

Contents 4/10

Molecular Nutrition Food Research

Bioactivity & Safety
Microbiology

Immunology
Chemistry

Special: Nutritional Neuroscience

Guest Editor: Philipp G. Sand

Editorial

Challenges in Nutritional Neuroscience

Philipp G. Sand 445

Review

Dietary ω -3 fatty acid supplementation for optimizing neuronal structure and function

Stephen C. Heinrichs. 447

Review

The influence of dietary status on the cognitive performance of children

David Benton 457

Review

Dietary intake and depressive symptoms: A systematic review of observational studies

Kentaro Murakami and Satoshi Sasaki 471

Review

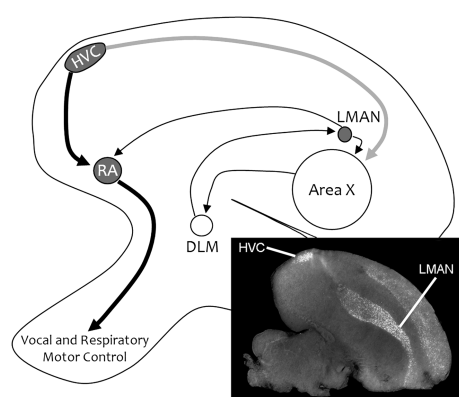
Significance of vitamin A to brain function, behavior and learning

Christopher R. Olson and Claudio V. Mello 489

Research Article

Neuroprotection induced by vitamin E against oxidative stress in hippocampal neurons: Involvement of TRPV1 channels

Nadine Crouzin, Marie-Céleste de Jesus Ferreira, Catherine Cohen-Solal, Gérard Barbanel, Janique Guiramand and Michel Vignes 496



Research Article

Manipulation of glycemic response with isomaltulose in a milk-based drink does not affect cognitive performance in healthy adults

Louise Dye, Mary B. Gilsenan, Frits Quadt, Vanessa E. G. Martens, Arjen Bot, Nicola Lasikiewicz, Diana Camidge, Fiona Croden and Clare Lawton 506

Research Article

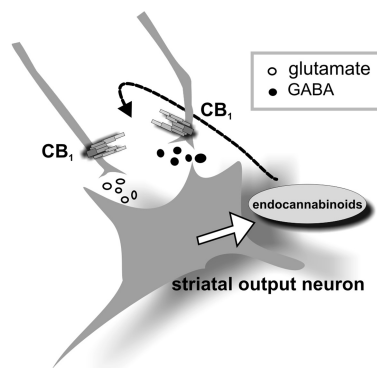
Stimulatory effects of the soy phytoestrogen genistein on noradrenaline transporter and serotonin transporter activity

Yumiko Toyohira, Susumu Ueno, Masato Tsutsui, Hideaki Itoh, Norio Sakai, Naoaki Saito, Kojiro Takahashi and Nobuyuki Yanagihara 516

Review

Effects of caffeine on striatal neurotransmission: Focus on cannabinoid CB1 receptors

Silvia Rossi, Valentina De Chiara, Alessandra Musella,
Giorgia Mataluni, Lucia Sacchetti, Alberto Siracusano,
Giorgio Bernardi, Alessandro Usiello and Diego Centonze



. . . 525

Research Article

Sulforaphane protects cortical neurons against 5-S-cysteinyl-dopamine-induced toxicity through the activation of ERK1/2, Nrf-2 and the upregulation of detoxification enzymes

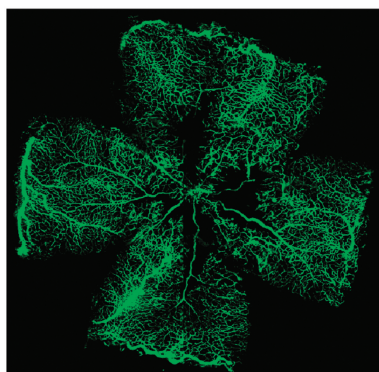
David Vauzour, Maria Buonfiglio, Giulia Corona,
Joselita Chirafisi, Katerina Vafeiadou, Cristina Angeloni,
Silvana Hrelia, Patrizia Hrelia and Jeremy P. E. Spencer 532

Regular

Research Article

PPAR α L162V polymorphism alters the potential of n-3 fatty acids to increase lipoprotein lipase activity

Iwona Rudkowska, Dominique Caron-Dorval, Mélanie Verreault, Patrick Couture, Yves Deshaies,
Olivier Barbier and Marie-Claude Vohl 543



Research Article

β -Sitosterol exhibits anti-inflammatory activity in human aortic endothelial cells

Stella Loizou, Ioannis Lekakis, George P. Chrousos
and Paraskevi Moutsatsou 551

Research Article

Cucurbitacin B induces G₂ arrest and apoptosis via a reactive oxygen species-dependent mechanism in human colon adenocarcinoma SW480 cells

Shusuke Yasuda, Shingo Yogosawa, Yasuyuki Izutani,
Yoshitaka Nakamura, Hirotuna Watanabe and Toshiyuki Sakai 559



Supporting information see www.mnf-journal.com

Research Article

Angiostatic effects of Brazilian green propolis and its chemical constituents

Yuichi Chikaraishi, Hiroshi Izuta, Masamitsu Shimazawa, Satoshi Mishima and Hideaki Hara 566

MNF Books. 576