
PROGRAM AGENDA



TUESDAY, JUNE 29, 1999

- 11:00 AM - 5:00 PM** **Registration** – Shavano Foyer
- 12:00 PM - 6:00 PM** **Council IA Meeting** – Ten Mile
- 1:00 PM - 5:00 PM** **Education Course** – Torrey 2-4
Organ System Maturation and Functional Postnatal Development
- 1:00 PM - 1:05 PM **WELCOME**
Speaker: Anthony Scialli, President, Teratology Society
- 1:05 PM - 1:15 PM **INTRODUCTION**
Speaker: Melissa Tassinari, Pfizer Central Research
- 1:15 PM - 2:00 PM **OVERVIEW: ASPECTS OF POSTNATAL GROWTH;
ONTOGENY OF ORGAN SYSTEMS**
Speaker: Joseph Holson, WIL Research Laboratories
- 2:00 PM - 2:45 PM **GROWTH FROM BIRTH TO PUBERTY: DYNAMICS
OF GROWTH AND SKELETAL DEVELOPMENT**
*Speaker: Rocky Tuan, Department of Orthopaedic Surgery,
Thomas Jefferson University*
- 2:45 PM - 3:15 PM **BREAK**
- 3:15 PM - 4:00 PM **CARDIOVASCULAR SYSTEM**
Speaker: John DeSesso, Mitretek Systems
- 4:00 PM - 5:00 PM **CENTRAL NERVOUS SYSTEM**
*Speaker: Robert Holson, Department of Psychology,
New Mexico Tech.*
- 7:00 PM - 8:00 PM** **President's Reception** – Gallery/Lakeside
(Sponsored by Elsevier Science, Inc.)

WEDNESDAY, JUNE 30, 1999

- 7:00 AM - 12:00 PM** **Council IB Meeting** – Ten Mile
- 7:30 AM - 5:00 PM** **Registration** – Shavano Foyer
- 7:30 AM - 8:15 AM** **Education Course Continental Breakfast** – Crestone 2-4 Foyer
- 8:00 AM - 12:00 PM** **Golf Tournament** – Ranch Golf Course
- 8:15 AM - 12:00 PM** **Education Course** (*continued*) – Crestone 2-4
Organ System Maturation and Functional Postnatal Development
- 8:15 AM - 9:00 AM **REPRODUCTIVE SYSTEM**
Speaker: Kimberley Treinin, Schering-Plough Research Safety Evaluation Center
- 9:00 AM - 9:40 AM **IMMUNE SYSTEM**
Speaker: Dwayne Hill, University of Michigan
- 9:40 AM - 10:00 AM **METABOLIC SYSTEMS—LIVER AND KIDNEY**
Speaker: Jeffrey Peters, National Institutes of Health, Metabolism Laboratories
- 10:00 AM - 10:30 AM **BREAK**
- 10:30 AM - 11:10 AM **PEDIATRIC SAFETY ASSESSMENTS—VIEW FROM A CLINICIAN**
Speaker: TBA
- 11:10 AM - 12:00 PM **NON-CLINICAL SAFETY ASSESSMENTS—WHAT TO DO AND WHEN**
Speaker: Melissa Tassinari, Pfizer Central Research
- 12:00 PM - 10:00 PM** **Exhibits Open** – Shavano/Torreys
- 1:00 PM - 5:30 PM** **March of Dimes Symposium** – Red Cloud Peak
HIV Infection During Pregnancy: Biology, Developmental Effects and Therapeutic Interventions
Chairpersons: Richard K. Miller, Department of OB/GYN, University of Rochester, Rochester, New York and William Slikker, Jr., NCTR, Jefferson, Arkansas
- 1:00 PM - 1:05 PM **INTRODUCTION**
Speaker: Richard K. Miller, University of Rochester
- 1:05 PM - 1:10 PM **OVERVIEW**
Speaker: Michael Katz, Scientific Director, March of Dimes
- 1:10 PM - 1:50 PM **S1** **BIOLOGY OF HIV—IMPACT OF CHEMOKINE RECEPTOR POLYMORPHISM ON VERTICAL TRANSMISSION**
Leonidas G. Kostrikis, Rockefeller University

WEDNESDAY, JUNE 30, 1999 (continued)

- 1:50 PM - 2:30 PM **S2** THE ROLE OF THE PLACENTA IN HIV INFECTION FOR THE FETUS
Richard K. Miller, University of Rochester
- 2:30 PM - 3:10 PM **S3** NEURO-DEVELOPMENTAL INFECTION AND OUTCOME
Leon G. Epstein, Northwestern University
- 3:10 PM - 3:30 PM **BREAK**
- 3:30 PM - 4:10 PM **S4** LONG TERM FOLLOW-UP OF CHILDREN—TOXICITY OF RETROVIRALS
Mary Glenn Fowler, CDC
- 4:10 PM - 4:50 PM **S5** POTENTIAL TOXICITIES OF HIV THERAPEUTICS ON THE DEVELOPING INFANT
William Slikker, Jr., NCTR
- 4:50 PM - 5:20 PM **ROUNDTABLE DISCUSSION**
- 5:20 PM - 5:30 PM **CONCLUSIONS**
Speaker: William Slikker, Jr., NCTR
- 7:30 PM - 10:00 PM** **Poster Session (Posters 1-40)** – Shavano/Torreys
(Refreshments sponsored by Shin Nippon Biomedical Laboratories, Ltd.)

THURSDAY, JULY 1, 1999

- 7:00 AM - 7:45 AM** **Continental Breakfast** – Shavano Foyer
- 7:30 AM - 5:00 PM** **Registration** – Shavano Foyer
- 7:45 AM - 8:00 AM** **President's Welcome and Introduction** – Red Cloud Peak
Speaker: Anthony Scialli, President, Teratology Society
- 8:00 AM - 8:45 AM** **Warkany Lecture** – Red Cloud Peak
Improving the Science for Predicting Risks to Children's Health
Speaker: Carole Kimmel, USEPA
- 8:45 AM - 12:00 PM** **NIEHS Symposium** – Red Cloud Peak
Oxidative Stress, Apoptosis and Abnormal Development
Chairpersons: Jerry Heindel, NIEHS, Research Triangle Park, North Carolina; Alan Fantel, Central Embryology Laboratory, University of Washington, Seattle, Washington; and Thomas Knudsen, Department of Anatomy, Jefferson Medical College, Philadelphia, Pennsylvania
- 8:45 AM - 9:30 AM **S6** FREE RADICALS, OXIDANTS AND ANTI-OXIDANTS: ORIGINS, TARGETS, CONSEQUENCES
Garry Buettner, University of Iowa

THURSDAY, JULY 1, 1999 (continued)

- 9:30 AM - 10:15 AM **S7** THE CAUSE-EFFECT OF OXIDATIVE STRESS AND APOPTOSIS
James P. Kehrer, University of Texas at Austin
- 10:15 AM - 10:30 AM BREAK
- 10:30 AM - 10:55 AM **S8** FREE RADICAL IMBALANCE IN LIMB REDUCTION DEFECTS: A NEW MECHANISTIC MODEL OF VASCULAR DISRUPTION
Alan Fantel, University of Washington
- 10:55 AM - 11:20 AM **S9** MITOCHONDRIAL TRANSDUCTION OF TERATOGENESIS: ROLE OF p53 AND BZRP GENES
Thomas Knudsen, Thomas Jefferson University
- 11:20 AM - 11:55 AM **S10** ARSENIC FREE RADICALS AND DYSMORPHOGENESIS
E. Sidney Hunter, USEPA
- 12:00 PM - 1:00 PM** **Past President's Luncheon** – Crestone Peak 2
(By invitation only)
- 12:00 PM - 10:00 PM** **Exhibits Open** – Shavano/Torreys
- 1:30 PM - 3:00 PM** **Platform I: OTIS/Teratology Society Joint Session** – Red Cloud Peak
Chairpersons: Elisabeth Robert, Institut Européen des Génomutations, Lyon, France and Kenneth Jones, Department of Pediatrics, Division of Dysmorphology and Teratology, University of California San Diego, La Jolla, California
- 1:30 PM - 1:45 PM **1** PREGNANCY OUTCOME IN WOMEN WHO USE SERTRALINE
C.D. Chambers, L.M. Dick, R.J. Felix, K.A. Johnson, and K.L. Jones, Department of Pediatrics, Division of Dysmorphology and Teratology, University of California San Diego, La Jolla, California
- 1:45 PM - 2:00 PM **2** NEUROBEHAVIORAL FOLLOW-UP OF CHILDREN PRENATALLY EXPOSED TO FLUOXETINE
S.N. Mattson, A.D. Eastvold, K.L. Jones, J.A. Harris, and C.D. Chambers, Center for Behavioral Teratology, SDSU, San Diego, California; Department of Pediatrics, Division of Dysmorphology and Teratology, UCSD, San Diego, California; and the California Birth Defects Monitoring Program, Emeryville, California

THURSDAY, JULY 1, 1999 (continued)

- 2:00 PM - 2:15 PM **3** DISTRIBUTION OF MALFORMATIONS AMONG POPULATIONS LIVING AROUND NUCLEAR PLANTS: A REGISTRY STUDY
E. Robert, S.E. Vollset, J.C. Laborier, and O. Robert, Institut Européen des Génomutations, Lyon, France
- 2:15 PM - 2:30 PM **4** NEURODEVELOPMENT OF CHILDREN EXPOSED *IN UTERO* TO MATERNAL BINGE ALCOHOL CONSUMPTION: A PROSPECTIVE CONTROLLED STUDY
I. Nulman, D. Kennedy, J. Rovet, J. Wolpin, C. Wasson, M. Loebstein, J. Gladstone, M. Levy, S. Freed, P. Pace-Asciak, and G. Koren
- 2:30 PM - 2:45 PM **5** A PROSPECTIVE CONTROLLED MULTICENTRE STUDY OF LOPERAMIDE IN PREGNANCY
A. Einarson, P. Mastroiacovo, J. Arnon, A. Ornoy, A. Addis, A. Ritvanen, and G. Koren
- 2:45 PM - 3:00 PM **6** THE SAFETY OF DEXTROMETHORPHAN IN PREGNANCY: A PROSPECTIVE CONTROLLED STUDY
A. Einarson, D. Lyszkiewicz, and G. Koren

3:00 PM - 4:15 PM

Platform II: Epidemiology – Red Cloud Peak

Chairpersons: Martha Werler, Slone Epidemiology Unit, Boston University School of Public Health, Brookline, Massachusetts and Gary Shaw, California Birth Defects Monitoring Program, Emeryville, California

- 3:00 PM - 3:15 PM **7** MULTIVITAMINS AND DIABETES-RELATED BIRTH DEFECTS
A. Correa, L. Botto, and J. Mulinare, Centers for Disease Control and Prevention, Atlanta, Georgia
- 3:15 PM - 3:30 PM **8** MATERNAL VITAMIN USE, INFANT MUTATION IN MTHFR AND CLEFT PALATE RISK
G.M. Shaw, R.H. Finnell, K. Todoroff, R. Rozen, and E.J. Lammer, California Birth Defects Monitoring Program, Emeryville, California
- 3:30 PM - 3:45 PM **9** MATERNAL RED CELL FOLATE LEVELS, MTHFR GENOTYPE, AND RISK OF OROFACIAL CLEFT BIRTH DEFECTS IN THE PHILIPPINES
R. Munger, H. Sauberlich, S. Wong, S. Daack-Hirshch, D. Trembath, S. O'Brien, J. Murray, D. Hendricks, N. West, F. Solon, and W. Magee, Utah State University, Logan, Utah

THURSDAY, JULY 1, 1999 (continued)

- 3:45 PM - 4:00 PM **10** PRECONCEPTION USE OF FOLIC ACID AMONG WOMEN OF CHILDBEARING AGE: THREE NATIONAL SURVEYS
D. Mattison, J. Petrini, C. Alter, K. Damus, and R.B. Johnston, Jr., March of Dimes Birth Defects Foundation, White Plains, New York
- 4:00 PM - 4:15 PM **11** EFFECT OF PRENATAL EXPOSURE TO ANTIEPILEPTIC DRUGS ON DERMAL RIDGE PATTERNS OF FINGERS
A. Bokhari, B. Coull, and L.B. Holmes, Genetics and Teratology Unit, Pediatric Service, Massachusetts General Hospital and Department of Biostatistics, Harvard School of Public Health, Boston, Massachusetts
- 4:30 PM - 6:00 PM** **Business Meeting** – Red Cloud Peak
(Teratology Society members only)
- 6:00 PM - 7:30 PM** **Reproductive Toxicology Editorial Board Meeting** – Crestone 3-4
- 7:30 PM - 10:00 PM** **Poster Session (Posters 41-64 and NBTS)** – Shavano/Torreys

FRIDAY, JULY 2, 1999

- 7:00 AM - 7:45 AM** **Continental Breakfast** – Shavano Foyer
- 7:00 AM - 8:00 AM** **Exhibitor Breakfast** – Torreys Peak 1
(By invitation only)
- 7:45 AM - 10:30 AM** **Platform III: Student Plenary Session** – Red Cloud Peak
Chairpersons: Robert Parker, Primedica Argus Research Laboratories, Horsham, Pennsylvania and Carole Kimmel, USEPA, Washington, D.C.
- 7:45 AM - 8:00 AM **12** CADMIUM-INDUCED STRESS SIGNALLING PATHWAYS IN MOUSE EMBRYO MIDBRAIN CELLS IN MICROMASS CULTURE
K.M.W. Haberstroh and C.M. Kapron, Watershed Ecosystems Graduate Program and Department of Biology, Trent University, Peterborough, Ontario, Canada
- 8:00 AM - 8:15 AM **13** EXPOSURE OF MALE RATS TO CYCLOPHOSPHAMIDE (CPA) CHANGES CELL-CELL CONTACTS IN PRE-IMPLANTATION EMBRYOS
W. Harrouk, B. Robaire, and B. Hales, Department of Pharmacology & Therapeutics, McGill University, Montreal, Quebec, Canada

FRIDAY, JULY 2, 1999 (continued)

- 8:15 AM - 8:30 AM **14** URINARY TRACT EPITHELIAL CELL RESPONSES TOTCDD IN AN *IN VITRO* MODEL
P.L. Bryant¹, L.M. Reid², E. Diala³, and B.D. Abbott⁴, ¹Department Environ. Sci. & Eng., ²Department Cell & Molec. Physiol., ³ACT Core, UNC, Chapel Hill, North Carolina, and ⁴NHEERL, USEPA, Research Triangle Park, North Carolina
- 8:30 AM - 8:45 AM **15** PHENYTOIN-INDUCED ALTERATIONS IN CRANIOFACIAL DEVELOPMENT: INVOLVEMENT OF THE RETINOIC ACID RECEPTORS
J. Gelineau-Van Waes, G.D. Bennett, and R.H. Finnell, Department of Veterinary Anatomy & Public Health, Texas A & M University, College Station, Texas
- 8:45 AM - 9:00 AM **16** AMELIORATION OF ETHANOL-INDUCED DYSMORPHOGENESIS BY SOD1 PROTEIN AND ADENOVIRAL SOD1 OVER-EXPRESSION *IN VITRO*
J.B. Smith¹, P.C. Hartig², K.K. Sulik¹, and E.S. Hunter², ¹Department of Cell Biology and Anatomy, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, and ²NHEERL, USEPA, Research Triangle Park, North Carolina
- 9:00 AM - 9:30 AM** **Warkany Tea – Red Cloud Peak Foyer**
- 9:30 AM - 9:45 AM **17** ANTI-TERATOGENIC ACTIVITY OF PK11195, A LIGAND OF THE PERIPHERAL-TYPE BENZODIAZEPINE RECEPTOR
R.J. Donahue, M.F. O'Hara, J.H. Charlap, and T.B. Knudsen, Department of Pathology, Anatomy and Cell Biology, Jefferson Medical College, Philadelphia, Pennsylvania
- 9:45 AM - 10:00 AM **18** DNA NUCLEOTIDE EXCISION REPAIR GENE EXPRESSION DURING ORGANOGENESIS IN THE RAT EMBRYO
R. Vinson and B. Hales, Department of Pharmacology & Therapeutics, McGill University, Montréal, Québec, Canada
- 10:00 AM - 10:15 AM **19** TUMOR NECROSIS FACTOR-ALPHA (TNF- α) MEDIATES LIPOPOLYSACCHARIDE (LPS) EMBRYOLETHALITY
T.M. Leazer^{1,2}, J.E. Andrews², H. Nichols², J.M. Rogers^{1,2}, ¹Curriculum in Toxicology, University of North Carolina, Chapel Hill, North Carolina and ²Reproductive Toxicology Division, USEPA, Research Triangle Park, North Carolina

FRIDAY, JULY 2, 1999 (continued)

10:15 AM - 10:30 AM **20** CARDIAC ABNORMALITIES INDUCED BY ZINC DEFICIENCY ARE ASSOCIATED WITH ALTERATIONS IN THE EXPRESSION OF GENES REGULATED BY ZINC-FINGER TRANSCRIPTION FACTORS
J.Y. Duffy¹, G.J. Overmann¹, C.L. Keen², and G.P. Daston¹, ¹Procter & Gamble Company, Cincinnati, Ohio and ²University of California, Davis, California

10:30 AM - 12:00 PM

Platform IV: Hazard and Risk Assessment – Red Cloud Peak

Chairpersons: Paul Foster, Chemical Industry Institute of Toxicology, Research Triangle Park, North Carolina and Patricia Bittner, Consumer Product Safety Commission, Washington, D.C.

10:30 AM - 10:45 AM **21** REPRODUCTIVE RISKS OF IONIZING RADIATION: THE CONTRIBUTION OF ANIMAL STUDIES AND NEW CLINICAL STUDIES IN RESOLVING THE THRESHOLD DOSE FOR TERATOGENESIS AND THE RISK OF CANCER AND MENTAL RETARDATION
R.L. Brent, J.E. Pugarelli, and L.B. Fawcett, Alfred I. duPont Hospital for Children, Wilmington, Delaware

10:45 AM - 11:00 AM **22** THE RESPONSE TO HYPERTHERMIA IN THE GD10 RAT EMBRYO IS DEPENDENT ON THE PATTERN OF TEMPERATURE INCREASE
C.A. Kimmel¹, T.W. Claggett², G.L. Kimmel¹, R.R. Dugyala², and M.E. Stratmeyer³, ¹National Center for Environmental Assessment, USEPA, Washington, D.C., ²Pathology Associates International, Frederick, Maryland, and ³Health Sciences Branch, DLS/OST, CDRH, FDA, Rockville, Maryland

11:00 AM - 11:15 AM **23** THE PREDICTIVE VALIDITY OF FROG EMBRYO TERATOGENESIS ASSAY—XENOPUS (FETAX): UTILITY AND APPLICATION
D.J. Fort¹, E.L. Stover¹, D.R. Farmer², and J.K. Lemen², ¹The Stover Group, Stillwater, Oklahoma and ²Monsanto Company, St. Louis, Missouri

11:15 AM - 11:30 AM **24** INTERACTION OF EXTRANEIOUS VARIABLES ON DEVELOPMENTAL TOXICITY
B.K. Nelson, Division of Biomedical and Behavioral Science, NIOSH, Cincinnati, Ohio

FRIDAY, JULY 2, 1999 (continued)

- 11:30 AM - 11:45 AM **25** DEVELOPMENTAL TOXICITY OF MIXTURES: THE WATER DISINFECTION BYPRODUCTS DICHLORO-, DIBROMO- AND BROMOCHLORO-ACETIC ACID IN EMBRYO CULTURE
J.E. Andrews, J. Schmid¹, H. Nichols, E.S. Hunter, and G. Klinefelter, Reproductive Toxicology Division, ¹Research Support Division, NHEERL, USEPA, Research Triangle Park, North Carolina
- 11:45 AM - 12:00 PM **26** CUMULATIVE RISK ASSESSMENT FOR DEVELOPMENTAL TOXIC AGENTS
S. Euling¹, and C.A. Kimmel², ¹AAAS Fellow and ²National Center for Environmental Assessment, USEPA, Washington, D.C.
- 11:30 PM - 1:00 PM** **Student Luncheon** – Shavano Peak
(Sponsored by Merck Research Laboratories—Students only)
- 1:30 PM - 5:30 PM** **Wiley-Liss/SmithKline Beecham Symposium** – Red Cloud Peak
Skeletal Development
Chairpersons: Karen Augustine, SmithKline Beecham, King of Prussia, Pennsylvania and Gary Schoenwolf, Department of Neurobiology and Anatomy, University of Utah, Salt Lake City, Utah
- 1:00 PM - 1:10 PM INTRODUCTION
- 1:10 PM - 1:55 PM **S11** GASTRULATION AND AXIAL PATTERNING DURING EARLY EMBRYOGENESIS (S11)
Speaker: Gary C. Schoenwolf, University of Utah School of Medicine
- 1:55 PM - 2:40 PM **S12** MYOGENIC DETERMINATION AND ORPHOGENESIS
Speaker: Charles Ordahl, University of California at San Francisco
- 2:40 PM - 3:00 PM BREAK
- 3:00 PM - 3:45 PM **S13** Cellular and Genetic Events in the Formation of the Cartilaginous Skeleton
Speaker: Karen Augustine, SmithKline Beecham
- 3:45 PM - 4:30 PM **S14** Genetics and Cellular Biology of Chondrodystrophies
Speaker: Robert Seegmiller, Brigham Young University
- 6:30 PM - 7:30 PM** **Banquet Reception** – Shavano Peak Foyer
- 6:30 PM - 7:30 PM** **President's Circle Reception** – Crestone Terrace
(By invitation only)
- 7:30 PM - 10:30 PM** **Banquet** – Shavano/Torreys

SATURDAY, JULY 3, 1999

7:00 AM - 7:45 AM **Continental Breakfast** – Shavano Foyer

8:00 AM - 9:45 AM **Platform V: Teratogenic Mechanisms** – Red Cloud Peak
Chairpersons: Barbara Abbott, USEPA, Research Triangle Park, North Carolina and Terence Ozolins, Wyeth-Ayerst, Chazy, New York

- 8:00 AM - 8:15 AM **27** MODULATION OF FOLATE RECEPTOR EXPRESSION *IN VITRO* BY ANTISENSE OLIGONUCLEOTIDES PRODUCES NEURAL TUBE DEFECTS IN MOUSE EMBRYOS
D.K. Hansen, T.F. Grafton, and R.D. Streck, National Center for Toxicological Research, Jefferson, Arkansas
- 8:15 AM - 8:30 AM **28** INTERACTION BETWEEN DIETARY ADMINISTRATION OF HYPERVITAMINOSIS A AND A DEFICIENCY OF TRANSMETHYLATION PATHWAY CONSTITUENTS IN THE INDUCTION OF ANTERIOR NEURAL TUBE CLOSURE DEFECTS IN MOUSE WHOLE EMBRYO CULTURE
M. Collins¹, T. Arnhold², G. Mao¹, J. Santos-Guzman¹, S. Henning¹, C. Wagner³, H. Nau², and M. Swendseid¹, ¹UCLA, Los Angeles, California, ²Veterinary Medical University Hannover, Hannover, Germany and ³Vanderbilt University, Nashville, Tennessee
- 8:30 AM - 8:45 AM **29** TERATOGEN-INDUCED ACTIVATION OF MITOGEN-ACTIVATED PROTEIN KINASES (MAPKs) IN POSTIMPLANTATION MURINE EMBRYOS
K.L. Wilson, L.M. Cornel, and P.E. Mirkes, Department of Pediatrics, University of Washington, Seattle, Washington
- 8:45 AM - 9:00 AM **30** EVIDENCE FOR A MITOCHONDRIAL CELL DEATH PATHWAY ACTIVATED BY THE SELECTED TERATOGENS, HYPERTHERMIA, CYCLOPHOSPHAMIDE, AND STAUROSPORINE
S.A. Little and P.E. Mirkes, Department of Pediatrics, University of Washington, Seattle, Washington

SATURDAY, JULY 3, 1999 (continued)

- 9:00 AM - 9:15 AM **31** THE LOSS OF POLARIZING ACTIVITY AS A POTENTIAL MECHANISM OF TERATOGENIC ACTIVITY
S.M. Bell, C.M. Schreiner, and W.J. Scott, Children's Hospital Research Foundation, Cincinnati, Ohio
- 9:15 AM - 9:30 AM **32** ANGIOGENESIS PATHWAY GENES ARE DOWNREGULATED IN PLACENTAE OF ARNT-DEFICIENT EMBRYOS
B.D. Abbott, T.A. Gillig, and A.R. Buckalew, Repro. Tox. Div., NHEERL, USEPA, Research Triangle Park, North Carolina
- 9:30 AM - 9:45 AM **33** DEVELOPMENTAL TOXICITY OF AN ABAMECTIN IN MDR1A KNOCKOUT MICE
L.D. Wise, G.R. Lankas, D.R. Umbenhauer, T.R. Pippert, and D.M. Duchai, Merck Research Laboratories, West Point, Pennsylvania
- 10:00 AM - 11:30 AM** **Platform VI: Human Teratogenesis** – Red Cloud Peak
Chairpersons: Michael Cunningham, Central Embryology Laboratory, University of Washington, Seattle, Washington and Stephen Braddock, Department of Child Health, University of Missouri, Columbia, Missouri
- 10:00 AM - 10:15 AM **34** EFFECT OF ANTIEPILEPTIC DRUGS (AED) ON FETAL GROWTH: ASSESSMENT AT BIRTH
S. Choulika, E.A. Harvey, and L.B. Holmes, The Genetics and Teratology Unit, Pediatric Service, Massachusetts General Hospital, Boston, Massachusetts
- 10:15 AM - 10:30 AM **35** EPIDEMIOLOGIC ANALYSIS OF RISK FACTORS FOR AMNIOTIC BANDS
M.M. Werler, C. Louik, and A.A. Mitchell, Slone Epidemiology Unit, Boston University School of Public Health, Brookline, Massachusetts
- 10:30 AM - 10:45 AM **36** FIRST TRIMESTER ULTRASOUND ASSESSMENT FOLLOWING EXPOSURE TO POTENTIAL TERATOGENS: ANY BENEFIT?
K. Filkins¹ and P. Chowdry², ¹UCLA School of Medicine, Los Angeles, California and ²Valley Perinatal Medical Group, Tarzana, California
- 10:45 AM - 11:00 AM **37** BOSMA ARHINIA MICROPHTHALMIA SYNDROME
J.M. Graham, Jr., Medical Genetics Birth Defects Center, UCLA School of Medicine, Cedars-Sinai Medical Center, Los Angeles, California

SATURDAY, JULY 3, 1999 (continued)

- 11:00 AM - 11:15 AM **38** A STRUCTURAL VARIANT OF *HOXA1* ASSOCIATED WITH AUTISM
C.J. Stodgell, L.L. Knauber, J.L. Ingram, S.L. Hyman, D.A. Figlewicz, and P.M. Rodier, University of Rochester School of Medicine, Rochester, New York
- 11:15 AM - 11:30 AM **39** INHIBITION OF APOPTOSIS: THE PATHOGENESIS OF SYNDROMIC CRANIOSYNOSTOSIS?
Y.I. Yasinskaya, G.M. Dry, J.K. Williams, G. Erhlich, R. Preston, J.S. Gruss, R. Ellenbogen, and M.L. Cunningham, Children's Hospital & Regional Medical Center and University of Washington, Seattle, Washington
- 11:30 AM - 1:00 PM** **Wilson Luncheon** – Shavano Peak
- 1:00 PM - 4:30 PM** **Public Affairs Symposium** – Red Cloud Peak
Post-marketing Surveillance of New Drugs—Recognizing Teratogenic Effects in Humans
Chairpersons: Jan Friedman, Department of Medical Genetics, University of British Columbia, Vancouver, British Columbia and Anne Pastuszak, Hospital for Sick Children, Toronto, Ontario
- 1:00 PM - 1:10 PM INTRODUCTION
Speaker: Jan Friedman, University of British Columbia
- 1:10 PM - 1:40 PM **S15** THE PROBLEM WITH NEW DRUGS: A TERATOGEN RISK COUNSELLOR'S PERSPECTIVE
Beth Conover, University of Nebraska
- 1:40 PM - 2:10 PM **S16** THE VALUE AND LIMITATIONS OF USE-IN-PREGNANCY REGISTRIES FOR NEW DRUGS
Janet Cragan, CDC
- 2:10 PM - 2:40 PM **S17** USING TERATOGEN INFORMATION SERVICES TO STUDY OUTCOMES OF PREGNANCIES IN WHICH THE MOTHER WAS TREATED WITH A NEW DRUG
Anne Pastuszak, University of Toronto
- 2:40 PM - 3:10 PM BREAK
- 3:10 PM - 3:30 PM **S18** S.T.E.P.S. AND THE ACCUTANE PREGNANCY PREVENTION PROGRAM: MONITORING DRUGS WITH RECOGNIZED TERATOGENIC POTENTIAL
Carla van Bennekom, Boston University

SATURDAY, JULY 3, 1999 (continued)

- 3:30 PM - 4:00 PM **S19** POST-MARKETING SURVEILLANCE OF
NEWLY RELEASED DRUGS FOR
TERATOGENIC EFFECTS
Evelyn Rodriguez, FDA
- 4:00 PM - 4:30 PM GENERAL DISCUSSION
- 4:30 PM - 6:00 PM **Council II Meeting** – Torreys Peak 1

SUNDAY, JULY 4, 1999

- 7:00 AM - 8:00 AM **Continental Breakfast** – Torreys Peak Foyer
- 8:00 AM - 11:00 AM **MARTA/ MTA Workshop** – Torreys Peak 1
Reproductive and Developmental Toxicity Testing
Chairperson: Robert Parker, Primedica Argus Research Laboratories, Horsham, Pennsylvania
- 8:00 AM - 11:00 AM **Discussion Session** – Torreys Peak 2
Testing Strategies for Children's Health Effects
Chairperson: Carole Kimmel, USEPA, Washington, D.C.
- 8:00 AM - 12:00 PM **Discussion Session** – Torreys Peak 3
Teratogen-Induced Alterations in Developmental Pathways Leading to Dysmorphogenesis: What Do We Know and Where Do We Go From Here?
Chairpersons: Philip E. Mirkes, Department of Pediatrics, University of Washington, Seattle, Washington, and Jerry Heindel, NIEHS, Research Triangle Park, NC
- 8:00 AM - 8:10 AM WHAT DO WE KNOW?
Speaker: Philip E. Mirkes, University of Washington
- 8:10 AM - 8:30 AM CYCLOPAMINE, SHH SIGNALING, AND CNS
DYSMORPHOGENESIS
Speaker: John Incardona, University of Washington
- 8:30 AM - 8:50 AM TCE, CALCIUM-MEDIATED PATHWAYS AND
HEART DYSMORPHOGENESIS
Speaker: Ray Runyan, University of Arizona
- 8:50 AM - 9:10 AM 5-FU, NUCLEOTIDE POOLS, AND
CRANIOFACIAL/LIMB DYSMORPHOGENESIS
Speaker: Chris Lau, USEPA
- 9:10 AM - 9:30 AM TCDD, AHR/ARNT, AND PALATAL
DYSMORPHOGENESIS
Speaker: Barbara Abbott, USEPA

