

NAME OF SPECIALTY SECTION Stem Cells

ANNUAL REPORT: 2013-2014

May 1, 2013 to April 30, 2014

I. Officers/Committees:

<u>Officers</u>	<u>2013-2014</u>	<u>2014-2015</u>
President:	Kyle Kolaja	Jingbo Pi
Vice President:	Jingbo Pi	Bruce ("B. Alex") Merrick
Vice President-Elect:	B. Alex Merrick	Erik J Tokar
Secretary/Treasurer:	Erik J Tokar	Colleen Hegg
Past President	Michael Waalkes	Kyle Kolaja
Councilors:	Lamia Benbrahim-Tallaa	Charles Lindamood
	Charles Lindamood	Anna M Vetrano
PDA Representative:	Olive Ngalamé	Olive Ngalamé
GSLC Representative:	Justin Colacino	Sanket R Gadhia

Committees: Awards committee, Endowment committee, and Program committees are being established and will be finalized in August/September 2014.

II. Activities:

2014 SOT Annual Meeting Reception was held in Phoenix, Arizona in the Estrella Ballroom of the Sheraton Hotel on Tuesday, March 25. Approximately 30-40 people were in attendance. Dr. Kolaja (SCSS President) called the meeting to order at 6:00PM. Meeting Minutes: (see Attachment I).

2014 Stem Cells SS Officers Meeting was held in Phoenix in the Estrella Ballroom of the Sheraton Hotel on Tuesday March 25th from 5:15PM – 6:00PM. Officers in attendance were: Kyle Kolaja, Michael Waalkes, Jingbo Pi, Alex Merrick, Erik Tokar, Lamia Benbrahim-Tallaa, Charles Lindamood, Colleen Hegg (incoming Secretary/Treasurer), Amy Vetrano (incoming Junior Councilor), and Justin Colacino.

Awards: The student and postdoctoral awards for research excellence were presented. The winners were:

Postdoctoral

1st Place—Joshua F. Robinson, Department of Obstetrics, Gynecology, & Reproductive Sciences and the Broad Center of Regeneration Medicine and Stem Cell Research, University of California

“Human Embryonic Stem Cells and their Neuronal Descendants Exhibit Differential Sensitivity to PBDEs”

Mentor—Susan J. Fisher, PhD

2nd Place—Ntube N. O. Ngalame, National Toxicology Program Laboratory, DNTP, NIEHS
“Silencing KRAS Overexpression in Arsenic-transformed Prostate Stem Cells Results in Mitigation of Malignant Phenotype”
Mentor—Michael Waalkes, PhD

Graduate Student:

1st Place—Andrew Tidball, Department of Neurology, Vanderbilt University
“Mutant Huntington Impairs Mn²⁺-dependent p53 Activation in Human iPSC-derived Neural Progenitors”
Mentor—Aaron Bowman, PhD 1st place poster – Name

2nd Place—Everett Tate, UW-Milwaukee Zilber School of Public Health Blood Research Institute

“Maintenance of long-term self-renewal in Hematopoietic Stem Cells by Aryl Hydrocarbon Receptor Dependent Regulation of Reactive Oxygen Species During Fetal Development”
Mentor—Michael Laiosa, PhD

2014 SOT Annual Meeting Courses/Sessions:

Continuing Education Course:

1. “Stem Cells in Toxicology”, chaired by Drs. Erik Tokar and Mike Waalkes

Symposia Sessions:

1. “Induced Pluripotent Stem Cells and Their Differentiated Progeny Cells: Implementation in Toxicity Testing” chaired by Drs. Kyle Kolaja and Blake Anson
2. “Use of Stem Cells in Toxicity Testing – From Basic Research to Personalized Toxicology” chaired by Drs. Stephanie Dhalluin and Yvonne Will;
3. “The Role of the AHR in Stem Cell Development and Lineage Specification” chaired by Drs. David Sherr and Alvaro Puga

Workshops:

1. “Stem Cell-Derived Cardiomyocytes: An Alternative Cardiac Toxicity Model for Assessing Drug Safety and Chemical Health Risk” chaired by Drs. Syril Pettit and Kevin Dreher;
2. “Somatic Cell Therapy – Paradigms for Investigational new Drug (IND)-Enabling Programs, Scientific and Regulatory Considerations, and Clinical Translation” chaired by Drs. Charles Lindamood and Jason Hamilton.

Endowment Fund Details: SCSS Endowment Fund will be established this year. The Endowment Fund committee will be in charge of this.

Newsletters: The SCSS sent out a newsletter in March 2014 which can be accessed at this link: http://www.toxicology.org/isot/ss/scss/doc/SCSS_NLNov12.pdf.

Teleseminars: N/A

White Papers: N/A

Contributions to SOT website: SCSS website is continually being updated and was last updated in June 2014.

Other Specialty Section 2013-2014 Activities:

Attachment I

Stem Cells Specialty Section Annual Meeting Minutes

March 25, 2014

Reception and meeting were held at the Estrella Ballroom of the Sheraton Hotel, Phoenix, AZ. Dr. Kyle Kolaja (SCSS President) called the meeting to order at 6:00 PM on Tuesday, March 25, 2014. Dr. Kolaja discussed the SCSS activities. Dr. Kolaja then announced the newly elected officers and thanked the outgoing officers for their hard work. Dr. Kolaja discussed following topics during business meeting:

Newly elected officers were introduced:

- Vice President Elect: Erik Tokar
- Secretray/Treasurer: Colleen Hegg
- Junior Councilor: Amy Vetrano

SCSS Goals and Plans were discussed.

1. Membership Drive: The importance of continuing to increase the membership was emphasized. SCSS membership increased by 24% from 2013.. Goal: increase membership by $\geq 20\%$ by 2015. Challenge: every member bring in 1-2 new members by 2015 meeting.
2. Fund Drive: Goal is to establish Endowment Fund for Student/Postdoc Awards.
3. Program Drive: Goal is to endorse several scientific sessions for 2015. Program committee will be established again. SCSS endorsed 6 approved Sessions for the 2014 Annual Meeting.
4. New Committees will be established for each Drive.

SCSS program contributions were reviewed by Dr. Kolaja. All courses were very well attended:

- CE Course: “Stem Cells in Toxicology”, chaired by Drs. Erik Tokar and Mike Waalkes
- Symposium Session “Induced Pluripotent Stem Cells and Their Differentiated Progeny Cells: Implementation in Toxicity Testing” chaired by Drs. Kyle Kolaja and Blake Anson
- Symposium Session “Use of Stem Cells in Toxicity Testing – From Basic Research to Personalized Toxicology” chaired by Drs. Stephanie Dhalluin and Yvonne Will
- Symposium Session “The Role of the AHR in Stem Cell Development and Lineage Specification” chaired by Drs. David Sherr and Alvaro Puga
- Workshop “Stem Cell-Derived Cardiomyocytes: An Alternative Cardiac Toxicity Model for Assessing Drug Safety and Chemical Health Risk” chaired by Drs. Syril Pettit and Kevin Dreher
- Workshop “Somatic Cell Therapy – Paradigms for Investigational new Drug (IND)-Enabling Programs, Scientific and Regulatory Considerations, and Clinical Translation” chaired by Drs. Charles Lindamood and Jason Hamilton

Programmatic themes and submission guidelines for SOT 2014 were presented by Dr. Kyle Kolaja. Tips for successful proposals were discussed.

The treasurer's report was presented by Dr. Tokar

- SCSS estimated balance as of March 2014: approximately \$1300. Estimated income after membership dues and meeting revenue: approximately \$4,600.

SCSS student and post-doctoral awards for research excellence were presented by Dr. Kyle Kolaja:

Graduate student Awards

1st place: Andrew Tidball, Department of Neurology, Vanderbilt University

2nd place: Everett Tate, UW-Milwaukee Zilber School of Public Health Blood Research Institute

Post-doctoral Awards

1st place: Joshua F. Robinson, Department of Obstetrics, Gynecology, & Reproductive Sciences and the Broad Center of Regeneration Medicine and Stem Cell Research, University of California

2nd place: Ntube N. O. Ngalame, National Toxicology Program Laboratory, DNTP, NIEHS

The meeting was adjourned at approximately 7:15PM.