SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY

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

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

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

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

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

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

SOT HONOR DESCRIPTIONS

HONORARY MEMBERSHIP

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

Inductees

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

*Deceased

INDICATES AN SOT SPONSORED AWARD
SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY

SOT AWARD DESCRIPTIONS

ACHIEVEMENT AWARD

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

Award Recipients
1967 .... Gabriel L. Plaa*
1968 .... Allan H. Conney
1969 .... Samuel S. Epstein
1970 .... Sheldon D. Murphy*
1971 .... Yves Alarie
1972 .... Robert L. Dixon*
1974 .... Morris F. Cranmer
1975 .... Ian C. Munro*
1976 .... Curtis D. Kaasen
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

*Deceased

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

Indicates an SOT Sponsored Award
SOT HONOR AND AWARD DESCRIPTIONS AND HISTORY

BEST POSTDOCTORAL PUBLICATION AWARDS

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

Award Recipients

2007 .......... Nadine Dragan, Kristen Mitchell, Drobna Zuzana
2009 .......... Jeffrey W. Card, Kembra Howdeshell
2010 .......... Bret F. Bessac, Manabu Nukaya, Nicholas Radio
2011 .......... Diederich S. Bermudez, Joshua A. Harrill, Jordan Ned Smith
2012 .......... Maryse Lemaire, Xuefeng Ren, Nisha S. Sipes

BOARD OF PUBLICATIONS AWARD FOR THE BEST PAPER IN TOXICOLOGICAL SCIENCES

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

Best Paper in Toxicological Sciences

Award Recipients

2001 .......... J. Chen, Y. Li, J. A. Lavigne, M. A. Trush, J. D. Yager
2003 .......... S. Haddad, M. Beliveau, R. Tardif, K. Krishnan
2006 .......... H. Sawada, K. Takami, S. Ashai

Frank R. Blood Award

Award Recipients

1974 .......... Y. Alarie
1975 .......... D. J. Ecobichon, G. J. Johnstone, O. Hutzinger
1976 .......... R. D. Brown
1977 .......... J. Dedinas, G. D. DiVincenzo, C. J. Kaplan
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
1985 .......... N. Imura, M. Inokawa, K. Miura
1986 .......... C. C. Wilhite, M. I. Dawson, K. J. Williams
1987 .......... J. Kao, F. K. Patterson, J. Hall
1992 .......... D. A. Fox, S. D. Rubinstein, P. Hsu
1993 .......... T. Mably, R. W. Moore, R. W. Goy, R. E. Peterson
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 ........ Congresswoman Diana DeGette (D-CO)
2010 ........ Senator Johnny Isakson (R-GA)
2011 ........ Senator Amy Klobuchar (D-MN)
2012 ........ Representative Rush Holt (D-NJ)

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

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

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

DISTINGUISHED TOXICOLOGY SCHOLAR AWARD

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

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

EDUCATION AWARD

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

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

Visit the SOT Website for up-to-date membership information at www.toxicology.org.
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

GLOBAL SENIOR SCHOLAR EXCHANGE PROGRAM

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

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

GRADUATE STUDENT TRAVEL SUPPORT

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

LEADING EDGE IN BASIC SCIENCE AWARD

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

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

INDICATES AN SOT SPONSORED AWARD

*DECEASED
**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, Gerald 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. Miyazaki
- 1985, Carrol S. Weil*
- 1986, Ted A. Loomis
- 1987, Bo Holmstedt
- 1988, Seymour L. Friesen*
- 1989, Wayland J. Hayes, Jr.*
- 1990, Sheldon D. Murphy*
- 1991, Toshio Narahashi
- 1992, W. Norman Aldridge
- 1993, John Doull
- 1994, Ernest Hodgson
- 1995, Robert A. Scala
- 1996, Gabriel L. Plaa*
- 1997, Mary O. Amdur*
- 1998, John A. Thomas
- 1999, Thomas Clarkson
- 2000, Philippe Shubik*
- 2001, Donald Reed
- 2002, Bernard Schwetz
- 2003, M. W. Anders
- 2004, Robert Goyer
- 2005, Roger O. McClellan
- 2006, A. Wallace Hayes
- 2007, James A. Swenberg
- 2008, Hanspeter Witschi
- 2009, Gary M. Williams
- 2010, Marion F. Ehrich
- 2011, Michael Aschner
- 2012, Curtis D. Klaassen

**MINORITY UNDERGRADUATE STUDENT AND ADVISOR AWARDS**

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

**OUTSTANDING GRADUATE STUDENT LEADERSHIP AWARDS**

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

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

**PERRY J. GEHRING DIVERSITY STUDENT TRAVEL AWARD**

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

The Gehring Student Travel Award is provided through the Society of Toxicology Endowment Fund. This award recognizes Dr. Perry J. Gehring, who served as SOT President in 1980–1981 and made important scientific contributions, especially in biological modeling and evidence-based assessment. Dr. Gehring had a strong interest in encouraging individuals from ethnic groups underrepresented in the sciences to enter biomedical sciences and toxicology.
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 ..........Phillip Abelson*
1996 ..........Bruce N. Ames
1997 ..........Audrey Gotsch
1999 ..........Ann de Peyster
2001 ..........Anna Shvedova
2002 ..........Sam Kacew
2003 ..........Charlene A. McQueen
2004 ..........Kenneth Olden
2005 ..........Robert Kreiger
2007 ..........Linda S. Birnbaum
2010 ..........Philip Wexler
2012 ..........Martin A. Philbert

SOT/AstraZeneca/ IUTOX Travel Fellowships

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

Award Recipients

2002 ..........Christophor Dishovsky (Bulgaria)
              Zoltan Gregus (Hungary)
              Maritza Rojas Martini (Venezuela)
              Choon-Nam Ong (Singapore)
              W. Wasowicz (Poland)
              Ping-kun Zhou (China)
2003 ..........Jian-Hui Liang (China)
              Eman A. Seif (Egypt)
              Marjan G. Vrcko (Slovenia)
2004 ..........Cristina Bolaton (Phillipines)
              P. K. Gupta (India)
              Salmaan Inayat-Hussain (Malaysia)
              Xianping Ying (China)
2005 ..........Diana B. Apostolova (Bulgaria)
              Marite Arij 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 Adeyemoo (Nigeria)
              Deepak Argwal (India)
              Carlos Colangelo (Argentina)
              Sandra Demichielis (Argentina)
              Mumtaz Iscan (Turkey)
              Karolina Lyubomirovna (Bulgaria)
              Osman Aly Osman (Egypt)
              Shuang-Qing Peng (China)
              Julia Radekkoa-Saeva (Bulgaria)
2007 ..........Hatem Ahmed (Egypt)
              Jiri Bajgar (Czech Republic)
              Ismet Çok (Turkey)
              Carlos Garcia (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)
              Rawiw Maniratananchoate (Thailand)
              Anoka A. Njan (Nigeria)
              Daam Settachan (Thailand) **
              Osman S. Shaik (India)
              Songsak Srianujata (Thailand)
              Omoniyi Kayode Yemitan (Nigeria) **

Visit the SOT website for up-to-date membership information at www.toxicology.org.
Qinli Zhang (China)
Bin Zhao (China)

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

** Sponsored by the SOT Endowment Global Fund.

SOT REGIONAL CHAPTER AWARDS

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

SOT SPECIAL INTEREST GROUP AWARDS

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

SOT SPECIALTY SECTION AWARDS

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

TRANSITIONAL 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

TRANSITIONAL/BRIDGING TRAVEL AWARD

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

Award Recipient
2012 .......... Xuemei Huang

UNDERGRADUATE EDUCATOR AWARD

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

Award Recipient
2011 ........ Joan B. Tarloff
2012 ........ Sue M. Ford

UNDERGRADUATE TOXICOLOGY EDUCATION AWARDS

The Undergraduate Toxicology Education Awards provide support for awardees to participate in the Undergraduate Education Program at the SOT Annual Meeting. This program is an introduction to the discipline of toxicology for undergraduate science majors and includes an orientation, a special poster session with scientists, and activities with an SOT mentor. The travel awards are for those from institutions that receive a limited amount of Federal funding in science and technology (list is available on the website). Preference in selection will be students who are first generation college attendees (that is, neither parent graduated from a four-year academic institution).

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

ASTRAZENECA TRAVELING LECTURESHIP AWARD

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

Award Recipients
1990 .......... Robert I. Krieger, Joseph R. Landolph
1991 ......... Sam Racew
1992 ......... Charles V. Smith, Jerold A. Last
1993 ......... Terrence James Monks, Harithara H. Mehendale
1995 ......... David L. Eaton, Hanspeter R. Witschi
1996 ......... Rick G. Schnellmann, James P. Kehrer
1997 ......... Lucio G. Costa, Durisala Desaiah
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 Hassan, 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. VanDuyne
2011 ........ Vijay More
2012 ........ Agnes Forgacs, René Viñas, Aaron Lulla
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 toxicity, 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, Xiaozhong Yu
2007 ........ Rita L. Caruso, Daniel R. Cerven, Anne R. Greenlee, Glenn M. Walker
2008 ........ Daniel R. Cerven, Duncan C. Ferguson, Shashi K. Ramiah
2009 ........ Qin M. Chen, Timothy J. Shafer, Mehmet Uzumcu
2010 ........ Patrick Allard, Duncan C. Ferguson, Mehmet Uzumcu
2011 ........ Patrick Allard, Hao Zhu
2012 ........ Mingzhu Fang, Jennifer Freeman

COLGATE-PALMOLIVE POSTDOCTORAL FELLOWSHIP AWARD IN IN VITRO TOXICOLOGY

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

Award Recipients
1988 ......... Ernest Bloom
1989 ......... Gin Hsieh
1990 ......... Dennis E. Chapman
1991 ......... Anne Walsh
1992 ......... Qin Chen
1993 ......... Erika Cretton
1994 ......... William Chan
1995 ......... Bob Van de Water
1997 ......... Alan Parrish
1999 ......... Russell Thomas
2001 ......... Kevin Kerzee, Christopher Reilly
2002 ......... Kevin Kerzee
2003 ......... Kimberly Miller
2004 ......... Kimberly Miller
2005 ......... Francis Tukov
2007 ......... Aaron Rowland
2008 ......... Aaron Rowland
2009 ......... Ankur Dnyanmote
2010 ......... Ankur Dnyanmote
2011 ......... Cassandra Deering-Rice
2012 ......... Melanie Adler

COLGATE-PALMOLIVE TRAVELING LECTURESHP IN ALTERNATIVE METHODS IN TOXICOLOGY AWARD

Offered 1996–2008

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

*Deceased
NOVARTIS GRADUATE STUDENT FELLOWSHIP AWARD

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

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

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

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

Pfizer Undergraduate Student Travel Award

Pfizer Undergraduate Student Travel Awards are presented through the Society of Toxicology to foster an interest in graduate studies in the field of toxicology by bringing promising undergraduate students to the SOT Annual Meetings. Pfizer, Inc., will provide up to five awards per year to undergraduate students presenting research at the Annual Meeting. Awardees will be selected by the Education Committee based on the quality of the submitted abstract and the advisor's supporting recommendation. Those selected will receive travel assistance for the meeting, a plaque presented at the annual Awards Ceremony, and recognition at a special Pfizer function. Awardees will be matched with a graduate student and a Pfizer scientist to mentor them during the Annual Meeting, and will have the opportunity to attend the Society of Toxicology Undergraduate Education Program on the Sunday of the Annual Meeting.
Frank J. Gonzalez, PhD, during the last 30 years, has made major advances that have significantly moved the field of carcinogenesis forward. His interests in drug/chemical carcinogen metabolism led to the identification and characterization of many cytochrome P450s and phase II xenobiotic metabolizing enzymes. This interest ultimately led to his seminal studies elucidating how regulatory transcription factors modulate expression of xenobiotic metabolizing enzymes that contribute to cancer etiology, through the generation and characterization of countless knockout, transgenic, and “humanized” mouse models. Many of the mouse models generated by Dr. Gonzalez during his tenure at the National Cancer Institute have been utilized by countless investigators and have provided invaluable tools to allow for continued progress in the field of carcinogenesis. His most recent research interests have focused on applying metabolomics to bridge the gap in knowledge between genomics and proteomics. Toward this goal, he has established a center for metabolomics where he uses this approach for his own research goals that have made significant advances in our understanding of how xenobiotic metabolism drives carcinogenesis using both rodent and human models.

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

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

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

The Society welcomes Dr. Hood back to celebrate our 51st Annual Meeting as the Opening Plenary Lecturer; he delivered the Society’s 1998 Medical Research Council (MRC) lecture entitled “Genes and Genomes: Deciphering the Periodic Table of Life.”
Donna D. Zhang, PhD, Associate Professor, Department of Pharmacology and Toxicology, College of Pharmacy, University of Arizona, is the recipient of the SOT 2012 Achievement Award.

Dr. Zhang's research program features important, multi-faceted, cutting edge science elucidating the key factors regulating the Nrf2-Keap1 pathway that controls adaptive responses of cells to environmental and endogenous stresses. She was the first to describe the interactions between Keap1 and the Cul3-Rbx1 E3 ubiquitin ligase system that maintains low constitutive levels of Nrf2 through ubiquitination and subsequent proteasomal degradation (Mol Cell Biol 2003, 2004, 2007, and 2011; J Biol Chem, 2005). She is also characterizing cross-talk between Nrf2-Keap1 and the p53–p21 (Cip1/WAF1) and autophagy (via p62-Keap1) pathways (Mol Cell 2009; Mol Cell Biol 2010.) Understanding the broad reach of this adaptive response pathway will help define its role as a key susceptibility modifier in toxicological responses.

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

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

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

Dr. Mauderly is currently a Senior Scientist Emeritus (in residence) of the Lovelace Respiratory Research Institute and Director of the National Environmental Respiratory Center. Before his recent retirement, he was Principal Investigator of ACES project on health impacts of new technology diesel emissions and the NPACT project on critical components of airborne particulate matter. He was a former Director of Lovelace's Inhalation Toxicology Research Institute and President of the Lovelace Biomedical and Environmental Research Institute.

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

Dr. Mauderly is a renowned speaker who is able to communicate with audiences of varied backgrounds, ranging from his scientific peers and students to technology developers to policy makers to the general public. He serves as a role model for others and is a wonderful representative of the science of toxicology. In recognition of his contributions to risk assessment and the regulation of chemical agents, the Society of Toxicology is pleased to announce Dr. Joe L. Mauderly as the recipient of the 2012 SOT Arnold J. Lehman Award.
The Postdoctoral Assembly recognizes these three recipients of their 2011 awards:

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

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

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

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

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

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

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

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

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

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

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


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

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

This paper greatly extends our understanding of a fundamental mystery of toxicology—How are a relatively small number of xenosensing receptors able to identify an enormous number of xenobiotics and respond appropriately? The answer contained here demonstrates that alternately spliced human CAR genes transcripts increase CAR’s capacity to serve as a selective xensensor. Since rodent species appear incapable of producing some receptor splice variants, this finding is crucial to understanding the reasons behind the differences in response to chemical exposures observed for humans and rodents.
Representative Rush Holt, a Democrat from the 12th District of New Jersey, is the Society's 2012 Congressional Science Leadership Award recipient. This seventh term Member of Congress has been selected for his enduring vision and preeminent leadership to foster recognition throughout the legislative community of the importance of supporting sound science as a basis for making effective policy decisions.

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

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

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

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

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

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

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

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

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

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

**FOUNDERS AWARD**

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

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

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

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

For his contributions to toxicology and to the safety assessment and regulation of chemicals, the Society recognizes Dr. John A. Moore as the 2012 SOT Founders Award recipient.
As a fellow of the Academy of Toxicological Sciences and European Registered Toxicologists, Professor Orisakwe has shown sustained leadership and direction in toxicology, especially in Sub-Saharan Africa. His department and toxicology program have been recognized by the World Health Organization (WHO) as a WHO Global Environment Monitoring System (GEMS) that is responsible for food monitoring and assessment. Dr. Orisakwe is a WHO-appointed Adviser, Scientific Expert, and study group coordinator for food additives, lead poisoning, and other toxicology-related issues. To highlight his regional influence, Professor Orisakwe is the African Society for Toxicological Sciences (ASTS) coordinator for Nigeria, an Advisor to the Cameroon Society for Toxicological Sciences (CSTS), President of the West African Society of Toxicology (WASOT), and Coordinator of the Society of Environmental Toxicology and Chemistry (SETAC), West Africa. He is also the Country Correspondent (Nigeria) for the World Library of Toxicology (WLT) and has been instrumental in identifying other Country Correspondents in Africa.

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

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

Latin American Region Recipient

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

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

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

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

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

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

Dr. Olivero-Verbel's doctoral students benefited from the GSSEP program, as they were able to learn many new tools and strategies related to their research interests gained during his US visit, and his visit opened opportunities for academic exchanges with US universities. Through the GSSEP, a bridge was built transferring ideas and science between the United States and Colombia, creating ways of thinking that allow necessary international consensus to promote the protection of the environment, as Colombia struggles to attain sustainable development.
Myung-Haing Cho, DVM, PhD, Professor, College of Veterinary Medicine, Seoul National University, Korea, is awarded the 2012 SOT Leading Edge in Basic Science Award for his extensive research on lung toxicity and cancer, toxicity and efficacy of nanoparticles, gene delivery, and stem cells.

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

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

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

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

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

Dr. Klaassen’s reputation in toxicology research and education has drawn students from all over the world to be trained under his mentorship. Since joining the faculty of KUMC in 1968, he has mentored 121 scientists, including 31 students who received their PhDs and 64 postdoctoral fellows. Among these trainees, many have become pillars of the Toxicology and Pharmacology society, and Dr. Klaassen’s training and continuous support to all his students have certainly contributed to their success and achievements.

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

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

In recognition of his scientific accomplishments and his tireless efforts in championing both the science of toxicology and the Society of Toxicology, Dr. Curtis D. Klaassen is presented with the 2012 SOT Merit Award.
Visit the SOT Website for up-to-date membership information at www.toxicology.org.

2012 HONOR AND AWARD RECIPIENTS

OUTSTANDING GRADUATE STUDENT LEADERSHIP AWARDS

Chad Brocker
University of Colorado, CO

Azita Cuevas
New York University School of Medicine, NY

PERRY J. GEHRING DIVERSITY STUDENT TRAVEL AWARD

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

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

SOT/ASTRAZENECA/IUTOX TRAVEL FELLOWSHIPS

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

Xiaofeng Zhang (China)
Li Zhou (China)

** Sponsored by the SOT Endowment Global Fund.

TRANSLATIONAL IMPACT AWARD

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

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

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

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

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

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

COLGATE-PALMOLIVE AWARDS FOR STUDENT RESEARCH TRAINING IN ALTERNATIVE METHODS

Agnes Forgacs, Michigan State University, East Lansing, MI

Project Title: High-Throughput Assay Development for Steroidgenesis

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

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

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

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

COLGATE-PALMOLIVE GRANTS FOR ALTERNATIVE RESEARCH

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

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

Jennifer Freeman, Purdue University, West Lafayette, IN

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

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

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

---

SYNGENTA FELLOWSHIP AWARD IN HUMAN HEALTH APPLICATIONS OF NEW TECHNOLOGIES

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

**Project Title:** Measurement of Formaldehyde Specified DNA-Protein Crosslinks

---

PFIZER UNDERGRADUATE STUDENT TRAVEL AWARD

Ashley Press
High Point University

Darien Shapiro
University of Utah

Qi Wang
Rutgers University

Brittany Winner
Sam Houston State University

Frances A. Xin
St. Olaf College

---

**SOT THANKS OUR SPONSORS!**

**Award Sponsors**

- AstraZeneca
  - AstraZeneca Traveling Lectureship Award
  - SOT/AstraZeneca/IUTOX Travel Fellowships

- Colgate-Palmolive
  - Colgate-Palmolive Awards for Student Research Training in Alternative Methods
  - Colgate-Palmolive Grants for Alternative Research
  - Colgate-Palmolive Postdoctoral Fellowship Award in In Vitro Toxicology

- Novartis
  - Novartis Graduate Student Fellowship Award

- Syngenta
  - Syngenta Fellowship Award in Human Health Applications of New Technologies

**Travel Support Sponsors**

- Amgen, Inc.
  - Graduate Student Travel Support

- Battelle Foundation
  - Graduate Student Travel Support

- Burroughs Wellcome Fund
  - Graduate Student Travel Support

- Pfizer
  - Pfizer Undergraduate Student Travel Award

- SOT Endowment Fund
  - Education Support
  - Founder's Award
  - Graduate Student Travel Support
  - Perry J. Gehring Student Travel Award
  - SOT Endowment International Fund/IUTOX Travel Fellowships
  - Undergraduate Educator Award
SOCIOLOGY OF TOXICOLOGY
GRADUATE STUDENT TRAVEL SUPPORT

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

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

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

2012 Graduate Student Travel Support Sponsors:
Amgen, Inc., Battelle Foundation, Burroughs Welcome Fund, and SOT Endowment Fund.