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Authors: V. Cardenia, F. Vivarelli, S. Cirillo, M. Paolini, Maria Teresa Rodriguez-Estrada, Donatella Canistro



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Dietary effects of *Raphanus sativus* cv Sango on lipid and oxysterols accumulation in rat brain: a lipidomic study on a non-genetic obesity model

V. Cardenia^a, F. Vivarelli^b, S. Cirillo^b, M. Paolini^b, Maria Teresa Rodriguez-Estrada^{*a,c}, Donatella Canistro^b

^a Interdepartmental Centre for Agri-Food Industrial Research, Alma Mater Studiorum – University of Bologna (Cesena, Italy)

^b Department of Pharmacy and Biotechnology, Alma Mater Studiorum – University of Bologna (Bologna, Italy)

^c Department of Agricultural and Food Sciences, Alma Mater Studiorum – University of Bologna (Bologna, Italy)

*** Corresponding author:**

Viale Fanin 40

40127 Bologna (Italy)

Tel. +39-051-2096011

Fax: +39-051-2096017

E-mail: maria.rodriguez@unibo.it

Highlights

- The effect of *Raphanus sativus* cv Sango sprout juice on brain lipid profile of rats fed with a high-fat diet was studied
- Sango sprout juice did not affect the lipid content and fatty acid composition of the rat brain, except for linoleic acid
- The high-fat diet decreased the level of brain cholesterol, with a corresponding oxysterol increase
- Likewise the regular diet regime, the Sango sprout juice reduced the presence of 27-hydroxycholesterol in the rat brain
- Dietary Sango sprout juice supplementation could be used to prevent oxysterol-mediated neurodegenerative diseases

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