

Molecular Nutrition

- Oligomerised lychee fruit-derived polyphenol attenuates cognitive impairment in senescence-accelerated mice and endoplasmic reticulum stress in neuronal cells.
T. Sakurai, K. Kitadate, H. Nishioka, H. Fujii, J. Ogasawara, T. Kizaki, S. Sato, T. Fujiwara, K. Akagawa, T. Izawa & H. Ohno 1549–1558
- Fatty acid desaturase 2 (*FADS2*) insertion/deletion polymorphism impact on muscle fatty acid profile in European grayling (*Thymallus thymallus*).
B. Renaville, F. Tulli, M. Bruno, E. Tibaldi & M. Messina 1559–1564

Metabolism and Metabolic Studies

- Propionic and butyric acids, formed in the caecum of rats fed highly fermentable dietary fibre, are reflected in portal and aortic serum.
G. Jakobsdottir, C. Jädert, L. Holm & M. E. Nyman 1565–1572
- Prolonged maternal vitamin C deficiency overrides preferential fetal ascorbate transport but does not influence perinatal survival in guinea pigs.
J. G. Schjoldager, P. Tveden-Nyborg & J. Lykkesfeldt 1573–1579
- Resveratrol and fish oil reduce catecholamine-induced mortality in obese rats: role of oxidative stress in the myocardium and aorta.
P. R. M. Ávila, S. O. Marques, T. F. Luciano, M. F. Vitto, J. Engelmann, D. R. Souza, S. V. Pereira, R. A. Pinho, F. S. Lira & C. T. De Souza 1580–1590
- Early growth and postprandial appetite regulatory hormone responses.
M.-M. Perälä, E. Kajantie, L. M. Valsta, J. J. Holst, J. Leiviskä & J. G. Eriksson 1591–1600

Nutritional Endocrinology

- Improvement of the metabolic syndrome profile by soluble fibre – guar gum – in patients with type 2 diabetes: a randomised clinical trial.
V. Dall'Alba, F. M. Silva, J. P. Antonio, T. Steemburgo, C. P. Royer, J. C. Almeida, J. L. Gross & M. J. Azevedo 1601–1610
- Effect of vitamin D administration in vitamin D-deficient pregnant women on maternal and neonatal serum calcium and vitamin D concentrations: a randomised clinical trial.
S. Hashemipour, F. Lalooha, S. Z. Mirdamadi, A. Ziaee & T. D. Ghaleh 1611–1616

Nutritional Immunology

- Effect of *Lactobacillus brevis* KB290 on the cell-mediated cytotoxic activity of mouse splenocytes: a DNA microarray analysis.
Y. Fukui, E. Sasaki, N. Fuke, Y. Nakai, T. Ishijima, K. Abe & N. Yajima 1617–1629
- Effect of dietary laminarin and fucoidan on selected microbiota, intestinal morphology and immune status of the newly weaned pig.
A. M. Walsh, T. Sweeney, C. J. O'Shea, D. N. Doyle & J. V. O'Doherty 1630–1638

Human and Clinical Nutrition

- Paraoxonase 1 activities and genetic variation in childhood obesity
A. I. Rupérez, O. López-Guarnido, F. Gil, J. Olza, M. Gil-Campos, R. Leis, R. Tojo, R. Cañete, A. Gil & C. M. Aguilera 1639–1647
- Tea and non-tea flavonol intakes in relation to atherosclerotic vascular disease mortality in older women.
K. L. Ivey, J. R. Lewis, R. L. Prince & J. M. Hodgson 1648–1655

- Lunch energy density and the metabolic syndrome in patients with type 2 diabetes mellitus.
G. Menegotto, F. M. Silva, M. J. de Azevedo & J. C. de Almeida 1656–1663
- n*-3 and *n*-6 Fatty acids are independently associated with lipoprotein-associated phospholipase A₂ in the Multi-Ethnic Study of Atherosclerosis.
B. T. Steffen, L. M. Steffen, S. Liang, R. Tracy, N. S. Jenny & M. Y. Tsai 1664–1671
- Unravelling the basis of variability in cobalamin levels in the general population.
T. Andrew, R. Gill, I. Gillham-Naseny & K. R. Ahmadi 1672–1679
- Serum lipid-improving effect of soyabean β-conglycinin in hyperlipidaemic menopausal women.
D. Ma, K. Taku, Y. Zhang, M. Jia, Y. Wang & P. Wang 1680–1684
- Supplementation with a juice powder concentrate and exercise decrease oxidation and inflammation, and improve the microcirculation in obese women: randomised controlled trial data.
M. Lamprecht, G. Obermayer, K. Steinbauer, G. Cvirn, L. Hofmann, G. Ledinski, J. F. Greilberger & S. Hallstroem 1685–1695
- Effect of *Lactobacillus gasseri* SBT2055 in fermented milk on abdominal adiposity in adults in a randomised controlled trial.
Y. Kadooka, M. Sato, A. Ogawa, M. Miyoshi, H. Uenishi, H. Ogawa, K. Ikuyama, M. Kagoshima & T. Tsuchida 1696–1703

Dietary Surveys and Nutritional Epidemiology

- Glycaemic index, carbohydrate substitution for fat and risk of CHD in men.
M. E. Similä, J. P. Kontto, S. Männistö, L. M. Valsta & J. Virtamo 1704–1711

Behaviour, Appetite and Obesity

- Breakfast high in whey protein or carbohydrates improves coping with workload in healthy subjects.
N. Sihvola, R. Korpela, A. Henelius, A. Holm, M. Huutilainen, K. Müller, T. Poussa, K. Pettersson, A. Turpeinen & K. Peuhkuri 1712–1721
- Prospective study of changes in sugar-sweetened beverage consumption and the incidence of the metabolic syndrome and its components: the SUN cohort.
M. T. Barrio-Lopez, M. A. Martinez-Gonzalez, A. Fernandez-Montero, J. J. Beunza, I. Zazpe & M. Bes-Rastrollo 1722–1731
- A maternal high-protein diet predisposes female offspring to increased fat mass in adulthood whereas a prebiotic fibre diet decreases fat mass in rats.
M. C. Hallam & R. A. Reimer 1732–1741