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Subscription

Czech J. Food Sci.

M. Votruba, M. Vecka, L. Prokeš, B.

Jura Škova.

The Natural Products in Protection against the most Important Pathological Changes in Human Metabolism

Czech J. Food Sci., 27 (2009): S31-S34

Inflammation in joint: The liberation of phospholipids from cell membranes represents the first step of inflammation cascade. By action of phospholipase A2 is split of the arachidonic acid. Free arachidonic acid is than metabolised by two enzymes: 5-lipooxygenase and 2-cyclooxygenase to generate the group of prostanoids and leukotrienes which are the first active proinflammation compounds, starting the whole proces of inflammation. We verífied, that 27 flavonoids and flavans, contained in American patent Univestin are really able to interrupt this pathway by inhibition both of those enzymes. All these flavonoids are naturally occurring chemicals, which give color to plants and are found in plants, fruits, grains, nuts and vegetables. Theirs

antioxidant capacity eliminates the action of Cyt P450 also and prevents to origine of epoxides. *Cancerogenesis*: Inositolhexaphosphate (IP6) is found in substantial amounts in whole grains, cereals, legumes, nuts and seeds. As well as inositol, IP6 is contained in most mammalian cells, wherein they are important in regulating vital cellular function such as signal transduction, cell proliferation and differentation. Inositol and IP6 are contend in product Inocell and there is additional evidence that inositol alone may further enhance the anti-cancer effect of IP6. Beside decreasing cellular proliferation IP6 also causes differentation of malignant cells ofen resulting in a conversion to normal phenotype, what leads to starting of apoptose in those cells. Inocell greatly enhances NK cell activity, regulates cell growth and has very strong antioxidant capacity. The suggestion we can demonstrate on succesfful efects of Inocell in concrete causes of patients with various types of cancerogenesis. *Peptic ulcer disease and gastric cancer*: The ability of *Vaccinium macrocarpon*, the North American cranberry, to prevent

bacterial adhesion has been used to advantage in the prevention of urinary tract infections and has recently been described for the prevention of adhesion of bacteria responsible for oral infections and stomach ulcers as well in *Helicobacter pylori.*

Keywords:
inflammation; Univestin; Comfort-G; flavonoids; flavans; cancerogenesis; inositolhexaphosphate; inositol; *Helicobacter pylor*i; cranberries

[fulltext]