Awards and Award Descriptions

In recognition of distinguished toxicologists and students, SOT presents several prestigious awards each year. In addition to receiving the award stipend and plaque, recipients are honored at a special Awards Ceremony at the SOT Annual Meeting and their names are listed in SOT publications. The deadline for 2006 award nominations is October 9, 2005.

The Awards Committee reviews applications for SOT Awards and Sponsored Awards for scientists. Nominations for most of these awards must be submitted by a sponsor and a seconder who are full members of SOT using the On-Line Award Nomination Form. The supporting documentation must indicate the candidate’s achievements in toxicology and is critical in the selection of each application. See the award description for the additional requirements for some of the awards, including the Sponsored Awards. The Best Paper Awards are reviewed by the Board of Publications.

Student awards, both SOT and Sponsored Awards, are reviewed by the Education Committee, and application procedures are specific for each award. Other student awards are available through Regional Chapters and Specialty Sections. A student may apply for any award for which he or she is eligible and may apply for and receive multiple awards, whether SOT, Regional Chapters, or Specialty Sections sponsor the awards. Policies related to travel awards are determined by the sponsor (SOT, Regional Chapter, or Specialty Section).

Full descriptions of each award, application procedures, and names of past recipients may be found on the SOT Web site at www.toxicology.org.

Award Descriptions

Achievement Award

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

Award Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1967</td>
<td>Gabriel L. Plaa</td>
</tr>
<tr>
<td>1968</td>
<td>Allan H. Conney</td>
</tr>
<tr>
<td>1969</td>
<td>Samuel S. Epstein</td>
</tr>
<tr>
<td>1970</td>
<td>Sheldon D. Murphy*</td>
</tr>
<tr>
<td>1971</td>
<td>Yves Alarie</td>
</tr>
<tr>
<td>1972</td>
<td>Robert L. Dixon*</td>
</tr>
<tr>
<td>1973</td>
<td>(No Award)</td>
</tr>
<tr>
<td>1974</td>
<td>Morris F. Cranmer</td>
</tr>
<tr>
<td>1975</td>
<td>Ian C. Munro</td>
</tr>
<tr>
<td>1976</td>
<td>Curtis D. Klaassen</td>
</tr>
<tr>
<td>1977</td>
<td>James E. Gibson</td>
</tr>
<tr>
<td>1978</td>
<td>Raymond D. Harbison</td>
</tr>
<tr>
<td>1979</td>
<td>Michael R. Boyd</td>
</tr>
<tr>
<td>1980</td>
<td>Philip G. Watanabe*</td>
</tr>
</tbody>
</table>

Indicates an SOT Sponsored Award

1981 ....................................................... Frederick P. Guengerich
1982 ....................................................... Melvin E. Andersen
1983 ....................................................... Alan R. Buckpitt
1984 ....................................................... Sam Kacew
1985 ....................................................... James S. Bus
1986 ....................................................... Jeanne M. Manson
1987 ....................................................... James P. Kehrer
1988 ....................................................... Michael P. Waalke
1989 ....................................................... Debra Lynn Laskin
1990 ....................................................... Michael P. Hoelzle
1991 ....................................................... David L. Eaton
1992 ....................................................... James L. Stevens
1993 ....................................................... Lucio G. Costa
1994 ....................................................... Kenneth Ramos
1995 ....................................................... Kevin E. Driscoll
1996 ....................................................... Rick G. Schnellmann
1997 ....................................................... Michel Charbonneau
1998 ....................................................... Christopher Bradfield
1999 ....................................................... Martin Philbert
2000 ....................................................... Ruth Roberts
2001 ....................................................... Lois D. Lehman-McKeeman
2002 ....................................................... David Dorman
2003 ....................................................... (No Award)
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 a 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 Balazs*
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
1997 ................................................................. (No Award)
1998 ................................................................. Helmut Alfred Greim
1999 ................................................................. (No Award)
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 Conolly

AstraZeneca Traveling Lectureship Awards

The AstraZeneca Traveling Lectureship Awards are presented through the Society of Toxicology to recognize excellence in research and service in toxicology. AstraZeneca, Ltd., provides one or two awards annually to promote greater collaboration between European and North American toxicologists and to enable North American toxicologists to undertake a three-four week lecture tour of Europe. The awards are intended to familiarize recipients with research and regulatory issues in Europe as well as bring a North American perspective to these issues. Candidates for these awards should be established, mid-career North American scientists who are members of the Society and who demonstrate the ability to develop collaborative relationships with European colleagues. The awards are given each year in the amount of $6,000 each.

Award Recipients

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

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

**Best Paper in Toxicology and Applied Pharmacology**

**Award Recipients**

1995 ................................................... M. F. Denny, M. F. Ware, W. D. Atchison
1996 ................................................... J. A. Kolpin, J. R. Miller, E. C. McCree
1997 ................................................... P. R. S. Kodavanti, T. R. Ward, J. D. McKinney
1998 ................................................... J. S. Landin, S. D. Cohen, E. A. Khairallah*
1999 ................................................... S. K. Ramaiya, M. G. Soni, T. J. Bucci
1999 ................................................... H. M. Mehdendale
1999 ................................................... C. L. Zuch, D. J. O’Mara, D. A. Cory-Slechta
2001 ................................................... C. L. Waller, H. A. Tilson
2002 ................................................... G. S. Ratra, S. G. Kamita, J. E. Casida
2003 ................................................... J. Doorn, M. Schall, D. Gage, T. Talley,
                                                                                     C. Thompson, R. Richardson

**Award Recipients (Frank R. Blood Award)**

1974 ................................................... Yves Alarie
1975 ................................................... Donald J. Ecobichon, G. J. Johnstone, O. Hutzinger
1976 ................................................... Richard D. Brown
1977 ................................................... J. Dedinas, George D. DiVincenzo, C. J. Kaplan
1978 ................................................... Perry J. Gehring*, E. O. Madrid, G. R. McGowan,
                                                                                     M. J. Moxley
1980 ................................................... Jerold A. Last, Peter F. Moore, Otto G. Raae,
                                                                                     Brian K. Tarkington
1981 ................................................... Yves Alarie, Martin Brady,
                                                                                     Christine Dixon, Meryl Karol
1982 ................................................... Melvin E. Andersen, Michael L. Gargas,
                                                                                     Lawrence J. Jenkins, Jr., Robert A. Jones
1983 ................................................... Henry D. Heck
1984 ................................................... Erik Dybing, Sidney Nelson, Erik Soderlund,
                                                                                     Christen Von Bahr
1985 ................................................... Nobumasa Imura, Masae Inokawa, Kyoko Miura
1986 ................................................... Calvin C. Wilhite, M. I. Dawson, K. J. Williams
1987 ................................................... John Kao, Frances K. Patterson, Jerry Hall
1988 ................................................... Debra L. Laskin, Sungchul Ji, Anne M. Pilaro
1989 ................................................... R. G. Cuddihy, W. C. Griffith,
                                                                                     Rogene F. Henderson, Joe L. Mauderly,
                                                                                     Roger O. McCellan, M. D. Snipes, Ronald K. Wolff
1990 ................................................... William P. Beierschmitt, Joseph T. Brady,
                                                                                     John B. Bartolone, D. Stuart Wyand,
                                                                                     Edward A. Khairallah, Steven D. Cohen
1991 ................................................... Jay Babcock Silkworm, Daryl Cutler,
                                                                                     LuAnn Antrim, Don Houston, Casimir Tumasonis,
                                                                                     Laurence S. Kaminsky
1992 ................................................... Donald A. Fox, Steve D. Rubinstein, Pauline Hsu
1993 ................................................... Thomas Mably, Robert W. Moore, Robert W. Goy,
                                                                                     Richard E. Peterson
1994 ................................................... Susan J. Berghoff, William H. Lagarde

Visit the SOT Web site for up-to-date Membership information www.toxicology.org.
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 non-animal models, reproductive and developmental toxicology, neurotoxicology, systemic toxicology, sensitization, and acute toxicity. Deadline for applications is August 1, 2005.

Applications can be for a single year or multi-year, and candidates can re-apply for additional funding each year. The maximum award in any one year will not be greater than $40,000. Awards are made as a single lump payment. An expert panel from the SOT In Vitro Specialty Section will recommend a prioritized list of applicants for funding, with the final awards designated by the SOT Awards Committee.

Colgate-Palmolive Post-Doctoral Fellowship Award in In Vitro Toxicology

The Colgate-Palmolive Company sponsors the Colgate-Palmolive Post-Doctoral 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 in alternate years and includes stipend and research-related costs (up to $38,500) for one year. The award may be extended for an additional year upon agreement between Colgate-Palmolive and the post-doctoral fellow. The award is available to post-doctoral trainees employed by academic institutions, federal/national laboratories or research institutes worldwide. Preference will be given to applicants in their first year of post-doctoral study. The Education Committee reviews applications, which are due in even calendar years, and the fellowship is awarded for the following year. The next application deadline: October 9, 2006.

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

Colgate-Palmolive/SOT Awards for Student Research Training in Alternative Methods

The purpose of the Colgate-Palmolive/SOT 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 Education Committee will present the awards to graduate students or to institutions that provide research internships. Up to five awards, at $3,500 each, are available. Deadlines for applications are February 15, June 15, and October 9.

Graduate Students: 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, non-mammalian animal models, computer modeling, and structure-activity relationships. Graduate students may propose to develop expertise in such 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 toxicity graduate students enhance their thesis or dissertation research. The overall goal is to support the replacement, reduction, or refinement of currently used animal models in toxicology research and testing. Awards of up to $3,500 per student will defray travel, per diem, and training expenses.

Institutions: Awards will also be made to institutions that propose a 10-week research experience for students (at any level) involving in vitro toxicology or alternative methods to reduce, replace, or refine, the use of animals in toxicology 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 Nascarella
2005 ...... Vishakha Bhave, Ankur V. Dnyanmote, Jonathan M. Maher
AWARDS AND AWARD DESCRIPTIONS

Colgate-Palmolive Traveling Lectureship in Alternative Methods in Toxicology Award

The Colgate-Palmolive Company sponsors the Colgate-Palmolive Traveling Lectureship in Alternative Methods in Toxicology Award annually through the Society of Toxicology. This award covers expenses for an individual scholar to visit institution(s) for the dissemination of knowledge and for stimulating research that takes advantage of modern in vitro toxicology approaches. The overall goal of this program is to make scientists aware of the benefits of modern in vitro toxicology approaches and to stimulate research for the replacement, reduction or refinement of currently used animal models. The scholar may be asked to make a special presentation at the SOT Annual Meeting.

Lecturing scholars should be established, mid-career through late-career scientists who are members of SOT and who are developing collaborative relationships with scientists at other institutions.

Requests for funds can be made by the individual scholar or by organizations such as universities, colleges, SOT Specialty Sections and SOT Regional Chapters, and other toxicology organizations that are interested in inviting the scholar. Up to $15,000 is available. The Awards Committee reviews the applications, which must be accompanied by a statement of the applicant’s experience, a brief overview of the techniques to be discussed in the lecture, and a letter from the hosting institution(s) indicating their interest in serving as host and the potential benefits to the institution.

Award Recipients

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

Contributions to Public Awareness of the Importance of Animals in Toxicology Research Award

The Contributions to Public Awareness of the Importance of Animals in Toxicology Research Award is presented annually to an individual (or organization) in recognition of the 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 both to ensure and enhance the quality of human and animal health and the environment. The award consists of a plaque and a cash stipend.

Award Recipients

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

Distinguished Lifetime Toxicology Scholar Award

The Distinguished Lifetime Toxicology Scholar Award is presented to a member of SOT who has made substantial and seminal scientific contributions to the discipline of toxicology. The prime consideration for this award is scientific accomplishments and not necessarily service to the Society. This award consists of a plaque and a cash stipend. (This award was formerly known as the Scientific Achievement Award.)

Award Recipients (Scientific Achievement Award)

2001 James E. Trosko

Award Recipients

2003 Henry C. Pitot
2004 Gerald N. Wogan
2005 Daniel Nebert

Visit the SOT Web site for up-to-date Membership information www.toxicology.org.
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. Comish*
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. Miyia
1990 ................................................................. Charles H. Hine
1991 ................................................................. Hanspeter R. Witschi
1992 ................................................................. Dean E. Carter
1993 ................................................................. Curtis D. Klaassen
1994 ................................................................. Robert A. Neal
1995 ................................................................. William Carlton
1996 ................................................................. Robert Snyder
1997 ................................................................. Albert E. Munson
1998 ................................................................. David J. Holbrook
1999 ................................................................. Jules Brodeur
2000 ................................................................. Gary Carlson
2001 ................................................................. Harithara Mehandale
2002 ................................................................. Joseph Borzelleca
2003 ................................................................. Frederick W. Oehme
2004 ................................................................. A. Jay Gandolfi
2005 ................................................................. Nobuyuki Ito

Enhancement of Animal Welfare Award

The Enhancement of Animal Welfare Award is presented annually to a member of the Society in recognition of the 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. This award recognizes outstanding/significant contributions made by members of the Society of Toxicology to the sound and responsible use of animals in scientific research. The achievement recognized may be either a seminal piece of work or a long-term contribution to toxicological science and animal welfare. The award consists of a plaque and a cash stipend.

Award Recipients

2000 ................................................................. Yves Alarie
2001 ................................................................. Alan Goldberg
2002 ................................................................. Gary Williams
2003 ................................................................. G. Frank Gerberick, Ian Kimber
2005 ................................................................. Daniel Acosta

Graduate Student Fellowship—Novartis Award

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

Award Recipients

1989 ................................................................. Timothy Zacharewski
1990 ................................................................. Mary Suzanne Stefaniak
1991 ................................................................. Donald Bjerke
1992 ................................................................. Lhanoo Gunawardhana
1993 ................................................................. Christopher Martenson
1994 ................................................................. Nyla Harper
1995 ................................................................. Heather E. Kleiner
1996 ................................................................. Russell Thomas
1997 ................................................................. Melva Rios-Blancos
1999 ................................................................. Kent Carlson
1999 ................................................................. Mark Hickman
2000 ................................................................. Jeffrey Moran
2001 ................................................................. Vishal Vaidya
2002 ................................................................. Kartik Shankar
2003 ................................................................. Sachin Devi
2004 ................................................................. James Luyendyk
2005 ................................................................. Andrea W. Wong

(Recipients of Graduate Fellowship Awards no longer offered may be found on the SOT Web site at www.toxicology.org.)
Awards and Award Descriptions

Graduate Student Travel Awards

Graduate Student Travel Awards defray expenses for students presenting platform talks or posters at the SOT Annual Meeting. To be eligible, the student must be a SOT member (or have submitted a membership application) who has not previously received a graduate student travel award.

Honorary Membership

The Society of Toxicology recognizes non-members who embody outstanding and sustained achievements in the field of toxicology with the Honorary Member Award. Candidates are nominated by two voting 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.

Inductees

1962 ................................................................. Eugene M.K. Geiling*
1962 ................................................................. W. F. Von Oettingen*
1962 ................................................................. Torald H. Sollman*
1963 ................................................................. Ethel Browning*
1966 ................................................................. R. Tecwyn Williams*
1976 ................................................................. Norton Nelson*
1982 ................................................................. George H. Hitchings*
1986 ................................................................. Bernard B. Brodie*
1986 ................................................................. Herbert Remmer*
1991 ................................................................. Hyman J. Zimmerman*
1994 ................................................................. Ronald W. Estabrook
1994 ................................................................. Wendell W. Weber
1995 ................................................................. Gertrude B. Ellion*
1995 ................................................................. Charles S. Lieber
1996 ................................................................. Sten G. Orrenius
1996 ................................................................. Dennis Parke
1997 ................................................................. John E. Casida
1997 ................................................................. Roger W. Russell*
1998 ................................................................. Jud Coon
1998 ................................................................. Michel Mercier
1999 ................................................................. William O. Robertson
1999 ................................................................. Takashi Sugimura
2000 ................................................................. Findlay Russell
2001 ................................................................. Herbert Needleman

Merit Award

The Merit Award is presented to a member of the Society of Toxicology in recognition of a distinguished career in toxicology. This award consists of a plaque and a cash stipend.

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 ................................................................. Verdal 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. Amdu*
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
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 a SOT mentor. The travel awards are for those from races and ethnic groups under-represented in the sciences (African American, American Indian or Hispanic American) and for their advisors. 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, and Johnson & Johnson.

Public Communications Award

The Public Communications Award is presented by the Society of Toxicology to recognize 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: books, brochures, continuing education courses, data bases, extension bulletins, magazines, newspapers (local or national), outreach, public presentations, public forums, radio and television scripts, and workshops. The award consists of a plaque and a cash stipend.

Awards 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 Krieger

Regional Chapter Student Awards

Most SOT Regional Chapters provide awards to recognize outstanding students or scientists. Application requirements and deadlines vary. Visit the Regional Chapter or Awards and Fellowship sections on the SOT Web site for full details.

Society of Toxicology/American Chemistry Council Early Career Award

The American Chemistry Council offers an Early Career Award through the Society of Toxicology. The award is up to $100,000 and is designed to encourage persons beginning their professional careers to conduct research that will improve the scientific basis for risk assessment and decision making with respect to a particular specialty area of potential toxicity of chemicals. Awards have been offered in Inhalation and Neurotoxicology.

Award Recipients

2002 ................................................................. Ronald Tjalkens (Neurotoxicology)
2003 ................................................................. Ilona Jaspers (Inhalation)
2004 ................................................................. Nikolay Filipov (Neurotoxicology)
2005 ................................................................. (No Award)
SOT/IUTOX AstraZeneca Fellowship

The AstraZeneca company, in conjunction with SOT, sponsors a travel fellowship award annually through SOT and IUTOX. Awards will be 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  Christopher 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), Marjan G. Vracko (Slovenia)
      W. Wasowicz (Poland), Ping-kun Zhou (China)
2004  Cristina Bolaton (Philippines), P.K. Gupta (India)
      Salmaan Inayat-Hussain (Malaysia), Xianping Ying (China)
2005  Diana B. Apostolova (Bulgaria), Marite Aria 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)

Specialty Section Student Awards

Most SOT Specialty Sections provide awards to recognize outstanding student presentations at the SOT Annual Meeting. Application requirements and deadlines vary. For more details refer to the Award descriptions on the SOT Web site at www.toxicology.org, under Specialty Sections or the Awards and Fellowships section.
Dr. Rory B. Conolly’s contributions as a leader in the incorporation of good science in risk assessment and regulatory decisions are consistent with the spirit of the Arnold J. Lehman Award. He has had a significant influence on many important risk assessment decisions and documents within the U.S. government and industry. Even more importantly, his knowledge plus his communication skills have created a lasting appreciation by many of his “students” for the importance of computational biology methods in the field of risk assessment.

Dr. Conolly’s experience with physiologically-based pharmacokinetic modeling has resulted in his being widely sought by governmental, industrial, and academic organizations to design and interpret studies involving the science of non-cancer risk assessment and cancer risk assessment modeling. He has provided expert testimony before Congress, participated in the preparation of several water quality criteria monographs for EPA, and has conducted risk assessment activities on behalf of NIOSH, NIEHS, IPCS, FDA and the SOT. Dr. Conolly stands out among his colleagues as a leader in the inclusion of good science in risk assessment.

The Board of Publications has unanimously selected the paper entitled *Arsenic Stimulates Angiogenesis and Tumorigenesis In Vivo* as the best paper published in *Toxicological Sciences* during the past year. The joint first authors of this paper are Nicole V. Soucy and Michael A. Ihnat. The co-authors are Chandrashekhar D. Kamat, Linda Hess, Mark J. Post, Linda R. Klei, Callie Clark and Aaron Barchowsky (*ToxSci*. 76, 271–279, 2003).

Although arsenicals have been used for treating a variety of cancers including acute or chronic leukemias and solid tumors, their clinical use and environmental exposures are also associated with significant adverse effects on the cardiovascular system. One hypothesis for the antitumor effects of trivalent arsenic As (III) is that it inhibits angiogenesis. At the same time, however, there is conflicting evidence that As (III) is also directly angiogenic in cell culture. The significance of the work reported by Soucy et al. is that the paper represents the first report of the effects of As (III) on angiogenesis in vivo. The authors used both avian and mammalian models to test the hypothesis that As (III) stimulated angiogenesis and tumor growth in a dose-dependent manner. The authors showed that As (III) increased blood vessel density in the chick chorioallantoic membrane and mouse Matrigel models. Additionally, they demonstrated that As (III) increased the size and density of blood vessels of solid tumors growing in a nude mouse model while enhancing tumor growth and metastatic potential. Importantly, the authors’ work revealed a complex, non-linear dose-response relationship, with pro-angiogenic properties observed at levels relevant to environmental exposure.

Although the work has not fully characterized the mechanisms underlying the angiogenic properties of As (III), the results represent important new data that impact human health. In particular, the work provides new information regarding the scientific underpinning of the carcinogenicity of As (III) and the potential for adverse health effects of environmental exposure to As (III) while documenting a very narrow therapeutic window when treating solid tumors with arsenic. The paper is an outstanding example of a relevant, hypothesis-driven approach to address an important human health concern.

This year, the Awards Committee has selected two recipients for Contributions to the Public Awareness of the Importance of Animals in Toxicology Research Award.

The first recipient is the Foundation for Biomedical Research, which has provided valuable educational resources supporting the use of animals systems for providing invaluable and irreplaceable insights into human systems. These resources include articles elaborating the contributions of animal research, materials for both teachers and parents of children in primary and secondary schools, and links to other federal agencies and foundation web sites that support and address the needs of animals in biomedical research.

The second recipient is Senator Orrin Hatch, a long-time supporter of biomedical research. Senator Hatch, as Chair of the Senate Judiciary Committee has held hearings on the subject of “Animal Rights: Activism vs. Criminality” to call attention to the rising incidence of terrorist like activities associated with some animal rights group. He will hold another committee meeting on the topic of Animal Rights/Activism in late 2004 or early 2005 with the intent of initiating legislation to protect universities and research organizations from such groups’ illegal and violent activities.
2005 Award Winners

Distinguished Lifetime Toxicology Scholar Award

This year’s recipient of the Distinguished Lifetime Toxicology Scholar Award is Dr. Daniel Nebert, Professor in the Department of Environmental Health, University of Cincinnati School of Medicine. Dr. Nebert received his M.D. degree from the University of Oregon Medical School, completed his residency training and joined the National Institutes of Health where he held several research leadership positions in the National Institute of Child Health and Human Development. In 1989, he joined the faculty at the University of Cincinnati where he holds cross-appointments in several Departments and Programs.

Dr. Nebert continues to be one of the most productive and influential scientists of our time. He is the author of over 500 publications and his research on cytochrome P450 (CYP) regulation drug and carcinogen metabolism has significantly impacted the fields of toxicology, pharmacology, genetics, endocrinology, oncology, biochemistry and molecular biology. He has contributed seminal research publications to all of these fields and his pioneering efforts on organizing and classifying the CYP superfamily are a model for understanding gene relationships in many other gene families. Dr. Nebert has received honors from numerous scientific societies, government, and universities and in his lectures he not only provides historical scientific insights but also cutting-edge pharmacogenetic research results. Not surprisingly, Dr. Nebert is one of the most highly cited scientists in his field.

Research in Dr. Nebert’s laboratory has been carried out by a long list of graduate students, post-doctoral fellows, research associates, and visiting scientists. Many of these individuals are now distinguished scientists in their own right and their success has been significantly influenced by Dr. Nebert’s mentorship and collaboration. This combination of inspired research and mentorship, coupled with insightful new ideas and hypotheses, defines the scientific career of Dr. Nebert and is consistent with the award of the 2005 Distinguished Lifetime Toxicology Scholar Award from the Society of Toxicology.

Education Award

The recipient of the 2005 Education Award is Dr. Nobuyuki Ito. Dr. Ito began his pioneering efforts in toxicology education 30 years ago when he established an extensive teaching and training program for toxicologists at the Nagoya City University Medical School, Department of Pathology. He has trained two generations of toxicologists and toxicologic pathologists in Japan, first as Chairman of the Department, then as Dean of the Medical School and lastly as President of the University.

Dr. Ito and his students and senior scientists have made major and significant contributions to risk assessment and regulation of chemicals and food additives in Japan, in the U.S. and internationally. His work in the field of histogenesis and modulation of the neoplastic process and his work on the role of antioxidants in anticarcinogenesis have been acknowledged by many learned societies, including the Princess Takamatsu Cancer Research Fund, the Japanese Cancer Association, and the Federation of Societies of Toxicologic Pathology. During his distinguished career at Nagoya City University Medical School, Dr. Ito has authored and co-authored with his numerous students and associates more than 600 peer-reviewed scientific publications. His former students, numbering more than 100, are in very important positions around the world, continuing his task of educating toxicologists in Japan, Korea, Brazil and the U.S. This year's Education Award celebrates Dr. Ito’s lifelong contributions to education.

Visit the SOT Web site for up-to-date Membership information www.toxicology.org.
2005 Award Winners

Enhancement of Animal Welfare Award

Dr. Daniel Acosta, Dean of the College of Pharmacy at the University of Cincinnati, is the 2005 recipient of the Enhancement of Animal Welfare Award. This award was instituted in 2000 to honor a member of the Society of Toxicology whose scientific accomplishments have led to a marked reduction in the use of experimental animals for research. Dr. Acosta was one of the early pioneers in the development of in vitro cell cultures as models for testing and mechanistic studies on drugs and toxicants. He, his co-workers, and other scientists in this field developed appropriate conditions for culturing cells from various tissues that mimicked their derived normal tissues, thus greatly reducing the need for experimental animal testing. Dr. Acosta was not only a pioneer in developing alternative in vitro test methods, but he was successful in maintaining viable cultured cells from multiple sites including liver, heart, kidney, and nervous tissues. In addition to his scientific accomplishments in the field of in vitro toxicology, Dr. Acosta has been an outstanding mentor teacher/lecturer, and he is also a former President of the Society of Toxicology. Dr. Acosta’s long-term contributions to in vitro toxicology have greatly decreased the use of animals in research, and he is recognized and honored for his accomplishments with the 2005 Enhancement of Animal Welfare Award.

Merit Award

The Awards Committee is honored to select Roger O. McClellan, DVM, MMS, DABT, DABVT, FATSt, as the 2005 Merit Award recipient. Dr. McClellan is well recognized for distinguished accomplishments in several areas: his pioneering and productive research career; a legacy of leadership through both his impact on the development of renowned research institutes and the fostering of educational programs; and for significant service as a scientific advisor to numerous national and international agencies, academic institutions, and professional and private organizations. Dr. McClellan has had an extensive, productive and influential research career. He has authored or co-authored more than 350 scientific papers and has edited or co-edited 10 books in the fields of inhalation toxicology, comparative medicine, and human health risk analysis. By virtue of his unique vision, he is recognized for pioneering many influential studies that served as the cornerstone for subsequent research and which have had tremendous influence on subsequent regulatory decisions.

In 1966, at an early age, Dr. McClellan assumed leadership of the Lovelace Inhalation Toxicology Research Institute (ITRI) and subsequently became its President. The ITRI continues today as part of the Lovelace Respiratory Research Institute. Under his leadership, Lovelace became an internationally recognized institute known for its high-quality studies of the toxicity of radioactive and chemical airborne pollutants. He introduced strategic, innovative, and multi-disciplinary approaches and championed teamwork to advance the analysis of complex environmental and occupational exposures. In 1988, Dr. McClellan became the third President of the Chemical Industry Institute of Toxicology (CIIT, now CIIT Centers for Health Research). During his tenure with CIIT, he enhanced its reputation as a world leader in understanding the human health risks of chemical exposures. There he solidified the concept of using all available data, from epidemiological to subcellular studies, to predict health consequences at exposures relevant to people.

Dr. McClellan has been notably generous in service to a number of professional organizations, including presiding as President of the Society of Toxicology, the Toxicology Education Foundation, the American Board of Veterinary Toxicology, and the American Association for Aerosol Research. He serves in an editorial role for several journals and as the Editor of Critical Reviews in Toxicology. He is a diplomat of both the American Board of Toxicology and the American Board of Veterinary Toxicology, and a Fellow of The Academy of Toxicological Sciences, Society for Risk Analysis, Health Physics Society and American Association for Advancement of Science. He has served on the adjunct faculty of eight academic institutions and is a frequent advisor on toxicology and human risk issues to both public agencies and private parties in the U.S. and abroad.

Dr. McClellan’s significant contributions have been previously recognized by a number of honors. Among them are the following: election to membership in the Institute of Medicine of the National Academy of Sciences; two Distinguished Associate Awards from the Department of Energy for outstanding scientific vision and research leadership in inhalation toxicology, radiation biology, and environmental health sciences; an International Aerosol Fellow Award from the International Aerosol Research Assembly for outstanding contributions to aerosol science and technology; the Thomas T. Mercer Joint Prize from the American Association for Aerosol Research and the International Society for Aerosols in Medicine for excellence in the field of inhalation materials and pharmaceutical aerosols; an International Society of Regulatory Toxicology and Pharmacology award for outstanding contributions to improving the science for risk-based decision making; Distinguished Alumni Awards from Washington State University and the University of New Mexico; a career achievement award from the Inhalation Specialty Section of the Society of Toxicology; and the Arnold J. Lehman Award from the Society of Toxicology for major contributions to the control of chemical agents.

For his outstanding scientific career, his leadership in directing and advancing key issues in toxicology and human health risk analysis, and for his distinguished service record, the Society of Toxicology is pleased to present the 2005 Merit Award to Dr. McClellan as an additional and well-deserved honor.
2005 Award Winners

Public Communications Award

Dr. Robert I. Krieger, an Extension Toxicologist, Department of Entomology, at the University of California, Riverside, has been selected to receive the 2005 Public Communications Award. Dr. Krieger is a distinguished research investigator who has contributed over 100 technical articles published in the peer-reviewed literature. He also served as senior editor of the 2nd Edition of the Handbook of Pesticide Toxicology, a text familiar to most toxicology students. Dr. Krieger’s university lectures are among the best. In addition, his commitment to meeting the challenge of clearly communicating critical concepts of toxicology to non-technical audiences is exemplary.

Dr. Krieger’s public outreach is across a range of audience and toxicity topics that has spanned from speaking to kindergarten students on blow gun dart poison, to town-forum meetings discussing the risk of exposure to malathion due to drift from aerial sprayings against Medfly outbreaks. The variety of venues to which he diligently directs his participation is also notably broad, and includes the following: mentoring contestants and judging entries at grade-school science fairs; continuing education lectures to pesticide user groups, migrant laborers, parents, teachers, and consumers; providing expert witness in a number of jury trials where complex toxicological issues had to be explained in understandable terms; media reports and newspaper or radio interviews; and as a technical advisor to television shows such as CSI Miami.

Dr. Krieger also has aided deliberations convened by legislative bodies or advisory committees on health policy. For example, he assisted the Federal Trade Commission in the evaluation of the efficacy of vegetable and produce washes. Dr. Krieger’s publication on the use of mosquito coils in Asia and their subsequent withdrawal from use in Indonesia demonstrates an international impact.

His scientific expertise, coupled with unique oral communication skills and enthusiasm, make Dr. Krieger very effective at presenting a balanced, scientific perspective. Such a perspective is absolutely essential to ensuring that the principles, findings, extrapolations, and uncertainties that underlie toxicological assessments, public concerns, and regulatory strategies are all equally understood by citizens, stakeholders, and decision makers alike. In so doing, he has advanced the understanding and acceptance of toxicology as a scientific discipline critically relevant to enhancing human, animal, and environmental health. The Society of Toxicology is pleased to recognize Dr. Krieger for his outstanding efforts both to communicate clearly and to soundly educate a diverse audience on the fundamentals of our profession.

AstraZeneca Traveling Lectureship

This year’s recipient of the AstraZeneca Traveling Lectureship Award is Dr. Kevin M. Crofton. Dr. Crofton is a neurotoxicologist with the Neurotoxicology Division of the National Health and Environmental Effects Laboratory, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina. His primary research interest is the effects of thyroid disrupting chemicals on the ontogeny of the nervous system. Dr. Crofton has presented invited lectures in the U.S., Europe, and Canada and currently serves on the Editorial Boards of several scientific journals. Dr. Crofton’s traveling lectureship is in support of the development of a new program within EPA to implement and validate the use of high-throughput in vitro methods and alternative species as first-tier screening methods for developmental neurotoxicity. His lectureship will include visits with Dr. Sandra Coecke, Development Coordinator Metabolism and Neurotoxicity at ECVAM Institute for Health and Consumer Protection, European Commission, Joint Research Center, Ispra, Italy; Dr. Adrian Percy of Bayer Crop Science, Sophia Antipolis Research Center in France and Dr. David Ray of the MRC Applied Neuroscience Group, Biomedical Sciences at the University of Nottingham, Queens Medical Centre in Nottingham, England.

2005 Student Award Winners

Colgate-Palmolive Post-Doctoral Fellowship in In Vitro Toxicology

Recipient: Francis Tukov, Michigan State University

Novartis Graduate Fellowship

Recipient: Andrea W. Wong, University of Toronto

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2005 Fellowship and Travel Award Winners

2005 Society of Toxicology Graduate Travel Award Recipients

Justin Aldridge ................................................... Duke University Medical Center
Gillian Backus .............................................. University of North Carolina Chapel Hill
Lynn Bekris .................................................... University of Washington
Elizabeth Besteman .......................................... Virginia Tech
Steven Bezdency .............................................. Michigan State University
Jessica Bohonowycz ........................................ University of California, Davis
Zachary Bowman .............................................. Medical University of South Carolina
Jeffrey Brasel .................................................. University of Nevada
Joann Brooks ................................................... Meharry Medical College
Christopher Brynzka ......................................... North Carolina State University
......................................................... (NIEHS)
Lyle Burgoon ................................................... Michigan State University
Katherine Burns ................................................ Center for Molecular Toxicology
......................................................... and Carcinogenesis
Jason Cannon ................................................... University of Michigan
David Carbone .................................................. University of Colorado
Sara Carney ..................................................... University of Wisconsin-Madison
Wei-Yuan Chang ............................................. University of Louisville
Haoxin Chen ................................................... New York University School of Medicine
Ming-Kai Chen ................................................ Johns Hopkins University
Ying Chen ....................................................... University of Cincinnati
Christine Cincoli ............................................. University of the Sciences in Philadelphia
Kimberly Day .................................................. University of California, Davis
Lisa Domico .................................................... Rutgers University
Anne Doyle ..................................................... Johns Hopkins University
Cora Fong ....................................................... Michigan State University
Erika Garcia-Chavez .......................................... CINVESTAV
Russell Garrett ................................................ University of Rochester
Devon Graham ................................................ DHHS NIH NIDA IRP
Jackson Gross ................................................ University of Wisconsin-Madison
Rupesh Gupta .................................................. University of Maryland
Curt Harper ..................................................... University of Alabama at Birmingham
Lei He .............................................................. University of Cincinnati
Vidisha Kini ..................................................... University of Pittsburgh
Zhanna Kirnp ................................................. University of California Los Angeles
Heather Klintworth .......................................... University of Washington
Josh Kwokel .................................................... Michigan State University
Cindy Landgren ............................................... Iowa State University
Hong Liu ........................................................ University of Illinois at Chicago
Ju Liu ............................................................. University of Illinois at Chicago
Britt McAtee ................................................... Johns Hopkins University
Sonia Miranda ................................................ University of Louisiana at Monroe
Sandeep Mukhi ................................................ Texas Tech University
Ashley Murray ................................................ West Virginia University
Marc Nascarella .............................................. Texas Tech University
Faik Nasser ..................................................... University of Michigan
Haley Neff-Laford ........................................... Washington State University
Andy Nong ....................................................... University of Montreal
Flavia Pereira ................................................ University of Montana
Marisa Pulido ............................................... Texas A&M Health Sciences Center
......................................................... University of Pennsylvania
......................................................... University of Arizona
......................................................... INRS-Universite du Quebec
Angela Reid .................................................. University of Arkansas for Medical Sciences
Amber Rinderknecht ........................................ University of California, Irvine
Joshua Robinson ............................................ University of Washington
Brante Sampey ................................................ University of Colorado
Neelesh Sharma ............................................. University of Georgia
Dalil Shi ........................................................ University of California, Riverside
Lewis (Zhichang) Shi ....................................... Purdue University
Rika Shuto ..................................................... San Diego State University
Stephanie Smith-Roe ........................................ Oregon State University
Matthew Stout ............................................... University of North Carolina Chapel Hill
Frazier Taylor ................................................ University of Louisville
Marcus Terneus ............................................. Marshall University
Kerry Thuett ................................................... Texas A&M University
Leslie Tompkins ............................................. North Carolina State University
Maggie Tsang ................................................... St. John’s University
Anton Tsivinsky ............................................. Institute of Toxicology
Ajith Vengellur ............................................. Michigan State University
Fei Wang ......................................................... University of Florida
Gensheng Wang ............................................. University of Maryland
Wei Wang ....................................................... Northeastern University
Timothy Whitsett ........................................... University of Alabama at Birmingham
Lindsay Wickers ............................................ US Environmental Protection Agency
Mary Williamson ........................................... University of Rochester
Kevin Wolfe ............................................... University of Texas Medical Branch
Ran Wu ........................................................ University of Kentucky
Mi Young Yang ............................................. University of Arizona
Yang Ye ........................................................ University of Texas at Austin
Zhen Yu ......................................................... Oregon State University
Wei Yuan ....................................................... Northeastern University
Yuzhao Zhou ................................................ University of Kentucky

Colgate-Palmolive/Society of Toxicology Award for Student Research Training in Alternative Methods Recipients

Vishakha Bhave  
*University of Louisiana at Monroe*

Ankur V. Dnyanmote  
*University of Louisiana at Monroe*

Jonathan M. Maher  
*University of Kansas*

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