

Contents 7/10

Molecular Nutrition Food Research

Bioactivity & Safety
Microbiology

Immunology
Chemistry

Review

Dietary antioxidants in the prevention of hepatocarcinogenesis: A review

Howard P. Glauert, Karen Calfee-Mason, Divinia N. Stemm,
Job C. Tharappel and Brett T. Spear

. . . 875

Research Article

The metabolic fate of red wine and grape juice polyphenols in humans assessed by metabolomics

Ferdinand A. van Dorsten, Christian H. Grün,
Ewoud J. J. van Velzen, Doris M. Jacobs, Richard Draijer
and John P. M. van Duynhoven

. . . 897



Research Article

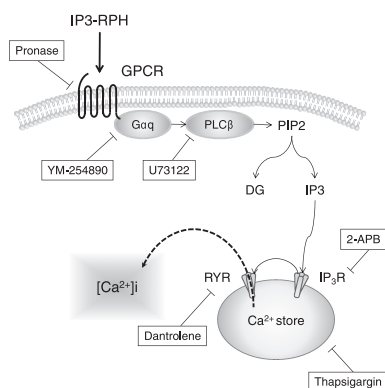
Dietary intake of isoflavones and polyunsaturated fatty acids associated with lung function, breathlessness and the prevalence of chronic obstructive pulmonary disease: Possible protective effect of traditional Japanese diet

Fumi Hirayama, Andy H. Lee, Colin W. Binns,
Naoko Hiramatsu, Mitsuru Mori and Koichi Nishimura 909

Research Article

Molecular mechanism of suppression of MDR1 by puerarin from *Pueraria lobata* via NF- κ B pathway and cAMP-responsive element transcriptional activity-dependent up-regulation of AMP-activated protein kinase in breast cancer MCF-7/adr cells

Tran Thi Hien, Hyung Gyun Kim, Eun Hee Han, Keon Wook Kang and Hye Gwang Jeong 918



Research Article

The red clover isoflavone irilone is largely resistant to degradation by the human gut microbiota

Annett Braune, Ronald Maul, Nils Helge Schebb, Sabine E. Kulling
and Michael Blaut. 929

Research Article

Proanthocyanidin metabolites associated with dietary fibre from *in vitro* colonic fermentation and proanthocyanidin metabolites in human plasma

Fulgencio Saura-Calixto, Jara Pérez-Jiménez, Sonia Touriño, José Serrano,
Elisabet Fuguet, Josep Lluís Torres and Isabel Goñi 939

Research Article

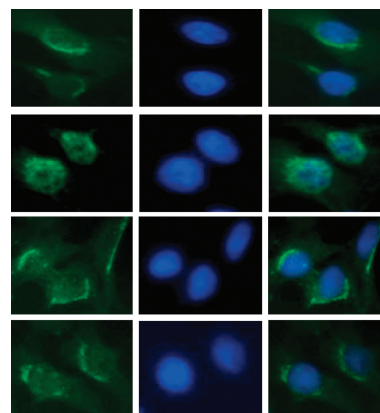
A novel mechanism underlying phytate-mediated biological action-phytate hydrolysates induce intracellular calcium signaling by a G α_q protein-coupled receptor and phospholipase C-dependent mechanism in colorectal cancer cells

Takuya Suzuki, Teruhiro Nishioka, Satoshi Ishizuka and Hiroshi Hara. 947

Research Article

Hydroxytyrosol induces antioxidant/detoxificant enzymes and Nrf2 translocation *via* extracellular regulated kinases and phosphatidylinositol-3-kinase/protein kinase B pathways in HepG2 cells

María Angeles Martín, Sonia Ramos, Ana Belén Granado-Serrano, Ildefonso Rodríguez-Ramiro, Mariana Trujillo, Laura Bravo and Luis Goya



. . . 956

Research Article

Chrysophanol induces necrosis through the production of ROS and alteration of ATP levels in J5 human liver cancer cells

Chi-Cheng Lu, Jai-Sing Yang, An-Cheng Huang, Te-Chun Hsia, Su-Tze Chou, Chao-Lin Kuo, Hsu-Feng Lu, Tsung-Han Lee, Wellington G. Wood and Jing-Gung Chung

967

 Supporting information see www.mnf-journal.com

Research Article

Suppression of phorbol-12-myristate-13-acetate-induced tumor cell invasion by bergamottin *via* the inhibition of protein kinase C δ /p38 mitogen-activated protein kinase and JNK/nuclear factor- κ B-dependent matrix metalloproteinase-9 expression

Yong Pil Hwang, Hyo Jeong Yun, Jae Ho Choi, Keon Wook Kang and Hye Gwang Jeong 977

Research Article

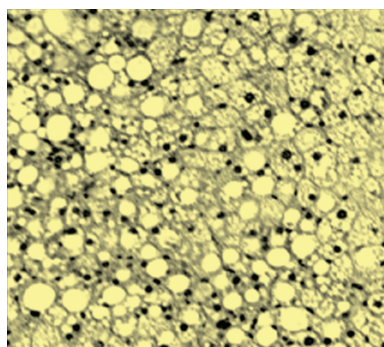
Stimulation of AMP-activated protein kinase and enhancement of basal glucose uptake in muscle cells by quercetin and quercetin glycosides, active principles of the antidiabetic medicinal plant *Vaccinium vitis-idaea*

Hoda M. Eid, Louis C. Martineau, Ammar Saleem, Asim Muhammad, Diane Vallerand, Ali Benhaddou-Andalousi, Lidia Nistor, Arvind Afshar, John T. Arnason and Pierre S. Haddad 991

Research Article

Consumption of barley β -glucan ameliorates fatty liver and insulin resistance in mice fed a high-fat diet

Joo Sun Choi, Hyunsook Kim, Myeong Ho Jung, Shinhee Hong and Jihyun Song 1004



Research Article

High-fat diet stimulates IL-1 type I receptor-mediated inflammatory signaling in the skeletal muscle of mice

Seung-Jin Kim, Youngshim Choi, Hye-Seung Jun, Bo-Min Kim, Hye-Kyung Na, Young-Jun Surh and Taesun Park 1014

Research Article

Identification of aminoreductones as active components in Maillard reaction mixtures inducing nuclear NF- κ B translocation in macrophages

Andrea Wühr, Melanie Deckert and Monika Pischetsrieder 1021

Research Article

A Maillard reaction product enhances eNOS activity in human endothelial cells

Christoph A. Schmitt, Elke H. Heiss, Daniel Schachner, Yasmin Aristei, Theodor Severin and Verena M. Dirsch 1031

 Supporting information see www.mnf-journal.com

Research Article

Formation of protein adducts of 2-amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine in cooked foods

HiroYuki Kataoka, Mina Miyake, Sachiko Nishioka, Tomoko Matsumoto, Keita Saito and Kurie Mitani . . 1039