

The Eicosanoid Research Division @ IBGM

-- Jesús Balsinde - Publications List --

(Last revised January 9, 2010)

87. **Balgoma, D., Montero, O., Balboa, M. A. & Balsinde, J.** (2010) Review - Lipidomic approaches to the study of phospholipase A₂-regulated phospholipid fatty acid incorporation and remodeling. [Biochimie \(in press\)](#).
86. **Casas, J., Valdearcos, M., Pindado, J., Balsinde, J. & Balboa, M. A.** (2010) The cationic cluster of group IVA phospholipase A₂ (Lys488/Lys541/Lys543/Lys544) is involved in translocation of the enzyme to phagosomes in human macrophages. [J. Lipid Res. \(in press\)](#).
85. **Pérez-Chacón, G., Astudillo, A. M., Ruipérez, V., Balboa, M. A. & Balsinde, J.** (2010) Signaling role for lysophosphatidylcholine acyltransferase 3 in receptor-regulated arachidonic acid reacylation reactions in human monocytes. [J. Immunol. 184: 1071-1078](#).
84. **Gubern, A., Barceló, M., Barneda, D., López, J. M., Masgrau, R., Picatoste, F., Chalfant, C. E., Balsinde, J., Balboa, M. A. & Claro, E.** (2009) JNK and ceramide kinase govern the biogenesis of lipid droplets through activation of group IVA phospholipase A₂. [J. Biol. Chem. 284: 32359-32369](#).
83. **Pérez-Chacón, G., Astudillo, A. M., Balgoma, D., Balboa, M. A. & Balsinde, J.** (2009) Review - Control of free arachidonic acid levels by phospholipases A₂ and lysophospholipid acyltransferases. [Biochim. Biophys. Acta 1791: 1103-1113](#).
82. **Casas, J., Meana, C., Esquinas, E., Valdearcos, M., Pindado, J., Balsinde, J. & Balboa, M. A.** (2009) Requirement of JNK-mediated phosphorylation for translocation of group IVA phospholipase A₂ to phagosomes in human macrophages. [J. Immunol. 183: 2767-2774](#).
81. **Ruipérez, V., Astudillo, A. M., Balboa, M. A. & Balsinde, J.** (2009) Coordinate regulation of Toll-like receptor-mediated arachidonic acid mobilization in macrophages by group IVA and group V phospholipase A₂s. [J. Immunol. 182: 3877-3883](#).
80. **Gubern, A., Barceló, M., Casas, J., Barneda, D., Masgrau, R., Picatoste, F., Balsinde, J., Balboa, M. A., & Claro, E.** (2009) Lipid droplet biogenesis induced by stress involves triacylglycerol synthesis that depends on group VIA phospholipase A₂. [J. Biol. Chem. 284: 5697-5708](#).
79. **Balgoma, D., Montero, O., Balboa, M. A. & Balsinde, J.** (2008) Calcium-independent phospholipase A₂-mediated formation of 1,2-diarachidonoyl-glycerophosphoinositol in human monocytes. [FEBS J. 275: 6180-6191](#).

78. **Herrero, A. B., Astudillo, A. M., Balboa, M. A., Cuevas, C., Balsinde, J. & Moreno, S.** (2008) Levels of SCS7/FA2H-mediated fatty acid 2-hydroxylation determine the sensitivity of cells to antitumor PM02734. *Cancer Res.* **68**: 9779-9787.
77. **Gubern, A., Casas, J., Barceló, M., Barneda, D., de la Rosa, X., Masgrau, R., Picatoste, F., Balsinde, J., Balboa, M. A., & Claro, E.** (2008) Group IVA phospholipase A₂ is necessary for the biogenesis of lipid droplets. *J. Biol. Chem.* **283**: 27369-27382.
76. **Balboa, M. A., Pérez, R. & Balsinde, J.** (2008) Calcium-independent phospholipase A₂ mediates proliferation of human promonocytic U937 cells. *FEBS J.* **275**: 1915-1924.
75. **Cubells, L., de Muga, S. V., Tebar, F., Bonventre, J. V., Balsinde, J., Pol, A., Grewal, T., & Enrich, C.** (2008) Annexin A6-induced inhibition of cytoplasmic phospholipase A₂ is linked to caveolin-1 export from the Golgi. *J. Biol. Chem.* **283**: 10174-10183.
74. **Pindado, J., Balsinde, J. & Balboa, M. A.** (2007) TLR3-dependent induction of nitric oxide synthase in RAW 264.7 macrophage-like cells via a cytosolic phospholipase A₂/cyclooxygenase-2 pathway. *J. Immunol.* **179**: 4821-4828.
73. **Ruipérez, V., Casas, J., Balboa, M. A. & Balsinde, J.** (2007) Group V phospholipase A₂-derived lysophosphatidylcholine mediates cyclooxygenase-2 induction in lipopolysaccharide-stimulated macrophages. *J. Immunol.* **179**: 631-638.
72. **Balsinde, J., Pérez, R. & Balboa, M. A.** (2006) Review - Calcium-independent phospholipase A₂ and apoptosis. *Biochim. Biophys. Acta* **1761**: 1344-1350.
71. **Balboa, M. A. & Balsinde, J.** (2006) Review - Oxidative stress and arachidonic acid mobilization. *Biochim. Biophys. Acta* **1761**: 385-391.
70. **Casas, J., Gijón, M. A., Vigo, A. G., Crespo, M. S., Balsinde, J. & Balboa, M. A.** (2006) Overexpression of cytosolic group IVA phospholipase A₂ protects cells from calcium-dependent death. *J. Biol. Chem.* **281**: 6106-6116.
69. **Pérez, R., Matabosch, X., Llebaria, A., Balboa, M. A. & Balsinde, J.** (2006) Blockade of arachidonic acid incorporation into phospholipids induces apoptosis in U937 promonocytic cells. *J. Lipid Res.* **47**: 484-491.
68. **Pérez, R., Balboa, M. A. & Balsinde, J.** (2006) Involvement of group VIA calcium-independent phospholipase A₂ in macrophage engulfment of hydrogen peroxide-treated U937 cells. *J. Immunol.* **176**: 2555-2561.
67. **Casas, J., Gijón, M. A., Vigo, A. G., Crespo, M. S., Balsinde, J. & Balboa, M. A.** (2006) Phosphatidylinositol 4,5-bisphosphate anchors cytosolic group IVA phospholipase A₂ to perinuclear membranes and decreases its calcium requirement for translocation in live cells. *Mol. Biol. Cell* **17**: 155-162.
66. **Balsinde, J., and Balboa, M. A.** (2005) Review - Cellular regulation and proposed biological functions of group VIA calcium-independent phospholipase A₂ in activated cells. *Cell. Signal.* **17**: 1052-1062.

65. **Shirai, Y., Balsinde, J. & Dennis, E. A.** (2005) Localization and functional interrelationships among cytosolic group IV, secreted group V, and Ca^{2+} -independent group VI phospholipase A_2 s in P388D₁ macrophages using GFP/RFP constructs. [Biochim. Biophys. Acta 1735: 119-129.](#)
64. **Pérez, R., Melero, R., Balboa, M. A. & Balsinde, J.** (2004) Role of group VIA calcium-independent phospholipase A_2 in arachidonic acid release, phospholipid fatty acid incorporation, and apoptosis in U937 cells responding to hydrogen peroxide. [J. Biol. Chem. 279: 40385-40391.](#)
63. **Balboa, M. A., Shirai, Y., Gaietta, G., Ellisman, M. E., Balsinde, J., & Dennis, E. A.** (2003) Localization of group V phospholipase A_2 in caveolin-enriched granules in activated P388D₁ macrophage-like cells. [J. Biol. Chem. 278: 48059-48065.](#)
62. **Fuentes, L., Pérez, R., Nieto, M. L., Balsinde, J. & Balboa, M. A.** (2003) Bromoenol lactone promotes cell death by a mechanism involving phosphatidate phosphohydrolase-1 rather than calcium-independent phospholipase A_2 . [J. Biol. Chem. 278: 44683-44690.](#)
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59. **Balsinde, J., Winstead, M. V. & Dennis, E. A.** (2002) Review - Phospholipase A_2 regulation of arachidonic acid mobilization. [FEBS Lett. 531: 2-6.](#)
58. **Balboa, M. A. & Balsinde, J.** (2002) Involvement of calcium-independent phospholipase A_2 in hydrogen peroxide-induced accumulation of free fatty acids in human U937 cells. [J. Biol. Chem. 277: 40384-40389.](#)
57. **Balsinde, J.** (2002) Roles of various phospholipases A_2 in providing lysophospholipid acceptors for fatty acid phospholipid incorporation and remodelling. [Biochem. J. 364: 695-702.](#)
56. **Balboa, M. A., Balsinde, J. & Dennis, E. A.** (2001) Inflammatory activation of prostaglandin production in microglial cells antagonized by amyloid peptide. [Biochem. Biophys. Res. Commun. 280: 558-560.](#)
55. **Winstead, M. V., Balsinde, J. & Dennis, E. A.** (2000) Review - Calcium-independent phospholipase A_2 . Structure and function. [Biochim. Biophys. Acta 1488: 28-39.](#)
54. **Balsinde, J., Balboa, M. A. & Dennis, E. A.** (2000) Identification of a third pathway for arachidonic acid mobilization and prostaglandin production in activated P388D₁ macrophage-like cells. [J. Biol. Chem. 275: 22544-22549.](#)
53. **Balsinde, J., Balboa, M. A. & Dennis, E. A.** (2000) Group IV cytosolic phospholipase A_2 activation by diacylglycerol pyrophosphate in murine P388D₁ macrophages. [Ann. N. Y. Acad. Sci. 905: 11-15.](#)

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43. **Balsinde, J., Balboa, M. A., Insel, P. A. & Dennis, E. A.** (1999) Review - Regulation and inhibition of phospholipase A₂. *Annu. Rev. Pharmacol. Toxicol.* **39**: 175-189.
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