

Welcome to the February 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 Anatomical Society will be a guest society of the American Association of Anatomists (AAA) at the **Experimental Biology meeting in Boston, USA: 28th March to 1st April 2015**. The Society will be holding two symposia at the meeting: Creation of tissue-like structures using advanced technologies, and Keep calm and carry on teaching. Members can apply for Symington grants to support travel to the meeting; the deadline for applications is **5th March 2015**.

### Undergraduate Summer Vacation Research Scholarships 2015

Applications are currently being invited from prospective supervisors for the Undergraduate Summer Vacation Research Scholarships 2015 for research in the anatomical sciences (including anatomy education) for a 4 to 10 week period. The Society is offering up to 5 bursaries this year, up to a maximum of £2,500 each (comprising a stipend £180pw and a bench fee of £70pw). Emails and enquiries regarding eligibility should be directed to the Anatomical Society Office (maryanne.piggott@kcl.ac.uk). Closing date for applications is midnight **Wednesday 1st April 2015**.

The **European Federation for Experimental Morphology (EFEM)** is offering up to 4 research travel grants, each of €750, for travel between anatomical and morphological institutes in Europe. Closing date for applications is **Sunday March 1, 2015**. Apply at [www.efem.eu/grants.php](http://www.efem.eu/grants.php)

The initial announcement for the **7th International Symposium of Clinical and Applied Anatomy** in Bratislava, Slovakia in **September 2015** has been published. You can read more about the symposium at [www.iscaa2015.sk](http://www.iscaa2015.sk)

## People

### Symington Bequest Awards 2015 - Round 2

**Dr Sam Cobb, Dr Phil Cox, Dr Laura Fitton, Professor Kieran McDermott, Dr Jennifer Paxton, Dr Adam Taylor, Dr Abigail Tucker, Dr Sam Webster, Professor Tracey Wilkinson** – to participate in the 2015 Experimental Biology 2015, American Association of Anatomists (AAA), 28th March 2015 to 1st April 2015, Boston, USA. Including the AS Guest Society Symposium.

**Dr Alanna Stanley** – to participate in the 42nd Annual Meeting of the Society for Cutaneous Ultrastructure Research, 12th to 14th March 2015, Mannheim, Germany.

### National Undergraduate Neuroanatomy Competition

Registration for the 2015 National Undergraduate Neuroanatomy Competition has opened. The event, which consists of paper-based and practical examinations, will be held on **March 28 2015** and will feature a guest lecture from past Society President Professor Susan Standing. Details are available at [www.natneurocomp.co.uk](http://www.natneurocomp.co.uk)

### Obituary

The Society has learned with sadness of the passing of Dr. Marjorie England BA, PhD, past President of the Institute of Anatomical Sciences. Dr. England joined the Anatomical Society in 1972.

## Research

### Journal of Anatomy: rodent bites like an elephant

When a rodent has a body mass nearly equal to a Mini Cooper hatchback, the way it bites suddenly becomes intriguing. Enough for Philip Cox at Hull University and col-

## Calendar

### March

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				

**28 Mar-1 Apr 2015** – Boston. Guest society at Experimental Biology 2015

### Best Image Prize Winners

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

### Society Awardee Report

Many thanks to **Katie Hoban** and **Eddie Kane** at **Edinburgh University** who reported back from the Edinburgh University Neurological Society National Conference on 7th February 2015 which was supported by a **Student Societies Award** from the Anatomical Society.

### Gray's Anatomy Art Contest

Submissions are being invited for original artwork for the Gray's Anatomy Art Contest that offer clear, striking, novel or innovative views of anatomy relevant to modern clinical practice for a Grand Prize of \$1000. Submissions will be accepted until 27 February 2015.

leagues in Montevideo, Uruguay to examine bite force and cranial biomechanics. If you would like to find out how they arrived at the conclusion that the fossil rodent *Josephoartigasia monesi* bites with great force and behaves like an elephant, you will find their study "Predicting bite force and cranial biomechanics in the largest fossil rodent using finite element analysis" in the March issue of the Journal of Anatomy at <http://onlinelibrary.wiley.com/doi/10.1111/joa.12282/full>.

#### **Aging Cell: stem cells, diet, aging and cancer**

The complex relationship between aging, germline stem cells, regulatory insulin signaling, and stem cell division is examined by Shih-Han Kao and colleagues at Academia Sinica in Taipei, Taiwan. Their report of accumulation of tumorous stem cells and the link between ovarian cancer and aging is described in their study "Aging and insulin signaling differentially control normal and tumorous germline stem cells" in the March issue of Aging Cell at <http://onlinelibrary.wiley.com/doi/10.1111/accel.12288/full>

#### **Graduate Center**

##### **L'Oréal-UNESCO Women in Science Fellowships**

Applications are being invited for five L'Oréal-UNESCO for Women in Science UK & Ireland Fellowships worth £15,000 (equivalent Euros for candidates in Ireland) to outstanding female scientists to support research in the fields of life, physical and computer sciences, engineering and mathematics. Fellowships are tenable at any UK or Irish university or research institute to support a 12-month period of research. More information at [www.womeninscience.co.uk](http://www.womeninscience.co.uk). Closing date: **13 March 2015**

##### **New Support for Student Societies**

The Society has created a new series of awards for supporting Student Societies. Applications for funding from Student Surgical Societies and Other Student Societies for up to 6 awards per funding cycle (1 October to 30 September) will be considered by the Society. Each award will be for a maximum of £200. More details at [www.anatsoc.org.uk](http://www.anatsoc.org.uk)

#### **Vacancies**

##### **Job Vacancies**

Applications are being invited for two permanent and temporary (5 year) posts as **Lecturer in Anatomy** at **University College Dublin** School of Medicine and Medical Science. Successful applicants are expected to develop and maintain research programmes that are aligned with the School Research Strategy. Closing date: **26 March 2015**

The **University of Bristol** Centre for Comparative and Clinical Anatomy, is inviting applications for **5 Anatomy Demonstrators** to teach human anatomy to medical, dental and science students, and also be involved in teaching on external anatomy courses to allied healthcare professionals. Closing date: **8 March 2015**

Applications are invited for a **Lecturer/Senior Lecturer - Cell Biology Anatomy** to teach human anatomy and contribute to teaching in the Biomedical Science, Exercise Science and Medical Radiation programs as well as service teaching into Chiropractic, Osteopathy and Chinese Medicine programmes at the **RMIT University** in Melbourne, Australia. Closing date: **11 March 2015**.

#### **Royal Society Funding Opportunities**

**Brian Mercer Feasibility Award** for scientists who wish to investigate the feasibility of commercialising an aspect of their research is currently open.

#### **Art is Good Medicine 2015 Exhibit**

**Brian Mercer Feasibility Award** for Second year medical students at Bond University in Australia are creating mixed media art on any medical topic for exhibition for the community. The artwork celebrates the humanity of medicine and seeks to raise funds to support the exhibit. The campaign ends **5 March 2015**. You can read more at <https://chuffed.org/project/art-is-good-medicine-2015-exhibit/>.



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 226, Issue 3, Pages 215–300, March 2015

## Original Article

- 215 Predicting bite force and cranial biomechanics in the largest fossil rodent using finite element analysis  
*P.G. Cox, A. Rinderknecht and R.E. Blanco*

## Brief Communication

- 224 Bone shaft bending strength index is unaffected by exercise and unloading in mice  
*I.J. Wallace, S. Gupta, J. Sankaran, B. Demes and S. Judex*

## Original Articles

- 229 Testing hypotheses of bat baculum function with 3D models derived from microCT  
*A.N. Herdina, D.A. Kelly, H. Jahelková, P.H.C. Lina, I. Horáček and B.D. Metscher*
- 236 A potential mechanism for allometric trabecular bone scaling in terrestrial mammals  
*P. Christen, K. Ito and B. van Rietbergen*
- 244 Clarifying the morphology of the ostium primum defect  
*R.H. Anderson, T.J. Mohun and N.A. Brown*
- 258 Let bone and muscle talk together: a study of real and virtual dissection and its implications for femoral musculoskeletal structure of chimpanzees  
*N. Morimoto, G. Suwa, T. Nishimura, M.S. Ponce de León, C.P.E. Zollikofer, C.O. Lovejoy and M. Nakatsukasa*
- 268 Human articular chondrocytes express functional leukotriene B4 receptors  
*A.K. Hansen, J.-T. Indrevik, Y. Figenschau, I. Martinez-Zubiaurre and B. Sveinbjörnsson*
- 278 Crimp morphology in the ovine anterior cruciate ligament  
*L. Zhao, A. Thambyah and N. Broom*

## Review Article

- 289 Thomas Willis, a pioneer in translational research in anatomy (on the 350th anniversary of *Cerebri anatome*)  
*L.-A. Arráez-Aybar, P. Navia-Álvarez, T. Fuentes-Redondo and J.-L. Bueno-López*

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

Cover illustration: Digital reconstruction of the skull of *Josephoartigasia monesi* in ventral and lateral views. Scaled reconstruction of the mandible of *Lagostomus maximus* used to estimate masticatory muscle orientations also shown in lateral view. See Cox et al., 'Predicting bite force and cranial biomechanics in the largest fossil rodent using finite element analysis'. in the issue of *Journal of anatomy* (2015) 226:3, 215–223.

**WILEY**  
Blackwell

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**Wiley Online Library**  
[wileyonlinelibrary.com](http://wileyonlinelibrary.com)

May  
31

Next  
deadline

CALL FOR SUBMISSIONS

# ANASTOMOSIS

## Anatomical Society Best Image Award

*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 May 2015, 31 October 2015*

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

*Images: Should be colorful graphical images 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 short 50-word narrative should accompany the image (for example: what it is; how it was produced; why it is special).*

*Number of images: Any applicant may submit more than one image.*

*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:*

*James Turbett, Luc Bidaut*