

Sunday, March 5

7:00 AM–7:45 AM

CONTINUING EDUCATION SUNRISE MINI-COURSE

- SR01. Use of Genome Databases for Toxicology (p49)

8:15 AM–12:00 NOON

CONTINUING EDUCATION MORNING COURSES

- AM02. Targeted Therapeutic Approach to Anti-Cancer Drug Development (p49)
- AM03. Reproductive Toxicity Testing: Study Designs, Evaluation, Interpretation, and Risk Assessment (p50)
- AM04. Predictive Power of Novel Technologies (Cells to 'Omics'): Promises, Pitfalls, and Potential Applications (p50)
- AM05. Comparative Endocrine Toxicology (p51)
- AM06. Essentials of Metal Toxicology (p51)
- AM07. Practical Strategies for Evaluation of Immunosuppression in Pharmaceutical Development (p52)

1:15 PM–5:00 PM

CONTINUING EDUCATION AFTERNOON COURSES

- PM08. Targeted Therapeutic Approach to Anti-Cancer Drug Development (p52)
- PM09. Reproductive Toxicity Testing: Study Designs, Evaluation, Interpretation, and Risk Assessment (p53)
- PM10. Functional Analysis of Gene and Protein Expression: From Experimental Design to Data Analysis (p53)
- PM11. Xenobiotic Transporters (p54)
- PM12. Neuropathology for the Toxicologist (p54)
- PM13. Assessing Airway Injury and Remodeling Induced by Inhaled Pollutants Using Magnetic Resonance Imaging, Microscopy, and Modeling (p55)

Monday, March 6

8:30 AM–9:15 AM

PLENARY LECTURE

- Risk Communication—
The Perception Gap, an Unrecognized Aspect of Risk,
David Ropeik (p59)

9:30 AM–12:00 NOON

SYMPOSIA

- Lipidomics of Cell Death (p60)
- Regulation of Phase II Xenobiotic Metabolizing Enzymes: Implications for Health and Disease (p60)
- Risk Assessment Implications of Direct Nose-to-Brain Transport of Inhaled Xenobiotics (p61)

WORKSHOPS

- Screening Methods for Assessing Skin Toxicity of Nanomaterials (p61)
- Towards the Virtual Human: Adding More Physiological Detail to Biologically-Based Models (p62)

PLATFORM SESSIONS

- Alternative Models for Assessment of Toxicity (p62)
- Frontiers of Neurotoxicology: Extrapolation and Human Health (p63)
- Gene Expression Changes in Carcinogenesis (p63)
- Modulation of Carcinogenesis by Naturally Occurring Polyphenolic Compounds (p64)

POSTER SESSIONS

- Ah Receptor I (p75)
- Biomarkers (p71)
- Cardiovascular System: Valvular and Vascular Injury (p81)
- Chemical-Biological Weapons I (p65)
- Children's Health and Juvenile Animal Toxicity (p68)
- Developmental Toxicity in *In Vivo* and *In Vitro* Systems (p69)
- Immunomodulation (p78)
- Peroxisome Proliferators/PPAR (p74)
- Persistent Organic Pollutants (p66)
- Responses to Particulates (p77)

Scientific

1:30 PM–4:30 PM

SYMPOSIA

- Advancing Toxicology by Improving Linkage of Traditional Toxicity and Pathology Endpoints with Toxicogenomics (p83)
- Indirect Mechanisms of Toxicity: Advancing Our Understanding of Neuroendocrine-Immune Interactions (p84)
- Mode of Action Associated with Induction of Endothelial Cell Tumors—Hemangiosarcoma (p85)
- New Concepts in the Neurotoxicology of Lead (p86)
- New Insights into Mechanisms of Cell Death and Survival (p86)
- The Biological Matrix of *In Vitro* Systems and Their Use in Toxicology (p84)

WORKSHOP

- Advances in Asbestos Toxicology and Exposure Assessment (p87)

PLATFORM SESSIONS

- Ah Receptor II (p88)
- Developmental Toxicity *In Vivo* and *In Vitro* Investigations (p88)
- Hypersensitivity (p89)
- Risk Assessment—Regulatory/Policy (p90)

POSTER SESSIONS

- Arsenic Toxicology (p92)
- Cardiovascular System: ECG and hERG (p108)
- Female Reproduction (p90)
- Genotoxicity/DNA Repair (p99)
- Kidney (p95)
- Metabolism Toxicity and Polymorphisms (p110)
- Oxidative Injury Mechanisms (p97)
- Respiratory Tract Injury: Cellular Mechanisms (p107)
- Safety Evaluation—Pharmaceuticals I
(Neuro, Cardiovascular, Endocrine/Metabolic) (p105)
- Toxicokinetics/Pharmacokinetics (p102)

4:30 PM–6:00 PM

ROUNDTABLE

- The Complexities of Air Pollution Regulation: The Need for an Integrated Research and Regulatory Perspective (p112)

SUNSET SESSIONS

- Distance Learning in Toxicology: Effective Teaching Through Technology (p113)
- Toxicology in the Courtroom: Establishing Causation, A Roundtable Discussion (p113)

SPECIAL SESSION

- Using Animals for Toxicological Research and Testing: Best Practices for Assuring Compliance with Animal Welfare Regulations, Policies, and Guidelines (p114)

Tuesday, March 7

7:30 AM–8:50 AM

ROUNDTABLES

- Research and Development of Child-Specific Protection in California (p116)
- The Precautionary Principle—Implications and Applications (p115)

8:00 AM–8:50 AM

MRC LECTURE

- Cell Death and Neurodegeneration
Junying Yuan, Harvard Medical School (p116)

9:00 AM–12:00 NOON

SYMPOSIA

- Development of Safety Qualification Thresholds and Their Use in Drug Product Evaluation (p117)
- Risk Assessment and Regulatory Implications of Convulsive Neurotoxicity (p118)
- Role of Mitochondria in Toxic Oxidative Stress (p118)

WORKSHOPS

- Comprehensive Responses of Lipids Classes to Toxicants and Involvement in Diseases (p119)
- Discovery Toxicology: Strategies in the New Drug Discovery Paradigm (p119)
- Does the Methylation of Inorganic Arsenic Affect its Toxicity and Mode(s) of Action? A Critical Discussion (p120)
- New Food Ingredients Do Not Need New Food Regulations (p120)
- Regulatory Application of the Mouse LLNA: New Challenges and Opportunities (p121)

PLATFORM SESSIONS

- Ah Receptor III (p121)
- Biomarkers: Identification and Application (p122)
- Genetic Polymorphisms (p123)
- In Vitro* and *In Vivo* Responses to Smoke (p123)

Program Overview

9:00 AM–12:00 NOON

POSTER SESSIONS

Acetaminophen (p137)
Bioinformatics (p136)
Carcinogenesis Mechanisms (p134)
Dermatotoxicity (p124)
Developmental Toxicity Testing in Mammalian Systems (p131)
Epidemiology/Exposure Assessment (p127)
Inorganic Particles and Fumes (p141)
Kinase Signaling (p138)
Nervous System: Disease Models (p144)
Ozone (p142)
Risk Assessment Methods—Regulatory/Policy (p129)
Respiratory Tract Irritation, Infection, and Inflammatory Injury (p139)
Toxicogenomics (p143)

12:00 NOON–1:30 PM

ISSUES SESSION

Safety Assessment of the Major Human Metabolites (p147)

1:30 PM–4:30 PM

SYMPOSIA

Alternative Model Organisms for the Analysis of Developmental and Molecular Toxicology (p148)
Role of the Kupffer Cell in Mediating Hepatic Toxicity and Carcinogenesis (p149)
The War on Ozone in the 3rd Millennium: Toxicology and Health Effects Update (p150)
Using Structure-Based Approaches for Hazard Identification and Risk Assessment (p149)

WORKSHOPS

Dendritic Cells and Skin Sensitization: Biological Roles and Uses in Hazard Identification (p151)
Genomics in Risk Assessment: Utility for the Characterization of Mode of Action (p151)
Potential Human Health Risk from Estrogenic Food and Consumer Product Additives: How Much is Real and How Much is Hype? (p152)

PLATFORM SESSIONS

Apoptosis (p152)
Endocrine Disruptors—Mechanisms (p153)
Metals Toxicology I (p154)
Oxidative Injury (p155)
Particulate Matter: Effects and Mechanisms (p155)

POSTER SESSIONS

Biomonitoring (p160)
Gene Regulation I (p167)
Gene Regulation II (p168)
Hepatocarcinogenesis (p158)
Multigeneration Reproductive Toxicity Evaluations (p159)
Natural Products (p170)
Neurotoxicity: Developmental (p173)
Neurotoxicity: Pesticides (p176)
Nuclear Receptors (p165)
Pesticides (p156)
Physiologically-Based Models: Applications (p162)
Safety Assessment—Methods and Models (p163)

Wednesday, March 8

8:00 AM–8:50 AM

DEBATE

SOT/EUROTOX Debate: 'Omics' Research Does Not Add Substantially to the Safety Assessment of Chemicals (p179)

9:00 AM–12:00 NOON

SYMPOSIA

Gene-Nutrient-Environment-Interactions as Risk Factors for Birth Defects: Fumonisin, Folate, Genetic Variation, and Neural Tube Defects (p179)
Models and Mechanisms of Occupational/Environmental Asthma (p180)
Obesity as a Modulator of Chemical Toxicity (p180)
The Role of MAP Kinases in Metal Toxicity (p181)

WORKSHOPS

Advanced Technologies and Approaches for Quantitative Biological Monitoring and Modeling for Chemical Exposures (p181)
Thermoregulation and Its Influence on Toxicity Assessment (p182)

9:00 AM–12:00 NOON

PLATFORM SESSIONS

Cardiovascular Safety Assessment (p183)
Dioxins, PCBs, and PBDEs (p183)
Male and Female Reproductive System (p184)
Nanoparticle-Induced Toxicity (p185)

POSTER SESSIONS

P450 Expression and Regulation (p203)
Alternative Models for Assessment of Ocular and Dermal Toxicity (p188)
Carcinogenesis—Modulation (p191)
Disease and Toxicity Biomarkers (p192)
Ecotoxicology (p186)
Inhalation Methods and Dosimetry (p195)
In Vitro Immunotoxicity (p197)
Liver I (p196)
Methods in Immunotoxicity (p198)
Neurotoxicity: Metals—General (p201)
Neurotoxicity: Metals—Manganese (p199)
Risk Assessment I (p189)
Safety Assessment—Pharmaceuticals 2 (Oncology, Antiinflammatory, Antiinfectives, Excipients, Natural Products) (p193)

12:00 NOON–1:30 PM

SPECIAL SESSION

Meet the Directors Session: Update of Activities at Government Agencies (p206)

1:30 PM–4:30 PM

SYMPOSIA

Determinants of Manganese Neurotoxicity: From Worms to Man (p207)
Mechanisms of Low Solubility Particle-Induced Lung Tumors (p208)
Role of Epigenetics in the Fetal Basis of Adult Disease (p209)
The Bases for Inter-Individual Differences in Susceptibility to Allergic Disease (p207)
The Path for Assessing Human Relevance and Advancing New Safety Biomarkers for Drug-Induced Vascular Injury (p208)

WORKSHOPS

Hormesis: A Challenge to the Linear Dose-Response Model and its Implications in Risk Assessment, Regulatory Policy, and Biomedical Research (p210)
Integrating Biomonitoring into Epidemiology and Toxicology Research (p210)

PLATFORM SESSIONS

Bioinformatics and Biological Modeling (p211)
Biotransformation (p211)
Immunotoxicity (p212)
Predicting Compound Toxicity (p213)

POSTER SESSIONS

Alternatives to Mammalian Models (p217)
Carcinogenesis Bioassay (p226)
Cardiovascular System: Cardiotoxicity (p231)
Cd Toxicity, Zinc, and Metallothionein (p222)
Cell Death/Apoptosis (p220)
Chemical-Biological Weapons II (p213)
Computational Toxicology (p229)
Endocrine Disruptors (p215)
Food Safety and Nutrition (p218)
Liver II (p230)
Metals Toxicology II (p223)
Male Reproductive Toxicity Evaluations (p227)
Risk Assessment—Metals (p233)

4:30 PM–5:20 PM

SPECIAL SESSION

Merit Awardee Lecture (p236)

4:30 PM–6:00 PM

ROUNDTABLES

Food Safety and Security: Regulatory and Industry Safeguards (p235)
U.S. EPA's 2005 Cancer Guidelines (p235)

SPECIAL SESSION

Town Hall Meeting: Recent Changes in Participation Requirements on Government Advisory Groups/Panels (p236)

Thursday, March 9

8:00 AM–8:50 AM

HISTORICAL HIGHLIGHT

Organophosphates from Nerve Gas to Insecticide (p237)

9:00 AM–12:00 NOON

SPECIAL SESSION

Hurricane Katrina: Interface Between Response and Research (p237)

SYMPOSIA

Air Pollution: Vanguard Toxicological Approaches Considering Atmospheric Aging (p237)

Application of Genomics to Evaluating Mechanisms of Genotoxicity and Carcinogenicity (p238)

Idiosyncratic Hepatotoxicity: Non-Clinical Predictive Toxicology for Liver Injury Potential (p239)

Metabonomics: Moving Beyond the Profile (p239)

Obesity: Developmental Origins and Environmental Influences (p240)

WORKSHOPS

Immunotoxicity Evaluation by Immune Function Tests (p240)

Pharmaceuticals in the Environment: Leveraging

Mammalian Data in Determining Human Pharmaceutical Responses in Aquatic Vertebrates (p241)

POSTER SESSIONS

Analytical Toxicology (p251)

Biomarkers: Methods & Tools (p248)

Hypersensitivity: Mechanisms and Methods (p242)

Liver III (p251)

Nervous System: Mechanisms and Effects (p253)

Physiologically-Based Models: Development and Evaluation (p249)

Risk Assessment II (p244)

Safety Evaluation—Non-Pharmaceutical (p246)

**Special Events Sponsored by
the Society of Toxicology**

Saturday, March 4

2:00 PM–5:00 PM

Committee Chair Orientation (p57)

4:00 PM–7:00 PM

Registration Desk Opens

5:30 PM–9:00 PM

Undergraduate Education Program (p57)

Sunday, March 5

8:00 AM–5:00 PM

Undergraduate Education Program (p58)

10:00 AM–5:00 PM

Paracelsus Explores the Genome (p58)

5:15 PM–6:30 PM

Awards Ceremony Celebrating 45th Anniversary (with performances by San Diego University Choral Scholars before and after Ceremony at 4:45 PM and 6:30 PM) (p58)

6:30 PM–7:30 PM

Welcoming Reception Celebrating 45th Anniversary (p59)

7:00 PM–8:00 PM

25-Year (or More) Member Reception Celebrating 45th Anniversary (p59)

7:30 PM–8:30 PM

Student/Post-Doctoral Fellow Mixer (p59)

8:00 PM–9:00 PM

Post-Doctoral Assembly Event (p59)



San Diego
CALIFORNIA
2006 Annual Meeting

Monday, March 6

8:00 AM–2:00 PM

Undergraduate Education Program (p59)

9:30 AM–11:15 AM

Poster Session for Visiting Students (p59)

12:00 NOON–1:30 PM

45th Anniversary Raffle Contest (p82)

12:00 NOON–1:30 PM

Specialty Section Meeting/Reception: Comparative and Veterinary and Occupational and Public Health (p83)

4:30 PM–6:00 PM

Career Resource and Development Seminar: Life After Your Post-Doc: Advice on Finding and Landing a Job (p114)

4:30 PM–6:00 PM

Specialty Section Presidents Meeting (p115)

5:00 PM–6:00 PM

Special Interest Group: Distinguished Chinese Toxicologist Lecture (p115)

5:30 PM–8:00 PM

Special Interest Group Meeting/Reception: Korean Toxicologist Association in America (p115)

6:00 PM–7:30 PM

Specialty Section Meetings/Receptions: Carcinogenesis, Drug Discovery, Immunotoxicology, Mechanisms, Mixtures, Regulatory and Safety Evaluation

6:00 PM–8:00 PM

Special Interest Group Meetings/Receptions: American Association of Chinese in Toxicology (p115) and The Association of Scientists of Indian Origin in America (p115)

Various Times

Regional Chapter Meetings/Receptions: (Refer to *Event Calendar*)

Tuesday, March 7

7:00 AM–8:30 AM

Regional Chapter Presidents Meeting (p115)

12:00 NOON–1:30 PM

45th Anniversary Raffle Contest (p146)

12:00 NOON–1:15 PM

Student *In Vitro* Toxicology Lecture (p147)

12:00 NOON–1:30 PM

Special Interest Group Meeting/Reception: Hispanic Organization for Toxicologists (p147)

4:30 PM–6:00 PM

SOT Annual Business Meeting 45th Anniversary (p178)

6:00 PM–7:30 PM

Specialty Section Meetings/Receptions: Food Safety, *In Vitro*, Metals, Molecular Biology, Reproductive and Developmental, Toxicologic and Exploratory Pathology, Women in Toxicology

6:00 PM–8:30 PM

Special Interest Group Meeting/Reception: African Society of Toxicological Sciences (p178)

Various Times

Regional Chapter Meetings/Receptions (Refer to *Event Calendar*)

Wednesday, March 8

12:00 NOON–1:30 PM

45th Anniversary Raffle Contest (p206)

4:30 PM–6:00 PM

Grantsmanship Forum: Sources for Funding Support (p236)

4:45 PM–5:15 PM

Council Meeting with Students/Post-Doctoral Fellows (p236)

6:00 PM–7:30 PM

Specialty Section Meetings/Receptions: Biological Modeling, Dermal Toxicology, Inhalation, Neurotoxicology, Risk Assessment

Various Times

Regional Chapter Meetings/Receptions (Refer to *Event Calendar*)