## JOURNAL OF APPLIED BIOMEDICINE

## CONTENTS

## Volume 16 Number 4 November 2018

- 247 Adipocytokines and new onset diabetes mellitus after transplantation DOMINIKA GOLDMANNOVÁ, JAROMÍRA SPURNÁ, ONDŘEJ KRYSTYNÍK, JAN SCHOVÁNEK, LUBICA CIBIČKOVÁ, DAVID KARÁSEK and JOSEF ZADRAŽIL
- 255 Therapeutic potential of rice-derived polyphenols on obesity-related oxidative stress and inflammation ESTHER T. CALLCOTT, ABISHEK B. SANTHAKUMAR, JIXUN LUO and CHRISTOPHER L. BLANCHARD
- 263 Effect of *Pseuduvaria macrophylla* in attenuating hyperglycemia mediated oxidative stress and inflammatory response in STZ-nicotinamide induced diabetic rats by upregulating insulin secretion and glucose transporter-1, 2 and 4 proteins expression

  HAIRIN TAHA, ADITYA ARYA, ATAUL KARIM KHAN, NAYIAR SHAHID, MOHAMMED IBRAHIM BIN NOORDIN and SYAM MOHAN
- 274 Naringenin alleviates high d-glucose-induced injuries through upregulation of microRNA-30d-5p level in human AC16 cardiac cells
  JIAMEI JIANG, GUOBIAO LIANG, ZIJUN WU, HAILIANG MO, QIONG YOU, ZHIQIANG WANG, KENG WU and RUNMIN GUO
- 281 Antioxidant and anti-inflammatory mechanisms of polyphenols isolated from virgin coconut oil attenuate cadmium-induced oxidative stress-mediated nephrotoxicity and inflammation in rats
  ADEMOLA C. FAMUREWA, ABUMCHUKWU J. EJEZIE, CHIOMA S. UGWU-EJEZIE, EBELE J. IKEKPEAZU and FIDELIS E. EJEZIE
- 289 Phytochemical analysis and assessment of antioxidant and antimicrobial activities of some medicinal plant species from Egyptian flora RANIA AL-TOHAMY, SAMEH SAMIR ALI, KHALIL SAAD-ALLAH, MERVAT FAREED, ASMAA ALI, ANWER EL-BADRY, NESSMA AHMED EL-ZAWAWY, JIAN WU, JIANZHONG SUN, GUANG-HUA MAO and PARVEEN FATEMEH RUPANI
- 301 Berbamine protects the heart from isoproterenol induced myocardial infarction by modulating eNOS and iNOS expressions in rats SITHURAJ SARANYA and VISWANADHA VIJAYA PADMA
- 311 Red American ginseng enhances the effect of fluorouracil on human colon cancer cells via both paraptosis and apoptosis pathways
  JIN-YI WAN, HAIQIANG YAO, CHUN-FENG ZHANG, WEI-HUA HUANG, QIHUI ZHANG, ZHI LIU, YI BI, STEPHANIE WILLIAMS, CHONG-ZHI WANG and CHUN-SU YUAN
- 320 Chemopreventive action of non-steroidal anti-inflammatory drugs in 9,10-dimethylbenzanthracene induced lung carcinogenesis in BALB/C mice: Expression of COX-1, COX-2 and Nf-κB RAVI KISHORE SAINI, SANKAR NATH SANYAL and JASVINDER SINGH BHATTI
- 328 A proteomic glimpse into the oncogenesis of prostate cancer PATRÍCIA BORBA MARTINY, DIEGO DUARTE ALCOBA, BRASIL SILVA NETO, PAULO COSTA CARVALHO and ILMA SIMONI BRUM
- 337 Topic application of meloxicam-loaded polymeric nanocapsules as a technological alternative for treatment of the atopic dermatitis in mice
  DOUGLAS MROGINSKI WEBER, GUILHERME TEIXEIRA VOSS, RENATA LEIVAS DE OLIVEIRA,
  CAREN A.R. DA FONSECA, JAINI PALTIAN, K RODRIGUES, FRANCINE RODRIGUES IANISKI, R VAUCHER,
  CRISTIANE LUCHESE and ETHEL ANTUNES WILHELM

- Positive association between the progression of idiopathic scoliosis and the common variant near the LBX1 gene in Southeast European population SVETLA NIKOLOVA, MILKA DIKOVA, DOBRIN DIKOV, ASSEN DJEROV, ALEXEY SAVOV, IVO KREMENSKY and ALEXANDRE LOUKANOV
- 350 JNK inhibitor CC-930 reduces fibrosis in a murine model of *Nf1*-deficient fracture repair NIKITA DEO, JAD EL-HOSS, MILLE KOLIND, KATHY MIKULEC, LAUREN PEACOCK, DAVID G. LITTLE and AARON SCHINDELER
- 358 RIG-1 and MDA5 are the important intracellular sensors against bacteria in septicemia suffering patients ASIEH ASADPOUR-BEHZADI and ASHRAF KARIMINIK
- 362 Effect of different loads of treadmill exercise on Th1/Th2 cytokine balance in rat splenocytes ZAHRA GHOLAMNEZHAD, MOHAMMAD HOSSEIN BOSKABADY and MAHMOUD HOSSEINI
- 370 Pre-pregnancy stress suppressed the reproductive systems in parents and changed sex ratio in offspring MARYAM MAHMOODKHANI, EHSAN SABOORY, SHIVA ROSHAN-MILANI, NEGAR AZIZI, MOJTABA KARIMIPOUR, HOJJAT SAYYADI and YOUSEF RASMI
- 378 In vitro antimalarial activity of synthesized TiO<sub>2</sub> nanoparticles using Momordica charantia leaf extract against Plasmodium falciparum
  PACHIYAPPAN RAJIV GANDHI, CHIDAMBARAM JAYASEELAN, CHINNAPERUMAL KAMARAJ,
  S.R. RAJASREE and RATHINASAMY REGINA MARY
- 387 Genetic association of Tumour necrosis factor alpha, Interleukin-18 and Interleukin 1 beta with the risk of coronary artery disease: A case-control study outcome from Kashmir NUZHAT SHAHEEN KHAN, MOHAMMAD SULTAN ALLAI, BUSHRA NISSAR, NIYAZ AHMAD NAYKOO, IQRA HAMEED, MISBAH MAJID, AALIYA BHAT, FALAQUE UL AFSHAN and BASHIR AHMAD GANAI
- 394 Evaluation of hypotesticular activities of different solvent fractions of hydro-methanolic extract of the fruit of *Terminalia chebula* in Wistar strain adult albino rat: Genomic and flow cytometric approaches PRABAL GHOSH, PRIETY GUPTA, ADRIJA TRIPATHY, BARNALI DAS and DEBIDAS GHOSH