



2013

INTERNATIONAL CONFERENCE

11TH ANNUAL MEETING

June 12 -15, 2013

Boston, MA USA

ISSCR



INTERNATIONAL SOCIETY
FOR STEM CELL RESEARCH

Co-Sponsored by

HSCI

HARVARD STEM CELL
INSTITUTE®

Join Us On the Cutting Edge



This year has already been an eventful one for the ISSCR and will culminate at our 11th Annual Meeting in Boston, June 12 – 15, 2013. The ISSCR annual meeting has become the premier event for stem cell researchers from around the world, providing us with the opportunity to make and renew personal connections. There will be plenty of opportunities to do so at poster sessions and at networking and social events built into the schedule. This is an essential part of our meeting: helping to enhance and strengthen our stem cell community. I encourage you to make your plans now to join us in Boston.

In addition to the annual meeting, the ISSCR offers our community other avenues of education and interaction, such as through *ISSCR Connect*, our online educational portal, as well as through respected journals. I am especially pleased to have recently announced the launch of ISSCR's new online, open-access journal, *Stem Cell Reports*, published by Cell Press. Through these and other tools, the ISSCR continues to support and advance stem cell research and the regenerative medicine field.

If you haven't already, I hope you will join our community by becoming a member of the ISSCR.

I look forward to being with you in Boston in June.



Shinya Yamanaka, MD, PhD
ISSCR President

Plan to Attend



The 11th Annual Meeting of the International Society for Stem Cell Research will be an exciting four days, June 12-15, in Boston. The Program Committee has been hard at work to create a dynamic program and bring you the best speakers from around the world. Attending this meeting is essential to stay current in the rapidly changing field of stem cell science.

This year's Plenary sessions will address the top science in topics covering: **Regeneration, Engraftment and Migration, Disease Modeling, Cell and Gene therapy, Stem Cells and Fate Control, Genomics and Epigenomics of Stem Cells and Making Tissues and Organs.** In the 20 concurrent sessions you'll hear from high quality speakers in a wide array of more focused topics. We've chosen speakers who are innovators contributing to our field from academia, industry and government. There will be opportunities to learn from researchers at every stage of their career at our Plenary sessions, Concurrent sessions and Poster sessions.

All the components of the meeting are conveniently located within the Boston Convention and Exhibition Center with plenty of time and space for networking. Your meeting experience will be further enriched by the vibrant exhibition hall with the latest research products and services.

Join us — abstract submission and registration are open at www.isscr.org/2013.

We look forward to welcoming you in Boston,



George Q. Daley, MD, PhD
ISSCR Program Chair

Reasons to Attend the ISSCR Annual Meeting

- Hear the biggest names in stem cell science
- See the most promising new research
- Connect with other labs from around the world
- Network at lunches, social events, breaks and more
- Visit the exhibit hall showcasing the latest technologies and services



Share Your Work

Plan today to submit your work for consideration as an oral or a poster presentation. Abstract submission is open online December 6, 2012 through February 7, 2013 at www.isscr.org/2013.

Oral: More than 75 abstracts will be selected for **oral presentations**. After review, the most compelling abstracts will be selected for a 15 minute talk.

Poster: Posters presentations will take place in one of three evening sessions. In addition, ninety poster presenters will be chosen to preview their work in **poster teasers** during the Plenary and Concurrent sessions.

Be Recognized

Travel Awards: Top poster submitters who must travel will be considered for travel awards. Apply at the time of submission. The travel awards include complimentary meeting registration and a stipend to defray travel costs.

Poster Awards: All presented posters will be judged by our expert panel. Six winners will be awarded a cash stipend, complimentary registration to the 2014 Annual meeting and a one-year subscription to both *Cell Stem Cell* and *Current Protocols in Stem Cell Research*.

Create a Forum

Special Interest Group Meet-Ups: Develop an informal session to meet and discuss research topics of mutual interest. Start the conversation online on *ISSCR Connect* and continue in person at the Annual Meeting. Several hubs have been set aside on the exhibition hall floor for these sessions to take place during the refreshment breaks. Find out more at www.isscr.org/2013.

Focus Sessions: Non-profit groups can organize three hour satellite events to be held on the morning of Wednesday, the 12th of June. Learn more about how to develop a session and download the "Focus Session Submission Guidelines" at www.isscr.org/2013.



Presidential Symposium Speakers



Keynote Speaker
Eric Lander, PhD
Harvard University, USA



James A. Thomson, VMD, PhD
Morgridge Institute for Research, USA



Douglas A. Melton, PhD
Harvard University, USA



Edith Heard, PhD
INSERM, France



Richard A. Young, PhD
Whitehead Institute for BioMedical Research, USA

Plenary Topics

Presidential Symposium
Cell and Gene Therapy
Disease Modeling
Genomics and Epigenomics of Stem Cells
Making Tissues and Organs
Regeneration, Engraftment and Migration
Stem Cells and Fate Control

Concurrent Session Topics

Cell Fate Conversion
Chemical Control of Stem Cell Behavior
Epigenetics of Stem
Chromatin Regulation in Stem
Artificial Gametes
Hematopoietic Stem Cells
Immunology and Stem Cells
Modeling Human Disease
Neural Stem Cells
New Technologies for Controlling and Observing Stem Cell Behavior

Pluripotent Stem Cells I
Pluripotent Stem Cells II
Self Renewal Mechanisms
Stem Cell Aging and Metabolism
Stem Cell Signaling and Niches
Stem Cell Therapies
Stem Cells and Cancer
Stem Cells and Tissue
Stem Cells in Organ Development
Stem Cells, Injury and Regeneration

Keynote Address

Eric Lander, Broad Institute, USA

Anne McLaren Memorial Lecturer

Elaine Fuchs, Rockefeller University, USA

Ernest McCulloch Memorial Lecturer

George Q. Daley,
Children's Hospital Boston, USA

Presidential Symposium Speakers

James Thomson,
Morgridge Institute for Research, USA

Edith Heard, Institut Curie, France

Douglas A. Melton, Harvard University, USA

Richard A. Young, Whitehead Institute for Biomedical Research, USA

2013 Featured Speakers



Anne McLaren Memorial Lecture

Elaine Fuchs, PhD
Rockefeller University, USA

Elaine Fuchs focuses her current research on the molecular mechanisms that underlie how multipotent stem cells of the skin are able to both self-renew long-term and to maintain and regenerate the

epidermis, sebaceous glands and hair follicles. Dr. Fuchs is the Rebecca C. Lancefield Professor in Mammalian Cell Biology and Development at The Rockefeller University. She is also an Investigator, Howard Hughes Medical Institute.



Ernest McCulloch Memorial Lecture

George Q. Daley, MD, PhD
Children's Hospital Boston, USA

George Daley seeks insights into hematopoietic differentiation, somatic cell reprogramming to model human blood diseases, and mechanisms of oncogenesis. Dr. Daley is the Samuel E. Lux IV Professor

of Hematology and Director of the Stem Cell Transplantation Program at Boston Children's Hospital and Professor of Biological Chemistry and Molecular Pharmacology and Pediatrics at Harvard Medical School.

Confirmed Speakers

Timothy Bertram, D.V.M., PhD
Tengion Inc.

Alessandra Biffi, MD, PhD
Ospedale San Raffaele

Mina J. Bissell, PhD
EOL Berkeley National Lab

Nicholas M. Boulis, MD
The Emory Clinic

Ashleigh S Boyd, DPhil
Boston University

James E. Bradner, MD
Dana-Farber Cancer Institute

Oliver Bruestle, MD
University of Bonn Medical Center

Benoit Bruneau, PhD
Gladstone Institute of Cardiovascular Disease

Anne Brunet, PhD
Stanford University School of Medicine

Elena Cattaneo, PhD
University of Milano

Ian Chambers, PhD
University of Edinburgh

Corey S. Cutler, MD, MPH, FRCPC
Dana-Farber Cancer Institute

Karl Deisseroth, MD, PhD
Stanford University/HHMI

Fiona Doetsch, PhD
Columbia University

Lisa M. Ellerby, PhD
Bock Institute for Age Research

Sarah Ferber, PhD
Sheba Medical Center & Tel-Aviv University

Paul S. Frenette, MD
Gottesman Institute for Stem Cell and Regenerative Medicine, Albert Einstein College of Medicine

Michaela Frye, PhD
Wellcome Trust, Centre for Stem Cell Research

Lawrence S.B. Goldstein, PhD
University of California San Diego

Jacob Hanna, PhD
Weizmann Institute of Science

Haruhisa Inoue, MD PhD
Center for IPS Cell Research & Application

Nancy King, JD
Wake Forest University Health Sciences

Jinsong Li, PhD
Institute of Biochemistry & Cell Biology SIBS CAS

Jeanne F. Loring, PhD
The Scripps Research Institute

Stephen Minger, PhD
GE Healthcare

Malin Parmar, PhD
Lund University

Graziella Pellegrini, PhD
University of Modena E Reggio Emilia

Josef Martin Penninger, MD
Institute of Molecular Biotechnology (IMBA)

Tannishtha Reya, BA PhD
University of California San Diego School of Medicine

David Sabatini, MD, PhD
Whitehead Institute

Mitunori Saitou, MD PhD
Kyoto University, Graduate School of Medicine

Timm T. Schroeder, PhD
Helmholtz Center Munich

Henrik Semb, PhD
Danish Stem Cell Center

Molly S. Shoichet, PhD, BSc, MASc
University of Toronto

Andras Simon, PhD
Karolinska Institute

Andres Trevino
Children's Hospital Trust

Ludovic Vallier, PhD
University of Cambridge

David A. Williams, MD
Children's Hospital Boston

Joseph C. Wu, MD, PhD
Stanford University School of Medicine

Rongwen Xi, PhD
National Institute of Biological Sciences

Kenneth S. Zaret, PhD
Univ. Pennsylvania School of Medicine

The ISSCR thanks its 2013 sponsors and exhibitors who help make the meeting possible.



Albert Einstein College of Medicine
 BioLamina
 Ruth L. and David S. Gottesman
 Institute for Stem Cell Biology and
 Regenerative Medicine
 StemCells Inc

The Exhibit Hall is the centerpiece for Stands, Meet Up Hubs and Posters.

Exhibitors

(as of November 30, 2012)

More than an exhibit hall... See the latest technologies and services from the many companies on display. Interact, ask questions and find out what's new.

3D Biomatrix	Cell Press	Life Technologies, Inc.	Stem Cell COREdinates
Abcam	Cell Signaling Technology	Lonza	Stem Cell Network
AllCells LLC	Collectis Stem Cells	Massachusetts Life Sciences Center	STEMCELL Technologies Inc
Alpha MED Scientific Inc	CellGenix GmbH	Miltenyi Biotec GmbH	StemCulture, Inc.
AlphaMed Press	Cellular Dynamics International	Molecular Devices, LLC	Stemgent
ATCC	Corning Incorporated	Multi Channel Systems	StemRD
BD Biosciences	EMD Millipore	Narishige International USA Inc	Terumo BCT
Beckman Coulter Life Sciences	GE Healthcare	The New York Stem Cell Foundation	Thermo Fisher Scientific
BioLamina	Hamilton Thorne Inc	Nikon Instruments Inc	Tokai Hit Co., Ltd.
BioLegend	Harvard Apparatus Regenerative Technologies	PeproTech Inc	Union Biometrica, Inc.
Biological Industries	Healthgen Biotechnology Co., Ltd.	PromoCell GmbH	WiCell
BioSpherix	Irvine Scientific	R&D Systems Inc.	Wiley-Blackwell
Carl Zeiss Microscopy, LLC	Journal of Visualized Experiments	Sigma Life Science	Worthington Biochemical Corp
Cell Guidance Systems	Kawasaki Heavy Industries, Ltd.		

Meet with the leading suppliers to the life science industry from around the world, including technology and software companies, publishers and scientific and research businesses.

Innovation Showcases

Thursday, Friday and Saturday
 11:45 a.m. – 12:15 p.m. and
 12:30 p.m. – 1:00 p.m.

The Innovation Showcases are a popular feature of the ISSCR Annual Meeting. Host a 30-minute presentation to introduce new products, give in-depth technical demonstrations and present technical updates to the interested and engaged ISSCR meeting audience. Innovation Showcases are offered between the educational sessions over the lunch breaks.

Industry Wednesday Symposia

Wednesday, June 12, 2013
 8:30 a.m. – 12:00 p.m.

Position your brand as a thought-leader and educational innovator by holding an Industry Wednesday Symposium (IWS), directly preceding the start of the ISSCR 11th Annual Meeting. IWS sessions offer companies the opportunity to interact with and present relevant scientific information to the leading stem cell researchers from around the world. IWS sessions are included with registration. All ISSCR meeting attendees are welcome to attend.

Schedule at a Glance

On Wednesday, June 12, a full day of programming starts at 8:30 a.m. with Industry Wednesday Symposia followed by the Opening remarks and Presidential Plenary Session which begin at 1 pm. The meeting concludes at 6 pm Saturday, June 15 after the Closing Plenary Session followed by the Closing Reception from 6 – 7 p.m. All times subject to change.

Wednesday, June 12

8:30a.m. – 12:30 p.m.	Industry Wednesday Symposia/Focus Sessions
1:00 – 3:30 p.m.	Plenary I - Presidential Symposium
3:00 – 8:30 p.m.	Posters open for viewing/Exhibits open
4:30 – 6:30 p.m.	Plenary II – Regeneration, Engraftment and Migration
6:30 – 8:30 p.m.	Poster Presentation I / Reception in Exhibit Hall

Thursday, June 13

9:00– 11:30 a.m.	Plenary III – Disease Modeling
11:00 a.m. – 8:00 p.m.	Posters open for viewing/Exhibits open
11:30 a.m. – 1:00 p.m.	Meet the Experts
11:30 a.m. – 12:00 p.m.	Innovation Showcases
12:15 – 12:45 p.m.	Innovation Showcases
1:15 – 3:05 p.m.	Concurrent Session I (5 tracks)
	Track A - Pluripotent Stem Cells I
	Track B – Neural Stem Cells
	Track C - Stem Cells and Tissue Engineering
	Track D – Stem Cell Signaling and Niches
	Track E – Stem Cells, Injury and Regeneration
4:00 – 5:50 p.m.	Concurrent Session II (5 tracks)
	Track A – Pluripotent Stem Cells II
	Track B - New Technologies for Controlling and Observing Stem Cell Behavior
	Track C – Cell Fate Conversion
	Track D – Modeling Human Disease
	Track E – Stem Cell Aging and Metabolism
6:00 – 8:00 p.m.	Poster Presentation II/ Reception in Exhibit Hall
9:00 p.m.	Jl Social Event

Friday, June 14

9:00– 11:20 a.m.	Plenary IV - Cell and Gene Therapy
11:00 a.m. – 8:00 p.m.	Exhibits open
11:30 a.m. – 1:00 p.m.	Meet the Experts
11:30 a.m. – 12:00 p.m.	Innovation Showcases
12:15 – 12:45 p.m.	Innovation Showcases
1:15 – 3:05 p.m.	Concurrent Session III (5 tracks)
	Track A – Hematopoietic Stem Cells
	Track B – Epigenetics of Stem Cells
	Track C – Stem Cell Therapies
	Track D – Chemical Control of Stem Cell Behavior
	Track E – Artificial Gametes
4:00 – 5:50 p.m.	Concurrent Session IV (5 tracks)
	Track A – Stem Cells in Organ Development
	Track B – Self Renewal Mechanisms
	Track C – Immunology and Stem Cells
	Track D – Stem Cells and Cancer
	Track E – Chromatin Regulation in Stem Cells
6:00 – 8:00 p.m.	Poster Presentation III / Reception in Exhibit Hall

Saturday, June 15

9:00 – 11:20 a.m.	Plenary V – Stem Cells and Fate Control
11:30 a.m. – 12:45 p.m.	Jl Career Panel
11:30 a.m. – 12:00 p.m.	Innovation Showcases
12:15 – 12:45 p.m.	Innovation Showcases
1:00 – 2:55 p.m.	Plenary VI – Genomics and Epigenomics of Stem Cells
3:40 – 6:00 p.m.	Plenary VII – Making Tissues and Organs
6:00 – 7:00 p.m.	Closing Reception

Visit www.isscr.org/2013 for up-to-date schedule information.



Registration and Travel

Meeting and hotel registration all in one! The ISSCR's online registration system this year allows you to register for the annual meeting and secure your hotel in one convenient process.

Registration

Join us in Boston! The ISSCR 11th Annual Meeting will be held at:

Boston Convention and Exhibition Center (BCEC)

415 Summer Street
Boston, Massachusetts 02210 USA

Full meeting registration includes admission to all educational sessions, exhibits, poster sessions and social events, as well as meeting materials including the final program and proceedings.

One-day registration includes admission to all educational sessions, exhibits, poster sessions and social events scheduled for the day purchased. You may register at this rate for one day only.
(Participation in the ISSCR 11th Annual Meeting is limited to registered delegates.)

Register today! Visit www.isscr.org/2013.
(Payment by credit card or check in USD is required.)

Headquarters Hotel

Westin Boston Waterfront

425 Summer Street
Boston, MA 02210

Distance to convention center: Directly connected to the Boston Convention and Exhibition Center (BCEC)

Additional Conference-Rate Hotels

Renaissance Boston Waterfront Hotel

606 Congress Street
Boston, MA 02210

Distance to convention center: Just a short 0.37 mile walk to the Boston Convention and Exhibition Center (BCEC)

Seaport Hotel

One Seaport Lane
Boston, MA 02210-2031

Distance to convention center: Just a short 0.53 mile walk to the Boston Convention and Exhibition Center (BCEC)

Omni Parker House Hotel

60 School St
Boston, MA 02108-4109

Distance to convention center: A short cab ride of 1.6 miles to the Boston Convention and Exhibition Center (BCEC)

Reservations for the above four hotels must be made by May 11, 2013; afterward the discounted room rate may not apply. To reserve a room, please register and visit our hotel webpage at www.isscr.org/2013. All reservations require a guarantee with a major credit card. Your credit card will not be charged prior to your arrival.

Travel Visas

Visit www.unitedstatesvisas.gov for step-by-step instructions on the process for obtaining a temporary visa.

REGISTER AND SUBMIT YOUR ABSTRACT TODAY! www.isscr.org/2013



2013

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JUNE 12 – 15, 2013 BOSTON, MA USA
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IMPORTANT DATES

Abstract Submission Ends:
February 7, 2013

Early Registration Discount Ends:
April 17, 2013

Early Registration Ends:
June 10, 2013



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