

Bellevue WASHINGTON

Abstract Submission

(Deadline: February 15, 2014)

You are encouraged to participate in the meeting by presenting your research as a poster or platform talk. Submit your abstract through the Teratology Society website at www.teratology.org. Submission is quick and easy. Abstracts must be submitted by **February 15, 2014**. Short talks will be selected from abstract submission files for presentation in one of six different Platform Sessions held throughout the meeting. To be considered for an opportunity to speak in a Platform Session, you must select one of the platform presentation options as your presentation preference. The Program Committee will assign abstracts in March, and you will be notified by April if you have been selected to give a platform talk or to present a poster.

Registration Information

You may register online through the Teratology Society website at www.teratology.org. You will find categories tailored with your participation in mind. Visit website for complete details.

Hyatt Regency Bellevue and Bellevue, Washington

Step into the sophisticated Hyatt Regency Bellevue on Seattle's desirable Eastside. Stroll through connecting sky bridges and discover more than 250 shops, 45 restaurants and lounges, and plenty of entertainment options harbored inside this chic urban streetscape. The hotel is just 20 minutes from Seattle-Tacoma International Airport and nine miles east of downtown Seattle, which can be conveniently reached by express buses (\$2 fare).

Key Deadlines:

Abstract Submission Deadline: February 15, 2014

Student/Postdoctoral Travel Award Application Deadline: February 15, 2014

Early Bird Registration Deadline: February 22, 2014

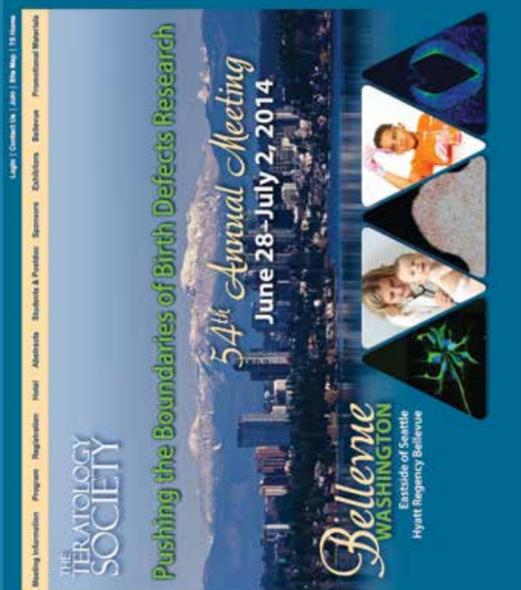
Room Sharing Program Deadline: May 12, 2014

Advance Registration Deadline: May 15, 2014

Hotel Reservation Deadline: June 5, 2014



View Meeting Details
www.teratology.org/meetings/2014



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EST. 1960

1821 Michael Faraday Drive
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THE
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Pushing the Boundaries of Birth Defects Research



54th Annual Meeting

June 28–July 2, 2014
Eastside of Seattle
Hyatt Regency Bellevue

Bellevue
WASHINGTON

President:
Elaine Z. Francis

Program Chair:
Mary Alice Smith

www.teratology.org

Why Attend the 2014 Teratology Society Annual Meeting?

Birth defects and developmentally-mediated disorders constitute a major public health concern in the world today. Human development can be affected not only by drugs and chemicals but also by diet, genetics, maternal health, and socioeconomic factors. Understanding and protecting against potential hazards to developing embryos, fetuses, and children requires advanced scientific knowledge from diverse and novel fields such as cell and molecular biology, developmental biology and toxicology, computational modeling, genetics, and epidemiology. The science is put into practice in the areas of prenatal medicine, pediatrics, obstetrics, neonatology, medical genetics, counseling, product safety, risk assessment, and governmental regulations.

- The Annual Meeting provides the opportunity to learn about the latest scientific research in birth defects, diseases of developmental origin, and cutting-edge technologies.
- The meeting promotes and expresses our scientific diversity as a society of fellow clinicians, scientists, and science policy regulators from academic, industrial, and government sectors.
- Attendees can indulge in discussions from philosophical to practical with established experts in the field, new researchers, and students.
- The Annual Meeting provides the opportunity to promote our shared vision and scientific identity as researchers focused on the causes, manifestations, intervention, and prevention of birth defects and disorders of developmental origin.
- The Annual Meeting provides a place and time to catch up with colleagues, make new friends, and network.

The theme of the 2014 meeting is “**Pushing the Boundaries of Birth Defects Research**” and will highlight that preventing and treating birth defects and developmental disabilities is dependent on a) developing and integrating the latest information and technology into research, and b) recruiting, training, and mentoring the next generation of birth defects researchers.

The scientific program provides numerous opportunities for established scientists and trainees to understand the importance of the integration of basic, regulatory, clinical, and epidemiological information with broad appeal, as well as a focus on newer technologies and information derived from the application of systems-based approaches. Students and postdoctoral fellows have a special appreciation for the multiple opportunities to interact with scientific leaders in attendance.

If your research and/or daily activities involve any of the items below, you should come to Bellevue.

- Researchers whose cutting-edge science can be applied to birth defects research such as research with stem cells, adverse outcome pathways, computational toxicology, genomics/genetics, mechanistic toxicology, proteomics, or metabolomics.
- Clinicians involved in early diagnosis of birth defects, technologies to identify birth defects or adverse pregnancy outcomes, or identification of chemicals and pathogens that affect pregnancy and development.
- Epidemiologists working to recognize developmental disabilities.
- Regulators responsible for interpreting and managing regulations based on reproductive and developmental endpoints.
- Developmental and reproductive toxicologists who develop and/or test pharmaceuticals or chemicals for development and reproductive effects.
- Pharmacologists who develop and design new drugs and chemicals for use during pregnancy and early childhood.
- Educators who teach developmental and reproductive biology/toxicology, serve as mentors to students, or develop training materials for scientists, clinicians, or pregnant women.
- Students with a desire to learn more in developmental or reproductive toxicology and diseases of developmental origin and who want a career in government, academia, or industry in the field of birth defects research.

Pushing the Boundaries of Birth Defects Research

Conference Overview

We invite you to experience the friendly and warm culture of the Teratology Society in Bellevue. Take advantage of the opportunity to present your research during the meeting by submitting an abstract for poster or platform presentation.

The **education courses**, which require separate registration, will focus on recent advances in the field of developmental biology including topics on the roles of the microbiome, cilia, and nutrition during development; address mechanisms of abnormal development such as epigenetics, oxidative stress and cellular signal transduction pathways; and how computational biology or bioinformatics can be used to prioritize chemicals for further testing, to identify reproductive and developmental outcomes of concern, and to analyze and understand gene regulatory networks.

The **scientific sessions** address the newest concepts in the field and are likely to generate lively interaction. The symposia demonstrate how we are "Pushing the Boundaries of Birth Defects Research" in developing the latest technologies, conducting cutting-edge research, and training the next generation of scientists to improve our ability to assess, treat, prevent, and communicate information regarding birth defects and other developmentally-mediated disorders. Sessions include symposia to understand underlying mechanisms of developmentally-mediated disorders, aid in their identification, and assist in early diagnosis. Session topics and questions addressed will include:

- Epigenetics and Birth Defects—Can epigenetic changes result in adverse developmental outcomes?
- Early Diagnosis of Birth Defects—Can first trimester ultrasound and fetal echocardiography, second trimester fetal MRI, and epidermal electronics be used to monitor and detect deficits in fetuses and neonates?
- Thrombosis during Pregnancy—How can thrombosis during pregnancy be managed to optimize the beneficial effects to the mother and fetus while reducing potential adverse effects to both?
- Testicular Dysgenesis Syndrome (TDS)—Do environmental exposures contribute to TDS, and how can mechanistic studies help in understanding TDS?

Other symposia will highlight the latest theories and evidence on:

- Reports from the National Children's Study—What have we learned from the NCS concerning the effects of environmental exposures during pregnancy?
- Survey of the Value of Rabbit Developmental Toxicity Data—Does rabbit developmental toxicity data aid in the risk assessment of pharmaceuticals?
- From Fleas to Fish and Beyond—What new alternative assays are being used to predict developmental toxicity?

New this year:

- A Student Innovative Design Competition for developing technologies to identify, treat, or prevent birth defects or developmental disorders.

Plan to stay through Wednesday to enjoy the Banquet and to take advantage of all of the scientific interaction. Visit the meeting website to view the detailed agenda and information about the meeting.



Education Courses:

- **Agnish Fellowship Lecture** (*J. M. DeSesso*)
- **Frontiers in Developmental Biology** (*K. M. Aagaard, M. Muenke, J. Tabler, C. L. Keen*)
- **Mechanisms of Abnormal Embryonic Development** (*P. Wells, B. F. Hales, C. Kapron, M. D. Collins*)
- **Sunrise Mini Course: Applications of Computational Biology in the Study of Birth Defects** (*G. P. Daston, T. B. Knudsen*)

Workshop:

- **Student and Postdoctoral Workshop: Building a Successful Career in Developmental and Reproductive Toxicology** (*C. P. Curran, G. P. Daston, M. Vekemans, M. A. Smith, N. Sipes, J. H. Charlap, E. W. Carney*)

Symposia:

- **ILSI HESI Symposium: Cross-Industry Data Survey of the Value of Rabbit Developmental Toxicity Data in the Risk Assessment for Pharmaceuticals** (*J. Stewart, A. H. Piersma, P. Theunissen, A. M. Hoberman, S. Beken*)
- **TS/NBTS Joint Symposium: National Children's Study** (*S. Hirschfeld, W. Stone, E. M. Faustman, K. M. Aagaard, R. K. Miller, S. A. Beresford, M. N. Smith*)
- **March of Dimes Symposium: Advances in Early Diagnosis of Birth Defects and Adverse Perinatal Outcomes** (*T. P. Coleman, W. F. Rayburn, L. L. Simpson, J. A. Jolley*)
- **TS/NBTS Joint Symposium: Epigenetics** (*M. K. Skinner, A. S. Yoo, R. C. Miranda*)
- **Testicular Dysgenesis Syndrome Symposium** (*M. J. Cohn, J. S. Barthold, S. L. Carmichael, M. C. K. Leung, E. M. Faustman*)
- **Grant Officers Symposium** (*Representatives from the Eunice Kennedy Shriver National Institute of Child Health and Human Development, March of Dimes, National Institute of Environmental Health Sciences, US Environmental Protection Agency, and US Food and Drug Administration*)
- **Wiley-Blackwell Symposium: From Fleas to Fish and Beyond: Advances in Alternative Assays to Predict Developmental Toxicity** (*E. S. Hunter III, J. M. Gohlke, J. Freedman, R. Tanguay*)
- **Public Affairs Committee Symposium: Thrombosis during Pregnancy: Risks, Prevention, and Treatment for Mother and Fetus** (*L. Soule, E. Struble, A. H. James, A. Ornoy, B. A. Konkle, M. Paidas*)

Special Lectures and Awards:

- **Josef Warkany Lecture** (*T. B. Knudsen*)
- **F. Clarke Fraser New Investigator Award** (*J. M. Gohlke*)
- **James G. Wilson Publication Award**
- **Special Lecture: Systems Medicine and Proactive P4 Medicine: A Revolution in Healthcare** (*L. Hood*)
- **TS/NBTS Joint Elsevier Distinguished Lecturer: Epigenetic Mechanisms in Intellectual Developmental Disabilities** (*J. D. Sweatt*)
- **TS/NBTS Joint Special Lecture: Fetal Alcohol Syndrome** (*K. L. Jones*)
- **TS/ETS Exchange Lecture: Is Lack of Mandatory Folic Acid Fortification Public Health Malpractice?** (*M. L. Whiteford, G. P. Oakley Jr.*)
- **Robert L. Brent Lecture: Teratogen Update** (*S. A. Rasmussen*)
- **Distinguished Service Award** (*C. A. Kimmel*)

Visit the meeting website to view the detailed agenda and information about the meeting.

www.teratology.org

Student and Postdoctoral Fellow Opportunities

Trainees have multiple opportunities to interact with established members/scientists in professional and casual settings during the meeting. It is easy to engage leaders in the field and project officers from funding agencies in discussions to learn more about them and the science. Be sure to take advantage of the unique opportunities that exist at the Annual Meeting.

The Student/Postdoctoral Fellow Platform Session will be held Sunday, June 29. The two best presentations in this session will be selected to receive a Wilson Presentation Award of \$500. Plan to attend the TS/MARTA Student Career event on Monday evening for dinner, conversation, and networking. This event is open to all students and postdoctoral fellows attending the Teratology Society and Neurobehavioral Teratology Society (NBTS) annual meetings. Don't miss this great networking opportunity.

Travel awards are available to assist graduate students and postdoctoral fellows attending the Teratology Society Annual Meeting. Students and postdoctoral fellows who present an abstract are eligible to receive a \$500 travel award. These awards are designed to help defray a portion of the travel costs to the meeting. Presentation awards are also provided. Visit the Teratology Society website for complete information on how to apply for a travel award and to learn about other award and networking opportunities.

Dine with a Teratology Ambassador

The Teratology Society is pleased to offer the opportunity during the meeting for small groups of students and postdoctoral fellows to meet with established members of the Society for informal discussion. Groups of approximately four students/postdoctoral fellows will be paired with an Ambassador. Visit the website for more information about participating.

NEW Student Design Competition

Do you have a solution to a reproductive/perinatal health problem? Whether you are a bioengineering student or a teratology student, there is a great new opportunity in the Design Competition for you.

This competition invites bioengineering students or students in related fields to imagine novel solutions to technical problems in the broad field of teratology—encompassing anything from a new measurement technique for exposure to environmental contaminants during pregnancy to a wireless method for assessing fetal health.

The competition is open to undergraduate and graduate students, with a faculty mentor. Each student who submits a qualifying proposal will be given the opportunity to showcase their idea and demonstrate its potential application to the several hundred scientists attending the Teratology Society Annual Meeting in Bellevue. Prizes for the most creative ideas will be awarded. In addition, students and mentors who enter the competition will be provided complimentary one-day registration for the meeting.

Proposal submission for this competition is simple; instructions are available on the Society website.

We look forward to your participation in the first (annual) "Bioengineering Solutions to Reproductive/Perinatal Health Problems" Design Competition.

June 28–July 2, 2014

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Accommodations

You are encouraged to make plans early to attend the meeting at the Hyatt Regency Bellevue in Bellevue, Washington. The conference rate is \$179 for single/double occupancy. Based on availability, the meeting rate is available three days prior and three days past the meeting. The conference rate includes complimentary access to the fitness center. Limited rooms are available for government employees and students. You must reserve your room prior to June 5, 2014. All rates are subject to applicable taxes, currently 14.4%. Reservations can be made by calling toll free 800.633.7313 or direct 425.462.1234 and telling the reservation office that you are a Teratology Society meeting participant or by reserving a room online through the Annual Meeting website.

Staying at the conference hotel is more than just a convenience; it is important to the Society as the special room rates have been secured based upon group participation.

Wheelchair-accessible rooms are available. Persons with special needs should inform the hotel when making reservations. Check-in time is 4:00 pm and check-out time is 12:00 noon.

Room Sharing Program

This program is designed to help attendees reduce their cost of attending the Annual Meeting. The Room Sharing Program is open to all Teratology Society Annual Meeting attendees. Requests to share a room should be submitted by May 12. Individuals using this service will be provided with a list of names with similar housing requirements. Individuals are responsible for contacting the potential roommate and making the hotel reservation. Participation in this program does not guarantee the discounted room rate. Attendees must make their hotel reservations early to secure the discounted rate. The Teratology Society will not be responsible for securing housing for participants in the Room Sharing Program.

For updated information, visit www.teratology.org/meetings/2014.



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