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Title: Pros and cons of the supplementation with oilseed enriched concentrates on milk fatty acid profile of dairy sheep grazing Mediterranean pastures

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**Pros and cons of the supplementation with oilseed enriched concentrates on milk fatty acid profile of dairy sheep grazing Mediterranean pastures**

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**Highlights**

A This is the first paper on the effect of oilseed supplementation in grazing dairy sheep

B Oilseed enriched concentrate increased milk total trans C18:1 compared to grazing dairy sheep

C The level of PUFA in milk was increased by 45% in the enriched oilseed concentrate group

D Supplemented groups decrease n-3/n-6 ratio in milk compared to sheep fed pasture only

**Abstract**

The aim of this research was to study the effects of dietary supplementation on the composition and fatty acid (FA) profile of milk from grazing dairy sheep. Forty-eight lactating Sarda ewes were randomly allocated to four homogeneous groups: PAS – control group grazing for 22 h/d without supplementation; NFS – group supplemented with a cereal based concentrate; SLNA – group supplemented with a concentrate

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