

Contents

Molecular Nutrition & Food Research

XANTHOHUMOL

Guest Editors: Clarissa Gerhäuser and Norbert Frank

Editorial

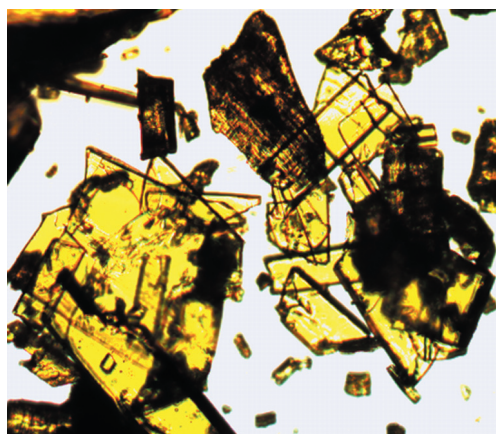
Xanthohumol, a new all-rounder?

Clarissa Gerhäuser and Norbert Frank 821

Review Article

Broad spectrum antiinfective potential of xanthohumol from hop (*Humulus lupulus* L.) in comparison with activities of other hop constituents and xanthohumol metabolites

Clarissa Gerhäuser 827



Research Article

Xanthohumol stimulates iodide uptake in rat thyroid-derived FRTL-5 cells

Branislav Radović, Cornelia Schmutzler and Josef Köhrle 832

Research Article

Xanthohumol induces apoptosis in cultured 40-16 human colon cancer cells by activation of the death receptor- and mitochondrial pathway

Lydia Pan, Hans Becker and Clarissa Gerhäuser 837

Research Article

Xanthohumol kills B-chronic lymphocytic leukemia cells by an apoptotic mechanism

Sofie Lust, Barbara Vanhoecke, Ann Janssens, Jan Philippe, Marc Bracke and Fritz Offner 844

Research Article

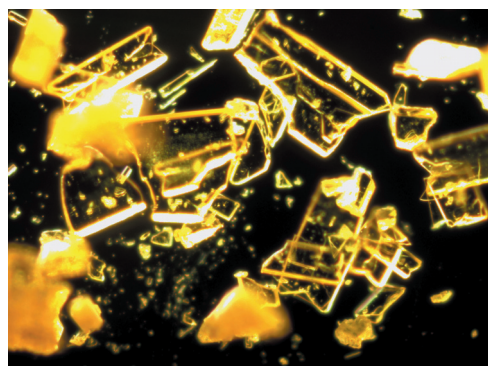
In vitro phase II metabolism of xanthohumol by human UDP-glucuronosyltransferases and sulfotransferases

Corinna E. Ruefer, Clarissa Gerhäuser, Norbert Frank, Hans Becker and Sabine E. Kulling 851

Research Article

Biosynthetic ¹⁴C-labelling of xanthohumol in hop cones

Stefanie Berwanger, Norbert Frank, Jutta Knauf and Hans Becker 857



Research Article

A safety study of oral xanthohumol administration and its influence on fertility in Sprague Dawley rats

Ragna Hussong, Norbert Frank, Jutta Knauf, Carina Ittrich, Robert Owen, Hans Becker and Clarissa Gerhäuser

Research Article

Xanthohumol does not affect the composition of rat intestinal microbiota

Laura Hanske, Ragna Hussong, Norbert Frank, Clarissa Gerhäuser, Michael Blaut and Annett Braune

Research Article

Enrichment of xanthohumol in the brewing process

Sascha Wunderlich, Achim Zürcher and Werner Back

MNF Meetings Diary 882

Instructions to authors 887

