

**Molecular Nutrition**

- Flavanone metabolites decrease monocyte adhesion to TNF- $\alpha$ -activated endothelial cells by modulating expression of atherosclerosis-related genes.  
*A. Chanet, D. Milenkovic, S. Claude, J. A. M. Maier, M. K. Khan, N. Rakotomanomana, S. Shinkaruk, A. M. Bérard, C. Bennetau-Pelissero, A. Mazur & C. Morand* 587–598
- Protective effect of naringenin against experimental colitis via suppression of Toll-like receptor 4/NF- $\kappa$ B signalling.  
*W. Dou, J. Zhang, A. Sun, E. Zhang, L. Ding, S. Mukherjee, X. Wei, G. Chou, Z.-T. Wang & S. Mani* 599–608
- Berberis vulgaris* root extract alleviates the adverse effects of heat stress via modulating hepatic nuclear transcription factors in quails.  
*K. Sahin, C. Orhan, M. Tuzcu, M. H. Borawska, J. Jablonski, O. Guler, N. Sahin & A. Hayirli* 609–616

**Metabolism and Metabolic Studies**

- Comparative study of a new organic selenium source *v.* seleno-yeast and mineral selenium sources on muscle selenium enrichment and selenium digestibility in broiler chickens.  
*M. Briens, Y. Mercier, F. Rouffineau, V. Vacchina & P.-A. Geraert* 617–624
- Lactose malabsorption and colonic fermentations alter host metabolism in rats.  
*V. Alexandre, P. C. Even, C. Larue-Achagiotis, J.-M. Blouin, F. Blachier, R. Benamouzig, D. Tomé & A.-M. Davila* 625–631
- Dietary quebracho tannins are not absorbed, but increase the antioxidant capacity of liver and plasma in sheep.  
*P. López-Andrés, G. Luciano, V. Vasta, T. M. Gibson, L. Biondi, A. Priolo & I. Mueller-Harvey* 632–639
- Human milk oligosaccharides are differentially metabolised in neonatal rats.  
*E. Jantscher-Krenn, C. Marx & L. Bode* 640–650

**Developmental Biology**

- The effect of dietary administration of 2-oxoglutaric acid on the cartilage and bone of growing rats.  
*P. Dobrowolski, E. Tomaszewska, M. Bienko, R. P. Radzki & S. G. Pierzynowski* 651–658

**Nutritional Endocrinology**

- Iodine plus *n*-3 fatty acid supplementation augments rescue of postnatal neuronal abnormalities in iodine-deficient rat cerebellum.  
*A. Pal, V. Mohan, D. R. Modi, R. A. Sinha, L. Rastogi, P. Kumar & M. M. Godbole* 659–670
- Feeding a DHA-enriched diet increases skeletal muscle protein synthesis in growing pigs: association with increased skeletal muscle insulin action and local mRNA expression of insulin-like growth factor 1.  
*H.-K. Wei, Y. Zhou, S. Jiang, Y.-X. Tao, H. Sun, J. Peng & S. Jiang* 671–680
- Diosmectite-zinc oxide composite improves intestinal barrier function, modulates expression of pro-inflammatory cytokines and tight junction protein in early weaned pigs.  
*C. Hu, J. Song, Y. Li, Z. Luan & K. Zhu* 681–688

**Nutritional Toxicology**

- Protective effect of ascorbic acid against ethanol-induced reproductive toxicity in male guinea pigs.  
*R. Harikrishnan, P. A. Abhilash, S. S. Das, P. Prathibha, S. Rejitha, F. John, S. Kavitha & M. Indira* 689–698

**Nutritional Toxicity**

- Diosmin protects against trichloroethylene-induced renal injury in Wistar rats: plausible role of p53, Bax and caspases.  
*M. U. Rehman, M. Tahir, A. Q. Khan, R. Khan, A. Lateef, O. O. Hamiza, F. Ali & S. Sultana* 699–710

**Microbiology**

- Changes in gut microbiota due to supplemented fatty acids in diet-induced obese mice.  
*J. R. Mujico, G. C. Baccan, A. Gheorghe, L. E. Díaz & A. Marcos* 711–720

**Human and Clinical Nutrition**

- Breakfast and exercise contingently affect postprandial metabolism and energy balance in physically active males.  
*J. T. Gonzalez, R. C. Veasey, P. L. S. Rumbold & E. J. Stevenson* 721–732
- Grains of paradise (*Aframomum melegueta*) extract activates brown adipose tissue and increases whole-body energy expenditure in men.  
*J. Sugita, T. Yoneshiro, T. Hatano, S. Aita, T. Ikemoto, H. Uchiwa, T. Iwanaga, T. Kameya, Y. Kawai & M. Saito* 733–738

**Dietary Surveys and Nutritional Epidemiology**

- Is quality of diet associated with the microvasculature? An analysis of diet quality and retinal vascular calibre in older adults.  
*B. Gopinath, V. M. Flood, J. J. Wang, E. Rochtchina, T. Y. Wong & P. Mitchell* 739–746
- Dietary patterns and risk of elevated C-reactive protein concentrations 12 years later.  
*C. Julia, N. Meunier, M. Touvier, N. Ahluwalia, V. Sapin, I. Papet, N. Cano, S. Hercberg, P. Galan & E. Kesse-Guyot* 747–754
- Mapping low intake of micronutrients across Europe.  
*G. B. M. Mensink, R. Fletcher, M. Gurinovic, I. Huybrechts, L. Lafay, L. Serra-Majem, L. Szponar, I. Tetens, J. Verkaik-Kloosterman, A. Baka & A. M. Stephen* 755–773

**Behaviour, Appetite and Obesity**

- Prediction of scaled feed intake in weaner pigs using physico-chemical properties of fibrous feeds.  
*S. P. Ndou, R. M. Gous & M. Chimonyo* 774–780