

Welcome to the September issue of Anastomosis. In this issue, we bring you the latest news from our members and keep you updated on upcoming deadlines. We also highlight some interesting news articles from the past month.

## Deadlines

Mark your diary!

The **Winter meeting of the Society** will take place at Magdalene College, University of Cambridge from **14-16 December 2015**. The theme is "Back to the Future" focusing on the past, present and future of the pursuit of anatomical knowledge, and there will be an Education Symposium on "Establishing a Para-Curriculum in Anatomy". Speakers at the meeting will include Stephen Barclay (University of Cambridge), Sarah Channon (Royal Veterinary College), Augusto Coppi (University of Surrey), Mick O'Dea (Royal Hibernian Academy Ireland) and Susan Standing MBE (King's College). Early bird registration closes **19 October 2015** and abstract submission closes **14 November 2015**.

The first call for the **7<sup>th</sup> Asia Pacific International Congress of Anatomists** to be held in Singapore from **17-20 March 2016** has been published. Themes for the meeting cover all aspects of anatomy including simulation, virtual reality and 3D printing. Abstract submission deadline is 15 November 2015.

## People

[Nominations to serve on the Council of the Society](#)

The Anatomical society invites nominations for 3 members to serve on Council for a term of three years. Nominations must include a declaration signed by the nominee indicating that he/she is willing to stand for Council, and requires signatures from the three members who are supporting the application (each supporter may sign a separate copy of the form). Nominations must be received no later than **Friday 9<sup>th</sup> October 2015**. <http://www.anatsoc.org.uk/AboutUs/CouncilandOfficers/NominationsforCouncilVacancies2016.aspx>

## Research

### Journal of Anatomy: location, location, location

The importance of location and positioning of signaling factors and cells during the development of limbs is the focus of a fascinating review of limb bud embryology by Cheryl Tickle of the University of Bath (UK). The review explores the evidence related to key transcription factors involved in the process of limb bud development and you can read more about this in the paper entitled "How the embryo makes a limb: determination, polarity and identity" in the October issue of the Journal of Anatomy at <http://onlinelibrary.wiley.com/doi/10.1111/joa.12361/full>

### Aging Cell: mitochondria and the aging muscle

We all recognize the reduction in muscle mass that is associated with growing old but Nashwa Cheema and colleagues in the University of Alberta (Canada) were curious about the role of mitochondrial mutations and subsequent dysfunction in the process. Details of their findings suggesting a progressive deterioration starting with mitochondrial DNA deletions are outlined in their paper "Apoptosis and necrosis mediate skeletal muscle fiber loss in age-induced mitochondrial enzymatic abnormalities" in the journal Aging Cell at <http://onlinelibrary.wiley.com/doi/10.1111/accel.12399/full>

## Graduate Center

### Support for Student Societies

The Society provides up to 6 competitive awards to support Student Surgical Societies and Other Student Societies. Applications for maximum funding of £200 are considered on a rolling basis (1 October to 30 September). More details at [www.anatsoc.org.uk](http://www.anatsoc.org.uk)

## Calendar

### October

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

### Best Image Prize Deadline October 31, 2015

The next deadline for the Society's Best Image Prize is 31 October 2015. The size limit for submitted images has increased to 1.0MB.

### Royal Society Grants

**International Exchanges** for scientists in the UK who wish to stimulate new collaborations through one-off visits or bilateral travel. Closes 12 October 2015.

**Newton Mobility Grants** for international scientists to fund travel, subsistence and research expenses for one-off or bilateral visits. Closes 13 October 2015.

**Brian Mercer Feasibility Award** for scientists who wish to commercialise an aspect of their research. No deadline.

**Royal Society Research Professorship** for world-class scientists to focus on research and collaboration based in the UK. Closes 3 November 2015.

## Opportunities

### Job Vacancies

The **University of Dundee** is inviting applications for the position of **Senior Anatomy Technician**. The duties of the successful applicant will include cadaver provision for undergraduate and postgraduate teaching, for clinical and surgical skills training, and for a variety of research projects across the university. Closing date: **29 September 2015**

Applications are being accepted for a **Senior Teaching Fellow (Anatomy)** at **University of Warwick** – Warwick Medical School who will contribute to teaching of clinically applied human anatomy, embryology and medical imaging to students in graduate-entry medicine and postgraduate healthcare disciplines. Closing date: **14 October 2015**

The **University of Leicester** is inviting applications for **Clinical Teaching Fellows in Medical Education** to teach undergraduate medical students and develop their teaching and clinical educational skills. Successful applicants will also undertake a qualification in Academic Practice, and gain experience for a possible future role in medical education. Closing date: **14 October 2015**

The **University of Central Lancashire** - School of Medicine wishes to appoint a **Lecturer in Medical Sciences (Anatomy)** to contribute to teaching, course co-ordination and the development of research and knowledge transfer opportunities. Responsibility will focus primarily on the teaching of dental students at undergraduate and postgraduate levels, and dental care professionals. Closing date: **18 October 2015**

### Training Opportunities: Royal Society of Biology Courses

The following Royal Society of Biology courses are available to staff and members of the Anatomical Society at discounts of up to 50%:

- Microscopy art; painting and studying insect lifecycles, 23.10.15, Stroud, A unique and absorbing watercolour painting course for beginners and improvers.
- Persuasive scientific report writing, 16.11.15, London, For writers of technical, scientific and other related reports or documents, who wish to improve their report and general document writing skills
- Science communication workshop, 25.11.15, London, How to engage the public with science and get your message across effectively
- Commercial awareness for life scientists, 03.02.16, Edinburgh, For scientists working in industry and post-docs/PhD students considering a career in industry



Items should reach the editors a minimum of 30 days before the date that the event is scheduled to take place.



If you have any news, events or announcements that you would like to see published in the newsletter, send us an email

# Journal of Anatomy

Volume 227, Issue 4, Pages 383–583, October 2015

## Mini-symposium on GABAergic neurotransmission in the human cerebral cortex

- 383 Introduction: GABAergic neurotransmission in the human cerebral cortex: same rules apply?  
*G. Clowry and M. Cunningham*
- 384 An enhanced role and expanded developmental origins for gamma-aminobutyric acidergic interneurons in the human cerebral cortex  
*G.J. Clowry*
- 394 Single-cell recordings in the human medial temporal lobe  
*H.G. Rey, M.J. Ison, C. Pedreira, A. Valentin, G. Alarcon, R. Selway, M.P. Richardson and R. Quiñero Quiroga*
- 409 Structural and neurochemical correlates of individual differences in gamma frequency oscillations in human visual cortex  
*S.E. Robson, S.D. Muthukumarawamy, C.J. Evans, A. Shaw, J. Breal, B. Davis, G. McNamara, G. Perry and K.D. Singh*

## Review Article

- 418 How the embryo makes a limb: determination, polarity and identity  
*C. Tickle*

## Original Articles

- 431 Topography and extent of pulmonary vagus nerve supply with respect to transthoracic oesophagectomy  
*T.J. Weijs, J.P. Ruurda, M.D.P. Luyer, G.A.P. Nieuwenhuijzen, R. van Hillegersberg and R.L.A.W. Bleys*
- 440 The human medial amygdala: structure, diversity, and complexity of dendritic spines  
*A. Dall'Oglio, A.C.L. Dutra, J.E. Moreira and A.A. Rasia-Filho*
- 460 Analysis of the volumetric relationship among human ocular, orbital and fronto-occipital cortical morphology  
*M. Masters, E. Bruner, S. Queer, S. Traynor and J. Senjem*
- 474 Analysis of human soft palate morphogenesis supports regional regulation of palatal fusion  
*A. Danescu, M. Mattson, C. Dool, V.M. Diewert and J.M. Richman*
- 487 Apoptosis and reduced microvascular density of the lamina propria during tooth eruption in rats  
*J.P. de Pizzol Júnior, E. Sasso-Cerri and P.S. Cerri*
- 497 Does 3D orientation account for variation in osteon morphology assessed by 2D histology?  
*C. Hennig, C.D.L. Thomas, J.G. Clement and D.M.L. Cooper*
- 506 MRI-determined lumbar muscle morphometry in man and sheep: potential biomechanical implications for ovine model to human spine translation  
*S. Valentin, T.F. Licka and J. Elliott*
- 514 Ankylosaurid dinosaur tail clubs evolved through stepwise acquisition of key features  
*V.M. Arbour and P.J. Currie*
- 524 Epaxial muscle fiber architecture favors enhanced excursion and power in the leaper *Galago senegalensis*  
*E. Huq, C.E. Wall and A.B. Taylor*
- 541 Human sperm liver receptor homolog-1 (LRH-1) acts as a downstream target of the estrogen signaling pathway  
*D. Montanaro, M. Santoro, A. Carpino, I. Perrotta, F. De Amicis, R. Sirianni, V. Rago, S. Gervasi and S. Aquila*
- 550 Comparative study of the primary cilia in thyrocytes of adult mammals  
*J.C. Utrilla, F. G-. Martínez, A. G-. Pascual, J.M. F-. Santos, C. Garnacho, V. V-. Román, J. M-. Bernal, R. G-. Marín, A. J-. García and I. M-. Lacave*
- 561 Ultrastructure of dragonfly wing veins: composite structure of fibrous material supplemented by resilin  
*E. Appel, L. Heepe, C.-P. Lin and S.N. Gorb*

Information on this journal can be accessed at: <http://www.journalofanatomy.com>

Cover illustration: How the ankylosaur got its tail club. Early ankylosaurs like *Mymoorapelta*, from the Jurassic of North America (blue), had flexible tails like other dinosaurs. By the mid Cretaceous, some ankylosaurs in China, like *Gobisaurus* (yellow), had evolved a stiffened distal tail. The large knob of bone at the tip of the tail evolved later, and is characteristic of the clade of ankylosaurs called ankylosaurines, represented here by *Ziapelta* (red and life restoration) from the Late Cretaceous of New Mexico. Image by Victoria Arbour; life restoration of *Ziapelta* by Sydney Mohr first appeared in Arbour et al. (2014), PLOS ONE 9:e108804, and is used here under the Creative Commons Attribution License. See V. Arbour and P. Currie, 'Ankylosaurid dinosaur tail clubs evolved through stepwise acquisition of key features.' *Journal of Anatomy* (2015) 227:4, 514–523.

**WILEY**  
Blackwell

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Next  
deadline

Oct 31

# ANASTOMOSIS

Anatomical Society Best Image Prize

CALL FOR SUBMISSIONS

**Name of Award:**

**Anatomical Society Best Image Award**  
**Applicants: Anatomical Society Members**

**Awarded: Twice a year**

**Judging Panel: Website Committee**

**Amount Awarded: £200 twice a year**

**Deadline dates for next 2 prizes:**

**31 October 2015, 31 May 2016**

**Submit at [www.anatsoc.org.uk](http://www.anatsoc.org.uk)**

**Images:** Should be a single colorful graphical image minimum 75 dpi and a maximum size of 1.0MB for use on Society website/ newsletter. Consent from people appearing in any photos is required. A title (no more than 3 words) and short 50-word narrative should accompany the image (for example: what it is; how it was produced; why it is special). **Number of images:** An applicant may submit not more than 3 images for any one competition.

**Copyright:** Applicants submitting images must either own the copyright to the image or have gained the explicit permission of the copyright holder for the image to be submitted for this competition. A copyright statement must accompany each application.

**Images on this poster:**  
**Crispin Wiles, Tanya Shaw**