

THE NEWSLETTER OF THE INTERNATIONAL FEDERATION OF ASSOCIATIONS OF ANATOMISTS



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Gordana Teofilovski-Parapid Helen Nicholson (Plexus)

President of the IFAA Federative International Congress

Yun-Qing Li

Federative International Programmes and Committees

Federative International Committee for Anatomical Terminology (to become Federative International Programme)

Chair Lutz Vollrath

Federative International Programme for Anatomical Education

Chair Wojciech Pawlina

Federative International Committee for Anatomical Research

Chair Eveline Baumgart-Vogt

Federative International Committee for Scientific Publications

Chair Stephen Carmichael

Federative International Committee for Medical Humanities and Ethics

Chair Gareth Jones

Federative International Committee for Supranational Anatomical Projects

Chair Oladapo Ashiru

Federative International Committee for IFAA Website

Chair To be decided

Editorial

This latest edition of Plexus comes with our best wishes for a peaceful and successful 2013. For those of us in the Southern hemisphere, as the summer begins to fade, many of us are busily preparing for the new academic year.

In this edition we feature the award of Distinguished Member of the ASSA to Stephen Carmichael. We also acknowledge the tremendous work he has done in his role as Editor-in-Chief of Clinical Anatomy. We wish Dr Shane Tubbs well as he takes up the baton as the new Editor-in Chief and are confident that the journal will continue to grow from strength to strength under his leadership.

The 2014 Beijing Congress is now only just over a year away, so start planning your trip to this fascinating country where there will be a feast of Anatomy.

With best wishes
Helen Nicholson and Nalini Pather

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NEWS FROM THE IFAA

As you will have seen on the first page of this newsletter the IFAA has updated its website to bring it into the 21st Century! We hope that it will be easier to navigate and provide you with the information you require. Our thanks go to Prof Friedrich Paulsen and his colleagues for all their hard work in developing this attractive new website.

The IFAA Executive did not meet face to face in 2012 but is planning to hold its next meeting in April during the Experimental Biology Congress in Boston. This will be an important meeting as the Executive prepares for the Beijing Congress. Later this year the Executive will be contacting the member societies regarding suggestions for potential officials of the IFAA.

During the year the IFAA Executive have also been working closely with Professors Yun-Qing Li and Dr Changman Zhou and their team to ensure that the Congress in Beijing is one not to be missed. The dates for the Congress are 8-10 August 2014 and we look forward to seeing you there!

ERRATUM:

The membership of FIPAT is now complete!

In our last issue of Plexus, we inadvertently for published an incomplete list of the FIPAT members. Here is the complete list.

General terminology and FIPAT enquiries should be addressed to the FIPAT secretary, Pierre Sprumont (pierre.sprumont@unifr.ch).

FIPAT OFFICERS

Chairman: Prof. Lutz Vollrath, Germany (vollrath@uni-mainz.de)

Secretary: Prof. Pierre Sprumont, Switzerland (pierre.sprumont@unifr.ch)

FIPAT COORDINATORS AND ADVISORS

Gross Anatomy Group

Coordinator: Prof. Stephen Carmichael, USA (carmichael.stephen@mayo.edu)

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Prof. Jonas Broman, Sweden (Jonas.Broman@ki.se)

Prof. Luis Puelles, Spain (puelles@um.es)

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Odontology/Anthropology Group

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Informatics Group

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Advisors:

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Prof. David Kachlik, Czech Republic (david.kachlik@IF3.cuni.cz

NEWS FROM MEMBER SOCIETIES

The ICP 2012 Success

On the 23rd to 27th of July, the 16th International Conference on Plastination (ICP2012) (http://www.csas.org.cn/icp2012/) was successfully held in Beijing, China. The conference was jointly hosted by the International Society for Plastination (ISP), the Chinese Society for Anatomical Sciences (CSAS) and Beijing Capital Medical University (CCMU). About 110 delegates from 27 countries attended the conference.

Professor Gareth Jones from the University of Otago, New Zealand, Professor Darrell Evans from Brighton and Sussex Medical School, UK, Professor Andreas Weiglein from Graz Medical University, Austria, and Professor Beat Riederer from the University of Lausanne, Switzerland gave their plenary lectures and another 51 delegates gave either platform or poster presentations. presentations covered the areas related to plastination and preservation of biological specimens, including their potential application to clinical, functional and digital anatomy. The participants took full advantage of this conference for formal and informal interaction with colleagues from all over the world, sharing knowledge of the most recent advances in technology, education and research of plastination and biological preservation.

The ICP 2012 continued the tradition of the ISP biennial conferences and ran a two day pre-conference hands-on workshop at the CCMU. The workshop was supervised by Professor Rafael Latorre from the University of Murcia, Spain, Professor Constantin Sora from the Medical University of Vienna, Austria and A/Professor Carlos Baptista from the University of Toledo, the United States. Fifty-three people participated in the workshop. The workshop provided hands-on training on the basic principles and techniques of plastination, particularly the epoxy sheet plastination technique, and was well received and praised by the participants.

During the conference, the ISP held its council meeting and general business meeting. It was decided that the 17th International Conference on Plastination will be held in St Petersburg, Russia in 2014.

Dr Ming Zhang Chairman of the ICP 2012 Organizing Committee

The Anatomical Association Of Southern Africa

Distinguished member of ASSA: Stephen Carmichael

Stephen Carmichael was born on July 17, 1945 in Detroit, Michigan. He received his Bachelor's degree with Honours in Biology from Kenyon College in Gambier, Ohio in 1967 (and an honorary Doctor of Science degree from Kenyon College in 1988) and his Ph.D. in Anatomy from Tulane University in New Orleans in 1971. Following the completion of his degree, Dr. Carmichael obtained his first teaching position in the Department of Anatomy at West Virginia University School of Medicine where he taught from 1971-1982. From there he went on to Mayo Clinic where he taught at Mayo Medical School and the Mayo Residency programs. He was promoted to Professor of Anatomy in 1987 and received a joint Department appointment in the Orthopaedic Surgery in 1997. He served as Chair of the Department of Anatomy from 1991-2005 and is currently Professor Emeritus of Anatomy and Orthopaedic Surgery. Among his teaching responsibilities are gross anatomy, cytology and histology, developmental anatomy and neuropharmacology.

Dr. Carmichael has been very active in the field, attending and presenting at numerous meetings. In fact, he has only missed three of the last 44 AAA Annual Meetings! His absence from the last meeting was in order to attend the 40th annual Congress of the Anatomical Society of Southern Africa that was held in Windhoek, Namibia. His research interests include basic mechanisms of (neuro)secretion, adrenal medullary cytology and innovations in medical education. He has published more than 140 articles in peerreviewed journals, including first author of "The Adrenal Chromaffin Cell" published in Scientific American in 1985. This article was translated into 4 foreign languages. He is also co-author of 8 books, including "Climbing Mount Kilimanjaro." He has climbed Mount Kilimanjaro 3 times, most recently in 2008.

He has served on the Editorial Boards of several journals including the Journal of Electron Microscopy Society of Thailand, the Journal of Histochemistry and Cytochemistry, Folia Moprphologica, Biomedical Research, Surgical and Radiologic Anatomy and the Clinical Anatomy is the top journal in Africa! Dr. Carmichael at the summit of Mount Kilimanjaro, the highest peak in Africa.

Journal of the Anatomical Society of India. In addition, he has served as Editor-in-Chief of Clinical Anatomy from 2000-2012. Dr. Carmichael has served on AAA's Anatomical Nomenclature Committee from 1994 to 2009, serving as

chair from 2006-2009, and was a member of the Board of Directors from 1999-2002. In 2005, he received the AAA/Wiley A.J. Ladman Exemplary Service Award and was selected as a Fellow of the American Association of Anatomists in 2007. He has served as president of The Histochemical Society, the Association of Anatomy, Cell Biology, and Neurobiology Chairpersons, and the Mayo Chapter of Sigma Xi. He currently serves as chair of the Federative International Committee for Scientific Publications and is a member of the International Federative **Program** Anatomical Terminology, on standing Committees of the IFAA. He is a



Founding Member of the American Association of Clinical Anatomists.

Dr. Carmichael is also a valued member of the Anatomical Society of Southern Africa (ASSA). He is a familiar sight at the annual conferences and an active supporter of anatomy in Southern Africa. It is because of this dedication that the Anatomical Society of Southern Africa honoured Dr. Carmichael with the Distinguished Member Award on the 17th of April 2012 at the 40th Annual Conference of the Anatomical Society of Southern Africa that was held at the University of Namibia, Windhoek, Namibia

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The president of ASSA, Prof. Graham Louw (right), presenting Dr. Stephen Carmichael (left) with the Distinguished Member Award

Stephen Carmichael and Albert van Schoor

NOTE: The original article available at: http://www.anatomy.org/content/stephen-carmichael (permission to publish from Stephen Carmichael)

Turkish Anatomy Congress



The 4th International Symposium of Clinical and Applied Anatomy and 14th National Turkish Anatomy Congress were successfully completed in Ankara University Faculty of Medicine at 28th June and 1st of July with 732 participants and 24 invited lecturers coming from 41 different countries. In total, 434 oral and poster presentations were presented and discussed during the meeting.

This was an especially special meeting for Turkish anatomists because it was dedicated in honor of the retirement of an important anatomist in Turkey, and one of the founders of the Turkish Society of Anatomy and Clinical Anatomy, Professor Alaittin Elhan.

The scientific program of the meeting comprised 4 pre-congress courses with full participation and 7 satellite symposiums. These satellite symposiums included a session on Orthopedics and Traumatology,

General Surgery, Plastic and Reconstructive Surgery, Otorhinolaryngology, Neurosurgery, Anesthesiology and Biomechanics. These sessions provided an excellent opportunity for anatomist and clinician interactions and highlighted the importance of anatomy in providing scientific orientation to clinical-based problems. These symposiums allowed the participants to evaluate the place of anatomy in a different context.

Orthopedics the content of Traumatology session Prof. Dr. Alaittin Elhan did a live dissection on knee joint. This dissection was simultaneously watched in the congress hall and broadcasted online. During this dissection there were ongoing discussions between orthopedic surgeons and anatomists at the dissecting room. The orthopedic surgeons connected online with their questions and were answered at the same time by the dissecting group. The video

presentation of this symposium, dissection and the discussions were distributed to all attendants of the congress and to all anatomists, orthopedic surgeons and physiotherapists in Turkey. This was the "first" time in Turkish Anatomy history that a webinar took place in a congress. And a "first time" in Turkish Anatomy history more than 150 students participated in the congress. They helped in the organization and also contributed scientifically to the congress by presenting oral and poster presentations.

These meetings provided and covered the most up-dated approaches for various surgical disciplines and also provided anatomist and clinician interaction. A great number international friendships and collaborations among anatomists were initiated. We believe that the ISCAA will have an important place in the world. We would like to meet each other again in the 5th ISCAA that will be held in Graz, Austria in 2013.

ibrahim Tekdemir, MD
Professor of Anatomy
Ankara University Faculty of Medicine
Department of Anatomy
Congress President
Ankara, 2012

Australian and New Zealand Association of Clinical Anatomists (ANZACA)

The 2012 conference of the ANZACA was a joint meeting with the Australasian Institute of Anatomical Sciences (AIAS) and hosted by the Universities of New South Wales and It took place from the 9-11 Sydney. December 2012 and featured an exciting mix of clinical and radiological anatomy, embryology, anatomy education anthropology - all set against the stunning backdrop of Coogee Beach, Sydney.

As a society that draws its membership from two countries, we naturally welcomed a large number of delegates from Australia and New Zealand. We were also most delighted to be able to meet and welcome delegates from South Africa, the United States, United Kingdom, Europe, Malaysia, India and Korea. This contributed to a wonderfully diverse collection of oral and poster presentations over the course of the conference.

We are especially thankful to our keynote speakers, Professor Wojciech Pawlina (Mayo Clinic, Rochester, USA) and Dr Estelle Lazer (Sydney, Australia), for opening each day and



setting the tone for a challenging and stimulating day of sharing ideas and research.

Professor Pawlina's keynote speech, 'The electronic alphabet of learning, social media, and social networks in anatomy education', highlighted the changing needs of our student population, millennium challenges and social media. It also brought to the fore the new alphabet series storming through higher education: m-learning, a-learning, blearning and u-learning (for those of you who weren't lucky enough to be at the conference, this is mobile-, asynchronous-, blended- and ubiquitous- learning). The workshop the following day on 'Teaching discipline-independent skills in gross anatomy' led by Professor Pawlina pushed the boundaries of anatomy even further in discussing modern curriculum design.

Estelle Lazer, a forensic anthropologist, undoubtedly held the audience spellbound during her fascinating talk on 'Pompei AD 79: Anatomy of a mass disaster'. She discussed her work on studying the remains of the

human victims of the AD 79 eruption of Mt Vesuvius in Italy and her insights into their lives and deaths.

The conference also featured various special talks on 'Embryology in an Anatomy world' (Dr Mark Hill), 'Radiological Anatomy in Learning and Teaching' (Dr Dzung Vu), 'NSW Health Policy' (Dr Flarey) and 'Building an Anatomy Community of Practice' (Dr Nalini Pather).

No doubt the social highlight of the conference was the dinner cruise taking in the beautiful foreshores and sailing past the Opera House and under the Harbour Bridge.

Nalini Pather, PhD Co-Chair: ANZACA 2012 Organising Committee Medicine, University of New South Wales Sydney, Australia

American Association of Anatomists (AAA)

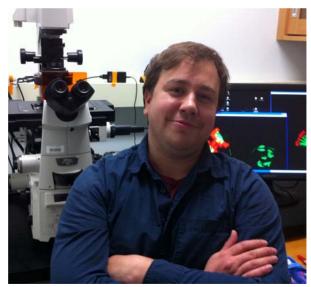
Young Investigator Awards go to Franz-Odendaal, Jhou, Maresc, Wysocka

AAA's Young Investigator Awards—Bensley, Morphological Herrick, Sciences, and Mossman-each recognize investigators in the early stages of their careers who have made important contributions to biomedical science through their research in cell/molecular biology, comparative neuroanatomy, morphological sciences, or developmental biology, respectively.

This year's Young Investigator Awards Committee was chaired by Andrew J. Ewald (Johns Hopkins Univ. School of Medicine) and included lain Cheeseman (Whitehead Institute), Julian Guttman (Simon Fraser Univ.), Konrad Hochedlinger (Massachusetts General Hospital), Jason Radley (Univ. of Iowa), Jeremy Reiter (Univ. of California, San Francisco) Reddien Peter (Whitehead Institute for Biomedical Research), and Alexis M Stranahan (Medical College of Georgia). Recipients of all four awards will present lectures in AAA's Young Investigator Awards Symposium, scheduled for Sunday, April 21,

4:30-6:30 p.m., at the AAA 125th Anniversary Annual Meeting/EB 2013 in Boston.

Thomas Maresca wins Bensley Award



Thomas Maresca will receive the 2013 R.R. Bensley Award in Cell Biology and present an award lecture entitled "Stepping into a Tense Relationship: Mechano-molecular Regulation of Cell Division by Force" at the AAA Annual Meeting during EB 2013.

The award to Maresca recognizes him for his elegant cell biological approaches to the study of spindle assembly and dynamics during mitosis, resulting in important contributions to our understanding of force and signaling at kinetochores.

Nominator E. D. Salmon, who supervised Maresca's postdoctoral training, pointed to

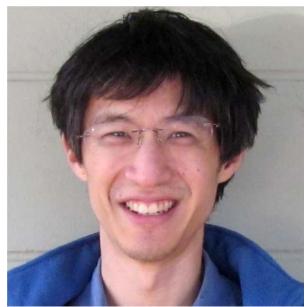
molecular biology skills, his extraordinary publication record as a graduate student, and his dynamic, engaging and readily understood lectures as indicators that Maresca is "capable of great discoveries in biomedical science" and is headed for outstanding scientific career in cell biology. Maresca, now an assistant professor in the Biology Department at the University of Massachusetts, received his B.S. in biology from the University of North Carolina, Chapel Hill, and his Ph.D. in molecular and cell biology from UC Berkeley... After postdoctoral research back at UNC, he moved to his current position in 2010.

his exceptional protein biochemical and

Among his other honors, Maresca was elected to Phi Beta Kappa in 2000 and was awarded an American Cancer Society Postdoctoral Fellowship in 2007.

AAA's Bensley Award is presented annually for "distinguished contribution to the advancement of anatomy, through discovery, ingenuity, and publications in the field of cell biology."

Thomas Jhou Honored with Herrick Award



AAA's 2013 C.J. Herrick Award in Neuroanatomy goes to Thomas Jhou, who will present an award lecture on "Dopamine and Anti-dopamine Systems: Polar Opposite Roles in Behavior" at the AAA Annual Meeting at EB 2013.

The award recognizes **Jhou** for the significant role he has played in unraveling the complex midbrain and hypothalamic circuitry involved in arousal and motivation, including a noteworthy discovery involving characterization of the rostromedial tegmental nucleus as a critical cell group that interacts with dopaminergic circuitry to convey negative reward signals.

According to nominator Clifford Saper, Jhou is "a remarkable young talent in neuroanatomy and neuroscience, who uses the fundamentals of neuroanatomy to

explore the functional significance of brain circuitry." Saper concludes: "As a former editor of the journal that C. Judson Herrick and his brother (Clarence L. Herrick) started, the Journal of Comparative Neurology, I have seen a lot of work by young investigators, but few deserve so well comparison with C.J. Herrick, who from a very early stage in his career provided one brilliant insight to the nervous system after another."

Jhou received his B.S. in computer science from MIT and his Ph.D. in neurobiology from Harvard University. After completing postdocs at UC San Francisco, Johns Hopkins University, and the National Institute on Drug Abuse, he joined the Department of Neurosciences at the Medical University of South Carolina as an assistant professor in 2010.

In addition to the AAA award, his other honors include a Travel Fellowship for the Winter Conference on Brain Research.

AAA's Herrick Award is given annually "to recognize young investigators who have made important contributions to the field of comparative neuroanatomy and have demonstrated remarkable promise of future accomplishments."

Morphological Sciences Award to Tamara Franz-Odendaal



Tamara Franz-Odendall will receive AAA's Morphological Sciences Award and present an award lecture on "Unraveling the Complexity of the Skull: an Evo-Devo Approach" at the AAA Annual Meeting during EB 2013.

The award to Franz-Odendaal recognizes her skillful use of morphological methods to conduct research at the interface between the development and evolution of skeletal system, resulting in major contributions to our understanding of the induction of the scleral skeleton.

Uniquely among AAA's Young Investigator nominees, Franz-Odendaal was nominated by two of her graduate students, Megan Dufton and Karyn Jourdeuil. They

note that "despite the sometimes daunting task of delving into a field with very little previous research and unknown molecular queues, Dr. Franz-Odendaal has been able to inspire over 27 undergraduates and graduate students since her lab was established in 2006."

Franz-Odendall received B.Sc. degrees in cell and development biology and in zoology, an M.Sc. in cell and developmental biology, and a Ph.D. in zoology from the University of Cape Town. Following a postdoc with Brian Hall at Dalhousie University, she joined the Department of Biology at Mount Saint Vincent University as an assistant professor in 2006, becoming an associate professor in 2010.

Franz-Odendall joined AAA as 2003, student in served as Student/Postdoctoral Member on the AAA Board from 2006-2008, and currently serves on the Short-term Visiting Scholarships Committee. She received AAA's 2005 Postdoctoral Fellow Poster Award, won AAA's Young Anatomist's Publication Award in 2006, and received a Young Faculty Travel Award in 2009. Among her other honors, she received a University Faculty Award from Canada's Natural Sciences Engineering and Research Council (2006-2011) and is NSERC Atlantic Chair for Women in Science and Engineering, Canada (2011-2016).

AAA's Morphological Sciences Award was established in 2008 to recognize investigators in the early stages of their careers who have made important contributions biomedical to science through research in the morphological sciences, as broadly defined, and have demonstrated remarkable promise of future accomplishments.

Joanna Wysocka Takes Mossman Award



AAA's 2013 Harland Winfield Mossman Award in Developmental Biology goes to Joanna Wysocka, who will present an award lecture entitled "Enhancer-mediated Regulation of Developmental Gene Expression" at the AAA Annual Meeting at EB 2013.

The award recognizes Wysocka for her prominent role in the study of epigenetic of regulation gene expression in developmental biology, using biochemical approaches in her investigations of chromatin in embryonic stem cells and in embryos leading to seminal contributions such as purification of a human H3K4 methyltransferase complex and identification of a histone methyl-lysine reader.

According to nominator Roel Nusse, Wysocka is not only a "rising star in the area of epigenetic regulation," but is also an extremely supportive and effective mentor and a "thoughtful and engaging speaker, whose enthusiasm for science is able to win every audience."

Wysocka received her M.Sc. from Warsaw University in molecular biology and her Ph.D. in biochemistry from the Polish Academy of Sciences and Cold Spring Harbor Laboratory. After being a Postdoctoral Fellow in C. David Allis's laboratory at

Rockefeller University, she joined Stanford University School of Medicine in 2006, where she is now assistant professor in the departments of Chemical and Systems Biology and Developmental Biology

Among her honors, Wysocka received a Polish Ministry of Education Scholarship for Outstanding Student (1994-1998), a Frederick E. Terman Fellowship (2006–2009), a CIRM New Faculty Award (2008–2013), the W.M. Keck Distinguished Young Scholar in Biomedical Research Award (2008–2013), and the International Society for Stem Cell Research Outstanding Young Investigator Award (2010).

AAA's Mossman Award is presented annually "to recognize young investigators who have made important contributions to the field of developmental biology and have demonstrated remarkable promise of future accomplishments."

Andrea Pendleton retires...

We've come a long way, AAA, and I am pleased to have played a role in bringing the society to where it is today. Yet what I take most pride in—what makes me "kvell" (to

Before AAA

use a Yiddish term that Jeff Laitman may not have mentioned yet)—is seeing those I first met as student members arrive at an AAA meeting with their own students in tow.

AAA, like any other society you belong to, may exaggerate somewhat in its promotional



After AAA

have the best symposia or the best journals. But it is no exaggeration to say that AAA is the best biomedical professional society in which to become a student member. If down

literature. After all, we can't all

become a student member. If, down the road, anyone should ponder my "legacy" as executive director, I hope AAA's commitment to its student members is part of what comes to mind. .

Best wishes,

Indua Pendleton Andrea Pendleton

AAA Executive Director

Note: This is part of Andrea's farewell note published in the AAA News (Dec 2012), Vol. 21 (4)

UPCOMING ANATOMY MEETINGS

CALENDAR OF MEETINGS

2013

31 January - 1 February 2013

Swiss Society for Anatomy, Histology and Embryology

LS² Annual Meeting «(R)evolutions in Biology»:, Zurich, Switzerland http://www.ssahe.ch/meetings.html

22-25 March 2013

Anatomische Gesellschaft

Annual Meeting, Magdeburg, Germany http://www.anatomische-gesellschaft.de

20-24 April 2013

American Association of Anatomists

125th Anniversary - Annual Meeting at Experimental Biology (EB): Boston, USA http://www.anatomy.org

20-24 April 2013

Anatomical Society of Southern Africa

41st Annual Meeting: Durban, South Africa http://www.assa2013.ukzn.ac.za/

http://www.assa2013.ukzn.ac.za/

24-26 May 2013

5th International Symposium of Clinical and Applied Anatomy (ISCAA) and the 1st Paneuropean Meeting of Anatomists (PAM)EACA Joint Meeting

Graz, Austria

http://www.iscaa-pma-graz.at

25-30 May 2013

The Human Anatomy and Physiology Society

27th Annual Conference, Las Vegas, US http://www.hapsweb.org

26-29 June 2013

BACA-EACA Joint Meeting

Lisbon, Portugal

www.eaca2013.com

4-5 July 2013

Anatomical Society of Great Britain & Ireland

Form and Function in Regenerative Medicine: Dublin, Ireland http://www.anatsoc.org.uk

9-13 July 2013

American Association of Clinical Anatomists

30th Annual Scientific Session: Denver, Colorado, USA

http://www.aacameeting.wildapricot.org

5-7 September 2013

Sociedad Anatomica Espanola (SAE)

XXVI congreso de la Sociedad Anatómica Española: Fuerteventura, Canary Islands, Spain

10-13 September 2013

International Symposium on Morphological Sciences XXIII ISMS, Nigata Japan

http://www.isms2013.jp

20-22 September 2013 Italian Association of Anatomy and Histology

67° Congresso Nazionale:, Brescia, Italy http://www.societaitalianadianatomia.unifi.it

28-30 November Australian and New Zealand Association of Clinical Anatomists

University of Queensland, Brisbane, Australia

2014

8-10 August 2014

The 18th Congress of the International Federation of Associations of Anatomists, Beijing, China

MEETING ANNOUNCEMENTS

Scientific Conference or Education Forum? Find It All at the AAA Annual Meeting/EB 2013

Whether you want to keep up-to-date on science, get up to speed on the latest teaching innovations, find out how to better manage workplace conflict, or just catch up with colleagues, AAA's Annual Meeting at EB 2013 is definitely the place to be - April 20-24, 2013 in Boston, MA.

Important Deadlines

Late-Breaking Abstract Submission – February 21 Early Registration – February 22 Save \$\$\$ if you're an AAA member! Banquet Tickets – April 1

Proposals for EB 2014 – February 15 (education) & March 15 (scientific & professional development)

Hotel Reservations – March 22

HERE'S WHAT'S NEW FOR 2013!

KEYNOTE LECTURE -Sean Carroll, Monday, April 22, 4:30pm

Evo-Devo and an Expanding Evolutionary Synthesis

MORNING PLENARY SESSION (Sunday, Monday & Tuesday)

- Evolutionary/Developmental Biology Cliff Tabin, Neil Shubin, and Nipam Patel
- Cell Biology W. James Nelson and Sandra Schmid
- Anatomical Sciences Education: The Future Frederic W. Hafferty and David Hirsh
- Paleontology and Functional Anatomy Lawrence M. Witmer, Carol Ward, and Matt Ravosa
- Neuroscience Jeff Lichtman and Javier deFelipe
- Imaging Modalities Scott Fraser, Nadine Peyrieras, and Charles Little

EDUCATION & TEACHING TRACK HIGHLIGHTS

- Master Class: Team Based Learning in Anatomy Curriculum
- Refresher Course: Histology Teaching Past, Present & Future
- Current Research on Curricular Changes and Their Impact on Student Knowledge
- Curricular Integration: How Has It Affected Teaching and Learning in Gross Anatomy?
- Educational Community Outreach: Get Inspired and Get Out There!
- Teaching Innovations in Anatomy I & II

PROFESSIONAL DEVELOPMENT — Saturday, April 20, 8:00 am - 12:30 pm

- Managing Workplace Conflict: Part 1 Understanding Conflict: Assessing Your Own Tendencies
- Managing Workplace Conflict: Part 2 Developing Core Skills for Managing Conflict

You'll find the updated AAA program at www.anatomy.org, along with details on how to register, make hotel reservations, and submit a late-breaking abstract. For additional information or assistance, contact us at <exec@anatomy.org> or 301-634-7910.

Find it all at

www.anatomy.org See you in Boston!

41st Conference of the Anatomical Society of Southern Africa (ASSA)

It gives us great pleasure to announce the hosting of the 41st ASSA Conference by the Discipline of Clinical Anatomy (DOCA) in the School of Laboratory Medicine and Medical Sciences (LM&MS), College of Health Sciences, University of KwaZulu-Natal (UKZN).

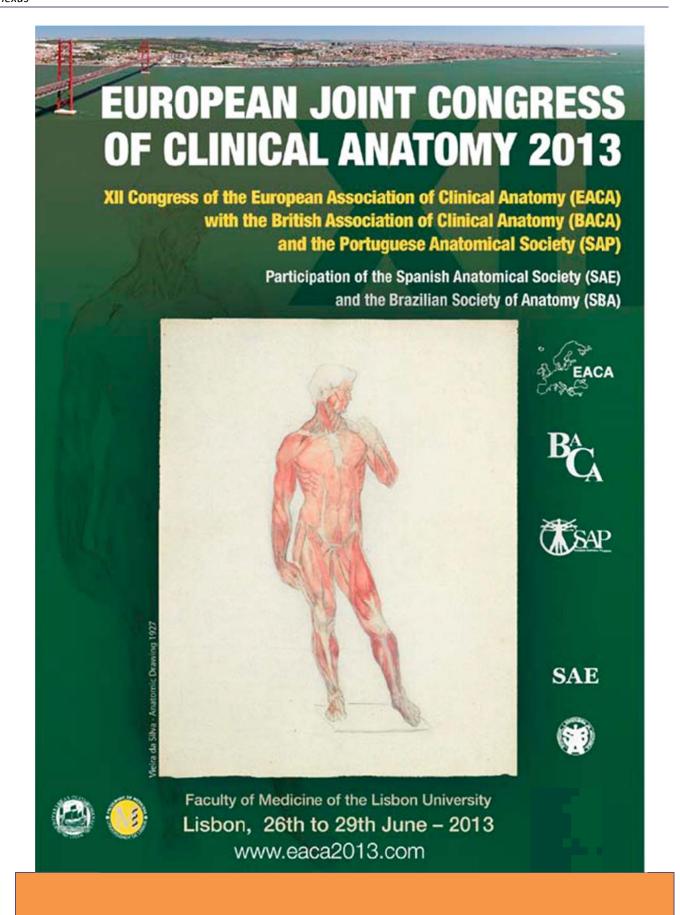
The conference will be held from the 20-24th April 2013 at two venues, the Elangeni Hotel on the Durban Beachfront, and the Graduate School of Business & Leadership (GSBL) on the Westville Campus of UKZN.

The programme consists of two half-day afternoon pre-conference symposia on Saturday 20th April 2013 (Clinical Anatomy Interest Group) and Sunday 21st April 2013 (Forensic Anthropology Interest Group). These are to be held at the Elangeni Hotel on the beachfront. These will be followed by a two-and-a-half day academic programme from Monday 22nd to Wednesday 24th April 2013 at the GSB. A parallel technical training programme will be conducted on Monday 22nd April 2013.

Members of ASSA, both old and new, as well as members of International Anatomical Societies are encouraged to join us in Durban, South Africa for ASSA 2013. Abstract submission closes on 15 February 2013 and more details can be found at http://www.assa2013.ukzn.ac.za/

MR Haffajee University of KwaZulu-Natal





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 - Novel finding that Xenopus laevis pronephric kidneys are capable of regenerating functional proximal tubules within 3 weeks of nephrectomy.
 - Apoptosis occurs within hours of nephrectomy. This event is not a general response to injury, but rather coincides with tubule excision.
 - Xmmp-9 is expressed in a biphasic pattern during the first week after removal of the proximal pronephric tubules. The timing
 of the first phase of expression is consistent with facilitating the wound healing process, whereas the second phase may be
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- 230 Expression of Neurogenin 1 in Mouse Embryonic Stem Cells Directs the Differentiation of Neuronal Precursors and Identifies Unique Patterns of Down-stream Gene Expression
 - J. Matthew Velkey and K. Sue O'Shea
 - Inducible expression of Neurogenin1 in ESC provides a novel model of neurogenesis.
 - Pulsed expression of Neurogenin1 produces PNS and CNS neuronal sub-types.
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 - PDGF receptor alphapositive mesoderm contributes to endothelial and hematopoietic cells in physiological mouse embryogenesis.
 - PDGF receptor alphapositive mesoderm in early embryo is distinct from yolk sac blood island mesoderm, representing a source of hematopoietic cells on the embryo proper side.
 - Genetic manipulation of Etv2 or Runx1 in PDGF receptor alphapositive mesoderm demonstrates the functional significance
 of this mesoderm subset in vascular development and hematopoiesis.

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- A Systematic Survey of Carbonic Anhydrase mRNA Expression During Mammalian Inner Ear Development Ling Wu, Borum Sagong, Jae Young Choi, Un-Kyung Kim, and Jinwoong Bok
 - A systematic survey for transcripts of all 16 mammalian carbonic anhydrase isozymes in various organs showed that each organ expresses unique combinations of carbonic anhydrase isozymes.
 - During inner ear development, transcripts of four cytosolic isozymes (Car1, Car2, Car3, and Car13), two membrane-bound isozymes (Car12 and Car14), and two CA-related proteins (Car8 and Car11) were expressed at higher levels than other isozymes.
 - Each isozyme showed a unique temporal and spatial expression pattern during inner ear development.
 - Expression patterns for some isozymes closely overlapped with genes previously associated with inner ear development or function, such as Pendrin, Pou3f4, or Bmp4.

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281 During Embryogenesis, Esrp1 Expression is Restricted to a Subset of Epithelial Cells and is Associated with Splicing of a Number of Developmentally Important Genes

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- The splicing factors Esrp1 and Esrp2 are differentially expressed in a time- and tissue-dependent manner during mouse embryogenesis.
- The expression of Esrp1 correlates with the alternative splicing of Cask-1, Dock-7 and Osbpl3.
- Using in situ RNA hybridization, we show that expression of Esrp1 is ubiquitous in E6.5 embryos, then becomes restricted to the chorion and definitive endoderm at E7.5.
- Esrp1 expression is restricted in a subset of epithelial cell types in later staged mouse embryos.

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291 Activation of the Canonical WNT Signaling Pathway Promotes Ovarian Surface Epithelial Proliferation Without Inducing β-Catenin/ Tcf-Mediated Reporter Expression

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- B-catenin is localized to the cell membrane of OSE during postnatal development.
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