

# JOURNAL OF BIOLOGICAL REGULATORS & HOMEOSTATIC AGENTS

Volume 28, No. 3, July - September, 2014

## CONTENTS

### Editorials

- L. Brizhik and A. Foletti.** Nonlinear quantum phenomena and biophysical aspects of complexity related to health and disease 357
- V. Chirico, A. Lacquaniti, V. Salpietro, M. Buemi, C. Salpietro and T. Arrigo.** Central precocious puberty: from physiopathological mechanisms to treatment..... 367
- S.K. Kritas, A. Saggini, G. Cerulli, A. Caraffa, P. Antinolfi, A. Pantalone, M. Rosati, M. Tei, A. Speziali, R. Saggini and P. Conti.** Relationship between serotonin and mast cells: inhibitory effect of anti-serotonin..... 377

### Original articles

- A. Moshiri, A. Oryan, A. Meimandiparizi and N. Maffulli.** Collagen implants in experimental tendon injury in rabbits: a clinical, ultra-structural and biomechanical investigation..... 381
- Y. Shimizu, A. Takise, H. Morita, Y. Hosomi, N. Kasahara, T. Kawata, T. Horie, Y. Ishii and M. Yamada.** Serum glycopeptidolipid core IgA antibody levels in patients with chest computed tomography features of *Mycobacterium avium-intracellulare* complex pulmonary disease..... 399
- P.J. Robson-Ansley, A. Saini, C. Toms, L. Ansley, I.H. Walshe, M.A. Nimmo and J.A. Curtin.** Dynamic changes in DNA methylation status in peripheral blood mononuclear cells following an acute bout of exercise: potential impact of exercise-induced elevations in interleukin-6 concentration..... 407
- B. Kempisty, A. Ziółkowska, S. Ciesiółka, H. Piotrowska, P. Antosik, D. Bukowska, M. Nowicki, K.P. Brüssow and M. Zabel.** Association between the expression of LHR, FSHR and CYP19 genes, cellular distribution of encoded proteins and proliferation of porcine granulosa cells in real-time..... 419
- Y. Shimizu, Y. Shimoyama, A. Kawada, M. Kusano, Y. Hosomi, M. Sekiguchi, T. Kawata, T. Horie, Y. Ishii, M. Yamada, K. Dobashi and A. Takise.** Gastrointestinal symptoms in idiopathic pulmonary fibrosis patients treated with pirfenidone and herbal medicine..... 433
- M. Yasemi, H. Peyman, K. Asadollahi, A. Feizi, S. Soroush, A. Hematian, F.A. Jalilian, M. Emancini, M.Y. Alikhani and M. Taherikalani.** Frequency of bacteria causing urinary tract infections and their antimicrobial resistance patterns among pediatric patients in Western Iran from 2007-2009..... 443
- L.G. Lima-Neto, R.D.C. Hirata, A.D. Luchessi, V.N. Silbiger, D. Cavichioli, E.S. Dos Santos, A.G.M. Sousa, S.R.S. Sprovieri, E.B. De Sousa-Junior, F.C.P. Dos Santos, S. Colombo and M.H. Hirata.** *Chlamydophila pneumoniae* and increased *TLR4* gene expression in leukocytes are associated with acute myocardial infarction..... 449
- M. Eusebio, P. Kuna, L. Kraszula, M. Kupeczyka and M. Pietruczuk.** Allergy-related changes in levels of CD8<sup>+</sup>CD25<sup>+</sup>FoxP3<sup>bright</sup> Treg cells and FoxP3 mRNA expression in peripheral blood: the role of IL-10 or TGF- $\beta$ ..... 461
- A. Foletti, P. Baron, E. Sciauzero, G. Bucci, A. Rinaudo and R. Rocco.** Assessment of biophysical therapy in the management of pain in current medical practice compared with ibuprofen and placebo: a pilot study..... 471
- M. Colaci, M. Sebastiani, A. Manfredi, D. Giuggioli, G. Cassone, C.U. Manzini, C. Ghizzoni, S. Cerri and C. Ferri.** Lung involvement in systemic sclerosis: role of high resolution computed tomography and its relationship with other pulmonary and clinico-serological features..... 481
- S. Lumetti, S. Ferrillo, S. Mazzotta, G.M. Macaluso, M. Bonanini, G. Passeri and C. Galli.** Pharmacological GSK-3 $\beta$  inhibition improves osteoblast differentiation on titanium surfaces..... 489
- M. Currò, A.S. Montalto, P. Impellizzeri, E. Montalto, R. Risitano, T. Russo, P. Perrone, V. Chirico, T. Arrigo, C. Salpietro, C. Romeo and R. Ientile.** CO(2) pneumoperitoneum induces *in vitro* hypoxic response culminating in apoptosis of human neuroblastoma cells..... 497
- A. Ariani, F. Lumetti, M. Silva, D. Santilli, F. Mozzani, G. Lucchini, G. Delsante and N. Sverzellati.** Systemic sclerosis interstitial lung disease evaluation: comparison between semiquantitative and quantitative computed tomography assessments 507
- L. Turin, G. Manarolla and F. Riva.** Expression of TIR8 receptor in chicken tissues..... 515
- A. Santarelli, M. Mascitti, G. Orsini, L. Memè, R. Rocchetti, P. Tiriduzzi, F. Sampalmieri, A. Putignano, M. Procaccini, L. Lo Muzio and F. Bambini.** Osteopontin, osteocalcin and OB-cadherin expression in synthetic nanohydroxyapatite vs bovine hydroxyapatite cultured osteoblastic-like cells..... 523

### Letters to the Editor

- D. Mitrov, N. Hadzi-Petrushev, V. Stojkovski, E. Gjorgievska, H. Gagov and M. Mladenov.** Influence of chronic chromium exposition on the processes of lipid peroxidation inflammation and platelet activation in rats..... 531
- A. Varricchio, M. Capasso, F. Avvisati, A.M. Varricchio, A. De Lucia, F.P. Brunese and G. Ciprandi.** Inhaled hyaluronic acid as ancillary treatment in children with bacterial acute rhinopharyngitis..... 537