

Contents 7/07

Molecular Nutrition Food Research

Bioactivity & Safety
Microbiology

Immunology
Chemistry

Special: Hormonally Active Compounds in Food

Guest Editor: Manfred Metzler

Editorial

Hormonally Active Compounds in Food

Manfred Metzler 763

Review

Metabolism of dietary soy isoflavones to equol by human intestinal microflora – implications for health

Jian-Ping Yuan, Jiang-Hai Wang and Xin Liu 765

Research Article

High levels of equol in organic skimmed Finnish cow milk

Antti Hoikkala, Eeva Mustonen, Ilkka Saastamoinen, Tuija Jokela, Juhani Taponen, Hannu Saloniemi and Kristiina Wähälä 782



Research Article

Simultaneous determination of daidzein, equol, genistein and bisphenol A in human urine by a fast and simple method using SPE and GC-MS

Stefan Moors, Meinolf Blaszkewicz, Hermann M. Bolt and Gisela H. Degen 787

Research Article

Bioavailability of soy isoflavones in rats Part I: Application of accurate methodology for studying the effects of gender and source of isoflavones

Estatira Sepehr, Gerard Cooke, Patrick Robertson and G. Sarwar Gilani 799



Research Article

In vitro and in vivo metabolism of the soy isoflavone glycitein

Corinna E. Rüfer, Ronald Maul, Eva Donauer, Eric J. Fabian and Sabine E. Kulling 813

Research Article

Soy isoflavones and fatty acids: Effects on bone tissue postovariectomy in mice

Wendy E. Ward and Debbie Fonseca 824

Review**Disruption of the developing female reproductive system by phytoestrogens: Genistein as an example***Wendy N. Jefferson, Elizabeth Padilla-Banks and Retha R. Newbold*

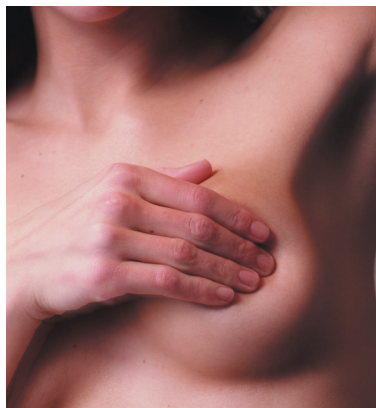
.... 832

Review**Can the combination of flaxseed and its lignans with soy and its isoflavones reduce the growth stimulatory effect of soy and its isoflavones on established breast cancer?***Krista A. Power and Lilian U. Thompson*

.... 845

Review**Role of dietary lignans in the reduction of breast cancer risk***Niina M. Saarinen, Anni Wärrä, Maarit Airio, Annika Smeds and Sari Mäkelä*

.... 857

**Research Article****Novel oxidative metabolites of the mycoestrogen zearalenone *in vitro****Erika Pfeiffer, Anja Heyting and Manfred Metzler* 867**Research Article****Binding of the hop (*Humulus lupulus* L.) chalcone xanthohumol to cytosolic proteins in Caco-2 intestinal epithelial cells***Yan Pang, Dejan Nikolic, Dongwei Zhu, Lucas R. Chadwick, Guido F. Pauli, Norman R. Farnsworth and Richard B. van Breemen*

..... 872

Research Article**Antigenotoxic effects of the phytoestrogen pelargonidin chloride and the polyphenol chlorogenic acid***Suresh K. Abraham, Nicole Schupp, Ursula Schmid and Helga Stopper* 880**Research Article****Oxidation products of stigmasterol interfere with the action of the female sex hormone 17 β -estradiol in cultured human breast and endometrium cell lines***Heike Newill, Renate Loske, Jörg Wagner, Christian Johannes, Reinhard L. Lorenz and Leane Lehmann*

..... 888

**Review****Metabolism of phthalates in humans***Hanne Frederiksen, Niels E. Skakkebaek and Anna-Maria Andersson* ... 899**Review****Perinatal exposure to environmental estrogens and the development of obesity***Retha R. Newbold, Elizabeth Padilla-Banks, Ryan J. Snyder and Wendy N. Jefferson*

..... 912