

# 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 2014 Honorary Membership and Award nominations is October 9, 2013.

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



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. Cranmer  
1975 ..... Ian C. Munro\*  
1976 ..... Curtis D. Klaassen  
1977 ..... James E. Gibson  
1978 ..... Raymond D. Harbison  
1979 ..... Michael R. Boyd  
1980 ..... Philip G. Watanabe\*  
1982 ..... Frederick P. Guengerich  
1984 ..... Melvin E. Andersen  
1985 ..... Alan R. Buckpitt  
1986 ..... Sam Kacew  
1987 ..... James S. Bus  
1988 ..... Jeanne M. Manson  
1989 ..... James P. Kehrer  
1990 ..... Michael P. Waalkes  
1991 ..... Debra Lynn Laskin  
1992 ..... Michael P. Holsapple  
1993 ..... David L. Eaton  
1994 ..... James L. Stevens  
1995 ..... Lucio G. Costa  
1996 ..... Kenneth S. Ramos  
1997 ..... Kevin E. Driscoll  
1998 ..... Rick G. Schnellmann  
1999 ..... Michel Charbonneau  
2000 ..... Christopher Bradfield  
2001 ..... Martin A. Philbert  
2002 ..... Ruth A. Roberts  
2003 ..... Lois D. Lehman-McKeeman  
2004 ..... David C. Dorman  
2006 ..... José E. Manautou  
2007 ..... Jeffrey M. Peters  
2008 ..... Ivan Rusyn  
2009 ..... Russell S. Thomas  
2010 ..... Gary W. Miller  
2011 ..... Nathan Cherrington  
2012 ..... Donna D. Zhang  
2013 ..... Wei Xu



### 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



INDICATES AN SOT SPONSORED AWARD

\*DECEASED

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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 Board and outside reviewers with appropriate scientific expertise. The research reported in the paper must have been conducted while the applicant was engaged in a postdoctoral research position. The applicant will be the first author on a peer-reviewed paper published on-line or in print, or in press, in the preceding interval of June 1, 2012, and September 30, 2013. 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



## 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. Papele, A. Luttun, Y. Jiang, Y. V. Heyden, C. Verfaillie, V. Rogiers  
2009 ..... Q. Yang, T. Nagano, Y. Shah, C. Cheung, S. Ito, F. J. Gonzalez  
2010 ..... R. L. M. Dobson, S. Motlagh, M. Quijano, R. T. Cambron, T. R. Baker, A. M. Pullen, B.T. Regg, A. S. Bigalow-Kern, T. Vennard, A. Fix, R. Reimschuessel, G. Overmann, Y. Shan, G. P. Daston  
2011 ..... K. Lu, L. B. Collins, H. Ru, E. Bermudez, and J. A. Swenberg  
2012 ..... J. G. DeKeyser, E. M. Laurenzana, E. C. Peterson, T. Chen, and 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

### 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  
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.

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- 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)



## 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



## 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

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|      |       |                                    |
|------|-------|------------------------------------|
| 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                |



## 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   |



## 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 established toxicology programs, academic, government, or industry organization(s) worldwide. The Host will in turn visit the Senior Scholar's institution. The program provides a cash stipend and travel support for each pair. The 2013 recipients can be found under the GSSEP section on page 342.

### 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) |



## 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 348.

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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



## 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



## 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.

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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



## 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.

## Award Recipients

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



## 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



## 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 ..... Marti Lindsey

# SOT HONORS, AWARD DESCRIPTIONS, AND HISTORY



## 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 (Phillippines)  
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)

\*\* 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](http://www.toxicology.org), under Regional Chapters or the Awards and Fellowships section.



# SOT HONORS, AWARD DESCRIPTIONS, AND HISTORY



## 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](http://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](http://www.toxicology.org), under Specialty Sections or the Awards and Fellowships section.



## TRANSLATIONAL IMPACT AWARD

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

### Award Recipients

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



## TRANSLATIONAL/BRIDGING TRAVEL AWARD

Two awards may be given annually to assist with travel to the SOT Annual Meeting 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



## 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



## 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. VanDuyen  |
| 2011 | ..... | Vijay More  |
| 2012 | ..... | Agnes Forgacs, René Viñas, Aaron Lulla                    |
| 2013 | ..... | Aaron Lulla, Jamie Moscovitz, Alexandra Muñoz             |

## 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   |



INDICATES AN SOT SPONSORED AWARD

\*DECEASED

# SPONSORED AWARD DESCRIPTIONS AND HISTORY

## 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                    |

## COLGATE-PALMOLIVE TRAVELING LECTURESHIP IN ALTERNATIVE METHODS IN TOXICOLOGY AWARD

**Presented 1996–2008**

### Award Recipients

|      |  |
|------|--|
| 1996 | University of Mississippi Medical Center<br>Visiting Professor: Tetsuo Satoh         |
| 1996 | University of Illinois at Urbana<br>Visiting Professor: Julio Davila                 |
| 1996 | Mississippi State University<br>Visiting Professor: Michael Holsapple                |
| 1996 | Washington State University<br>Visiting Professor: Daniel Acosta                     |
| 1997 | Indiana University School of Medicine<br>Visiting Professor: A. Jay Gandolfi         |
| 1997 | University of Arizona Health Science Center<br>Visiting Professor: Kevin E. Driscoll |
| 1997 | University of New Mexico Health Sciences Center                                      |

|      |   |
|------|---|
| 1997 | University of Illinois<br>Visiting Professor: Michael Denison                   |
| 1998 | University of Washington<br>Visiting Professor: Bruce Fowler                    |
| 1998 | San Diego State University<br>Visiting Professor: Leigh Ann Burns Naas          |
| 1999 | San Diego State University<br>Visiting Professor: Robert Chapin                 |
| 2000 | Yale University, School of Medicine<br>Visiting Professor: Narendre Singh       |
| 2001 | Medical College of Wisconsin<br>Visiting Professor: Garold Yost                 |
| 2003 | Washington State University<br>Visiting Professor: Marc W. Fariss               |
| 2004 | University of Louisiana at Monroe<br>Visiting Professor: Snorri S. Thorgeirsson |
| 2008 | University of Louisiana at Monroe<br>Visiting Professor: George Michalopoulos   |

## 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.

### Award Recipients

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

*(Recipients of Graduate Student Fellowship Awards no longer offered may be found on the SOT website at [www.toxicology.org](http://www.toxicology.org).)*

# SPONSORED AWARD DESCRIPTIONS AND HISTORY

## 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



**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 a 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 2014 national SOT awards are due October 9, 2013.***

***Regional Chapter Awards, Special Interest Group Awards, and 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, and additional information, and to make nominations.

**[www.toxicology.org](http://www.toxicology.org)**

# 2013 HONOR AND AWARD RECIPIENTS



## HONORARY MEMBERSHIP



**Bruce A. Beutler**

**Bruce A. Beutler, MD**, is a regental professor and director of the Center for the Genetics of Host Defense at University of Texas Southwestern Medical Center. He received his MD from the University of Chicago in 1981. As a postdoctoral associate at Rockefeller University (1983–1986), he isolated mouse tumor necrosis factor (TNF) and discovered its importance as a mediator of inflammation. Subsequently at University of Texas Southwestern he analyzed mammalian responses to bacterial lipopolysaccharide. This work culminated

in the discovery of Toll-like receptors as key sensors of the innate immune system, capable of detecting infection within minutes of the time the host is inoculated with microbes. In further studies, Beutler has used a forward genetic strategy to elucidate many aspects of mammalian immunity. He received numerous awards for his work, among them the Balzan Prize (2007), the Albany Medical Center Prize (2009), the Shaw Prize (2011), and election to the US National Academy of Sciences (2008), the Institute of Medicine (2008), and EMBO. In 2011, he shared the Nobel Prize in Physiology or Medicine for “discoveries concerning the activation of innate immunity.”



## HONORARY MEMBERSHIP



**Jeremy K. Nicholson**

**Jeremy K. Nicholson, PhD**, has won many accolades and international prizes for his work, which spans three decades, and is the author of over 500 peer-reviewed scientific papers and many other articles/patents on the development and application of novel spectroscopic and systems biology approaches to the investigation of disturbed metabolic processes in complex organisms. He was elected as a Fellow of the Academy of Medical Sciences in 2010 and currently holds honorary professorships at eight

overseas universities and the Chinese Academy of Sciences, and is on the editorial board of eight international scientific journals. He is head of Department of Surgery and Cancer at Imperial College London. He is also a consultant for many pharmaceutical/healthcare companies in the United Kingdom, Europe, and the United States, and is a founder director of Metabometrix, an Imperial College spin-off company specializing in molecular phenotyping, clinical diagnostics, and toxicological screening via metabolomics and metabonomics.



## ACHIEVEMENT AWARD



**Wei Xu**

**Wei Xu, PhD**, is the recipient of the 2013 SOT Achievement Award.

Dr. Xu is associate professor of oncology, McArdle Laboratory for Cancer Research, University of Wisconsin-Madison, Madison, Wisconsin. Dr. Xu received her BS degree in chemistry from Beijing University, China, in 1991; MS degree in biophysics from the Institute of Biophysics, Beijing, China; and PhD degree in biochemistry from the University of Iowa in 1999. Her research interests are epigenetic transcriptional

control in breast cancer, with specific interest centered on a protein arginine (R) methyltransferase CARM1/PRMT4, a nuclear hormone receptor coactivator, as well as histone H3 methylation by CARM1 potentiates target gene activation by ER. The central focus of Dr. Xu's lab is to analyze the estrogen receptor (ER) regulatory network, define the role(s) and functions of ER $\alpha$ / $\beta$  homo/hetero dimers, and translate the research outcomes into a better understanding of how environmental estrogens might influence breast cancer outcomes and therapies. Her studies currently address biologically important unanswered questions about the mechanisms and regulation of hormone signaling and she has approached this topic with creativity, vision, and tenacity. To this end, Dr. Xu's lab pioneered the study of ERs in dimer forms and their differential effects in different biological contexts. In order to study ER dimers, Dr. Xu developed novel bioluminescence resonance energy transfer (BRET) assays that allow for high-throughput screening and identification of environmental ligands that selectively induce ER $\alpha$ / $\beta$  heterodimers. Using those ligands as tools, she was able to show that ER $\alpha$ / $\beta$  is growth inhibitory in breast cancer cells when both ERs are coexpressed.

The University of Wisconsin has recognized Dr. Xu's early achievements with two awards, a Vilas Associate Professorship and a Rush Basic Research Award at the UW-Comprehensive Cancer Center Retreat. Additionally, she has been highlighted in the Susan Komen Breast Cancer Foundation Spotlight (2008) and has been recognized with a Shaw Scientist Award, a UW-Madison and UW-Milwaukee collaborative that provides additional funding to up-and-coming researchers in the biomedical sciences. She additionally has received one of three Department of Defense Era of Hope awards in 2010.

# 2013 HONOR AND AWARD RECIPIENTS



## ARNOLD J. LEHMAN AWARD



**Moiz Mumtaz**

**Moiz Mumtaz, PhD**, is the recipient of the 2013 Arnold J. Lehman Award for his contributions to methods development for the risk assessment of chemicals, particularly as mixtures.

Dr. Mumtaz is a science advisor at the Environmental Toxicology Branch, Division of Toxicology and Human Health Sciences, ATSDR/CDC, Atlanta, Georgia. His research, which has traversed experimental toxicology (*in vitro/in vivo*), use of existing data for risk assessment, use of computational techniques

to fill data gaps, and fine tuning of risk assessment methods using quantitative structure activity relationships (QSAR) and physiologically based pharmacokinetic (PBPK) modeling during the past 25 years, focuses on methods development for the human health risk assessment of environmental chemicals, their mixtures, and more recently, for cumulative risk of chemical and nonchemical stressors. Editor of *Principles and Practice of Mixtures Toxicology*, published by Wiley-VCH, Dr. Mumtaz has extensively published his research findings in several peer-reviewed journals. His involvement in several agency-wide activities at ATSDR has led to the establishment of a mixtures research program for determining significant human exposures to environmental chemicals that supported mixtures research at several universities and the foundation of a computational toxicology laboratory. Dr. Mumtaz has moved the field of regulatory toxicology and risk assessment significantly forward through innovative thinking and principled risk assessment practice.

Internationally recognized for his contributions of sound and credible science in characterizing risk, Dr. Mumtaz is a highly sought member of US government, national, and international workgroups and committees charged with chemical risk assessment who has served on numerous workgroups organized by NIOSH, CDC, US EPA, and ATSDR, among others, and National Academy of Sciences (NAS) and World Health Organization (WHO) panels. He also has served as a member of the US EPA's Board of Scientific Counselors Computational Toxicology Subcommittee and was involved in the ILSI Health and Environmental Sciences Institute Mixtures initiatives that recently reviewed chemical interactions data and performed a case study to assess mixtures of surface water contaminants using the Threshold of Toxicological Concern (TTC) approach that was presented at WHO. He serves as the principal representative of ATSDR on the Department of Health and Human Services (DHHS) Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM).



## BEST POSTDOCTORAL PUBLICATION AWARDS

The Postdoctoral Assembly congratulates these three recipients for their accomplishment.



**Petra Haberzettl**

**Petra Haberzettl, PhD**, University of Louisville, Louisville, KY

*Haberzettl P, Lee J, Duggineni D, McCracken J, Bolanowski D, O'Toole TE, Bhatnagar A, and Conklin D.*

Exposure to Ambient Air Fine Particulate Matter Prevents VEGF-Induced Mobilization of Endothelial Progenitor Cells from the Bone Marrow

*Environmental Health Perspectives*, 2012; 120(6): 848–856.



**Anne Loccisano**

**Anne Loccisano, PhD**, ORISE/US EPA/NCEA/NRIS, Arlington, VA

*Loccisano AE, Longnecker MP, Campbell JL, Jr., Andersen ME, and Clewell HJ, III.*

Development of PBPK Models for PFOA and PFOS for Human Pregnancy and Lactation Life Stages

*Journal of Toxicology and Environmental Health, Part A*, 2013 Jan; 76(1): 25–57.



**Yuanyuan Xu**

**Yuanyuan Xu, MD, PhD**, National Institute of Environmental and Health Sciences, Research Triangle Park, NC

*Xu Y, Tokar EJ, Sun Y, and Waalkes MP.*

Arsenic-Transformed Malignant Prostate Epithelia Can Convert Noncontiguous Normal Stem Cells into an Oncogenic Phenotype

*Environmental Health Perspectives*, 2012 Jun; 120(6): 865–871.

# 2013 HONOR AND AWARD RECIPIENTS



## BOARD OF PUBLICATIONS AWARD FOR THE BEST PAPER IN *TOXICOLOGICAL SCIENCES*



The Board of Publications has selected the paper entitled "Blood Gene Expression Profiling Detects Silica Exposure and Toxicity" as the best paper published in *Toxicological Sciences* in the past year (*Toxicol. Sci.* 2011, 122(2): 253–264). The authors are Rajendran Sellamuthu, Christina Umbright, Jenny R. Roberts, Rebecca Chapman, Shih-Houng Young, Diana Richardson, Howard Leonard, Walter

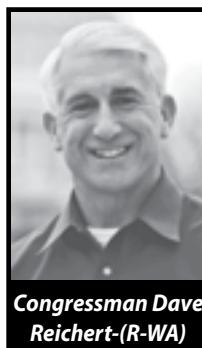
McKinney, Bean Chen, David Frazer, Shengqiao Li, Michael Kashon, and Pius Joseph. The research was conducted at the National Institute for Occupational Safety and Health in Morgantown, West Virginia.

The authors evaluated gene expression alterations by microarray in the blood of rats exposed to silica via inhalation. They found that the number of gene expression changes was proportional to the extent of pulmonary toxicity produced, as measured by histopathology, macrophage and neutrophil infiltration, and cytokine activation. Analysis of the gene changes data demonstrated activation of inflammatory response as the major biological pathway activated by silica exposure. They extended these findings by using a selected 7-gene signature panel to predict the extent of toxicity of exposure to low concentrations of silica in rats.

This paper fulfills several promises put forth in the early stages of the toxicogenomic era. They evaluated gene expression changes in an easily obtained tissue instead of using target organ tissue. The gene expression data were closely anchored by phenotype analysis, which is an important step in the validation of surrogate biomarkers. Blood is easily obtained whereas target tissues, such as lung, are rarely available in humans. Secondly, they identified the mechanism of toxicity, inflammation, from the gene expression changes. Moreover, and most importantly, they were able to predict the pulmonary toxicity in rats exposed to low dose silica. This paper demonstrates an important breakthrough for the detection of target organ toxicity using an easily obtainable sample that may be applicable to a wide range of chemical exposures in humans.



## CONGRESSIONAL SCIENCE LEADERSHIP AWARD



**Congressman Dave Reichert (R-WA)**

**Representative Dave Reichert (R-WA)** is the recipient of the 2013 Congressional Science Leadership Award. Representative Reichert is a public servant who has dedicated his career to advancing legislation for the protection of human, animal, and/or environmental health that is based upon sound scientific principles. He serves on a number of Congressional caucuses that are designed to promote health issues and he has consistently voted in favor of raising the National Institutes of Health's budget. He serves on the House

Ways and Means Subcommittee on Health, which maintains jurisdiction over programs like Medicare, health delivery systems and health research. Representative Reichert is the founder and co-chair of the Congressional Children's Health Care Caucus, co-chair of the Congressional Global Health Caucus, and co-chair of the Congressional Task Force on Childhood Obesity. He is also a member of the Congressional Health Care Coalition, the Hunger Caucus, the Multiple Sclerosis Caucus, Congressional Biomedical Research Caucus, Congressional Caucus to Fight and Control Methamphetamine, Congressional Caucus on Drug Policy, Congressional Down Syndrome Caucus, Congressional Fire Services Caucus, and the Congressional Malaria Caucus.

For his continuous support of scientific research and his dedication to issues that advance the health and safety of humans and the environment, the Society is pleased to recognize him as the 2013 Congressional Science Leadership Award recipient.

# 2013 HONOR AND AWARD RECIPIENTS



## DISTINGUISHED TOXICOLOGY SCHOLAR AWARD



**John J. Lemasters**

**John J. Lemasters, MD, PhD**, is awarded the 2013 Distinguished Toxicology Scholar Award.

Dr. Lemasters is professor and director, Center for Cell Death, Injury and Regeneration, Department of Biochemistry & Molecular Biology and Pharmaceutical Sciences, Medical University of South Carolina, Charleston, South Carolina. Dr. Lemasters' research interests concern the cellular and molecular mechanisms underlying toxic, hypoxic, and ischemia-reperfusion injury. His laboratory applies new techniques of laser scanning confocal and

multiphoton microscopy to characterize the physiology of single living cells, including the assessment of ion homeostasis, chelatable iron, mitochondrial function, electrical potentials, oxygen and nitrogen free radical formation, membrane permeability, and other biochemical parameters during the pathogenesis of lethal cell injury. These approaches are being extended to true *in vivo* (intravital) imaging of cells and tissues in living animals.

In addition to researching cellular and molecular mechanisms of apoptosis and necrosis, Dr. Lemasters is also concerned with organ preservation for transplantation surgery; mitochondrial physiology and pathophysiology, including mitochondrial permeability transition, mitophagy and calcium homeostasis; oxidative stress; ischemia/reperfusion; and confocal and multiphoton microscopy of living cells. Studying reperfusion injury to livers stored for transplantation surgery, Dr. Lemasters' laboratory developed a new solution, Carolina rinse solution, whose use during reperfusion reduces lethal endothelial injury greatly and improves graft survival dramatically. Similarly, his laboratory is developing rinse solutions to decrease reperfusion-induced myocardial infarction and is pursuing mechanisms of Kupffer cell activation caused by ischemia/reperfusion, endotoxin, alcohol exposure and traumatic stress, particularly the roles played by calcium, endocytosis, adenosine receptors and protein kinases. More recently, Dr. Lemasters' lab is characterizing ischemic preconditioning as a strategy of decreasing graft failure from preservation injury, especially in grafts harvested from non-heart beating cadaver donors and reduced-size liver grafts. With respect to ongoing mitochondria research, Dr. Lemasters' lab is exploring the hypothesis that closure of voltage-dependent anion channels (VDAC) in the mitochondrial outer membrane accounts for global mitochondrial suppression consistent with a role for VDAC as a dynamic regulator, or governor, of global mitochondrial function both in health and disease.



## EDUCATION AWARD



**Rick G. Schnellmann**

**Rick G. Schnellmann, PhD**, is the 2013 SOT Education Award recipient.

Dr. Schnellmann is an eminent scholar, distinguished university professor, and Chair, Department of Drug Discovery and Biomedical Sciences, Medical University of South Carolina, Charleston, South Carolina. The research projects in Dr. Schnellmann's laboratory are directed towards understanding the mechanisms of renal injury and regeneration. His current research is focused on mitochondrial injury and novel approaches to promote mitochondrial biogenesis to treat acute kidney injury and diabetic nephropathy, and acute and chronic diseases in other organs.

As a mentor of more than 40 graduate students and postdoctoral fellows in his laboratory as well as host to numerous undergraduate students, Dr. Schnellmann has focused on building a strong and consistent legacy of education that recognizes the value of training the next generation of toxicologists. He is renowned for influencing his students to find their "niche" in science, improving their scientific abilities, and placing them in prominent laboratories throughout the world. As such, his students have gone on to establish successful, independent careers in toxicology.

At the national level, Dr. Schnellmann has served as a member of the SOT Tox 90s Educational Task Force, as the vice chair and chair of the Subcommittee for Minority Initiatives for the Society. His service on these committees was exceptional and marked with a great spirit of dedication and commitment.



# 2013 HONOR AND AWARD RECIPIENTS



## ENHANCEMENT OF ANIMAL WELFARE AWARD



**Martin L. Stephens**

**Martin L. Stephens, PhD**, is awarded the 2013 SOT Enhancement of Animal Welfare Award. Dr. Stephens is a senior research associate at the Johns Hopkins Center for Alternatives to Animal Testing (CAAT), where he coordinates the Center's activities on evidence-based toxicology. Prior to joining Hopkins in October 2011, Dr. Stephens was vice president for animal research issues at The Humane Society of the United States where he directed the Society's efforts on behalf of animals in laboratories. He served on the National Academy of Sciences committee that wrote

*Toxicity Testing in the 21st Century*, as well as on program committees for the World Congresses on the use of animals and alternatives in the life sciences. He co-founded (i) the Human Toxicology Project Consortium, which seeks to accelerate the implementation of pathway-based toxicity testing; (ii) AltTox website which is devoted to nonanimal methods of toxicity testing; and (iii) the Russell and Burch Award, which has recognized the contributions of toxicologist and others to alternative methods. Dr. Stephens has received the Doerenkamp-Zbinden Award and the CAAT Recognition Award for his contributions to animal protection and alternative methods.



## FOUNDERS AWARD



**William Alfred Suk**

**William Alfred Suk, PhD, MPH**, is the 2013 SOT Founders Award recipient. Dr. Suk has served as director of the Superfund Hazardous Substances Basic Research and Training Program (Superfund Research Program) since its inception. He is also director of the Center for Risk & Integrated Sciences (CRIS) at the National Institute of Environmental Health Sciences (NIEHS). His affiliation with a number of organizations and committees include: Roundtable on Environmental Health Sciences, Research, and Medicine, Institute of Medicine, National Academy of Sciences; International

Advisory Board of the Chulabhorn Research Institute, Bangkok, Thailand; and World Health Organization Consultation on Scientific Principles and Methodologies for Assessing Health Risks in Children Associated with Chemical Exposures. He is also a member of a number of trans-NIH committees.

Dr. Suk received his PhD in microbiology from the George Washington University and his Masters in Public Health in health policy from the School of Public Health, University of North Carolina at Chapel Hill. He sits on the editorial boards of a number of international journals, including *Environmental Health, Toxicology and Environmental Chemistry, International Journal of Occupational Medicine and Environmental Health*, and the *Central European Journal of Public Health*. Dr. Suk has been a National Science Foundation Fellow. The NIH has honored him for his many efforts and he has received the HHS Secretary's Award for Distinguished Service. He is a recipient of the Roy E. Albert Memorial Award for Translational Research in Environmental Health from the University of Cincinnati; the Child Health Advocacy Award from the Children's Environmental Health Network; the John P. Wyatt Lecture Award in Environmental Health and Disease from the University of Kentucky; and the Adel F. Sarofim Award for Outstanding Professional Achievement in Championing Research on the Origin, Fate and Health Effects of Combustion Emissions. In addition to these many honors, he is a Fellow of the Collegium Ramazzini.

# 2013 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. Through this novel program, SOT is sponsoring specific collaborations between universities in the United States and in developing countries. The program enables an exchange visit of senior scientists between the partnered universities to address identified gaps in the developing country university's core toxicology curriculum, supports courses or symposia on toxicology topics of high priority in the developing country, and funds the senior scholars' attendance at the SOT Annual Meeting as an opportunity to present research and establish networking opportunities.



**Sri Noegrohati**

**Sri Noegrohati, DrPharm, Postgraduate Program of the Faculty of Pharmacy, Gadjah Mada, University and Faculty of Pharmacy, Sanata Dharma University, Jogjakarta, Daerah Istimewa Jogjakarta, Indonesia**

**Hosts:**

Michael L. Dourson, PhD, DABT, ATS, and Bernard K. Gadagbui, MSc, PhD, ERT, DABT, Toxicology Excellence for Risk Assessment, Cincinnati, OH

Professor Noegrohati has a PhD in pharmacy and, since her dissertation in 1991, she has been involved in the risk assessment of contaminant residues, mainly pesticides, in the environment. She has been recognized by authorities from her country as an expert in the field. From 2002–2008 she worked with the Ministry of the Environment in the implementation and ratification of the Stockholm Convention on Persistent Organic Pollutants (POPs), as well as in the Estimation and Inventory of POPs in Indonesian Environment. Since 2003 she has been the Indonesian delegate for the Expert Working Group on the harmonization of Maximum Residues Limits of Pesticides among the Association of Southeast Asian Nations (ASEAN) countries. Additionally, she has been appointed by the Ministry of Agriculture as the study director for the ASEAN Pesticide Residue Data Generation Project. In 2010 the Indonesian Ministry of Health appointed her as a consultant for cosmetics safety.

The Global Senior Scholar Exchange Program (GSSEP) will assist Dr. Noegrohati in increasing risk assessment capabilities and quality, evaluating and interpreting data, and proposing safety specifications. Since the Indonesian government needs safety assessors to assist in establishing regulations, it is expected that her experiences through the GSSEP would help them in shaping a risk assessment course program, which would motivate younger faculties to advance their knowledge in environmental and life sciences, motivate them to do more research, and use their knowledge to improve public and environmental health.

Through the GSSEP experience Dr. Noegrohati is also seeking to improve the Postgraduate Pharmacy Program of Gadjah Mada University, where she is the lecturer for some courses, including environmental toxicology and risk assessment of pesticide residues. This in turn will increase the knowledge of the environment, toxicology, and ecotoxicology in undergraduate programs of Gadjah Mada and Sanata Dharma Universities.

Dr. Noegrohati will be hosted at Toxicology Excellence for Risk Assessment (TERA) by Drs. Michael Dourson and Bernard Gadagbui. TERA is an independent, nonprofit organization devoted to scientific collaboration to support the protection of public health. While at TERA, Dr. Noegrohati will network with TERA staff, learn about their activities related to evaluation and communication of risk, and investigate their training programs. She will also discuss academic and scientific programs related to human health risk assessment with scientists at University of Cincinnati, US EPA National Center for Environmental Assessment, Procter & Gamble, and other local institutions. In addition, she will participate in the Toxicology and Risk Assessment Conference (TRAC) to be held in Cincinnati, Ohio, in April, 2013.



**Mohamed Mosaad Salama**

**Mohamed Mosaad Salama, MD, PhD, Department of Toxicology, Mansoura University, Mansoura, Egypt**

**Host:**

Mohamed Abou-Donia, PhD, Professor of Pharmacology and Cancer Biology, Professor of Neurobiology, Deputy Director of Marine Biomedical Center, Duke University Medical Center, Durham, NC

Dr. Salama is a lecturer and head of the Neurotoxicology Unit in the Department of Toxicology at Mansoura University, Egypt. He serves as the clinical toxicologist at the Mansoura University Hospital. Dr. Salama is also head and founder of the Neurotoxicology Unit within the Medical Experimental Research Center of Mansoura University (MERC). The Department of Toxicology at Mansoura University is multidisciplinary with well-established units in clinical, analytical, forensic, and neurotoxicology. The Neurotoxicology and Analytical Units have been recent recipients of sizeable grants for capacity building. His research focuses on the role of environmental pollutants in neurodegenerative disorders (with particular emphasis on Parkinson's disease) and the application of regenerative medicine tools such as stem cells in the treatment of such disorders. He has established collaborations with colleagues at the BMFZ-Philipps University and Technical University of Munich, Germany, on Parkinson's disease models and use of stem cells as potential treatment.

The Global Senior Scholar Exchange Program (GSSEP) offers several opportunities for Dr. Salama, his university, region, and country. First is the need to improve the undergraduate and graduate teaching programs in toxicology. During his visit at Duke University, Dr. Salama hopes to be exposed to the toxicology curriculum and take home ideas on improving the toxicology program at his university in Mansoura. He will also seek to identify opportunities for teaching or research collaboration and be exposed to state-of-the-art research techniques and capabilities. One of Dr. Salama's goals is to help make the toxicology department at Mansoura University an internationally recognized department. The GSSEP award will contribute to this goal through enabling the establishment of a strong and competitive toxicology education program and building collaborations with scientists in the United States, which would include exchange visits, exchange of teaching tools, and collaborative research programs.

Dr. Salama feels extremely fortunate to be hosted by Dr. Abou-Donia, a world-renowned toxicologist with extensive research output in neurotoxicology. In addition to networking with the Duke University students and faculty, Dr. Salama will have an opportunity, through Dr. Abou-Donia's strong networks, to also visit the Duke University

# 2013 HONOR AND AWARD RECIPIENTS

Marine Laboratory located on the North Carolina coast; the NIEHS, the US EPA, and the Hamner Institutes for Health Sciences, all located in the Research Triangle Park.



## LEADING EDGE IN BASIC SCIENCE AWARD



**Donald E. Ingber**

**Donald E. Ingber, MD, PhD**, is the 2013 Leading Edge in Basic Science Award recipient.

Dr. Ingber is the 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. Dr. Ingber is a founder of the emerging field of biologically inspired engineering, and at the Wyss Institute, he oversees a multifaceted effort to identify the mechanisms that living organisms use to self-assemble and to apply these design principles to develop advanced materials and devices. 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. His most recent innovation is a technology for building tiny, complex, three-dimensional models of living human organs. These "organs on chips," which mimic complicated human functions, are designed to replace traditional animal-based methods for testing of drugs and toxins. Dr. Ingber also has made major contributions to mechanobiology, tissue engineering, tumor angiogenesis, systems biology, and nanobiotechnology. He was the first to recognize that tensegrity architecture (in which a system stabilizes itself mechanically by balancing local compression with continuous tension) is a fundamental principle that governs how living cells are structured at the nanometer scale. In addition, 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, and the Department of Defense Breast Cancer Innovator Award. He is also a member of the Institute of Medicine of the National Academies, a fellow of the American Institute for Medical and Biological Engineering, and serves on the Board of Directors of the National Space Biomedical Research Institute.



## MERIT AWARD



**Frederick Peter Guengerich**

**Frederick Peter Guengerich, PhD**, is awarded the 2013 SOT Merit Award.

Dr. Guengerich is the Stanford Moore professor of biochemistry, Vanderbilt University School of Medicine, Nashville, Tennessee. Dr. Guengerich, was director of the Center in Molecular Toxicology from 1980–2011 at Vanderbilt University and also served as interim chair of the Department of Biochemistry from 2010–2012. He is the author or co-author of over 620 peer-reviewed scientific articles and a researcher in toxicology working on cytochromes P450, DNA damage and carcinogenesis, and drug metabolism. His major areas of research interest include the metabolism of carcinogens and drugs by cytochrome P450 enzymes, the bioactivation of halogenated hydrocarbons, and polymerase interactions with carcinogen-modified DNA. Dr. Guengerich has served on several NIH study sections and special study sections and as an editorial board member or associate editor of a range of publications. He is presently an associate editor of both *Chemical Research in Toxicology* and the *Journal of Biological Chemistry*, and serves on the editorial boards of *Critical Reviews in Toxicology* and *Nature Reviews, Drug Discovery*.

Dr. Guengerich's research has led to a range of awards and honors, including the Society of Toxicology Achievement Award; Burroughs Wellcome Scholar in Toxicology Award; Bernard B. Brodie Award in Drug Metabolism from the American Society for Pharmacology and Experimental Therapeutics; the President's Distinguished Service Award, American College of Toxicology; American Association for Cancer Research Award for Outstanding Achievement in Chemistry in Cancer Research; R. T. Williams Distinguished Scientific Achievement Award of the International Society for the Study of Xenobiotics; and the Founders' Award, American Chemical Society, Division of Chemical Toxicology. He is also a Merit Awardee of the National Cancer Institute and has received an Honorary Doctorate (*Docteur Honoris Causa*) from L'Université Rene Descartes, Paris.

At Vanderbilt University, Dr. Guengerich has served as thesis advisor for 18 graduate students. Significantly, he has served as mentor to 125 postdoctoral trainees. The establishment of the F. Peter Guengerich Teaching Award for Mentoring Postdoctoral Fellows or Residents in the Research Setting at Vanderbilt University is testimony to the quality of his mentorship. In addition, he also teaches in biochemistry courses for graduate students.

# 2013 HONOR AND AWARD RECIPIENTS



## PERRY J. GEHRING DIVERSITY STUDENT TRAVEL AWARD



**Alexandra  
Colón-Rodríguez**

**Alexandra Colón-Rodríguez,**  
*Michigan State University, East Lansing, MI*

**Abstract Title:** Low-Dose Postnatal MeHg Exposure Alters mRNA Levels of Rat Brainstem Glutamate Receptors and Voltage-Gated Calcium Channels

accepting 48 students in 2013. During the last five years, Dr. Lindsey's Community Outreach and Education Core (COEC) informed more than 21,700 individuals directly of SWEHSC EH topics and reached half a million people via media coverage. COEC websites received an average of nearly 3,000 requests for pages per day between 2006 and 2010, with more than one million requests for pages in 2010 and 5.3 million during the funding period. Indirectly, 16,800 children were reached during the last five years by more than 200 teachers who attended professional development courses offered by Dr. Lindsey.



## PUBLIC COMMUNICATIONS AWARD



**Marti Lindsey**

**Marti Lindsey, PhD,** is the 2013 Public Communications Award recipient and the director of the Community Outreach and Education Core, Southwest Environmental Health Sciences Center (SWEHSC), University of Arizona College of Pharmacy, Tucson, Arizona.

Dr. Lindsey draws upon her experience in order to share information resulting from the research of toxicologists and environmental health (EH) scientists with the public and the K-12 education community and to facilitate partnerships between these groups. Under the

direction of Dr. Lindsey, the Community Outreach and Education Core (COEC) develops materials related to SWEHSC research topics and the environmental health issues in the southwest. These include: arsenic exposure, asthma, cancer (especially skin cancer and UV exposure), chemicals and human health, diabetes, and the environment, EH literacy, EH research methods, environmental toxicology, lead poisoning awareness, lung disease, organ damage from environmental exposure, TCE/1,4 Dioxane exposure, understanding risk and health, and health issues related to solid and hazardous waste. Dissemination mechanisms utilized by Dr. Lindsey include the creation of flyers, information walks, presentations, and web materials.

She has become nationally recognized for her success with outreach and communication to the Gila River Indian Community (GRIC) and Inter Tribal Council of Arizona (ITCA). Her expertise in this area has recently been further recognized as she was awarded an intercenter pilot grant entitled "Defining Environmental Health Literacy" that will fast track the process of finding consensus about the meaning of environmental health literacy by actively seeking the input of diverse groups.

As the co-director of the Keep Engaging Youth in Science (KEYS), a 7-week summer research internship program, Dr. Lindsey teaches high school students about toxicology and environmental health and places them in the research laboratories of SWEHSC investigators. This privately funded program has grown from 9 students in 2007 to



## SOT/ASTRAZENECA/ SOT ENDOWMENT FUND/IUTOX TRAVEL FELLOWSHIPS

**John I. Anetor, PhD,** *College of Medicine, University of Ibadan, Ibadan, Nigeria*

**Kailen Boodhia, MSc,** *National Institute for Occupational Health, Johannesburg, South Africa*

**Karina R. Caballero-Gallardo, MSc,** *University of Cartagena, Cartagena, Colombia*

**Osama S. El-Tawil, PhD,** *Cairo University, Giza, Egypt*

**Miriam Carolina Guzmán Quilo, MTox, MSc,** *Centro de Información y Asesoría Toxicológica CIAT, Guatemala City, Guatemala*

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

**Saleem Khan, PhD,** *Indian Veterinary Research Institute, Udaipur, India*

**Wenceslao A. Kiat Jr., MD, DPPS, FPSCOT,** *St. Luke's Medical Center, Quezon City, Philippines*

**Ravinesh Mishra, MPharm, PhD,** *Baddi University of Emerging Sciences & Technology, Baddi (Solani), India*

**Olubanke O. Ogunlana, PhD,** *Covenant University, Ota, Nigeria*

# 2013 HONOR AND AWARD RECIPIENTS



## TOXICOLOGY LANDMARKS PROGRAM



**Herbert L. Needleman**

**Herbert L. Needleman, MD**, is a medical doctor, child psychiatrist, professor, and renowned scientist who is best known for his seminal research on the neuro-developmental damage caused by lead poisoning. Dr. Needleman played a key role in securing important environmental health protections during the twentieth century, including the elimination of lead in gasoline and the issuance of guidelines by the Centers for Disease Control and Prevention for the diagnosis and management of lead poisoning in children. He played a key role in helping to establish environmental safety measures that

have reduced blood lead levels by an estimated 78 percent between 1976 and 1991. In addition, his work and persistence in educating government policymakers and others helped bring about the Consumer Product Safety Commission's ban on lead in interior paints. Dr. Needleman's work was also instrumental in convincing the Department of Housing and Urban Development to remove lead from thousands of housing units in the United States. He also designed one of the first studies of lead exposure during gestation that demonstrated that such exposure is associated with cognitive deficits later in life.

In addition to his many scientific achievements, Dr. Needleman also authored numerous books to offer advice to parents and physicians on how to evaluate and minimize toxic exposure risks including lead, asbestos, pesticides, and other toxins. While teaching at Temple University, he served as the chair of the Committee of Responsibility whose goal was to help civilians who were injured in the Vietnam War. Working with other medical doctors, scientists, clergymen, and citizens, the Committee assisted injured Vietnamese children and set up shelters for care of paraplegic children in Berkeley, California and Boston, Massachusetts.

For his achievements as a researcher on the neurodevelopmental damage caused by lead poisoning and as a researcher who made substantial inroads leading to significant environmental health protections during the twentieth century, the Society of Toxicology is pleased to recognize Dr. Needleman with the Toxicology Landmark Program Award.



## TRANSLATIONAL/BRIDGING TRAVEL AWARD



**M. Shane Hutson**

**M. Shane Hutson, PhD**, who joined the faculty at Vanderbilt University, Nashville, Tennessee, in 2003, is Associate Professor of Physics, with a secondary appointment in Biological Sciences. Professor Hutson is also a Fellow of VIIBRE—the Vanderbilt Institute for Integrative Biosystem Research & Education. His research interests are in biological physics, specifically in how biological systems can be probed and manipulated by light (biophotonics). Current projects in the lab include investigating the physical mechanisms underlying laser tissue ablation, both with mid-IR and UV lasers; using laser-microsurgery to probe the inter- and intracellular forces that drive morphogenesis (i.e., the development of an organism's form); and using genetics, laser-microsurgery, and quantitative modeling to integrate the genetic and mechanical aspects of wound detection and healing.



## UNDERGRADUATE EDUCATOR AWARD



**Sidhartha D. Ray**

**Sidhartha D. Ray, PhD, FACN**, is the recipient the 2013 SOT Undergraduate Educator Award.

Dr. Ray is professor and chair, Department of Pharmaceutical Sciences, Manchester University College of Pharmacy, Fort Wayne, Indiana since May 2011. Dr. Ray chairs programs of education, research and service in the Department of Pharmaceutical Sciences and is a member of the Dean's Management Council. Prior to joining Manchester University, Dr. Ray served as professor of toxicology at the Arnold and Marie Schwartz College of Pharmacy and Health Sciences of Long Island University, New York, where he taught several courses in toxicology, medical microbiology and immunology for nearly two decades. In his 28 years of academic experience in pharmacy teaching and research, he has trained numerous undergraduate and graduate students in toxicology. Dr. Ray is both a dedicated teacher and a formidable scientist who passionately teaches his students how to be "lifelong learners"! He currently teaches several undergraduate core courses in biomedical sciences, toxicology, and integrated pharmacotherapeutics. Over the last decade, Dr. Ray has contributed greatly to our knowledge on the apoptosis in the toxicity of acetaminophen as well as a stunning variety of drugs and chemicals. His research has influenced the development of safety measures for a number of drugs and chemicals. He is nationally recognized as a leader in the scientific community and was the first to organize continuing education courses on the role of apoptosis in health and disease at the Annual Meeting of the Society of Toxicology in 1996 in Los Angeles, California, and again in 2002 in Nashville, Tennessee.

Based upon his seminal work over the past two decades focused on understanding fundamental mechanisms of how cells die (apoptosis)

# 2013 SPONSORED AWARD RECIPIENTS

at the cellular, subcellular and genomic levels, Dr. Ray received several prestigious awards. These include the Abraham Krasnoff Memorial Award for Lifetime Scholarly Achievement, the David Newton Award for Excellence in Teaching Pharmacy, and the American Academy of Clinical Toxicology Research Award. He is internationally known for his groundbreaking work on drug and chemical-induced programmed cell death in the liver and kidneys *in vivo* and its prevention strategies by various phytochemicals. He currently serves on the NIH-NLM-Toxlearn Project and SOT Undergraduate Task Force Subcommittee (both, 2007–present), and has previously served on the SOT Education Committee (2007–2010).

## COLGATE-PALMOLIVE AWARDS FOR STUDENT RESEARCH TRAINING IN ALTERNATIVE METHODS



**Aaron Lulla, BS**, University of California Los Angeles, Los Angeles, CA

**Project Title:** The Dithiocarbamate Fungicide Ziram Results in Endogenous Synuclein Aggregation, Dopaminergic Cell Loss, and Reduced Locomotor Behavior in a Zebrafish Model of Parkinson's Disease

**Host Institution:** University of California Los Angeles, Los Angeles, CA



**Jamie Moscovitz, BA**, Rutgers, The State University of New Jersey, Piscataway, NJ

**Project Title:** Utilization of Primary Hepatocytes to Investigate Mechanisms of Chemical Disposition and Toxicity during Pregnancy

**Host Institution:** University of Rhode Island, Kingston, RI



**Alexandra Munoz, BA**, New York University School of Medicine, Tuxedo, NY

**Project Title:** Multivariate Analysis and Fuzzy Modeling to Detect Nickel and Arsenic-Induced Gene Signatures in Microarray Data

**Host Institution:** University of Applied Sciences, Western Switzerland, Yverdon-les-Bains, Switzerland

## COLGATE-PALMOLIVE GRANTS FOR ALTERNATIVE RESEARCH



**Lei Li Kerr, PhD**, Miami University, Oxford, OH

**Project Title:** Development of Artificial Nose for the Study of Engineered Nanomaterial Toxicity and Accumulation in Brain via Olfactory Pathway Exposure



**Hao Zhu, PhD**, Rutgers University, Camden, NJ

**Project Title:** Profiling Chemicals Based on Public BioAssay Data for the Development of Predictive Computational Acute Toxicity Model

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



**Melanie Adler, PhD**, Brigham and Women's Hospital, Boston, MA

**Project Title:** Development and Evaluation of a High-Throughput Platform for Kidney Toxicity Screening and Mechanistic Understanding

# 2013 SPONSORED AWARD RECIPIENTS

## PFIZER UNDERGRADUATE STUDENT TRAVEL AWARDS



**Amy Ashworth**, Northern Kentucky University, Highland Heights, KY

**Abstract Title:** Optimizing Methods to Quantify CYP1A Enzyme Activity in Mouse Brain following Developmental PCB Exposure



**Naing Bajaj**, New Mexico State University, Las Cruces, NM

**Abstract Title:** The Impact of CYP2S1 Single Nucleotide Polymorphisms on the Metabolic Activation of the Anticancer Prodrug AQ4N



**Adrienne R. Klinger**, University of North Dakota, Grand Forks, ND

**Abstract Title:** Fibronectin Expression in Human Bladder Cells (UROtsa) Exposed to or Malignantly Transformed by Arsenic or Cadmium



**Anna Lang**, Northern Kentucky University, Highland Heights, KY

**Abstract Title:** Cyp1a1\_Cyp1a2(-/-) Double-Knockout Mice Exhibit Impaired Motor Function



**Douglas J. Saforo**, University of Louisville, Louisville, KY

**Abstract Title:** Compounds Targeting Anaphase Promoting Complex Disrupt Mitosis and Induce Apoptosis in Cancer Cells

## SYNGENTA FELLOWSHIP AWARD IN HUMAN HEALTH APPLICATIONS OF NEW TECHNOLOGIES



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

**Project Title:** Elucidating the Relationship between Exposure-Induced DNA Damage and Dysregulated MicroRNAs

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