2015 AAA Regional Meeting Proposal

VENUE: WESTERN UNIVERSITY
1151 Richmond Street
London, Ontario, Canada, N6A 3K7

Western University provides a full range of academic and professional programs for over 34,000 undergraduate and graduate students. The university campus is in London, a thriving city of over 350,000 people, located midway between Toronto and Detroit. Recognized as one of Canada’s leading research-intensive institutions, Western University’s Schulich School of Medicine and Dentistry, and the Department of Anatomy and Cell Biology have a long history of excellence in basic biomedical, applied and clinical research. In 2005, the Division of Clinical Anatomy first introduced a Master’s in Clinical Anatomy; a plan of study designed to meet the ever-increasing need in North America for instructors who can teach cadaveric anatomy. Each year, the faculty and students in the Clinical Anatomy program at Western University continue to increase their collective presence at the Annual and Regional AAA meetings, thereby advancing the mission of AAA.

A. ORGANIZING COMMITTEE MEMBERS

Dr. Kem Rogers, Professor and Chair, Dept. of Anatomy and Cell Biology, Western University

Dr. Rogers is the former Exhibitor Liaison for the Canadian Federation of Biological Societies. In that capacity he gave advice to local organizers regarding the soliciting of annual conference sponsors, and set a record for the highest number of paying sponsors when the annual meeting was held in London, Ontario. Dr. Rogers has been a professor at Western for 28 years, and in his former life as Associate Dean and current position as department chair, he has extensive knowledge of the infrastructural operations at Western, and in this capacity can ensure the success of the event.

Dr. Anne Agur, Professor, Division of Anatomy, Department of Surgery, University of Toronto

Dr. Agur has been a member of the Anatomy Division (Department of Anatomy, Department of Anatomy and Cell Biology since 1978. She has over 35 years of teaching and research experience. Dr. Agur has been a member of AAA since 2002. She is Past President of the American Association of Clinical Anatomists and has been a Councillor and a member of numerous AACA Committees. Dr. Agur has attended AAA conferences with her students and participated at the Meet the Author booth. She was the Local Host and Chair of the local organizing committee for the AACA 25th Annual Meeting in Toronto. Dr. Agur has national and international collaborators, both basic science and clinical, whom she has worked with over the last 20 years. As the AAA and AACA have set up a committee to look at hosting a joint regional meeting possibly in 2015, Dr. Agur, as Past President of the AACA, represents a link to the spirit of this new initiative.

Dr. Brian Allman, Assistant Professor, Dept. of Anatomy and Cell Biology, Western University

Since joining the Department of Anatomy and Cell Biology at Western University in 2012, Dr. Allman has been a member of AAA. As a neurophysiologist, he is a long-time member (> 10 years) of the Society for Neuroscience, and is the Councillor for its London Chapter. In 2011, while at the University at Buffalo, Dr. Allman co-organized the International Tinnitus Research Initiative Conference, and served as a co-editor of 3 journal special issues devoted to its conference proceedings. Dr. Allman is a core member of the Clinical Anatomy Division at Western University, and his graduate students are regular presenters at AAA.
Dr. Timothy Wilson, Associate Professor, Dept. of Anatomy and Cell Biology, Western University

Dr. Wilson brings wide experience from his involvement with the AAA where he is an active member. He is an associate editor of the Anatomical Science Education journal and an active member of the Membership and Education Affairs Committees. He has working relationships and collaborations within Western and the wider Great Lakes basin. He has helped plan and participated in multiple local educational scholarship conferences and facilitates multiple international workshops annually. Dr. Wilson has made AAA his home society for the past 6 years since his appointment to the Department of Anatomy and Cell Biology at Western University.

Victoria Roach, PhD Candidate, Dept. of Anatomy and Cell Biology, University of Western Ontario

Ms. Roach’s doctoral thesis explores the role that individual differences play during complex spatial reasoning associated with learning in anatomical education. She has been a student member of AAA since 2010, has authored and co-authored several publications in AAA’s Anatomical Sciences Education Journal, and has served as a student/postdoctoral representative on the AAA Board of Directors (2012-2014). Ms. Roach was an organizing committee member for the London Health Research Day (2012) and co-chair of the Margaret Moffat Research Day (2011) at Western University.

B. MISSION STATEMENT

In designing our interdisciplinary program and workshop content, we have shown a strong commitment to fulfilling AAA’s goals of advancing the field of anatomical science through research, education and professional development. Importantly, amongst the targeted institutions are some of Canada’s top research universities, as well as institutions with well-respected allied health programs. Thus, we are confident that the scientific material will be of the highest quality, and attendees will discover how their research in the anatomical sciences can be translated into improvements in the classroom and clinic. Finally, the chosen venues will offer a professional yet comfortable environment for attendees to interact and foster future collaborations.

C. TARGETED INSTITUTIONS & PROJECTED ATTENDEES

<table>
<thead>
<tr>
<th>Institution</th>
<th>Location</th>
<th>Contact</th>
<th>Attendees</th>
</tr>
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<tbody>
<tr>
<td>Western University</td>
<td>London, ON</td>
<td>Kem Rogers, PhD</td>
<td>50</td>
</tr>
<tr>
<td>University of Toronto</td>
<td>Toronto, ON</td>
<td>Anne Agur, PhD</td>
<td>50</td>
</tr>
<tr>
<td>McMaster University</td>
<td>Hamilton, ON</td>
<td>Bruce Wainman, PhD</td>
<td>40</td>
</tr>
<tr>
<td>Fanshawe College</td>
<td>London, ON</td>
<td>Gary Sullivan, BSc</td>
<td>20</td>
</tr>
<tr>
<td>Queen's University</td>
<td>Kingston, ON</td>
<td>Michael Kawaja, PhD</td>
<td>20</td>
</tr>
<tr>
<td>Lake Erie College of Osteopathic Medicine</td>
<td>Erie, PA</td>
<td>Mark Terrell, EdD</td>
<td>12</td>
</tr>
<tr>
<td>University of Ottawa</td>
<td>Ottawa, ON</td>
<td>Christopher Ramnanan, PhD</td>
<td>6</td>
</tr>
<tr>
<td>Mayo Clinic</td>
<td>Rochester, MN</td>
<td>Wojciech Pawlina, MD</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>200</strong></td>
</tr>
</tbody>
</table>

Anticipated Involvement from Local High Schools:

Dr. Wilson has strong connections with several local high schools through his previous outreach experiences, and considerable efforts will be made to encourage these students to attend the meeting. To aid in this effort, Dr. Wilson will collaborate with Roger Dusky, Director of the Partners in Experiential Learning (PEL)—a curriculum-based program whose mandate is to match and place senior science high school co-op students who show promise of success in STEMM disciplines with mentors in the health research community. Through the PEL
program, high school students gain knowledge and training in basic and clinical health research environments and acquire current information about academic pathways to careers in health research. The Organizing Committee is delighted to have Roger Dusky participate in the Career Development/Consideration Workshop #3 (outlined below), where his vast experience will provide valuable insight to attending high school students who are considering a career in the anatomical sciences.

D. PROGRAM OUTLINE

Appendix 1 outlines a proposed day-long program which includes professional development components, research presentations by faculty, postdoctoral fellows and graduate/undergraduate students, as well as a poster session to encourage scientific discussion amongst attendees.

Invited Talks: Keynote, Faculty & Students

We are pleased to invite Dr. Ravi Menon (Western University) to deliver the Keynote Address at our meeting, as he is a world-leader in the development and application of magnetic resonance imaging (MRI) techniques to study brain health and disease. His presentations routinely excite audiences by explaining how advanced technologies can be used to address fundamental research questions in the anatomical and clinical sciences.

Our preliminary program outlines four 30-minute Faculty Talks, which promise to provide an exciting perspective on recent developments in the fields of Anatomy Education, Developmental Biology, Neurobiology and Cell Biology. The following scientists have accepted our invitation:

Dr. Mark Terrell (Lake Erie College of Osteopathic Medicine, Erie PA)—Anatomy Education
Expertise: Applying learning styles to improve anatomy education

Dr. Tamara Franz-Odendaal (Mount Saint Vincent University, Halifax NS)—Developmental Biology
Expertise: Comparative vertebrate development and evolution

Dr. Michael Kawaja (Queen’s University, Kingston, ON)—Neurobiology
Expertise: Mechanisms of neural plasticity induced by peripheral nerve injury

Dr. Silvia Penuela (Western University)—Cell Biology
Expertise: The role of cellular channel-forming proteins (pannexins/connexins) in health and disease

We are proposing to have Platform Talks which will showcase the research being conducted by trainees at various levels (postdoctoral, graduate and undergraduate). From the pool of abstracts submitted, we will invite those trainees whose projects represent a significant contribution to their field to deliver a 15-minute talk. We anticipate that these talks will cover multiple disciplines (e.g., Anatomy Education, Clinical Anatomy, Developmental/Cell Biology and Neurobiology), and we intend to provide separate awards for the best talks given by a postdoctoral fellow, graduate- and undergraduate student.

Posters:

Posters will be hung in the morning and remain on display for the entire day, as this will allow for maximal viewing opportunities. In addition to multiple break times between sessions, we have allotted 2.5 hours of viewing time to overlap with the lunch break. The close proximity of the poster hall and buffet-style lunch catering will provide a considerable convenience. Based on the targeted institutions and projected attendees, we are confident that the posters will represent multiple disciplines (e.g., Anatomy Education, Clinical Anatomy, Developmental Biology, Cell Biology and Neurobiology). We intend to provide awards for the best poster in each of the five disciplines.
Workshops:

Four workshops are proposed which are aimed at providing exciting training and educational opportunities to anatomists at various levels of their careers. These 75-minute workshops will each be offered twice, and will occur concurrent to the proposed platform talks.

Workshop 1: Simulation Experiences in Basic Anatomy and Clinical Skills
Simulation Workshop: Arthur & Sonia Labatt Health Sciences Bldg (The Anatatorium and Clinical Nursing Suite)

Teaching Assistants and Simulation Facilitators in Health Sciences and Kinesiology who use these facilities will conduct this workshop.

Conference participants interested in wider clinical simulations and face-to-face anatomical education without the use of dissection will be keen to participate in this workshop. The facilities serve multiple cohorts of students and faculty in Nursing, Health Studies, and Kinesiology. The Anatatorium is a gross anatomy laboratory utilizing plastic models and a state-of-the-art large format stereoscopic projection system enabling students to undertake laboratory objectives without the use of cadavers. Attendees to this workshop will participate in a typical laboratory session in the Anatatorium to experience how the facility uses stereoscopic projection in undergraduate education. Following the hands-on lab, attendees will move to the Simulated Education Suite. This laboratory houses a nine-bed simulated hospital facility where students learn to engage in basic and complex care and develop critical thinking skills. The facility utilizes programmable simulated patients to teach students about the management of complex clinical situations. Workshop attendees will participate in hospital case studies that will incorporate concepts introduced in the anatomy lab.

Workshop 2: See One, Do One, Teach One, ONLINE! Bringing your Anatomy Lab Online
Online Anatomy Workshop: University Community Centre Classrooms 147 A & B (capacity: 80)

Dr. Kem Rogers and his team of experienced Teaching Assistants (Victoria Roach & Stefanie Attardi) will conduct this workshop.

This workshop will demonstrate how to transform your undergraduate anatomy class with a laboratory component seamlessly into an online e-learning environment. Our online approach conveys 3D anatomical modules, anatomy labs, lecture streaming, archiving, and evaluation in an interactive platform. Recently validated as a quantitatively equivalent to face-to-face instruction, this methodology is revolutionizing the delivery of anatomical education at Western University. The conjoined classrooms will be arranged to allow attendees to both observe how faculty and teaching assistants deliver the virtual anatomy labs, as well as how would-be students interact with the online material.

Workshop 3: Moving Forward: To Anatomy, And Beyond!
Career Development/Consideration Workshop: University Community Centre Classroom 37 (capacity: 106)

Confirmed Panel Members with considerable experience in scientific mentorship and outreach.

Dr. Tamara Franz-Odendaal—Assoc. Professor and Atlantic Chair for Women in Science and Engineering awarded by the National Science and Engineering Research Council of Canada  
http://www.wiseatlantic.ca/

Rodger Dusky, MEng—Director of the Partners in Experiential Learning (PEL), a curriculum-based program that matches senior science high school co-op students with mentors in the health research community.  
http://www.uwo.ca/oncology/CIHR/STP/pe/PEL%20orientation%20material.pdf

Approaching Industry Members who have completed a doctorate and migrated their skills to business goals. These members have experience participating in career development workshops.

Dr. Jeremy Friedberg—Partner at Spongelab Interactive, which develops digital learning media for science  
http://www.spongelab.com/index.cfm

Dr. Jennifer MacLean—Director, Business Development at Mitacs, Canada’s premiere research internship program. http://www.mitacs.ca/accelerate
This workshop is directed at individuals in various stages of their education, who are considering the anatomical sciences as a possible future career. Catering to high school, undergraduate and graduate level individuals specifically, this workshop strives to demonstrate the array of employment opportunities that exist to individuals trained in anatomy, and shed light on the many translational, and occasionally unorthodox opportunities that exist for aspiring anatomists. The workshop will feature candid perspectives and interactive discussions with trained anatomists in varying stages of their careers, and who find themselves employed in a variety of disciplines. Following the structured panel discussion, participants will be invited to interact with the presenters for career advice, to ask additional questions, and for additional networking opportunities.

Workshop 4: A Walk on the Flip Side: Evolution of the Lecture
Flipped Classroom Workshop: University Community Centre Classroom 41 (capacity: 96)

Dr. Sarah McLean: E-learning Coordinator, Dept of Physiology & Pharmacology; Anatomy & Cell Biology
Dr. Derek McLachlin: Dept of Biochemistry
Dr. Tim Wilson: Dept of Anatomy & Cell Biology

This workshop will demonstrate approaches that can help migrate all or parts of your class into a Blended or Flipped design. The goal of the blending or flipping a class is to move some of the lower order learning (that typically takes place through lecture) to outside of class time using technology. This frees in-class time to allow greater engagement, application and integration of course material. Informed by learning theory and the experiences from the award-winning presenters, techniques and examples will be demonstrated. This workshop will explore activities and techniques that may be done before, during, and after classes enabling you get more out of the face-to-face time with students. The pedagogic techniques can be applied to undergraduate, graduate, and professional learning environments.

E. POSSIBLE DATES

Preferred Date: ___________________________  Alternative Date: ___________________________

To our knowledge, these dates do not overlap with other large scientific/educational meetings (e.g., Society for Neuroscience). Also, these dates avoid the Canadian Thanksgiving Holiday (Monday, October 12th).

F. POTENTIAL LOCAL SPONSORS

The following list of companies have, or wish to have, a strong relationship with Western and The Schulich School of Medicine and Dentistry:

Commercial Sponsors: ___________________________  Local Sponsors: ___________________________
G. AVAILABLE FACILITIES

Western University has the necessary infrastructure and facilities to provide attendees with a professional and memorable AAA experience. Located within the recently-renovated University Community Centre (UCC), these facilities include:

**Large Lecture Hall: UCC Auditorium 146**

This lecture hall includes a video-data projector and rack-mounted computer, complete with a VGA laptop connection, wireless microphone, HDMI connection, document camera, and auditory-assistive system. Comfortable seating is provided for 225 attendees.

**Poster Hall and Lounge: UCC Room 165 & Mustang Lounge**

These bright and spacious rooms provide excellent meeting areas. UCC Room 165 easily accommodates conference sessions exceeding 150 posters, and the expansive floor space and high-ceiling reduce the excessive noise often associated with large poster sessions. The adjoining Mustang Lounge provides a comfortable environment where attendees can enjoy refreshments between conference sessions.

**Catering: The Wave Restaurant, UCC**

Located upstairs from the Large Lecture Hall and Poster Hall, The Wave Restaurant can provide all of the catering needs for the conference.

http://www.usc.uwo.ca/wave/catering/index.php
Housing:
Given that London is a large, multicultural city with an international airport, a wide-range of housing options exist for attendees. The following hotels are within a short distance from the University, and provide quality accommodations for visiting scholars:
Windermere Manor:
   http://www.windermeremanor.com/accommodations.htm
Station Park All Suite Hotel:
   http://www.stationparkinn.ca/
Ivey Spencer Leadership Centre:
   http://www.iveyspencerleadershipcentre.com/accommodations/accommodations.asp

H. ESTIMATED BUDGET
The following budget outlines the estimated charges for room/equipment rentals, poster setup and catering for the projected 200 attendees. The listed charges are based on recent quotes. Additional costs are estimated for the Faculty Speaker travel costs (e.g., mileage/airfare; accommodations).

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<tr>
<th>Item</th>
<th>Details</th>
<th>Charge</th>
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<tbody>
<tr>
<td>Room Rental</td>
<td>Poster Hall (UCC 165) &amp; Mustang Lounge (incl. furnishings, setup, cleanup)</td>
<td>$896.66</td>
</tr>
<tr>
<td>Room Rental</td>
<td>Large Lecture Hall (UCC Auditorium 146)</td>
<td>$248.60</td>
</tr>
<tr>
<td>Room Rental</td>
<td>Workshop 2: Online Anatomy Workshop; UCC 147 A &amp; B</td>
<td>$248.60</td>
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<tr>
<td>Room Rental</td>
<td>Workshop 3: Career Development Workshop; UCC 37</td>
<td>$248.60</td>
</tr>
<tr>
<td>Room Rental</td>
<td>Workshop 4: Flipped Classroom Workshop; UCC 41</td>
<td>$248.60</td>
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<tr>
<td>Poster Setup</td>
<td>Poster Board Rental (35 4’x8’ double-sided poster boards; space for 140 posters)</td>
<td>$3,497.35</td>
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<td>Awards</td>
<td>Best Talk (Postdoc; Grad; Undergrad: $500); Best Poster (5 disciplines: $400)</td>
<td>$3,500</td>
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<tr>
<td>Travel</td>
<td>Estimated Faculty Speakers’ Travel Costs</td>
<td>$3,000</td>
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<tr>
<td>Catering</td>
<td>The Wave Restaurant (incl. breakfast, breaks, lunch, &amp; evening appetizers)</td>
<td>$14,405.00</td>
</tr>
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<td><strong>Total</strong></td>
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<td><strong>$26,293.41</strong></td>
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</tbody>
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Appendix 1. PROGRAM OUTLINE

Welcome Reception: Friday Evening prior to Full-Day Meeting
6:00 PM - 9:00 PM  Welcome Reception  The Wave Restaurant, UCC

Full-Day Meeting: Saturday, October 3rd (or 24th), 2015
Morning Session
7:30 AM - 8:30 AM  Registration & Continental Breakfast  Mustang Lounge, UCC 165
8:45 AM - 9:00 AM  Welcome Address: AAA President  UCC Auditorium 146
9:00 AM - 9:30 AM  Faculty Talk 1: Dr. Terrell  UCC Auditorium 146
9:30 AM - 10:00 AM  Faculty Talk 2: Dr. Franz-Odendaal  UCC Auditorium 146
10:00 AM - 10:30 AM  Coffee Break amid the Posters  Mustang Lounge, UCC 165
10:30 AM - 11:00 AM  Faculty Talk 3: Dr. Kawaja  UCC Auditorium 146
11:00 AM - 11:30 AM  Faculty Talk 4: Dr. Penuela  UCC Auditorium 146

Lunch / Posters
11:30 PM - 2:00 PM  Lunch / Posters  The Wave / Mustang Lounge, UCC 165

Platform Talks
2:00 PM - 2:15 PM  Undergraduate Award Finalist 1  UCC Auditorium 146
2:15 PM - 2:30 PM  Undergraduate Award Finalist 2  UCC Auditorium 146
2:30 PM - 2:45 PM  Undergraduate Award Finalist 3  UCC Auditorium 146
2:45 PM - 3:00 PM  Undergraduate Award Finalist 4  UCC Auditorium 146
3:00 PM - 3:15 PM  Postdoc Talk 1  UCC Auditorium 146
3:15 PM - 3:30 PM  Coffee Break amid the Posters  Mustang Lounge, UCC 165
3:30 PM - 3:45 PM  Graduate Award Finalist 1  UCC Auditorium 146
3:45 PM - 4:00 PM  Graduate Award Finalist 2  UCC Auditorium 146
4:00 PM - 4:15 PM  Graduate Award Finalist 3  UCC Auditorium 146
4:15 PM - 4:30 PM  Graduate Award Finalist 4  UCC Auditorium 146
4:30 PM - 4:45 PM  Postdoc Talk 2  UCC Auditorium 146
4:45 PM - 5:00 PM  Coffee Break amid the Posters  Mustang Lounge, UCC 165

Workshops (to run concurrent with Platform Talks)
2:00 PM - 3:15 PM  Workshop 1: Simulation Workshop  Arthur and Sonia Labatt Health Sci Bldg
2:00 PM - 3:15 PM  Workshop 2: Online Anatomy Workshop  UCC Classrooms 147 A & B
2:00 PM - 3:15 PM  Workshop 3: Career Development Workshop  UCC Classroom 37
2:00 PM - 3:15 PM  Workshop 4: Flipped Classroom Workshop  UCC Classroom 41
3:15 PM - 3:30 PM  Coffee Break amid the Posters  Mustang Lounge, UCC 165
3:30 PM - 4:45 PM  Workshop 2: Virtual Anatomy Workshop  Arthur and Sonia Labatt Health Sci Bldg
3:30 PM - 4:45 PM  Workshop 3: Career Development Workshop  UCC Classroom 37
3:30 PM - 4:45 PM  Workshop 4: Flipped Classroom Workshop  UCC Classroom 41
4:45 PM - 5:00 PM  Coffee Break amid the Posters  Mustang Lounge, UCC 165

Keynote Speaker
5:00 PM - 6:00 PM  Keynote Speaker: Dr. Ravi Menon  UCC Auditorium 146
6:00 PM - 6:15 PM  Student Awards Announcement  UCC Auditorium 146

Reception
6:15 PM - 7:30 PM  Reception  Mustang Lounge, UCC 165