

## *– Jesús Balsinde - Publications List –*

(Last revised January 4, 2012)

95. **Canali, M. M., Pedrotti, L. P., Balsinde, J., Ibarra, C. & Correa, S. G.** (2012) Chitosan enhances transcellular permeability in human and rat intestine epithelium. [Eur. J. Pharm. Biopharm. \(in press\)](#).
94. **Astudillo, A. M., Balgoma, D., Balboa, M. A. & Balsinde, J.** (2012) Dynamics of arachidonic acid mobilization by inflammatory cells. [Biochim. Biophys. Acta 1821: 249-256](#).
93. **Astudillo, A. M., Pérez-Chacón, G., Meana, C., Balgoma, D., Pol, A., del Pozo, M. A., Balboa, M. A. & Balsinde, J.** (2011) Altered arachidonate distribution in macrophages from caveolin-1 null mice leading to reduced eicosanoid synthesis. [J. Biol. Chem. 286: 35299-35307](#).
92. **Bosch, M., Marí, M., Herms, A., Fernández, A., Fajardo, A., Kassan, A., Giralt, A., Colell, A., Balgoma, D., Barbero, E., González-Moreno, E., Matias, N., Tebar, F., Balsinde, J., Camps, M., Enrich, C., Gross, S. P., García-Ruiz, C., Pérez-Navarro, E., Fernández-Checa, J. C. & Pol, A.** (2011) Caveolin-1 deficiency causes cholesterol-dependent mitochondrial dysfunction and apoptotic susceptibility. [Curr. Biol. 21: 681-686](#).
91. **Valdearcos, M., Esquinas, E., Meana, C., Gil de Gómez, L., Guijas, C., Balsinde, J. & Balboa, M. A.** (2011) Subcellular localization and role of lipin-1 in human macrophages. [J. Immunol. 186: 6004-60013](#).
90. **Barroso, G., Rodríguez-Calvo, R., Serrano-Marco, L., Astudillo, A. M., Balsinde, J., Palomer, X. & Vázquez-Carrera, M.** (2011) The PPAR $\beta/\delta$  activator GW501516 prevents the downregulation of AMPK caused by a high-fat diet in liver and amplifies the PGC-1 $\alpha$ -lipin-1-PPAR $\alpha$  pathway leading to increased fatty acid oxidation. [Endocrinology 152: 1848-1859](#).
89. **Astudillo, A. M., Pérez-Chacón, G., Balgoma, D., Gil de Gómez, L., Ruipérez, V., Guijas, C., Balboa, M. A. & Balsinde, J.** (2011) Influence of cellular arachidonic acid levels on phospholipid remodeling and CoA-independent transacylase activity in human monocytes and U937 cells. [Biochim. Biophys. Acta 1811: 97-103](#).
88. **Balgoma, D., Montero, O., Balboa, M. A. & Balsinde, J.** (2010) Review - Lipidomic approaches to the study of phospholipase A<sub>2</sub>-regulated phospholipid fatty acid incorporation and remodeling. [Biochimie 92: 645-650](#).
87. **Balgoma, D., Astudillo, A. M., Pérez-Chacón, G., Montero, O., Balboa, M. A. & Balsinde, J.** (2010) Markers of monocyte activation revealed by lipidomic profiling of arachidonic acid-containing phospholipids. [J. Immunol. 184: 3857-3865](#).

86. **Casas, J., Valdearcos, M., Pindado, J., Balsinde, J. & Balboa, M. A.** (2010) The cationic cluster of group IVA phospholipase A<sub>2</sub> (Lys488/Lys541/Lys543/Lys544) is involved in translocation of the enzyme to phagosomes in human macrophages. *J. Lipid Res.* **51**: 388–399.
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 A<sub>2</sub>. *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 A<sub>2</sub> 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 A<sub>2</sub> 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 A<sub>2</sub>s. *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 A<sub>2</sub>. *J. Biol. Chem.* **284**: 5697-5708.
79. **Balgoma, D., Montero, O., Balboa, M. A. & Balsinde, J.** (2008) Calcium-independent phospholipase A<sub>2</sub>-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 A<sub>2</sub> 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 A<sub>2</sub> 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 A<sub>2</sub> 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 A<sub>2</sub>/cyclooxygenase-2 pathway. *J. Immunol.* **179**: 4821-4828.
  73. **Ruipérez, V., Casas, J., Balboa, M. A. & Balsinde, J.** (2007) Group V phospholipase A<sub>2</sub>-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 A<sub>2</sub> 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 A<sub>2</sub> 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 A<sub>2</sub> 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 A<sub>2</sub> 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 A<sub>2</sub> 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<sup>2+</sup>-independent group VI phospholipase A<sub>2</sub>s in P388D<sub>1</sub> 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<sub>2</sub> 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<sub>2</sub> in caveolin-enriched granules in activated P388D<sub>1</sub> macrophage-like cells. *J. Biol. Chem.* **278**: 48059-48065.

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61. **Balboa, M. A., Pérez, R. & Balsinde, J.** (2003) Amplification mechanisms of inflammation: paracrine stimulation of arachidonic acid mobilization by secreted phospholipase A<sub>2</sub> is regulated by cytosolic phospholipase A<sub>2</sub>-derived hydroperoxyeicosatetraenoic acid. *J. Immunol.* **171**: 989-994.
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59. **Balsinde, J., Winstead, M. V. & Dennis, E. A.** (2002) Review - Phospholipase A<sub>2</sub> regulation of arachidonic acid mobilization. *FEBS Lett.* **531**: 2-6.
58. **Balboa, M. A. & Balsinde, J.** (2002) Involvement of calcium-independent phospholipase A<sub>2</sub> in hydrogen peroxide-induced accumulation of free fatty acids in human U937 cells. *J. Biol. Chem.* **277**: 40384-40389.
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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<sub>2</sub>. 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 P388D<sub>1</sub> macrophage-like cells. *J. Biol. Chem.* **275**: 22544-22549.
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49. **Balboa, M. A., Balsinde, J. & Dennis, E. A.** (2000) Phosphorylation of cytosolic group IV phospholipase  $A_2$  is necessary but not sufficient for arachidonic acid release in P388D<sub>1</sub> macrophages. *Biochem. Biophys. Res. Commun.* **267**: 145-148.
48. **Balboa, M. A., Balsinde, J., Johnson, C. A. & Dennis, E. A.** (1999) Regulation of arachidonic acid mobilization in lipopolysaccharide-activated P388D<sub>1</sub> macrophages by adenosine triphosphate. *J. Biol. Chem.* **274**: 36764-36768.
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44. **Shinohara, H., Balboa, M. A., Johnson, C. A., Balsinde, J. & Dennis, E. A.** (1999) Regulation of delayed prostaglandin production in activated P388D<sub>1</sub> macrophages by group IV cytosolic and group V secretory phospholipase  $A_2$ s. *J. Biol. Chem.* **274**: 12263-12268.
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