

# Society of Toxicology Awards and Award Descriptions

In recognition of distinguished toxicologists and students, SOT presents several 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. **The deadline for the 2003 award nominations is October 9, 2002.**

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 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 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](http://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

1967	..... Gabriel L. Plaa
1968	..... Allan H. Conney
1969	..... Samuel S. Epstein
1970	..... Sheldon D. Murphy
1971	..... Yves Alarie
1972	..... Robert L. Dixon
1973	..... (No Award)
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	..... Phillip G. Watanabe



### Indicates SOT Sponsored Award

1981	..... (No Award)
1982	..... Frederick P. Guengerich
1983	..... (No Award)
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 Ramos
1997	..... Kevin E. Driscoll
1998	..... Rick G. Schnellmann
1999	..... Michel Charbonneau
2000	..... Christopher Bradfield
2001	..... Martin Philibert
2002	..... Ruth Roberts

# Award Descriptions (Continued)



## 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 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
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

## 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 3-4 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. 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 Pugo
2000	.....	Kenneth Ramos, Garold Yost
2001	.....	Ronald Hines, Richard Seegal

## AstraZeneca Fellowship

Three (3) fellowship awards are available to senior scientists from a country where toxicology is underrepresented to assist with travel to attend the 2003 Society of Toxicology meeting in Salt Lake City, Utah, USA, March 9-13, 2003. The awards are sponsored by AstraZeneca.

### Award Recipients

2002	.....	Christophor Dishovsky (Bulgaria), .....Zoltan Gregus (Hungary), ..... Maritza Rojas Martini (Venezuela), .....Choon-Nam Ong (Singapore), ..... W. Wasowicz (Poland), .....Ping-kun Zhou (China)
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# Award Descriptions (Continued)



## Board of Publications

### Award

The Board of Publications Awards for the Best Paper in *Toxicology and Applied Pharmacology* and the Best Paper in *Toxicological Sciences* are presented to the author(s) of the best paper published in each of the official SOT publications 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 per journal award. In addition, the titles of no more than six papers to be considered for each award are submitted by the editors of each official SOT publication. All papers submitted will be evaluated by the Board of Publications. This award consists of a plaque and a cash stipend.

### Best Paper in *Fundamental and Applied Toxicology and 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. Baccanale, ..... C. M. Edwards, W. I. Manton, E. Edwards, ..... E. J. O'Flaherty
2000	..... H.A Boulares, C. Giardino, C.L. Navarro, ..... E.A. Khairallah, S.D. Cohen
2001	..... Jinqiang Chen, Yunbo Li, Jackie A. Lavigne, ..... Michael A. Trush, James D. Yager
2002	..... M.J. Bajt, J.A. Lawson, S.L. Vonderfecht, ..... J.S. Gujral, H. Jaeschke

### Best Paper in *Toxicology and Applied Pharmacology*

#### Award Recipients

1995	..... M. F. Denny, M. F. Ware, W. D. Atchison
1996	..... T. A. Slotkin, C. Lau, E. C. McCook, S. E. Lappi, ..... F. J. Seidler
1997	..... P. R. S. Kodavanti, T. R. Ward, J. D. McKinney, ..... C. L. Waller, H. A. Tilson
1998	..... J. S. Landin, S. D. Cohen, E. A. Khairallah
1999	..... S. K. Ramaiah, M G. Soni, T. J. Bucci, ..... H. M. Mehendale,
1999	..... C. L. Zuch, D. J. O'Mara, D. A. Cory-Slechta
2000	..... J.E. Staples, N.C. Fiore, D.E. Frazier, Jr., ..... T.A. Gasiewicz, A.E. Silverstone
2001	..... Barbara J. Mounho, Brian D. Thrall
2002	..... G.S. Ratra, S.G. Kamita, J.E. Casida

### Burroughs Wellcome Fund Toxicology Scholar Award

The Burroughs Wellcome Fund Toxicology Scholar Award offered five-year scholar awards to support career development in toxicology. These awards were intended to identify and encourage the development of established, independent investigators whose work will advance the understanding of toxicological processes on both fundamental and physiologic levels. (This award is no longer being offered.)

#### Award Recipients

1981	..... Alan P. Poland
1982	..... Curtis D. Klaassen
1983	..... Frederick P. Guengerich, R. Craig Schnell
1984	..... Philip Guzelian
1985	..... I. Glenn Sipes
1986	..... Daniel Acosta
1987	..... Bruce D. Hammock, Richard P. Mailman
1988	..... Harihara M. Mehendale
1989	..... Stephen H. Safe
1990	..... Mahin D. Maines
1991	..... Robert A. Roth
1992	..... Janice E. Chambers
1993	..... Debra Lynn Laskin, Leona Samson
1994	..... Kim Boekelheide, Dennis Thiele
1995	..... Ellen Li, Curtis J. Omiecinski
1996	..... Christopher Bradfield, Bennett Van Houten
1997	..... Titia de Lange

# Award Descriptions (Continued)

## 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 \$33,000) for one year. The award may be extended for an additional year upon agreement between Colgate-Palmolive and the post-doctoral fellow. Post-doctoral trainees in their first year of study beyond the Ph.D., M.D. or D.V.M. degree who are employed by academic institutions, federal/national laboratories or research institutes worldwide may apply. 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, 2002.**

### 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

## 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 six awards, at \$2,500 each, are available. Applications received after October 9 will be accepted until all funds are committed.

**Graduate Students:** The award will help to defray expenses for graduate students in toxicology to visit an off-site laboratory for the purpose of gaining knowledge about and developing *in vitro* or alternative toxicology techniques that will support the student's dissertation research. The overall goal of this program is to support the replacement, reduction or refinement of currently used animal models in toxicology research and testing.

**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, and Ryan L. Williams

## 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.

# Award Descriptions (Continued)

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 Holsapple  
1996 ..... Washington State University,  
Visiting Professor: ..... Daniel Acosta  
1997 ..... Indiana University School of Medicine,  
Visiting Professor: ..... A. Jay Gandolfi  
1997 ..... University of Arizona Health Science Center,  
Visiting Professor: ..... Kevin E. Driscoll  
1997 ..... University of New Mexico Health Sciences Center,  
Visiting Professor: .....Sam Kacew  
1997 ..... University of Illinois,  
Visiting Professor: .....Michael Denison  
1998 .....University of Washington,  
Visiting Professor: ..... Bruce Fowler  
1998 ..... San Diego State University,  
Visiting Professor: ..... Leigh Ann Burns Naas  
1999 ..... San Diego State University,  
.....Graduate School of Public Health,  
Visiting Professor: .....Robert Chapin  
2000 ..... Yale University, School of Medicine  
Visiting Professor: .....Narendra Singh  
2001 ..... Medical College of Wisconsin  
Visiting Professor: .....Garold Yost



## 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 ..... George Nethercutt



## Distinguished Lifetime Toxicology Scholar Award

The Distinguished Toxicology Scholar Award, formerly the Scientific Achievement 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 new award is scientific accomplishments and not necessarily service to the Society. This award consists of a plaque and a cash stipend.



## 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  
1978 ..... (No Award)  
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



# Award Descriptions (Continued)

1994	Robert A. Neal
1995	William Carlton
1996	Robert Snyder
1997	Albert E. Munson
1998	David J. Holbrook
1999	Jules Brodeur
2000	Gary Carlson
2001	Harihara Mehendale
2002	Joseph Borzelleca

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, Christer 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. Pillaro
1989	R. G. Cuddihy, W. C. Griffith, Rogene F. Henderson, Joe L. Mauderly, Roger O. McClellan, 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 Silkworth, 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. Borghoff, William H. Lagarde



## 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 scientifically sound and responsible use of animals in 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

## Graduate Student Fellowship Awards

The Graduate Student Fellowship Awards are provided by generous sponsors including Covance and Novartis Corporation and are open to 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.



## Frank R. Blood Award

The Frank R. Blood Award was presented to the author(s) of the best paper published in official SOT publications during a 12-month period terminating with the June issue of the calendar year preceding the Annual Meeting at which the award was presented. This award has been replaced by Best Paper Award.

### Award Recipients

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, Phillip G. Watanabe
1979	R. Fradkin, E. J. Ritter, W. J. Scott, James G. Wilson
1980	Jerold A. Last, Peter F. Moore, Otto G. Raabe, Brian K. Tarkington

## Covance Corporation Graduate Fellowship

### Award Recipients

1984	Patricia Ganey
1985	Kevin Gaido
1986	Lisa Naser
1987	Marjorie Romkes
1988	Caroline J. Decker
1989	Lorraine E. Twerdok
1991	Dale Morris
1993	Michael F. Denny
1995	Michael DiMatteo
1998	Rebecca Laposa
2000	Susan McKarns

# Award Descriptions (Continued)

2001 .....	Kirsten Fertuck
2002 .....	Edward Williams

## Novartis Corporation Graduate Fellowship

### 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

## Procter & Gamble Company Graduate Fellowship

### Award Recipients

1979 .....	Paul W. Ferguson
1980 .....	Anthony P. De Capri
1981 .....	Cheng Wang
1982 .....	Samson Chow
1983 .....	Laurie Basting
1984 .....	Philip Bartholomew
1985 .....	Russell Esterline
1986 .....	Leonard Sauers
1987 .....	Randall Ruch
1988 .....	Lawrence J. Dahm
1989 .....	Christopher M. Weghorst
1990 .....	Enrique Chacon
1991 .....	Janice Thornton-Manning
1992 .....	Melecita Archuleta
1993 .....	Regina Donohoe
1994 .....	Gary Miller
1995 .....	Sanjay Jain
1996 .....	Weston Porter
1997 .....	Louise Winn
1998 .....	Kristin Williamson
1999 .....	James Kerzee
2000 .....	Jeffrey Card
2001 .....	Elizabeth Tonkin
2002 .....	Kristin Horn



## Graduate Student Travel Awards

Graduate Student Travel Awards defray expenses for students presenting platform talks or posters at the 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

.....	Bernard B. Brodie*
.....	Ethel Browning*
.....	John E. Casida
.....	Jud Coon
.....	Gertrude B. Elion*
.....	Ronald W. Estabrook
.....	George H. Hitchings*
.....	Eugene M.K. Geiling*
.....	Charles S. Lieber
.....	Michel Mercier
.....	Herbert Needleman
.....	Norton Nelson*
.....	W. F. Von Oettingen*
.....	Sten G. Orrenius
.....	Dennis Parke
.....	Herbert Remmer
.....	William O. Robertson
.....	Findlay Russell
.....	Roger W. Russell*
.....	Torald H. Sollman*
.....	Takashi Sugimura
.....	Wendell W. Weber
.....	R. Tecwyn Williams*
.....	Hyman J. Zimmerman*

\* Deceased

# Award Descriptions (Continued)



## 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	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. Loomi
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	Phillippe Shubik
2001	Donald Reed
2002	Bernard Schwetz



## 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 registration and an expense stipend. The program is 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), 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



# Award Descriptions (Continued)



## Regional Chapter Awards

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

## Robert L. Dixon International Travel Award

The Robert L. Dixon Award, sponsored by the Toxicology Education Foundation, takes applications from graduate students in the area of reproductive toxicology. The award carries a stipend of \$2,000 for travel costs to enable a student to attend the International Congress of Toxicology meeting. It is available every three years. (Next application date is October 9, 2003.)

### Award Recipients

1989	Kevin L. Stark
1992	Daland Richard Juberg
1995	Xuelin Li
1998	Jeeyeon Bee
2001	Mark Fielden



## Scientific Achievement Award

The Scientific Achievement 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 new award is scientific accomplishments and not necessarily service to the Society. This award consists of a plaque and a cash stipend. This award has been replaced by the Distinguished Lifetime Toxicology Scholar Award.

### Award Recipients

2001	James E. Trosko
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## Society of Toxicology/ American Chemistry Council Early Award in Inhalation Toxicology

The Society of Toxicology and the American Chemistry Council Early Award in Inhalation Toxicology of up to \$100,000 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 the potential inhalation toxicity of chemicals.



## Society of Toxicology/ American Chemistry Council Early Award in Neurotoxicology

The Society of Toxicology/American Chemistry Council Early Award in Neurotoxicology of up to \$100,000 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 the potential neurotoxicity of chemicals.

### Award Recipients

2002	Ronald Tjalkens
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## 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](http://www.toxicology.org), under Specialty Sections or the Awards and Fellowships sections.

## 2002 Award Winners

THE SOCIETY OF TOXICOLOGY  
PRESENTED THE FOLLOWING AWARDS FOR THE YEAR 2002:

*In recognition of distinguished toxicologists and students, SOT presents several prestigious awards each year. Award recipients receive a plaque and a generous stipend, are listed in the annual Membership Directory, posted on the SOT Web Site and are honored at a special Awards Presentation at the SOT Annual Meeting.*

### *Achievement*



**Ruth  
Roberts**

The Award Committee of the Society of Toxicology unanimously selected Dr. Ruth A. Roberts as the recipient of the Achievement Award. The committee viewed Dr. Roberts eminently qualified for this Award.

Dr. Roberts received her undergraduate degree in biochemistry from Manchester University, and subsequently a Ph.D. from the

Faculty of Medical Oncology at Christie Hospital, UK. Following the completion of her Ph.D. work, she was a postdoctoral fellow at the Imperial Cancer Research Fund in London from 1987 to 1989. In 1990 she joined Zeneca CTL, now Syngenta CTL, where she is currently Head of Cell Biology Research.

The importance of Dr. Roberts' contributions has been widely recognized and her work has uniquely enhanced the scientific basis of risk assessment. Dr. Roberts' research has been vital to understanding the cellular and molecular mechanisms by which peroxisome proliferators induce liver tumors in rodents. This work has formed the foundation for evaluation of the potential risk of these compounds to humans. Dr. Roberts' more recent research has focused on gene expression effects of peroxisome proliferators and the mechanisms of survival signaling, apoptosis and the role of nuclear hormone receptors in cellular responses to nongenotoxic carcinogens. Those research efforts have identified the critical function of Kupffer cells in the process of peroxisome proliferator-induced carcinogenesis.

Dr. Roberts has an impressive record of publications and is a highly sought speaker at national and international Toxicology conferences. She continues to be an inspiring mentor and teacher to undergraduate and graduate students alike.

### *Arnold J. Lehman*



**Dennis  
Paustenbach**

The Arnold J. Lehman Award honors a member of the Society of Toxicology for major contributions that improve the scientific basis of risk assessment. The 2002 awardee, Dr. Dennis Paustenbach, is internationally known for his research and expertise in risk assessment and toxicology and for his leadership in developing and applying better scientific principles for the assessment and regulation of chemical

substances. Dr. Paustenbach is Vice President at Exponent Corp., an engineering and scientific consulting firm, where he specializes in the areas of industrial and environmental toxicology, pharmacokinetics, and ecological and human risk assessments. He has published nearly 200 peer-reviewed articles and written over 30 book chapters in the fields of industrial hygiene, human and aquatic toxicology, engineering, and risk assessment. His text, *Risk Assessment of Environmental Hazards: A Textbook of Case Studies*, is a classic in the field of risk assessment and is widely used in university courses. His new text *Human and Ecological Risk Assessment: Theory and Practice* was just published.

Dr. Paustenbach is perhaps best known for his development of more realistic methods to estimate exposures, using experimental and observational data to generate probability distributions, instead of point values based on default assumptions. His methodologies have been widely used by industry and the EPA.

# 2002 Award Winners (Continued)

## *Board of Publications Best Paper Awards:*

### *Toxicology and Applied Pharmacology*

*Role of Human GABA<sub>A</sub> Receptor  $\beta$  Subunit in Insecticide Toxicity.* GS Ratra, SG Kamita, JE Casida. TAAP 172:233-240, 2001.

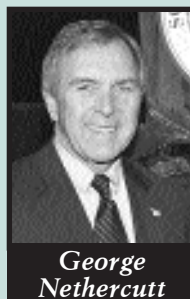
This is an exceptional manuscript, in terms of both presentation and science that tests a clear hypothesis and presents clear and unambiguous results to support the hypothesis. The studies detailed in the manuscript test the hypothesis that the composition of the human GABA<sub>A</sub> receptor subunit determines both the sensitivity and selectivity of insecticide toxicity. This receptor is the target for the insecticides  $\alpha$ -endosulfan, lindane and fipronil, as well as many of their analogs. The manuscript is the first to use recombinant receptors to show the effect of receptor subunit on the binding of (3H) ethynylbicycloorthobenzoate (EBOB). These data demonstrate that the  $\beta$ -3 subunit contains the insecticide target and other subunits differentially modulate the binding site to confer compound-dependent specificity and selective toxicity.

### *Toxicological Sciences*

*Protection against Fas Receptor-Mediated Apoptosis in Hepatocytes and Nonparenchymal Cells by a Caspase-8 Inhibitor In Vivo: Evidence for a Postmitochondrial Processing of Caspase-8.* MJ Bajt, JA Lawson, SL Vonderfecht, JS Gujral, H Jaeschke. *ToxSci* 58:109-117, 2000.

Hepatocellular apoptosis mediated by the Fas receptor is important for removal of virally infected cells or cells which have been exposed to injurious concentrations of drugs or chemicals including ethanol and hydrophobic bile acids. However, activation of this receptor in a large number of cells can lead to acute liver failure. Ligation of the Fas receptor with an anti-Fas antibody triggers the activation of the upstream signaling caspase-8. The authors showed that inhibition of caspase-8 effectively prevents mitochondrial cytochrome c release, activation of downstream caspases, DNA fragmentation and cell injury in hepatocytes and nonparenchymal cells. Most importantly, the data indicate that only a small amount of procaspase-8 may actually be processed at the Fas receptor. This initial signal is then amplified by further activation of caspase-8 by downstream effector caspases. Thus, the apoptotic signal is progressively amplified within the cell by involving an increasing number of mitochondria. As a consequence of this mechanism, Fas-mediated apoptosis can be prevented at multiple levels during this amplification cycle.

## *Contributions to Public Awareness of the Importance of Animals in Toxicology Research*



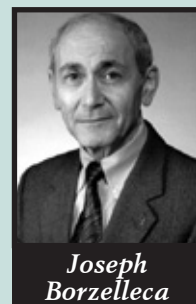
**George  
Nethercutt**

The 2002 Award for Contributions to Public Awareness of the Importance of Animals in Toxicology Research is presented to Representative George R. Nethercutt, Jr., of the 5th District of Washington State. A Member of Congress since 1994, Representative Nethercutt is a long-standing supporter of the cause of sound-science. From his seat on the House Science

Committee, he has supported research initiatives and the incorporation of the wealth of science into the regulatory process. In the wake of recent activities by animal rights activists, the Congressman took a leading role with the media in presenting the case for research facilities and against the demonstrators and terrorists. He co-sponsored HR 2795, the "Agro-Terrorism Act of 2001," which is designed to increase protections for animal and plant research facilities. This bill gives the FBI new tools to pursue criminal conspiracies against these research centers, including the establishment of the National Animal Terrorism and Ecoterrorism Clearinghouse. Congressman Nethercutt is recognized for his passionate effort to educate the public in the importance of animals in scientific research and for his leading legislative role in protecting this research from the rise of criminal behavior.

### *Education*

The 2002 Education Award is presented to Dr. Joseph Borzelleca. Currently he holds the position of Professor Emeritus in the Department of Pharmacology and Toxicology at the Medical College of Virginia. Dr. Borzelleca has devoted his professional career to educating students in the science of Toxicology. He was instrumental in establishing the Graduate Program in Toxicology at the Medical College of Virginia in the 1970's, and in obtaining one of the first NIEHS funded training grants. Dr. Borzelleca taught students and faculty about concepts in risk assessment and exposure analysis before these terms were commonly used. He promoted a spirit of entrepreneurship and independence among graduate students. Dr. Borzelleca's students are currently working in academia, government and industry and are leaders in their field and in the Society of Toxicology. Dr. Borzelleca also



**Joseph  
Borzelleca**



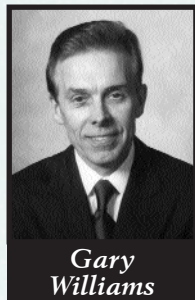
## 2002 Award Winners (Continued)

played an important role in educating and advising faculty about Toxicology, at a time when perceptions about the field were changing rapidly. Many of these individuals redirected their research as a result of his influence. Throughout his career, Dr. Borzelleca has given his time unselfishly to both students and colleagues. He has worked with individuals from academia, government and industry in addressing and resolving issues in Toxicology and Regulatory Affairs. He is considered one of the wise-elder-statesmen in the field who, to this day, is sought after for scientific and career advice. Dr. Borzelleca has served in many capacities within the Society of Toxicology, and is past president.

### *Enhancement of Animal Welfare*

The 2002 Award for the Enhancement of Animal Welfare is presented to Dr. Gary M. Williams, Professor of Pathology and Director of Environmental Pathology and Toxicology at New York Medical College. Dr. Williams' research has led to the reduction of animals needed to obtain scientifically valid data. He was responsible for the development of Williams 'Medium E,' which has become a standard in the maintenance of liver specific functions in hepatocyte culture systems. The potential for *in vitro* hepatocyte systems to investigate chemical toxicity led to his development and characterization of the hepatocyte primary culture (HPC)/DNA repair assay, which utilizes the biotransformation capabilities of hepatocytes and a specific endpoint, unscheduled DNA synthesis, to evaluate one mechanism of chemical carcinogenesis. The HPC/DNA repair test is accepted by regulatory agencies worldwide in support of the approval of drugs and chemicals. It is impossible to calculate the reduction in animal numbers that has resulted from this approach.

Dr. Williams' bibliography lists over 460 papers, chapters in books, and books in the field of mechanisms of carcinogenesis, the effective detection of carcinogens through *in vitro* methods and selective batteries of tests, and the application of such batteries to practical problems in toxicology and pharmacology. Thus, the development by Dr. Williams of approaches not employing large numbers of animals in detecting and measuring human cancer risks constitutes a major advance in protecting humans from cancer through application of basic research to this practical question.



### *Merit*

One of the nominees, Dr. Bernard (Bern) A. Schwetz, emerged from a list of strong candidates as the unanimous choice of the SOT Awards Committee to be the recipient of the 2002 SOT Merit Award. This award "is presented to a member of the Society of Toxicology in recognition of a distinguished career in toxicology." Clearly, Dr. Schwetz exceeds this criterion. He has had a distin-

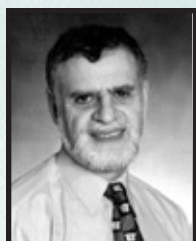


guished career in both the public and private sectors, in research and administration, and in service to the science of toxicology and the Society of Toxicology. Following completion of the Doctor of Veterinary Medicine degree at the University of Minnesota, Dr. Schwetz received both M.S. and Ph.D. degrees in Pharmacology at the University of Iowa. The next twelve years were spent at the Toxicology Research Laboratory of Dow Chemical, culminating with four years as Director. The ten years following were spent at NIEHS, his distinction in both research and leadership roles leading to his appointment, in 1993, as Director of NCTR, with the additional role, a year later, of Associate Commissioner for Science in the Food and Drug Administration. He is currently Acting Principal Deputy Commissioner at FDA. Dr. Schwetz's early research, in the 1970s, although extensive and broad in scope, had a central core of groundbreaking studies in reproductive toxicity. These studies have been of enormous importance, not only in stimulating further mechanistic studies in embryo- and fetotoxicity, but also in revolutionizing risk assessment and regulation in these important areas. Many of these studies were carried out on chemicals of considerable public and scientific interest, including benzene, pentachlorophenol, vinyl chloride, 2,4,5-T, and fumigants, to mention only a few. These choices indicate a strong desire to emphasize the importance of this area of toxicology and these toxic endpoints and to bring science based risk assessment to bear on their regulation. His services to SOT are similarly extensive and at many levels, including council, regional chapters and journals, enriching all of those activities that are so important to our membership. In summary, Dr. Schwetz has been a distinguished contributor and leader in toxicology who brings honor and recognition to the Society of Toxicology.



## 2002 Award Winners (Continued)

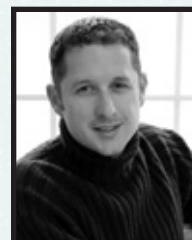
### *Public Communications Award*



**Sam  
Kacew**

The 2002 Society of Toxicology Public Communications Awardee is Dr. Sam Kacew of the University of Ottawa, Canada. Dr. Kacew is being recognized for his substantial efforts to promote and communicate the science of toxicology around the world. Dr. Kacew has given numerous lectures at universities in North America encouraging undergraduate, graduate and post-doctoral students to actively pursue careers in toxicology. One specific example is Dr. Kacew's sustained participation as a key scientist in the Howard Hughes Summer Research Program at John Hopkins University. The goal of this program is to encourage Hopkins undergraduates in the School of Arts & Sciences and the School of Engineering to pursue careers in toxicology-related research. In addition to his efforts in North America, Dr. Kacew has visited more than twenty countries in Europe, Asia, and Africa where he has given public lectures to promote the importance of toxicology as well as the importance of publication of scientific data in peer viewed journals. In addition to his public lectures, Dr. Kacew has actively assisted scientists from other countries in preparing and submitting their work to peer-reviewed toxicology journals. Dr. Kacew is an internationally recognized scientist who has contributed greatly to public appreciation of the importance of toxicology around the world.

### *American Chemistry Council Early Award In Neurotoxicology*



**Ronald  
Tjalkens**

The 2002 Early Career Award in Neurotoxicology is presented to Dr. Ronald B. Tjalkens, Assistant Professor in the Department of Veterinary Anatomy and Public Health, College of Veterinary Medicine, Texas A&M University. Dr. Tjalkens' Award, which is the first of its kind to be awarded through SOT, will be used to support work under his proposal "*NF- $\kappa$ B, Nitric Oxide, and Astroglia in Manganese Neurotoxicity.*" This work will seek to establish the capacity of manganese (Mn) to initiate neuronal degeneration via overproduction of nitric oxide by glia and to explore mechanisms of neuronal injury resulting from astroglial dysfunction associated with Mn accumulation. In addition, attempts will be made to uncover new molecular targets for the design of therapeutic interventions to mitigate neuronal injury applicable to diseases such as Parkinson's Disease. Dr. Tjalkens obtained his Bachelor of Science degree in Chemistry and Biochemistry at the University of California at San Diego, was an NIAAA-NRSA Pre-Doctoral Fellow at the University of Colorado Health Sciences Center where he earned his Ph.D. in Toxicology in 1998 under Dr. Dennis Petersen. From 1998 to 2001, he was a Post-Doctoral Fellow in Neurotoxicology at the University of Michigan, working with Dr. Martin Philbert.

This Early Career Award in Neurotoxicology-sponsored by the Long-Range Research Initiative of the American Chemistry Council (the Council) and administered through the Society of Toxicology is provided to encourage persons beginning their professional careers to conduct research on topics related to neurotoxicology. The Award is intended to enhance career development for investigators at academic institutions in North America, encourage innovative research, and strengthen the dialogue between the Council and the research community. The American Chemistry Council represents the chemical industry on public policy issues, coordinates the industry's research and testing programs, and administers the industry's environmental, health, and safety performance improvement initiative.



# 2002 Student Award Recipients

## 2002 Student Award Recipient

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

(Awarded 2001, Renewed 2002)



**Recipient:**

Kevin Kerzee

University of Cincinnati

Covance Corporation Graduate Fellowship



**Recipient:**

Edward Williams

Texas A&M University

Novartis Corporation Graduate Fellowship



**Recipient:**

Kartik Shankar

University of Louisiana at Monroe

Procter & Gamble Company Graduate Fellowship



**Recipient:**

Kristin Horn

Indiana University School of Medicine

# 2002 Fellowship and Travel Award Winners

## 2002 SOT Graduate Travel Award Recipients

- |  |  |  |
|--|--|--|
| <b>Leanne L. Bedard</b><br>Queen's University                            | <b>Joshua P. Gray</b><br>Pennsylvania State University     | <b>Jay S. Petrick</b><br>University of Arizona                             |
| <b>Udayan M. Apte</b><br>University of Louisiana at Monroe               | <b>Paul R. Hanlon</b><br>University of Wisconsin-Madison   | <b>Brian E. Powers</b><br>University of Illinois                           |
| <b>Diana J. Auyeung</b><br>Virginia Commonwealth University              | <b>Belinda S. Hawkins</b><br>Michigan State University     | <b>Preefi Ramadoss</b><br>Pennsylvania State University                    |
| <b>Martin Beliveau</b><br>University of Montreal                         | <b>Kelly Hogan</b><br>Rutgers/UMDNJ                        | <b>Karen Riveles</b><br>University of California Riverside                 |
| <b>Yadvinder Bhuller</b><br>University of Toronto                        | <b>Kanjana Imsilp</b><br>University of Illinois            | <b>Hany Rofael</b><br>Univ. of Med. & Den. Of NJ/New Jersey Medical School |
| <b>Susan R. Bielmeier</b><br>University of North Carolina at Chapel Hill | <b>Anil Kachroo</b><br>Mississippi State University        | <b>Vincent V. Rogers</b><br>University of Saskatchewan                     |
| <b>Ling Cao</b><br>SUNY at Albany  | <b>Julia C. Kennedy</b><br>University of Toronto           | <b>Jonathan A. Roling</b><br>University of Texas, El Paso                  |
| <b>Connie S. Chen</b><br>University of Toronto                           | <b>Marquea D. King</b><br>Virginia Tech                    | <b>Jimmy A. Rotolo</b><br>Long Island University                           |
| <b>Jennifer Choich</b><br>University of Maryland, Baltimore              | <b>Donald S. Kirkpatrick</b><br>University of Arizona      | <b>Lisa E. Sandoval</b><br>University of Montana                           |
| <b>Kevin Crowthers</b><br>University of Connecticut                      | <b>Sun Ku Lee</b><br>Colorado State University             | <b>Vanessa M. Silva</b><br>University of Connecticut                       |
| <b>Francisco J. Dieguez-Acuna</b><br>University of Washington            | <b>Jeong-Eun Lee</b><br>Texas A&M University               | <b>Nicole Soucy</b><br>Dartmouth Medical School                            |
| <b>Shelley B. DuTeaux</b><br>University of California, Davis             | <b>Jong-Min Lee</b><br>University of Wisconsin-Madison     | <b>Kumar Sripathirathan</b><br>Loyola University                           |
| <b>Jaime L. Emmrich</b><br>Medical College of Wisconsin                  | <b>Pallavi Limaye</b><br>University of Louisiana at Monroe | <b>Daniele F. Staskal</b><br>University of North Carolina at Chapel Hill   |
| <b>Mark R. Fielden</b><br>Michigan State University                      | <b>Nikki L. Maples</b><br>University of Texas, El Paso     | <b>Divinia N. Stemm</b><br>University of Kentucky                          |
| <b>Carissa R. Filbrandt</b><br>University of Rochester                   | <b>Erik J. Martin</b><br>Queen's University                | <b>Nilufer M. Tampal</b><br>University of Kentucky                         |
| <b>Christine T. French</b><br>Colorado State University                  | <b>Tami S. McMullin</b><br>Colorado State University       | <b>Vishal S. Vaidya</b><br>The University of Louisiana at Monroe           |
| <b>Stephanie Girard</b><br>University of Quebec                          | <b>Judith A. Mlockier-Audrain</b><br>St. John's University | <b>Chad M. Vezina</b><br>University at Buffalo                             |
| <b>Neera Gopee</b><br>University of Georgia                              | <b>Sarah F. Mowbray</b><br>University of Connecticut       | <b>Rebecca E. Watson</b><br>Michigan State University                      |
| <b>Rayetta C. Grasty</b><br>University of North Carolina at Chapel Hill  | <b>Marjorie A. Peraza</b><br>University of Arizona         |  |
|  | <b>Janis Peterson</b><br>University of Texas, El Paso      |  |

## 2002 Burroughs Wellcome Fund Graduate Travel Award Recipients

- |   |  |  |
|---|--|--|
| <b>Norman J. Barlow</b><br>CIIT Centers for Health Research | <b>Donna Wailing Lee</b><br>University of Rochester    | <b>Heui-Young Ryu</b><br>Boston University School of Public Health |
| <b>Julia C. Kennedy</b><br>University of Toronto            | <b>Gary D. Minsavage</b><br>University of Rochester    |  |
| <b>Doyeob Kim</b><br>West Virginia University               | <b>Kimberley A. O'Hara</b><br>Dartmouth Medical School |  |

## 2002 Merck & Company Student Travel Award Recipients

- |   |   |   |
|---|---|---|
| <b>Jiangang Chen</b><br>University of California, Davis | <b>Tobias Schmid</b><br>University of Kaiserslautern, Germany | <b>Yan Zheng</b><br>Iowa State University |
| <b>Jamie L. Emmrich</b><br>Medical College of Wisconsin |   |   |

## Colgate-Palmolive SOT Award for Student Research Training in Alternative Methods

- |  |   |   |
|--|---|---|
| <b>Kartik Shankar</b><br>University of Louisiana at Monroe | <b>Chad Vezina</b><br>University of Buffalo | <b>Ryan Williams</b><br>University of California, Riverside |
|--|---|---|