

# ***Preliminary Information***

## **Why Attend the 2000 Teratology Society Meeting?**

The annual meeting provides attendees with comprehensive coverage of teratology—contributed papers and symposia present the latest research in our field. It is a way to make contact with others and with ourselves, a reminder of why we went into this field and of our goals to understand abnormal development and to learn how to prevent abnormal reproductive outcomes. The meeting and relaxed setting provide a once-a-year opportunity to network with old friends, mentors and students and give us a sounding board for our ideas. We have increased the number of exhibitors over the past couple of years, which broadens your ability to learn about products and services offered to enhance teratological research. The recipe is perfect for an enjoyable few days, after which we can return home with our batteries recharged, ready for another year in the lab or the clinic.

## **Scientific Program**

The Program Committee has put together a full meeting agenda with five major symposia, contributed papers and poster sessions. The symposia include: *Genetic Susceptibility to Teratogenesis*, sponsored by the March of Dimes and presented jointly by the Teratology Society and OTIS; *Folate Supplementation and Birth Defects*, presented jointly by the Teratology Society, NBTS and OTIS; *Angiogenesis*, sponsored by Wiley-Liss; *What Do We Know about the Reproductive & Developmental Risks of Herbal and Alternate Remedies?*, presented by the Public Affairs Committee; *Developmental Risks of Disinfectant By-Products*. This year's Warkany Lecturer is William J. Scott, Jr. The first presentation of the James G. Wilson Publication Award will be made on Monday, June 26. In addition to the more formal sessions, workshops will be presented on Wednesday, June 28 on developmental toxicokinetics, the interpretation of data on developmental neurotoxicity, and the Society's Code of Ethics. Due to the popularity of evening poster sessions, we will hold two of these sessions again at this year's meeting.

## **Teratology Society Education Course**

The Education Committee has put together a course that will focus on signal transduction and the role of selected cellular signaling pathways in morphogenesis. The course lectures will be presented in sequence focusing on signal transduction from the outside of the cell (extracellular matrix and cell adhesion molecules), to the plasma membrane (growth factor receptors and heterotrimeric G proteins), cytoplasm (protein kinases), and nucleus (nuclear receptors and transcription factors). Each lecturer will review a selected signal transduction pathway and its role in normal and abnormal development as demonstrated by the use of specific inhibitors of the pathway, genetic mutations and/or transgenic animal models. The course will begin on the afternoon of Saturday, June 24 and conclude on the morning of Sunday, June 25.

## Graduate Student and Post-Doc Career Event

### ***Sponsored by MARTA and MTA***

All graduate students and post-docs are invited to meet the officers and committee members of MARTA (Middle Atlantic Reproduction and Teratology Association) and MTA (Midwestern Teratology Association), share some refreshments, and discuss life after graduate school. Job search strategies, career options and career development in developmental and reproductive toxicology within industry, government, contract research organizations and other segments of our field. It is a good opportunity to make contacts, evaluate career options and begin to plan for the future.

Mark your calendars for Monday evening, June 26th from 6:00 PM to 7:30 PM. Bring your appetites and questions about your future!

## Three Penny Swing-Banquet Entertainment

### ***Sponsored by WIL Research***

Don't forget to pack your dancing shoes, because at this year's Banquet we're going to shake up The Breakers with music by Three Penny Swing, a 6-piece swing band led by teratologist/saxophonist Ed Carney. This sonic tour de force, with its mix of Y2K-compliant and traditional swing, rock-a-billy R&B, and Latin dance music, is sure to induce morphogenetic movements of even the most stoic teratologist. Whether you just nod your head, tap your toes, or conquer the dance floor, we know you'll be in for a good time!

In the meantime, a sneak peak of the band can be had at: [www.threepennyswing.com](http://www.threepennyswing.com).

## What Does the Meeting Registration Fee Cover?

The meeting registration fee covers a number of food and beverage functions, as well as the Society's administrative costs for the meeting. The functions include Continental Breakfast each morning, the Banquet, the Wilson Awards Luncheon, and coffee and refreshment breaks. We will also have a President's Reception and a reception during each of the poster sessions; these are being sponsored. The registration fee is comparable to past years.

The deadline for advanced registration is May 24, 2000. After that date, a late fee of \$40 will apply.

The Registration Desk will be open at the meeting from Saturday, June 24–Tuesday, June 27. Please see the Program Agenda on pages 6–7 for specific times.

## Sponsorship Opportunities

Event sponsorship opportunities are available for the 2000 Teratology Society Annual Meeting. Events to be sponsored include:

- Past Presidents' Luncheon
- Banquet Reception
- Banquet
- Wilson Awards Luncheon

## Meeting Site

The Breakers earned the *Mobil Travel Guide* Five Star Award once again– just two years after reclaiming the AAA five diamond Award (only 16 properties in the U.S. have both).

- **Climate and Suggested Dress**– Palm Beach enjoys a year-round average temperature in the low 80s. In the daytime, sportswear and casual attire are worn throughout the resort. Collared sport shirts are preferred for gentlemen. In the evening, jackets are recommended for gentlemen only in The Florentine. Proper golf and tennis attire and sport shoes are required.
- **Shopping**– Recognizing that shopping tops the list of preferred activities for vacationers, The Breakers has created an elegant on-property Villa filled with exquisite boutiques. This collection of beautifully designed shops features a unique selection of fine glass, clothing, jewelry, foods, wines and gifts.
- **Dining and Entertainment**– The Breakers offers seven restaurants and four bars; each having a unique menu and atmosphere. Enjoy classic European cuisine in The Florentine or relax on the beach at the Reef Bar overlooking the beautiful Atlantic Ocean.
- **Transportation**– Limousines, sedans, vans and busses are available for all of your transportation needs; reservations are suggested.
- **Guest Business Services**– The Guest Business Services offers personal computers, laptops, printers, and copy and facsimile machines for rental with advance notification.
- **Concierge**– For information about area attractions or for assistance with advance reservations call 1-800-752-8285.

## INSTRUCTIONS FOR PRESENTATIONS AND POSTERS

### Oral Presentations

Each platform paper, except for those presented in the symposia, will be allowed 15 minutes (12 minutes for presentations and 3 minutes for discussion). The time schedule will be strictly followed. Projectors for 35mm slides will be available in each meeting room. Please keep slides simple and uncluttered.

A good rule of thumb is, if you cannot read your slide without magnification, those in the middle and rear of the room will be unable to read it when presented. One concept per slide and a maximum rate of one slide per minute are also good rules to follow for effective presentations.

### Poster Presentations

Poster material should be organized within a 4 feet x 6 feet area. The top of your poster board should contain the following information, with letters at least ¾ inches high:

1. Your Poster Number
2. Title
3. Authors
4. Affiliations

A copy of the abstract should be posted towards the upper-left corner and a set of conclusions toward the lower-right corner of your poster. These should be printed in letters about ¼ inch high. Poster information should be legible from a distance of at least 3 to 4 feet. Material, including line drawings, should be clearly presented and may be computer generated (laser printer is preferred). PLEASE BRING YOUR OWN PUSH PINS. Poster sessions and times for setup and removal are indicated in the program.

Posters should be on display from 11:00 AM– 10:00 PM on Monday, June 26, or 11:00 AM– 10:00 PM on Tuesday, June 27. Those presenting should plan to be present on Monday or Tuesday evenings from 7:30 PM–10:00 PM. All posters should be removed immediately following the poster session at which you presented (10:00 PM).

# *Program Agenda*

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## **Saturday, June 24**

11:00 AM–5:00 PM

Registration

12:00 PM–6:00 PM

Council IA Meeting

1:00 PM–5:15 PM

Education Course:

***Signal Transduction: Pathways to Growth, Differentiation, and Morphogenesis***

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## **Sunday, June 25**

7:30 AM–5:00 PM

Registration

7:00 AM–2:00 PM

Council IB Meeting

8:15 AM–12:00 NOON

Education Course (*Continued from Saturday*)

1:30 PM–5:00 PM

March of Dimes Symposium:

***Genetic Susceptibility to Teratogenesis***

Chairpersons: Mike Collins and

Michael Katz

(Supported in part by March of Dimes Birth Defects Foundation Grant No.4-FY96-8960)

6:00 PM–7:30 PM

President's Reception (*Sponsored by Elsevier*)

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## Monday, June 26

7:00 AM–7:45 AM

Continental Breakfast

7:30 AM–5:00 PM

Registration

7:45 AM–8:00 AM

President's Welcome and Introduction:

George P. Daston

8:00 AM–8:45 AM

Warkany Lecture:

***Alteration of Pattern Formation as a Mechanism of Teratogenesis***

William J. Scott, Jr., University of Cincinnati

9:00 AM–12:10 PM

Wiley-Liss Symposium:

***Angiogenesis***

Chairpersons: William Slikker, Jr. and Karen Augustine

Sponsored by: John Wiley & Sons, Inc.

12:00 NOON–1:00 PM

Past Presidents' Luncheon (*By Invitation Only*)

1:00 PM–1:45 PM

James G. Wilson Publication Award

1:45 PM–4:30 PM

Student Platform I & II Session

4:00 PM–10:00 PM

Exhibits Open

4:30 PM–6:00 PM

Issues Forum

6:00 PM–7:30 PM

MARTA/MTA Student Career Event

Sponsored by: Pfizer, Inc.

7:30 PM–10:00 PM

Poster Session

Sponsored by: Covance Laboratories, Quintiles, SNLB, Springborn Laboratories, Inc. and TherImmune Research Corporation

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## Tuesday, June 27

7:00 AM–7:45 AM

Continental Breakfast

7:00 AM–8:00 AM

Exhibitors' Breakfast (*By Invitation Only*)

7:30 AM–5:00 PM

Registration

8:30 AM–11:45 AM

NBTS/OTIS/Teratology Society Symposium:

***Folate Supplementation and Birth Defects***

Chairpersons: Deborah Hansen and Elizabeth Yetley

8:45 AM–12:00 NOON

***Developmental Risks of Disinfectant By-Products Symposium***

Chairperson: E. Sidney Hunter

1:00 PM–4:00 PM

OTIS/Teratology Platform Session

1:00 PM–2:30 PM

Platform Session:

***Hazard/Risk Assessment I***

2:30 PM–3:45 PM

Platform Session:

***Hazard/Risk Assessment II***

4:30 PM–6:00 PM

Business Meeting

7:30 PM–10:00 PM

Poster Session

Sponsored by: Covance Laboratories, Quintiles, SNLB, Springborn Laboratories, Inc. and TherImmune Research Corporation

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## Wednesday, June 28

7:00 AM–7:45 AM

Continental Breakfast

7:30 AM–5:00 PM

Registration

8:30 AM–12:00 NOON

Public Affairs Symposium:

***What Do We Know About the Reproductive & Developmental Risks of Herbal and Alternate Remedies?***

Chairpersons: Kenneth Jones and Harpal Buttar

10:00 AM–10:30 AM

Warkany Tea

1:00 PM–4:00 PM

Workshop I:

***Developmental Toxicokinetics: Lessons for Product Development***

Chairpersons: Rakesh Dixit and L. David Wise

1:00 PM–4:00 PM

Workshop II:

***Interpretation of Data on Developmental Neurotoxicity***

Chairpersons: Carole Kimmel and Deborah Rice

1:00 PM–4:00 PM

Workshop III:

***Teratology Society's Ethics Code,  
Certification, Disclaimer Guidelines and Expertise Recognition***

Chairpersons: Robert L. Brent, Narsingh Agnish, and Anthony R. Scialli

4:00 PM–5:00 PM

Historical Control Database Demonstration

4:00 PM–6:00 PM

Council II Meeting

6:30 PM–7:30 PM

Banquet Reception

6:30 PM–7:30 PM

President's Reception (*By Invitation Only*)

7:30 PM–10:30 PM

Banquet

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## Thursday, June 29

7:00 AM–7:45 AM

Continental Breakfast

7:30 AM–5:00 PM

Registration

8:30 AM–10:00 AM

Platform Session:

***Clinical/Epidemiology I***

8:45 AM–10:15 AM

Platform Session:

***Modes of Action I***

10:00 AM–11:45 AM

Platform Session:

***Clinical Epidemiology II***

10:15 AM–11:30 AM

Platform Session:

***Modes of Action II***

12:00 NOON–1:00 PM

Wilson Awards Lunch

# Continuing Education

## Signal Transduction: Pathways to Growth, Differentiation, and Morphogenesis

This year's Continuing Education Course will focus on signal transduction and the role of selected cellular signaling pathways in morphogenesis. The course lectures will be presented in sequence focusing on signal transduction from the outside of the cell (extracellular matrix and cell adhesion molecules), to the plasma membrane (growth factor receptors and heterotrimeric G proteins), cytoplasm (protein kinases), and nucleus (nuclear receptors and transcription factors). Each lecturer will review a selected signal transduction pathway and its role in normal and abnormal development as demonstrated by the use of specific inhibitors of the pathway, genetic mutations, and/or animal models such as knockouts.

In addition to the cell surface to nuclear review of cellular signaling outlined above, three signal transduction pathways known to play significant roles in development have been selected for review and discussion. The three pathways are vascular endothelial growth factor mediated signaling, the endothelin receptor mediated pathway, and peroxisome proliferator-activated receptor mediated signaling. This year's course will provide an overview of the field of signal transduction and the highlight importance of this field of research for Teratologists.

## COURSE SCHEDULE

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### Saturday, June 24

1:00 PM–1:05 PM

Welcome – George Daston, President, Teratology Society

1:05 PM–1:10 PM

Introduction – JoLynda Jones, Bristol-Myers Squibb

1:15 PM–2:00 PM

***Cell Adhesion Molecules and Signal Transduction***

Speaker: Gerald Grunwald, Thomas Jefferson University

2:00 PM–2:45 PM

***Transforming Growth Factors-b: Important Mediators of Mammalian Development***

Speaker: Kathy Flanders, National Cancer Institute

2:45 PM–3:30 PM

***G Proteins: Master Switches in Cellular Signal Transduction***

Speaker: Cynthia Ward, University of Pennsylvania

3:30 PM–3:45 PM

Coffee Break

3:45 PM–4:30 PM

***Protein Kinase C***

Speaker: E. Sidney Hunter, US Environmental Protection Agency

## COURSE SCHEDULE - Continued

4:40 PM–5:15 PM

***Retinoid Receptors***

Speaker: Devendra Kochhar, Thomas Jefferson University

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### Sunday, June 25

7:30 AM–8:15 AM

Continental Breakfast

8:15 AM–9:00 AM

***Signal Transduction Pathways Regulating Cell Death (Apoptosis) or Cell Survival***

Speaker: Philip E. Mirkes, University of Washington

9:00 AM–9:45 AM

***Vasculogenesis and Angiogenesis: A Critical Gene Pathway for Embryonic Development***

Speaker: Barbara Abbott, US Environmental Protection Agency

9:45 AM–10:15 AM

Coffee Break

10:15 AM–11:00 AM

***Endothelin***

Speaker: Deepak Srivastava, University of Texas Southwestern Medical Center

11:00 AM–11:45 AM

***Roles of The Peroxisome Proliferator-Activated Receptors (PPARs) in Development***

Speaker: Jeffrey M. Peters, Pennsylvania State University

11:45 AM–12:00 NOON

Discussion/Adjournment