The Society for Endocrinology is one of the world’s leading authorities on hormones. Established in 1946, the Society’s aims are to support the advancement of scientific and clinical knowledge and increase research in endocrinology for the public benefit. It also plays a vital role in promoting and supporting endocrinology worldwide.

The Society for Endocrinology offers a range of journals including *Journal of Endocrinology*, *Journal of Molecular Endocrinology*, *Endocrine-Related Cancer*, *Endocrine Connections* (open access) and *Clinical Endocrinology*.

For more information visit [www.endocrinology.org](http://www.endocrinology.org).

**THIS ISSUE’S COVER**

Readers are invited to submit their endocrinology images for entry into the *Journal of Endocrinology* cover art competition. Winners will be selected by the Editor-in-Chief and will have their imagery featured on the cover of an issue of *Journal of Endocrinology*, both in print and online. Winners will be cited in the journal and will receive a professionally printed copy of the journal cover featuring their scientific image.

To enter the competition please email your images to joe@endocrinology.org accompanied with a short caption of 25-30 words explaining what the image depicts, its magnification and who should be acknowledged for its production. Images should be of high quality and resolution of at least 300 dpi at the final published size 220 mm (W) × 100 mm (H).

By submitting an image you warrant that you own the copyright and agree that images may be used in promotional material. Images not selected for use may still be used by the Society for Endocrinology and Bioscientifica for promotional purposes.

**COVER ART COMPETITION**

The image depicts cultured differentiated podocytes incubated with adipocyte-conditioned medium and an IgG isotype antibody. F-actin is stained red, cell nuclei are stained blue. This study demonstrates that adipocyte-derived factors can impair renal function and that adipocyte-derived factors play an important role in obesity-related podocytopathy. From Chen et al. 2016 231 109–120.

**Contents continued from outside back cover**

**Paternal hyperglycemia in rats exacerbates the development of obesity in offspring**

Xiaogin Shi, Xinyu Li, Huaihai Wu, Xinmei Cao, Yujuan Zhang, Heng Wang, Huiying Wang, Chuan Peng, Jian Li, Qifa Li, Chaidong Wu & Xiaojun Xiao

175-186

**IGF1 stimulates greater muscle hypertrophy in the absence of myostatin in male mice**

Alexander Hennebry, Jenny Oldham, Tea Shavlakadze, Miranda D Grundy, Philip Shaun, Marla L Fiorotto, Shelley Falconer, Heather K Smith, Carole Berry, Ferenc Jeanglont, Jeremy Bracegirdle, Kenneth Matthews, Gina Nicholas, Monica Sena-Salerno, Trevor Watson & Christopher D McMahon

187-200

**Role of miR-383 and miR-146b in different propensities to obesity in male mice**

Shu-Fang Xia, Xiao-Mei Du, Xiang-Rong Cheng, Li-Mei Chen, Yan-Jun Kang, Peng Wang, Xue Tang, Yong-Mu Su & Guo-Wei Le

201-216

**Origin of a rapidly evolving homeostatic control system programming testis function**


217-232

**Role of miR-383 and miR-146b in different propensities to obesity in male mice**

Shu-Fang Xia, Xiao-Mei Du, Xiang-Rong Cheng, Li-Mei Chen, Yan-Jun Kang, Peng Wang, Xue Tang, Yong-Mu Su & Guo-Wei Le

201-216

**IGF1 stimulates greater muscle hypertrophy in the absence of myostatin in male mice**

Alexander Hennebry, Jenny Oldham, Tea Shavlakadze, Miranda D Grundy, Philip Shaun, Marla L Fiorotto, Shelley Falconer, Heather K Smith, Carole Berry, Ferenc Jeanglont, Jeremy Bracegirdle, Kenneth Matthews, Gina Nicholas, Monica Sena-Salerno, Trevor Watson & Christopher D McMahon

187-200

**Origin of a rapidly evolving homeostatic control system programming testis function**


217-232

**Contents continued from outside back cover**