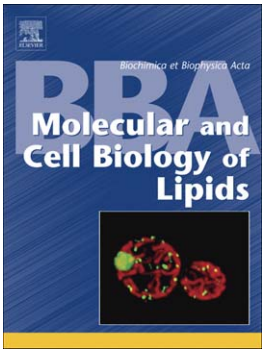


# Long chain n-3 polyunsaturated fatty acids increase the efficacy of docetaxel in mammary cancer cells by downregulating Akt and PKC$\epsilon/\delta$-induced ERK pathways

Chauvin Lucie, Caroline Goupille, Blanc Charly, Pinault Michelle, Domingo Isabelle, Guimaraes Cyrille, Bougnoux Philippe, Chevalier Stephan, Mahéo Karine

PII: S1388-1981(16)30011-7
DOI: doi: 10.1016/j.bbalip.2016.01.012
Reference: BBAMCB 57885

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

Received date: 23 September 2015
Revised date: 15 January 2016
Accepted date: 22 January 2016

# Long chain n-3 polyunsaturated fatty acids increase the efficacy of docetaxel in mammary cancer cells by downregulating Akt and PKCε/δ-induced ERK pathways.

Chauvin Lucie[1], Caroline Goupille[1,2], Blanc Charly[1], Pinault Michelle[1], Domingo Isabelle[1], Guimaraes Cyrille[1], Bougnoux Philippe[1,2], Chevalier Stephan[1,3] and Mahéo Karine[1,3,*]

[1] Inserm UMR1069 "Nutrition, Croissance et Cancer" Université François Rabelais, Faculté de Médecine, 10 bd Tonnellé, 37032 Tours, France

[2] Hôpital "Bretonneau", CHRU, 2 bd Tonnellé, 37000 Tours, France;

[3] UFR des Sciences Pharmaceutiques, Université François Rabelais de Tours, 31 av Monge, 37200 Tours, France

To whom correspondence should be addressed. Tel: +33 2473 66213 ; Fax: +33 2473 66226 ; Email: karine.maheo@univ-tours.fr

Short title: DHA increases docetaxel efficacy by inhibiting ERK and Akt