

**TABLE OF CONTENTS**  
**Volume 3, Number 3, August 2013**

**ANP impairs the dose-dependent stimulatory effect of ANG II or AVP on H<sup>+</sup>-ATPase subcellular vesicle trafficking**  
M. Oliveira-Souza, P. Morethson, G. Malnic, M. Mello-Aires.....95

**Discrimination between upper versus lower airway components to the rise of total airway resistance measured by Pennock's method after nasal irritant challenge**  
Z. Biringerova, S. Gavliakova, E. Hanuskova, T. Buday, J. Plevkova.....104

**Low-dose morphine elicits ventilatory excitant and depressant responses in conscious rats: Role of peripheral  $\mu$ -opioid receptors**  
F. Henderson, W. J. May, R. B. Gruber, A. P. Young, L. A. Palmer, B. Gaston, S. J. Lewis.....111

**Novel genomic biomarkers for acute gentamicin nephrotoxicity in dog**  
J. E. McDuffie, J. J. Gao, J. Y. Ma, D. La, A. Bittner, M. Sonee, M. Wagoner, S. Snook.....125

**Morphine has latent deleterious effects on the ventilatory responses to a hypoxic-hypercapnic challenge**  
W. J. May, F. Henderson, R. B. Gruber, J. F. Discala, A. P. Young, J. N. Bates, L. A. Palmer, S. J. Lewis.....134

---

The figure on the front cover is from the article published in Open Journal of Molecular and Integrative Physiology, 2013, Vol. 3, No. 3, pp. 95-103 by M. Oliveira-Souza, P. Morethson, G. Malnic, M. Mello-Aires.