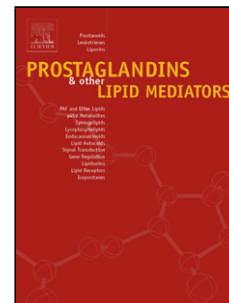


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Low-dose DHA-induced astrocyte proliferation can be attenuated by insufficient expression of BLBP *in vitro*

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Highlights

- Low-dose but not high-dose DHA stimulated astrocytes proliferation, and this effect was ascribed to increased S-phase cells
- BLBP could regulate astrocytes proliferation directly, independently of DHA.
- The Low-dose DHA-induced cell proliferation at least partly relied on its receptor BLBP.

Abstract

Docosahexaenoic acid (DHA) is an n-3 long chain polyunsaturated fatty acid (PUFA) that is involved in a wide range of cellular processes in human cells. Brain lipid binding protein (BLBP) exhibits a high affinity for n-3 PUFAs, especially DHA, but the precise functional contributions of DHA and BLBP in astrocytes are not clear. We analyzed cell viability and the ratio of Ki67

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