



Cory V. Gerlach, Oregon State University, Corvallis, OR

Abstract Title: Mono-Substituted Isopropylated Triaryl Phosphate, a Major Component of Firemaster 550, Is an AhR Agonist That Exhibits AhR-Independent Toxicity



Lukas Gora, Michigan State University, East Lansing, MI

Abstract Title: NSAIDs Synergize with Inflammatory Cytokines to Kill Hepatocytes: Implications in Idiosyncratic Reactions

2014 SPONSORED AWARD RECIPIENTS



Elaine Kuo, Stanford University, Stanford, CA

Abstract Title: Effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) Exposure on the Expression of DNMT Genes during Development in Zebrafish (*Danio rerio*)

Institution Where Research Was Conducted: Woods Hole Oceanographic Institution



Virginia Mitchell, University of Utah, Salt Lake City, UT

Abstract Title: Differential Activation of Transient Receptor Potential Ankyrin-1 (TRPA1) by Diesel Exhaust Particulate Materials



Kia Z. Perez-Vale, University of Puerto Rico Arecibo, Arecibo, PR

Abstract Title: Effects of Methylmercury (MeHg) on mRNA Expression of Voltage Gated Calcium Channels (VGCCs) in Naïve and Differentiated F11 Cell

Institution Where Research Was Conducted: Michigan State University



Ricardo Rivera-Soto, University of Puerto Rico Arecibo, Arecibo, PR

Abstract Title: The Role of HIF-1 in regulating Cobalt-Induced Cytokine Expression in Alveolar Type II Cells

Institution Where Research Was Conducted: Michigan State University



Bradley Rowland, McMurray University, Abilene, TX

Abstract Title: Impact of Liposome-Induced Complement Activation on Tumor Growth and Angiogenesis

Institution Where Research Was Conducted: Texas Tech University Health Science Center



Kelly Schlotman, Purdue University, West Lafayette, IN

Abstract Title: Dereglulation of miRNA-126 Expression in Developing Zebrafish Exposed to the Herbicide Atrazine



Jennette Shoots, Kenyon College, Gambier, OH

Abstract Title: An Aryl Hydrocarbon Receptor from the Salamander *Ambystoma mexicanum* Exhibits Low Responsiveness to 2,3,7,8-Tetrachlorodibenzo-p-Dioxin



Kelly VanDenBerg, Michigan State University, East Lansing, MI

Abstract Title: Inhibition of Early T Cell Cytokine Productions by Arsenic Occurs Independently of Nrf2

SYNGENTA FELLOWSHIP AWARD IN HUMAN HEALTH APPLICATIONS OF NEW TECHNOLOGIES



Dilshan S. Harischandra, BS, Iowa State University, Ames, IA

Project Title: Role of the Environmental Neurotoxicant Manganese in Cell-To-Cell Transmission on α -synuclein in Parkinson's Disease

(continued to next page)

2014 GRADUATE STUDENT TRAVEL SUPPORT RECIPIENTS

SOCIETY OF TOXICOLOGY GRADUATE STUDENT TRAVEL SUPPORT

Nour Abdo, *University of North Carolina Chapel Hill*
Wesley Abplanalp, *University of Louisville*
Akinleye Akinrinde, *University of Ibadan*
Bharat Bhushan, *University of Kansas Medical Center*
Samira Brooks, *University of North Carolina Chapel Hill*
Brendan Burn, *Louisiana State University Health Sciences Center*
Joseph Cichocki, *University of Connecticut*
Ryan Clark, *Meharry Medical College*
Shalmali Dharmadhikari, *Purdue University*
Kristin Di Bona, *University of Alabama*
Dzigbodi Doke, *University of Alabama at Birmingham*
Hridgandh Donde, *University of Louisville*
David Ellis, *Air Force Research Laboratories*
Neel Fofaria, *Texas Tech University Health Sciences Center*
Jason Franklin, *East Carolina University*
Shanthi Ganesan, *Iowa State University*
Christin Grabinski, *US Air Force Research Laboratory*
Kelly Harris, *Meharry Medical College*
Adam Hawkins, *University of Mississippi*
Oju Ibor, *University of Ibadan*
Brian Jackson, *University of Colorado Denver*
Andrea Knecht, *Oregon State University*
Natalia Kovalova, *Michigan State University*
Kevin Kumar, *Vanderbilt University School of Medicine*
Sapana Kushwaha, *National Institute of Pharmaceutical Education and Research*
Jessica Laine, *University of North Carolina Chapel Hill*
Dingsheng Li, *University of Michigan*
Xi Li, *Texas A&M University*
Jui Tung Liu, *Clemson University*
Yingzi Liu, *Purdue University*
Carrie Long, *NIOSH / WVU*
Pamela Lopert, *University of Colorado Anschutz Medical Campus*
Sharifa Love, *The University of Alabama*
Chuanwen Lu, *Texas Tech*
Lauren Mangum, *Mississippi State University*

Awards in the amount of \$1,000 each were provided to graduate students in toxicology to support travel to the SOT 53rd Annual Meeting in Phoenix, Arizona.

Abdullah Al Maruf, *University of Toronto*
Cameron McElroy, *University of Colorado AMC*
Morgen Mhike, *NIOSH-CDC*
Michael Moses, *University of Rochester Medical Center*
Muna Nahar, *University of Michigan*
Pooja Naik, *Texas Tech University Health Sciences Center*
Carmen Ortiz-Sanchez, *Ponce School of Medicine*
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