

Contents S1/09

Molecular Nutrition Food Research

Bioactivity & Safety
Microbiology

Immunology
Chemistry

Special: Dietary phenolics, absorption, mammalian and microbial metabolism and colonic health

Guest Editor: Alan Crozier

Editorial

Dietary phenolics, absorption, mammalian and microbial metabolism and colonic health

Alan Crozier S5

Research Article

Pharmacokinetic and safety profile of *trans*-resveratrol in a rising multiple-dose study in healthy volunteers

Luis Almeida, Manuel Vaz-da-Silva, Amílcar Falcão, Eva Soares, Raquel Costa, Ana I. Loureiro, Carlos Fernandes-Lopes, José-Francisco Rocha, Teresa Nunes, Lyndon Wright and Patrício Soares-da-Silva S7

Research Article

Effect of glycosidation of isoflavones on their bioavailability and pharmacokinetics in aged male rats

Estatira Sepehr, Gerard M. Cooke, Patrick Robertson, and G. Sarwar Gilani S16

Research Article

Ileal and faecal digestibility of daidzein and genistein and plasma bioavailability of these isoflavones and their bioactive metabolites in the ovariectomised rat

Raewyn C. Poulsen, Du Toit Loots, Paul J. Moughan, Marlena C. Kruger S27

Research Article

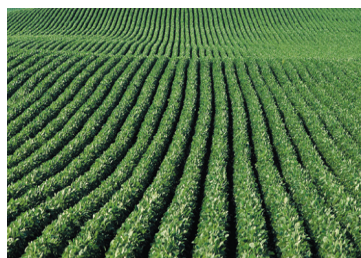
Elimination and metabolism of sesamol, a bioactive compound in sesame oil, in rats

Kuo-Ching Jan, Chi-Tang Ho and Lucy Sun Hwang S36

Research Article

Absorption, metabolism and excretion of Chooladi green tea flavan-3-ols by humans

Angélique Stalmach, Stéphanie Troufflard, Mauro Serafini and Alan Crozier S44

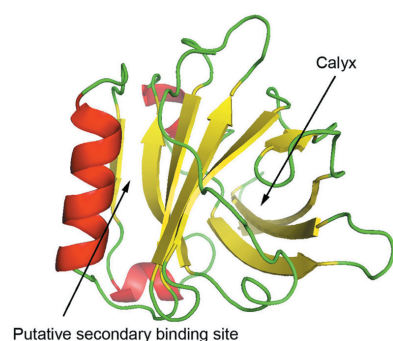


Research Article

Bioaccessibility, biotransformation, and transport of α -mangostin from *Garcinia mangostana* (Mangosteen) using simulated digestion and Caco-2 human intestinal cells

Akkarach Bumrungsart, Ruchaneekorn W. Kalpravidh, Sunit Suksamrarn, Apinya Chaivisuthangkura, Chureeporn Chitchumroonchokchai and Mark L. Failla S54



Research Article**Synbiotic promotion of epithelial proliferation by orally ingested encapsulated *Bifidobacterium breve* and raffinose in the small intestine of rats***Satoshi Ishizuka, Ami Iwama, Achmad Dinoto, Akarat Suksomcheep,**Kohshi Maeta, Takanori Kasai, Hiroshi Hara and Atsushi Yokota* S62**Research Article****Yoghurt impacts on the excretion of phenolic acids derived from colonic breakdown of orange juice flavanones in humans***Suri Roowi, William Mullen, Christine A. Edwards and Alan Crozier* S68**Research Article****Phenolic acids in black raspberry and in the gastrointestinal tract of pigs following ingestion of black raspberry***Xianli Wu, Hoy E. Pittman III, Tiffany Hager, Aaron Hager, Luke Howard and**Ronald L. Prior* S76**Research Article****Selective bio-availability of phenolic acids from Scottish strawberries***Wendy R. Russell, Lorraine Scobbie, Aurélie Labat and Garry G. Duthie* S85**Research Article****The bioactivity of dietary anthocyanins is likely to be mediated by their degradation products***Colin D. Kay¹, Paul A. Kroon² and Aedin Cassidy* S92**Research Article****Human fetal colon cells and colon cancer cells respond differently to butyrate and PUFAs***Jirřina Hofmanov, Alena Vaculov, Zuzana Koubkov, Martina Hyřd'arov and Alois Kozubk* S102**Research Article****Assessment of dietary fiber fermentation: Effect of *Lactobacillus reuteri* and reproducibility of short-chain fatty acid concentrations***Maria L. Stewart¹, Vincenzo Savarino² and Joanne L. Slavin* S114**Research Article****Starch-entrapped microspheres extend *in vitro* fecal fermentation, increase butyrate production, and influence microbiota pattern***Devin J. Rose, Ali Keshavarzian, John A. Patterson, Mahesh Venkatachalam,**Patrick Gillevet and Bruce R. Hamaker* S121**Research Article****Physiological phosphatidylcholine protects bovine β -lactoglobulin from simulated gastrointestinal proteolysis***Giuseppina Mandalari, Alan M. Mackie, Neil M. Rigby, Martin S. J. Wickham**and E. N. Clare Mills* S131