

Accepted Manuscript

A diet enriched in longer chain omega-3 fatty acids reduced placental inflammatory cytokines and improved fetal sustainability of C57BL/6 mice

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PII: S0952-3278(18)30150-9
DOI: <https://doi.org/10.1016/j.plefa.2018.08.002>
Reference: YPLEF 1952



To appear in: *Prostaglandins, Leukotrienes and Essential Fatty Acids (PLEFA)*

Received date: 19 June 2018
Revised date: 28 August 2018
Accepted date: 30 August 2018

Please cite this article as: O.A Akerele , S.K Cheema , A diet enriched in longer chain omega-3 fatty acids reduced placental inflammatory cytokines and improved fetal sustainability of C57BL/6 mice, *Prostaglandins, Leukotrienes and Essential Fatty Acids (PLEFA)* (2018), doi: <https://doi.org/10.1016/j.plefa.2018.08.002>

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Highlights

- Omega (n)-3 polyunsaturated fatty acids (PUFA) are important regulators of inflammatory response that may impact pregnancy outcome.
- Fish oil based (FO) diet increased the incorporation of longer chain n-3 PUFA into the placenta, and decreased the concentration of pro-inflammatory cytokines.
- FO diet increased the mRNA expression of placental specific PUFA transporter, which coincided with accretion of n-3 PUFA in fetal brain.
- FO diet altered the levels of cytokines at different stages of pregnancy.
- Diet induced alterations in reproductive tissues fatty acid composition and cytokines levels may influence fetal sustainability.

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