**Live Session Agenda - Saturday, September 12**

Session times are listed in US Eastern Daylight Time.

**Saturday, September 12, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 4A: Hibbs Basic Science Research Award Nominees</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:40 US EDT / 21:00-21:40 CST / 15:00-15:40 CEST</td>
<td>Moderators: A. Noelle Larson, MD &amp; Stefan Parent, MD, PhD &amp; Ferran Pellisé, MD, PhD</td>
</tr>
<tr>
<td>9:00-9:04</td>
<td>Welcome</td>
</tr>
</tbody>
</table>
| 9:04-9:08     | **Paper #55: Genetic Prediction of Onset and Progression of Adolescent Idiopathic Scoliosis**  
Nao Otomo, MD; Kazuki Takeda, MD, PhD; Yoji Ogura, MD, PhD; Yohei Takahashi, MD, PhD; Shohei Minami, MD, PhD; Koki Uno, MD, PhD; Noriaki Kawakami, MD, PhD; Manabu Ito, MD, PhD; Kei Watanabe, MD, PhD; Takashi Kaiato, MD, PhD; Hiroshi Taneichi, MD, PhD; Katsumi Harimaya, MD, PhD; Yuki Taniguchi, MD, PhD; Hideki Shigematsu, MD, PhD; Takahiro Iida, MD, PhD; Satoru Demura, MD, PhD; Ryo Sugawara, MD, PhD; Nobuyuki Fujita, MD, PhD; Mitsuru Yagi, MD, PhD; Eijiro Okada, MD, PhD; Naobumi Hosogane, MD, PhD; Kazuhiro Chiba, MD, PhD; Toshiaki Kotani, MD, PhD; Tsuyoshi Sakuma, MD, PhD; Tsutomu Akazawa, MD, PhD; Teppei Suzuki, MD, PhD; Kotaro Nishida, MD, PhD; Kenichiro Kakutani, MD, PhD; Taichi Tsuji, MD, PhD; Tatsuya Sato, MD, PhD; Satoshi Inami, MD, PhD; Masaya Nakamura, MD, PhD; Morio Matsumoto, MD, PhD; Shiro Ikegawa, MD, PhD; Chikashi Terao, MD, PhD; Teppei Suzuki, MD, PhD; Kotaro Nishida, MD, PhD; Kenichiro Kakutani, MD, PhD; Taichi Tsuji, MD, PhD; Tatsuya Sato, MD, PhD; Satoshi Inami, MD, PhD; Masaya Nakamura, MD, PhD; Morio Matsumoto, MD, PhD; Shiro Ikegawa, MD, PhD; Chikashi Terao, MD, PhD; Kota Watanabe, MD, PhD |
| 9:08-9:12     | **Paper #56: Correlation of Collagen X Biomarker (CXM) with Peak Height Velocity and Radiographic Measures of Growth in Idiopathic Scoliosis**  
Michelle C. Welborn, MD; Ryan Coghlan, MS; James O. Sanders, MD; Vishwas R. Talwalkar, MD; Amer F. Samdani, MD; Joseph Stone, MD; Daniel Bouton, MD; William Horton, MD; Susan Sienko, PhD |
| 9:12-9:16     | **Paper #57: Does Implant Density Matter in the Surgical Outcomes of Severe Kyphoscoliosis Exceeding 100 Degrees or Treated by 3CO?**  
Oheneba Boachie-Adjei, MD; Henry Ofori Duah, MPH; Arthur Sackeyfio, MD; Kwadwo Poku Yankey, MD; Lawrence G. Lenke, MD; Paul D. Sponseller, MD, MBA; Amer F. Samdani, MD; Daniel J. Sucato, MD, MS; Brenda A. Sides, MA; Peter O. Newton, MD; Suken A. Shah, MD; Harry Akoto, MD; Munish C. Gupta, MD |
| 9:16-9:25     | Discussion                                            |
Yubing Tong, PhD; Jayaram K. Udupa, PhD; Joseph M. McDonough, MS; Caiyun Wu, MS; Catherine Qiu, MS; Carina Lott, MS; Nirupa Galagedera, BA; Jason B. Anari, MD; Drew A. Torgian, MA; Patrick J. Cahill, MD |
Kelley Wichman, BS; Hyunmi Choi, MD; Anil Mendiratta, MD; Earl D. Thuet, BS; Paul Kent, MD; Meghan Cerpa, MPH; Ronald A. Lehman, MD; Lawrence G. Lenke, MD |
| 9:33-9:40     | Discussion                                            |

**Session 4B: Hibbs Clinical Science Research Award Nominees**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 4B: Hibbs Clinical Science Research Award Nominees</th>
</tr>
</thead>
</table>
| 9:40-9:44     | **Paper #60: Moderate Scoliosis Continues to Progress at 30-Year Follow-Up. A Call for Concern?**  
Christopher Alcala, MD; Amir A. Mehbod, MD; Francis Denis, MD; Timothy A. Garvey, MD; Joseph H. Perra, MD; Ensor E. Transfeldt, MD |
Arun R. Hariharan, MD; Suken A. Shah, MD; Margaret Baldwin, MD; Joseph Petfield, MD; Burt Yaszay, MD; Peter O. Newton, MD; Baron Lonner, MD; Firoz Miyanji, MD; Paul D. Sponseller, MD, MBA; Amer F. Samdani, MD |
| 9:48-9:54     | Discussion                                            |

*Denotes non-CME session*
Live Session Agenda - Saturday, September 12

Session times are listed in US Eastern Daylight Time.

9:54-9:58  Paper #62: Comparison of Clinical and Functional Outcomes of Vertebral Body Tethering to Posterior Spinal Fusion in Patients with Adolescent Idiopathic Scoliosis and Evaluation of Quality of Life
Tuna Pehlivanoglu, MD; Ismail Oltulu, MD; Emre Korkmaz, MD; Yigit Erdag, MD; Ender Sarioglu, MD; Ender Ofluoglu, MD; Mehmet Aydogan, MD

9:58-10:02  Paper #63: Anterior Vertebral Body Tethering in Idiopathic Scoliosis: A Prospective, Multicenter Analysis
Firoz Miyanji, MD; Paul R. Rushton, FRCS; Isabelle Turgeon, BSc; Luigi A. Nasto, MD; Jeff Pawelek, BS; Stefan Parent, MD, PhD

10:02-10:06  Paper #64: Spring Distraction System to Correct Early Onset Scoliosis: 2-Year Follow-Up Results From 22 Patients.
Justin V. Lemans, MD; Sebastiaan P. Wijdicks, MD; Renë M. Castelein, MD, PhD; Moyo C. Kruyt, MD, PhD

10:06-10:15  Discussion

10:15-10:19  Paper #65: Operative Versus Nonoperative Treatment for Adult Symptomatic Lumbar Scoliosis at 5-6 Year Follow-Up: Outcomes and Impact of Related Serious Adverse Events
Justin S. Smith, MD, PhD; Michael P. Kelly, MD; Elizabeth L. Yanik, PhD; Christine Baldus, RN; Thomas J. Buell, MD; Jon D. Lurie, MD, MS; Charles C. Edwards, MD; Steven D. Glassman, MD; Lawrence G. Lenke, MD; Oheneba Boachie-Adjei, MD; Jacob M. Buchowski, MD; Leah Y. Carreon, MD; Charles H. Crawford III, MD; Stephen J. Lewis, MD; FRCSpC; Tyler Koski, MD; Stefan Parent, MD, PhD; Virginie Lafage, PhD; Munish C. Gupta, MD; Han Jo Kim, MD; Christopher P. Ames, MD; Shay Bess, MD; Frank J. Schwab, MD; Christopher I. Shaffrey, MD; Keith H. Bridwell, MD

10:19-10:23  Paper #66: Realistic Radiographic Lordosis Achieved in Pedicle Subtraction Osteotomies (PSO) and 3-Level Posterior Column Osteotomies (PCO) in Adult Spinal Deformity (ASD) Patients with 2-Year Follow-Up
Joshua Rivera; Praveen V. Mummaneni, MD; Jeremy Guinn, BS; Hao-Hua Wu, MD; Minghao Wang, MD, PhD; Pingguo Duan, MD; Zhuo Xi, MD; Bo Li, MD; Rory R. Mayer, MD; Shane Burch, MD; Sigurd H. Berven, MD; Dean Chou, MD

Ferran Pellisé, MD, PhD; Miquel Serra-Burriel, PhD; Alba Vila-Casademunt, MS; Justin S. Smith, MD, PhD; Ibrahim Obeid, MD; Douglas C. Burton, MD; Frank S. Kleinstueck, MD; Shay Bess, MD; Javier Pizones, MD, PhD; Virginie Lafage, PhD; Francisco Javier S. Perez-Grueso, MD; Frank J. Schwab, MD; Jeffrey L. Gum, MD; Eric O. Klineberg, MD; Christopher I. Shaffrey, MD; Ahmet Alanay, MD; Christopher P. Ames, MD

10:27-10:36  Discussion

John T. Schwartz, BS; Varun Arvind, BS; Brian H. Cho, BS; Aly A. Valliani, BS; Eric Geng, BS; Peter Tang, MD; Jun Kim, MD; Samuel K. Cho, MD

Darryl Lou, MD; Alexander Haddad, BS; Vedat Deviren, MD; Christopher P. Ames, MD

10:44-10:50  Discussion


2021 Preview, Scientific Awards & Transfer of Presidency*

10:50-10:54  2021 IMAST Preview
David L. Skaggs, MD, MMM

10:54-10:58  2021 Annual Meeting Preview
Michael P. Kelly, MD

10:58-11:05  Scientific Award Presentations: Russell A. Hibbs, Louis A. Goldstein, John H. Moe
Presented by: Lindsay M. Andras, MD

11:05-11:10  Introduction of the 2021 President
Paul D. Sponseller, MD, MBA

*Denotes non-CME session
Live Session Agenda - Saturday, September 12

Session times are listed in US Eastern Daylight Time.

11:10-11:30  Transfer of Presidency
   Muharrem Yazici, MD

11:30-12:40 US EDT / 23:30-00:40 CST / 17:30-18:40 CEST

**Early Career Surgeons Session**

*The Early Career Surgeons Session is supported, in part, by a grant from Medtronic.*

Discussion Leaders: Kariman Abelin-Genevois, MD, PhD; Laurel C. Blakemore, MD; Louis Boissiere, MD; Robert H. Cho, MD; Kenny Kwan, BMBCh(Oxon), FRCS; Javier Pizones, MD, PhD; Christopher I. Shaffrey, MD; Brian G. Smith, MD; Justin S. Smith, MD; Paul D. Sponseller MD, MBA; Muharrem Yazici, MD; Caglar Yilgor, MD

11:30-11:40  Introduction to Early Career Surgeon’s Program
   Paul D. Sponseller, MD, MBA

11:40-11:55  Case Discussion: Selective Thoracic Fusion
   Altug Yucekul, MD

11:55-12:10  Case Discussion: T10-Pelvis Fusion
   Pierre Grobost, MD

12:10-12:25  Case Discussion: Single Level Lumbar Stenosis
   Timothy O’Connor, MD

12:25-12:40  Details of SRS Mentorship Program
   Brian G. Smith, MD

*Denotes non-CME session*