

Accepted Manuscript

Carriers of an apolipoprotein E epsilon 4 allele are more vulnerable to a dietary deficiency in omega-3 fatty acids and cognitive decline

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PII: S1388-1981(17)30135-X
DOI: doi:[10.1016/j.bbalip.2017.07.004](https://doi.org/10.1016/j.bbalip.2017.07.004)
Reference: BBAMCB 58177

To appear in: *BBA - Molecular and Cell Biology of Lipids*

Received date: 26 March 2017
Revised date: 5 July 2017
Accepted date: 15 July 2017



Please cite this article as: Tanya Gwendolyn Nock, Raphaël Chouinard-Watkins, Mélanie Plourde, Carriers of an apolipoprotein E epsilon 4 allele are more vulnerable to a dietary deficiency in omega-3 fatty acids and cognitive decline, *BBA - Molecular and Cell Biology of Lipids* (2017), doi:[10.1016/j.bbalip.2017.07.004](https://doi.org/10.1016/j.bbalip.2017.07.004)

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Running title:

Abbreviations used:

AA: arachidonic acid

ALA: alpha-linolenic acid

APOE: apolipoprotein E

A β : β -amyloid

BBB: blood-brain-barrier

CNS: central nervous system

DHA: docosahexaenoic acid, 22:6 n-3

DHAEE: DHA ethyl ester

E4: epsilon 4 allele of apolipoprotein E

EPA: eicosapentaenoic acid

FA: fatty acid

F2: second generation

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