



Scientific Session Index

All sessions will be held at the Washington State Convention and Trade Center.

General Scientific Sessions

(Listed by type, then date and time)

Monday

Symposia Sessions **S**

Date/Time	Topic/Abstract #	Room	Page
Monday 9:30 AM	Metals, Microglia, and Neuroinflammation #13-17	Room 6A	88
Monday 9:30 AM	Molecular Basis for Susceptibility to Chemical Toxicity and Disease #18-22	Room 605	88
Monday 9:30 AM	New Developments in Liver Tumor Biology #23-28	Room 6C	89
Monday 9:30 AM	Particle Interactions with Biomaterials: Beyond Opsonization #29-34	Room 6B	89

Workshop Sessions **W**

Date/Time	Topic/Abstract #	Room	Page
Monday 9:30 AM	Current Perspectives on Ocular and Systemic Safety Risks of Therapeutics #35-40	Room 611	90
Monday 9:30 AM	LLNA: False Positives, False Negatives, and Alternative Endpoints #41-46	Room 608	90

Platform Sessions **PL**

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Monday 9:30 AM	Advancing the Science of Risk Assessment #47-55	Room 615	91
Monday 9:30 AM	Altered Reproductive Development #56-63	Room 602	91
Monday 9:30 AM	Developmental Immunotoxicology, Host Resistance and Genomics #64-70	Room 6E	92
Monday 9:30 AM	Ecotoxicity and Chemical Exposure #71-78	Room 2A	93
Monday 9:30 AM	Oxidative Stress, DNA Strand Breaks, and Applications of the COMET Assay #79-84	Room 618	93

Poster Sessions **PS**

*Attended 9:30 AM-11:00 AM; otherwise attended 11:00 AM-12:30 PM.

Date/Time	Topic/Abstract #/ Poster	Room	Page
Monday 9:30 AM	* Endocrine Mechanisms of Toxicity #85-108 Poster Boards 101-124	Exhibit Hall	94
Monday 9:30 AM	Oxidative Stress Mechanisms in Chemical Carcinogenesis #109-124 Poster Boards 125-140	Exhibit Hall	95
Monday 9:30 AM	* Chemical and Biological Weapons #125-162 Poster Boards 203-240	Exhibit Hall	97
Monday 9:30 AM	Immunotoxicology #163-200 Poster Boards 301-338	Exhibit Hall	99
Monday 9:30 AM	* Animal Models #201-235 Poster Boards 406-440	Exhibit Hall	102
Monday 9:30 AM	Bioinformatics and Computational Toxicology #236-263 Poster Boards 504-531	Exhibit Hall	105
Monday 9:30 AM	* Pesticide Metabolism and Toxicity #264-286 Poster Boards 532-554	Exhibit Hall	107
Monday 9:30 AM	Inhalants: Oxidative and Redox Mechanisms #287-300 Poster Boards 555-559 and 604-612	Exhibit Hall	109
Monday 9:30 AM	* Xenobiotic Biotransformation II #301-320 Poster Boards 614-633	Exhibit Hall	110

Roundtable Sessions **R**

Date/Time	Topic/Abstract #	Room	Page
Monday 12:15 PM	Risk Assessment for Biotherapeutics #321	Room 618	113
Monday 12:15 PM	The Future of Toxicology #322	Room 602	113

**Scientific Session Index (Continued)****Poster Sessions PS**

*Attended 1:00 PM–2:45 PM; otherwise attended 2:45 PM–4:30 PM.

Date/Time	Topic/Abstract #	Room	Page
Monday 1:00 PM	* Alternative Ocular and Dermal Models #323–341 Poster Boards 101–119	Exhibit Hall	114
Monday 1:00 PM	Apoptosis: Mechanisms and Methods #342–360 Poster Boards 121–139	Exhibit Hall	116
Monday 1:00 PM	* Stem Cell Biology and Toxicology #361–372 Poster Boards 201–212	Exhibit Hall	117
Monday 1:00 PM	Biomarkers #373–399 Poster Boards 214–240	Exhibit Hall	118
Monday 1:00 PM	* Genetic Polymorphisms #400–422 Poster Boards 301–323	Exhibit Hall	120
Monday 1:00 PM	Nanoparticles: Testing Approaches, Geno- and Ecotoxicity #423–443 Poster Boards 330–340 and 401–410	Exhibit Hall	122
Monday 1:00 PM	* Kidney #444–473 Poster Boards 411–440	Exhibit Hall	124
Monday 1:00 PM	Food Safety I #474–498 Poster Boards 501–525	Exhibit Hall	126
Monday 1:00 PM	* Safety Assessment, Non-Pharmaceutical #499–518 Poster Boards 530–549	Exhibit Hall	128
Monday 1:00 PM	Modulators of Cell Proliferation in Chemical Carcinogenesis #519–532 Poster Boards 550–562 and 601	Exhibit Hall	129
Monday 1:00 PM	* Receptors #533–555 Poster Boards 609–631	Exhibit Hall	130

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Monday 1:30 PM	Environmental Influence on Female Puberty and Breast Tumorigenesis #562–567	Room 6E	133
Monday 1:30 PM	Oxidant Air Pollution and Childhood Asthma #568–575	Room 6C	134
Monday 1:30 PM	Stem Cells: New Tools for Neurotoxicologists #576–580	Room 605	134

Workshop Sessions W

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Monday 1:30 PM	Getting the Most Out of Model Organism Databases: From the Basic to the Complex #581–585	Room 615	135
Monday 1:30 PM	Mixture Exposures to Metals/Metalloids and Related Health Effects #586–590	Room 608	136
Monday 1:30 PM	Where the Rubber Meets the Road: Current Application of Genomic Tools in Product Development and Decision Making #591–596	Room 611	136

Informational Session IS

Date/Time	Topic/Abstract #	Room	Page
Monday 1:30 PM	Future Paths for Puget Sound: Contaminants, Cultures, and Ecosystem Risk Characterization—A Special Regional Interest Session #597–603	Room 618	137

Platform Sessions PL

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Monday 1:30 PM	APC's, B Cells and Haematopoiesis #604–610	Room 602	137
Monday 1:30 PM	Disposition/Pharmacokinetics #611–618	Room 6A	138
Monday 1:30 PM	Frontiers in Liver Toxicology Research #619–627	Room 2A	138

Roundtable Session R

Date/Time	Topic/Abstract #	Room	Page
Monday 4:30 PM	Immunotoxicity Testing: Should Elevated Antibody Responses be Interpreted as an Indicator of Immunotoxicological Hazard? #628	Room 615	140

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Historical Highlight Session **III**

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Monday 4:30 PM	Ozone Toxicology: Historical Perspectives of the Science that Shaped the Regulatory Standards #629	Room 602	140

Informational Session **IS**

Date/Time	Topic/Abstract #	Room	Page
Monday 4:30 PM	Putting Your Best Foot Forward: Job Interviewing Workshop for Early-Career Scientists #630	Room 605	141

Workshop Sessions **W**

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Tuesday 9:00 AM	Drug-Related Torsades de Pointes: Advancements in Preclinical Modeling of Potential Cardiac Toxicity #647-651	Room 611	147
Tuesday 9:00 AM	The Allergic March: The Role of Chemicals in the Increasing Prevalence of Allergy and Asthma #652-657	Room 6A	147
Tuesday 9:00 AM	To Dye or Not to Dye: Safety of Oxidative Hair Dyes #658-663	Room 608	148

Tuesday

Roundtable Sessions **R**

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Tuesday 7:30 AM	Breaking the Log-Jam: Public-Private Partner- ships as a Way to Discover and Advance Biomarkers of Drug-Induced Toxicity #631	Room 618	143
Tuesday 7:30 AM	Reproductive Toxicity Studies: One Generation <i>versus</i> Two Generations #632	Room 602	143
Tuesday 7:30 AM	The 2007 Pet Food Related Toxic Nephropathy in Dogs and Cats #633	Room 6C	144

Informational Session **IS**

Date/Time	Topic/Abstract #	Room	Page
Tuesday 7:30 AM	Detection of Biological Free Radicals in Time and Space #634	Room 611	144

Symposia Sessions **S**

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Tuesday 9:00 AM	Molecular and Genomic Insights into the Nrf2-Regulated Oxidative Stress Response: Impact on Carcinogenesis #635-640	Room 605	146
Tuesday 9:00 AM	New Concepts in the Etiology of Breast Cancer: From Genes to Environment and Back Again #641-646	Room 6B	146

Informational Session **IS**

Date/Time	Topic/Abstract #	Room	Page
Tuesday 9:00 AM	Professional Career Devel- opment as a Toxicologist #664-668	Room 602	148

Platform Sessions **PL**

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Tuesday 9:00 AM	Accelerating Discoveries in Toxicology Through 'Omics Research #669-676	Room 6C	149
Tuesday 9:00 AM	Chemical and Biological Weapons: Molecular Basis for Detection and Thera- peutic Potential #677-684	Room 618	150
Tuesday 9:00 AM	Developmental Basis of Disease #685-692	Room 6E	150
Tuesday 9:00 AM	Health Risks and Food Safety #693-701	Room 615	151
Tuesday 9:00 AM	Manganese Neurotoxicity: From Worms to Primates #702-708	Room 2A	152

Poster Sessions **PS**

*Attended 9:00 AM-11:00 AM; otherwise attended 11:00 AM-12:30 PM.

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Tuesday 9:00 AM	* Adverse Effects of Natural Products #709-725 Poster Boards 101-117	Exhibit Hall	152
Tuesday 9:00 AM	Particulate Matter and the Cardiovascular System #726-753 Poster Boards 122-140 and 201-209	Exhibit Hall	153



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Tuesday 9:00 AM	* Xenobiotic Biotransformation I #754-784 Poster Boards 210-240	Exhibit Hall	156
Tuesday 9:00 AM	Persistent Organic Pollutants (POPs) #785-821 Poster Boards 301-337	Exhibit Hall	158
Tuesday 9:00 AM	* Liver I: <i>In Vivo</i> #822-864 Poster Boards 338-340 and 401-440	Exhibit Hall	161
Tuesday 9:00 AM	Mechanisms and Chemoprevention of PAH and Tobacco-Related Carcinogenesis #865-877 Poster Boards 501-513	Exhibit Hall	164
Tuesday 9:00 AM	* Alternatives to Mammalian Models #878-909 Poster Boards 514-545	Exhibit Hall	165
Tuesday 9:00 AM	Regulatory Risk Assessment #910-942 Poster Boards 550-562 and 601-620	Exhibit Hall	167

Poster Sessions **PS**

*Attended 1:00 PM-2:45 PM; otherwise attended 2:45 PM-4:30 PM.

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Tuesday 1:00 PM	* Pharmacokinetics and Disposition #943-975 Poster Boards 101-133	Exhibit Hall	172
Tuesday 1:00 PM	Regulation/Policy #976-991 Poster Boards 134-140 and 201-209	Exhibit Hall	174
Tuesday 1:00 PM	* Applications of Biological Modeling #992-1022 Poster Board 210-240	Exhibit Hall	175
Tuesday 1:00 PM	Nanoparticles: Target Organs #1023-1056 Poster Boards 301-334	Exhibit Hall	177
Tuesday 1:00 PM	* Breast Cancer: Mechanisms, Biomarkers, and Chemoprevention #1057-1070 Poster Boards 335-340 and 401-408	Exhibit Hall	180
Tuesday 1:00 PM	Inhalation Toxicology #1071-1102 Poster Boards 409-440	Exhibit Hall	181
Tuesday 1:00 PM	* Signal Transduction and Gene Regulation #1103-1131 Poster Boards 501-529	Exhibit Hall	183
Tuesday 1:00 PM	Reproductive System #1132-1161 Poster Boards 532-561	Exhibit Hall	186

Tuesday 1:00 PM	* Risk Assessment Research #1162-1199 Poster Board 601-638	Exhibit Hall	188
Tuesday 1:00 PM	Liver II: <i>In Vitro</i> #1200-1222 Poster Boards 640-662	Exhibit Hall	191
Tuesday 1:00 PM	* Assessment of Ecological Toxicology #1223-1250 Poster Boards 701-728	Exhibit Hall	193

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Tuesday 1:30 PM	Neurotoxicant-Induced Alterations in Developmental and Adult Neurogenesis: Structure-Function Studies and Clinical Relevance #1259-1263	Room 611	196
Tuesday 1:30 PM	Novel Biomarkers of Drug-Induced Toxicity: Outcomes of Predtox and the Predictive Safety Testing Consortium #1264-1271	Room 602	197

Workshop Sessions **W**

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Tuesday 1:30 PM	Dermal Toxicological Assessment of Nanomaterials and Nanodevices #1272-1277	Room 6C	197
Tuesday 1:30 PM	Host Susceptibility and Chemical Safety Testing: New Approaches to Estimate Risks in the Human Population #1278-1283	Room 608	198
Tuesday 1:30 PM	Molecular Mechanisms and Molecular Biology of Metal Carcinogenesis #1284-1289	Room 6B	198
Tuesday 1:30 PM	Strategies for Assessing Developmental and Reproductive Toxicology of Bio-Pharmaceuticals #1290-1295	Room 6A	199

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Roundtable Session **R**

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Tuesday 1:30 PM	Human Health Risk Assessment for Pharmaceuticals in the Environment (PIE) #1296-1301	Room 618	200

Platform Sessions **PL**

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Tuesday 1:30 PM	Arsenic Toxicity #1302-1309	Room 2A	200
Tuesday 1:30 PM	Mechanisms of Hypersensitivity #1310-1316	Room 6E	201
Tuesday 1:30 PM	Mechanisms of Pesticide Toxicity #1317-1325	Room 615	201

Wednesday

Roundtable Sessions **R**

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Wednesday 7:30 AM	Hazard vs. Risk for Chemical Regulation #1326	Room 618	203
Wednesday 7:30 AM	Reconciling Scientific and Ethical Concerns in the Use of Animals for Toxicological Research #1327	Room 615	204
Wednesday 7:30 AM	Toxicology Training Needs: New Faces and New Tools for the 21 st Century #1328	Room 608	204

Informational Sessions **IS**

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Wednesday 7:30 AM	Cross-Cultural Understanding of Asian and Western Cultural Values in the Workplace #1329	Room 602	205
Wednesday 7:30 AM	Toxicological and Public Health Challenges in Africa #1330	Room 605	205

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Wednesday 9:00 AM	Developmental Basis of Health and Disease: Persistent Effects of Tobacco Smoke Exposure #1331-1337	Room 605	206

Wednesday 9:00 AM	Unusual Manifestations of On-Target and Off-Target Toxicity: Toxicity of Kinase Inhibitors #1338-1343	Room 608	207
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Workshop Sessions **W**

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Wednesday 9:00 AM	Natural Killer Cells as Targets of Drugs, Toxicants, and Biologicals #1344-1348	Room 6B	207
Wednesday 9:00 AM	Safe Approaches to Topical Product Development #1349-1354	Room 615	208
Wednesday 9:00 AM	Threshold of Toxicologic Concern: Historical Perspectives and Future Applications #1355-1360	Room 6C	208
Wednesday 9:00 AM	Use of Behavioral and Non-Routine Neurological Approaches in Drug Discovery Toxicology #1361-1366	Room 6A	209

Informational Session **IS**

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Wednesday 9:00 AM	Globally Harmonized System of Classification and Labelling of Chemicals (GHS): A New Language for Toxicologists #1367-1372	Room 602	209

Platform Sessions **PL**

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Wednesday 9:00 AM	Mechanisms of Reproductive Toxicity #1382-1389	Room 2A	210
Wednesday 9:00 AM	Modulating Apoptosis for Beneficial Outcomes #1390-1397	Room 618	211
Wednesday 9:00 AM	Nanoparticles: Cellular and Organ Disposition #1398-1406	Room 6E	212



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Poster Sessions **PS**

*Attended 9:00 AM–11:00 AM; otherwise attended 11:00 AM–12:30 PM.

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Wednesday 9:00 AM	Gene Regulation and Genomic Approaches #1420–1433 Poster Boards 114–127	Exhibit Hall	214
Wednesday 9:00 AM	* Respiratory and Skin Hypersensitivity #1434–1457 Poster Boards 128–140 and 201–211	Exhibit Hall	215
Wednesday 9:00 AM	Epidemiology and Exposure Assessment #1458–1484 Poster Boards 214–240	Exhibit Hall	217
Wednesday 9:00 AM	* Nanoparticles: Inhalation and Respiratory Cell Injury #1485–1514 Poster Boards 301–330	Exhibit Hall	219
Wednesday 9:00 AM	Developmental Toxicology #1515–1542 Poster Boards 331–340 and 401–418	Exhibit Hall	221
Wednesday 9:00 AM	* Skin Penetration and Toxicity #1543–1563 Poster Board 420–440	Exhibit Hall	223
Wednesday 9:00 AM	Application of ‘Omics Research Tools in Toxicology #1564–1606 Poster Boards 501–543	Exhibit Hall	225
Wednesday 9:00 AM	* Metals I #1607–1644 Poster Boards 546–562 and 601–621	Exhibit Hall	228
Wednesday 9:00 AM	Cardiovascular System: Cardiac Effects #1645–1667 Poster Boards 627–649	Exhibit Hall	231
Wednesday 9:00 AM	* DNA Damage and Repair: Mechanisms and Agents #1668–1689 Poster Boards 650–662 and 701–709	Exhibit Hall	233

Informational Session **IS**

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Wednesday 12:00 NOON	Mentoring 101—How to Mentor, and How to be Mentored #1690	Room 615	236

Poster Sessions **PS**

*Attended 1:00 PM–2:45 PM; otherwise attended 2:45 PM–4:30 PM.

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Wednesday 1:00 PM	* Developmental Neurotoxicity #1691–1729 Poster Boards 101–139	Exhibit Hall	237
Wednesday 1:00 PM	Human Biomarkers #1730–1746 Poster Boards 201–217	Exhibit Hall	240
Wednesday 1:00 PM	* Biomarkers: Methods #1747–1764 Poster Boards 221–238	Exhibit Hall	241
Wednesday 1:00 PM	Juvenile Toxicity #1765–1775 Poster Boards 301–311	Exhibit Hall	242
Wednesday 1:00 PM	* Risk Assessment Applications #1776–1803 Poster Boards 313–340	Exhibit Hall	243
Wednesday 1:00 PM	Neurotoxicity: Miscellaneous Compounds, Models, and Mechanisms #1804–1843 Poster Boards 401–440	Exhibit Hall	245
Wednesday 1:00 PM	* Metal Neurotoxicology: Experimental Models and Mechanisms #1844–1889 Poster Boards 501–546	Exhibit Hall	248
Wednesday 1:00 PM	Pharmaceuticals #1890–1915 Poster Boards 550–562 and 601–613	Exhibit Hall	251
Wednesday 1:00 PM	* Safety Assessment, Pharmaceutical—Liver, Kidney, Immune System #1916–1943 Poster Boards 614–641	Exhibit Hall	253
Wednesday 1:00 PM	Oxidative Injury and Redox Biology I: <i>In Vivo</i> #1944–1964 Poster Boards 642–662	Exhibit Hall	255

Symposia Sessions **S**

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Wednesday 1:30 PM	Nanomaterial Pharmacokinetics: Where We Are and Where We Need to Go #1970–1975	Room 6C	258

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Wednesday 1:30 PM	Chlorotriazine Herbicides and their Common Degradation Products of Concern: Disposition and Potential Health Effects #1981–1986	Room 611	259
Wednesday 1:30 PM	Interdisciplinary Approaches for Improving Chemical Hazard Testing Paradigms #1987–1992	Room 6A	259

Platform Sessions PL

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Wednesday 1:30 PM	Apoptosis: Cardio-pulmonary Targets #1993–2001	Room 6E	260
Wednesday 1:30 PM	Immunotoxicology: T Cells #2002–2007	Room 602	261
Wednesday 1:30 PM	Issues in Regulatory Risk Assessment #2008–2016	Room 605	261
Wednesday 1:30 PM	New Insights for Developmental Toxicology #2017–2025	Room 618	262
Wednesday 1:30 PM	Nrf2 Induced Gene Regulation #2026–2033	Room 615	262
Wednesday 1:30 PM	Selective Dopamin-ergic Neurotoxicity: Genetics and Mechanisms #2034–2040	Room 2A	263

Roundtable Session R

Date/Time	Topic/Abstract #	Room	Page
Wednesday 4:30 PM	A Case Study on the Risks and Benefits of Deca-BDE—a Major Brominated Flame Retardant #2041	Room 608	264

Informational Sessions IS

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Wednesday 4:30 PM	Implementation of the ICH S8 Immunotoxicity Testing Guideline #2042	Room 615	264
Wednesday 4:30 PM	NIEHS Outstanding New Environmental Scientists (ONES) Awardees #2043	Room 6C	265

Thursday**Roundtable Session R**

Date/Time	Topic/Abstract #	Room	Page
Thursday 7:30 AM	Biofuel Combustion: An Emerging Health Problem? #2044	Room 608	266

Poster Sessions PS

*Attended 8:30 AM–10:15 AM; otherwise attended 10:15 AM–12:00 NOON.

Date/Time	Topic/Abstract #	Room	Page
Thursday 8:30 AM	* Oxidative Injury and Redox Biology II: <i>In Vitro</i> #2045–2084 Poster Boards 101–140	Ballroom 6C & E	266
Thursday 8:30 AM	Metals II #2085–2122 Poster Boards 141–160 and 201–218	Ballroom 6C & E	269
Thursday 8:30 AM	* Method Development, Autoimmunity, and Disease Mechanisms in Immunotoxicology #2123–2155 Poster Boards 221–253	Ballroom 6C & E	272
Thursday 8:30 AM	AHR Mechanisms #2156–2171 Poster Boards 254–260 and 301–309	Ballroom 6C & E	275
Thursday 8:30 AM	* Chemoprevention #2172–2183 Poster Boards 311–322	Ballroom 6C & E	276
Thursday 8:30 AM	Fish Alternative Models of Toxicity #2184–2199 Poster Boards 325–340	Ballroom 6C & E	277
Thursday 8:30 AM	* Cardiovascular System: Vascular Effects #2200–2220 Poster Boards 341–360 and 401	Ballroom 6C & E	278
Thursday 8:30 AM	Food Safety II #2221–2241 Poster Boards 403–423	Ballroom 6C & E	280
Thursday 8:30 AM	* High-Throughput, High Content Approaches to Assessing Genotoxicity #2242–2259 Poster Boards 426–443	Ballroom 6C & E	282
Thursday 8:30 AM	Pesticide Neurotoxicity #2260–2292 Poster Boards 446–460 and 501–518	Ballroom 6C & E	283
Thursday 8:30 AM	* Safety Assessment, Pharmaceutical—Techniques, Pulmonary, Cardiovascular #2293–2326 Poster Boards 520–553	Ballroom 6C & E	286



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Thursday 9:00 AM	Perinatal Exposure to Nucleoside Reverse Transcriptase Inhibitors (NRTIs) Induces Transplacental Genotoxicity and Mitochondrial Toxicity #2332-2336	Room 605	288
Thursday 9:00 AM	Stem Cells in Developmental and Reproductive Biology and Toxicology #2337-2341	Room 611	289

Workshop Sessions **W**

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Thursday 9:00 AM	Genotoxicity Testing from Early Discovery through Regulatory Submission: A Comprehensive Primer #2342-2347	Room 618	290
Thursday 9:00 AM	Incorporation of Mode-of-Action into Mechanistically-Based Quantitative Models #2348-2353	Room 608	290
Thursday 9:00 AM	Pulmonary Toxicity Testing of Nanoparticles #2354-2358	Room 6B	291

Informational Session **IS**

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Thursday 9:00 AM	REACH: Implementation, Chemical Safety, and Information Requirements #2359-2363	Room 6A	291