

Publications 2007-2011

1. Montero-Melendez, T., H. B. Patel, and **M. Perretti**. Role of Melanocortin Receptors in the Regulation of Gouty Inflammation. *Curr Rheumatol Rep.* (in press).
2. Patel, H. B., G. Leoni, T. M. Melendez, A. L. Sampaio, and **M. Perretti**. 2010. Melanocortin control of cell trafficking in vascular inflammation. *Adv Exp Med Biol* 681:88-106.
3. Gavins, F. N., G. Li, J. Russell, **M. Perretti**, and D. N. Granger. Microvascular thrombosis and CD40/CD40L signalling. *J Thromb Haemost.* (in press)
4. Colucci, M., M. Mastriota, F. Maione, A. Di Giannuario, N. Mascolo, M. Palmery, C. Severini, **M. Perretti**, and S. Pieretti. 2011. Guinea pig ileum motility stimulation elicited by N-formyl-Met-Leu-Phe (fMLF) involves neurotransmitters and prostanoids. *Peptides* 32:266-271.
5. Allegra, M., F. D'Acquisto, L. Tesoriere, M. A. Livrea, and **M. Perretti**. 2011. Cross-talk between minimally primed HL-60 cells and resting HUVEC reveals a crucial role for adhesion over extracellularly released oxidants. *Biochem Pharmacol* 81:396-401.
6. Canaider, S., M. Vettraino, L. V. Norling, E. Spisni, F. Facchin, D. Cooper, and **M. Perretti**. 2010. Human RCAN3 gene expression and cell growth in endothelial cells. *Int J Mol Med* 26:913-918.
7. Spurr, L., S. Nadkarni, M. Pederzoli-Ribeil, N. J. Goulding, **M. Perretti**, and F. D'Acquisto. 2011. Comparative analysis of Annexin A1-formyl peptide receptor 2/ALX expression in human leukocyte subsets. *Int Immunopharmacol* 11:55-66.
8. Renshaw, D., T. Montero-Melendez, J. Dalli, A. Kamal, V. Brancaleone, F. D'Acquisto, G. Cirino, and **M. Perretti**. 2010. Downstream gene activation of the receptor ALX by the agonist annexin A1. *PLoS One* 5.
9. Cooper, D., J. M. Ilarregui, S. A. Pesoa, D. O. Croci, **M. Perretti**, and G. A. Rabinovich. 2010. Multiple functional targets of the immunoregulatory activity of galectin-1: Control of immune cell trafficking, dendritic cell physiology, and T-cell fate. *Methods Enzymol* 480:199-244.
10. Hunter, C., T. B. Kadakia, D. Cooper, **M. Perretti**, R. C. Schwartz, and S. B. Brown. 2010. Selective inhibitors of Kv11.1 regulate IL-6 expression by macrophages in response to TLR/IL-1R ligands. *ScientificWorldJournal* 10:1580-1596.
11. Pimentel, T. A., A. L. Sampaio, F. D'Acquisto, **M. Perretti**, and S. M. Oliani. 2011. An essential role for mast cells as modulators of neutrophils influx in collagen-induced arthritis in the mouse. *Lab Invest* 91:33-42.
12. Pederzoli-Ribeil, M., F. Maione, D. Cooper, A. Al-Kashi, J. Dalli, **M. Perretti**, and F. D'Acquisto. 2010. Design and characterization of a cleavage-resistant Annexin A1 mutant to control inflammation in the microvasculature. *Blood* 116:4288-4296.
13. Patel, H. B., M. Bombardieri, A. L. Sampaio, F. D'Acquisto, M. Gray, P. Grieco, S. J. Getting, C. Pitzalis, and **M. Perretti**. 2010. Anti-inflammatory and antiosteoclastogenesis properties of endogenous melanocortin receptor type 3 in experimental arthritis. *FASEB J* 24:4835-4843.

14. Di Filippo, C., A. Monopoli, E. Ongini, **M. Perretti**, and M. D'Amico. 2010. The cardio-protective properties of Ncx-6550, a nitric oxide donating pravastatin, in the mouse. *Microcirculation* 17:417-426.
15. Maderna, P., D. C. Cottell, T. Toivonen, N. Dufton, J. Dalli, **M. Perretti**, and C. Godson. 2010. FPR2/ALX receptor expression and internalization are critical for lipoxin A4 and annexin-derived peptide-stimulated phagocytosis. *FASEB J* 24:4240-4249.
16. Yazid, S., G. Leoni, S. J. Getting, D. Cooper, E. Solito, **M. Perretti**, and R. J. Flower. 2010. Antiallergic cromones inhibit neutrophil recruitment onto vascular endothelium via annexin-A1 mobilization. *Arterioscler Thromb Vasc Biol* 30:1718-1724.
17. Dufton, N., and **M. Perretti**. 2010. Therapeutic anti-inflammatory potential of formyl-peptide receptor agonists. *Pharmacol Ther* 127:175-188.
18. Dalli, J., G. Rosignoli, R. P. Hayhoe, A. Edelman, and **M. Perretti**. 2010. CFTR inhibition provokes an inflammatory response associated with an imbalance of the annexin A1 pathway. *Am J Pathol* 177:176-186.
19. Maione, F., N. Paschalidis, A. J. Iqbal, T. Crompton, **M. Perretti**, and F. D'Acquisto. 2010. Analysis of the inflammatory response in HY-TCR transgenic mice highlights the pathogenic potential of CD4- CD8- T cells. *Autoimmunity* 43:672-681.
20. Leoni, G., M. B. Voisin, K. Carlson, S. Getting, S. Nourshargh, and **M. Perretti**. 2010. The melanocortin MC(1) receptor agonist BMS-470539 inhibits leucocyte trafficking in the inflamed vasculature. *Br J Pharmacol* 160:171-180.
21. Paschalidis, N., A. Huggins, N. J. Rowbotham, A. L. Furmanski, T. Crompton, R. J. Flower, **M. Perretti**, and F. D'Acquisto. 2010. Role of endogenous annexin-A1 in the regulation of thymocyte positive and negative selection. *Cell Cycle* 9:784-793.
22. Dufton, N., R. Hannon, V. Brancaleone, J. Dalli, H. B. Patel, M. Gray, F. D'Acquisto, J. C. Buckingham, **M. Perretti**, and R. J. Flower. 2010. Anti-inflammatory role of the murine formyl-peptide receptor 2: ligand-specific effects on leukocyte responses and experimental inflammation. *J Immunol* 184:2611-2619.
23. Semple, F., S. Webb, H. N. Li, H. B. Patel, **M. Perretti**, I. J. Jackson, M. Gray, D. J. Davidson, and J. R. Dorin. 2010. Human beta-defensin 3 has immunosuppressive activity in vitro and in vivo. *Eur J Immunol* 40:1073-1078.
24. Sampaio, A. L., G. Zahn, G. Leoni, D. Vossmeyer, C. Christner, J. F. Marshall, and **M. Perretti**. 2010. Inflammation-dependent alpha 5 beta 1 (very late antigen-5) expression on leukocytes reveals a functional role for this integrin in acute peritonitis. *J Leukoc Biol* 87:877-884.
25. Paschalidis, N., A. J. Iqbal, F. Maione, E. G. Wood, **M. Perretti**, R. J. Flower, and F. D'Acquisto. 2009. Modulation of experimental autoimmune encephalomyelitis by endogenous annexin A1. *J Neuroinflammation* 6:33.
26. Spite, M., L. V. Norling, L. Summers, R. Yang, D. Cooper, N. A. Petasis, R. J. Flower, **M. Perretti**, and C. N. Serhan. 2009. Resolvin D2 is a potent regulator of leukocytes and controls microbial sepsis. *Nature* 461:1287-1291.

27. Sarndahl, E., I. Bergstrom, J. Nijm, T. Forslund, **M. Perretti**, and L. Jonasson. 2010. Enhanced neutrophil expression of annexin-1 in coronary artery disease. *Metabolism* 59:433-440.
28. **Perretti, M.**, and J. Dalli. 2009. Exploiting the Annexin A1 pathway for the development of novel anti-inflammatory therapeutics. *Br J Pharmacol* 158:936-946.
29. Duchene, J., C. Cayla, S. Vessillier, R. Scotland, K. Yamashiro, F. Lecomte, I. Syed, P. Vo, A. Marrelli, C. Pitzalis, F. Cipollone, J. Schanstra, J. L. Bascands, A. J. Hobbs, **M. Perretti**, and A. Ahluwalia. 2009. Laminar shear stress regulates endothelial kinin B1 receptor expression and function: potential implication in atherogenesis. *Arterioscler Thromb Vasc Biol* 29:1757-1763.
30. McColl, A., S. Bournazos, S. Franz, **M. Perretti**, B. P. Morgan, C. Haslett, and I. Dransfield. 2009. Glucocorticoids induce protein S-dependent phagocytosis of apoptotic neutrophils by human macrophages. *J Immunol* 183:2167-2175.
31. Piqueras, L., M. J. Sanz, **M. Perretti**, E. Morcillo, L. Norling, J. A. Mitchell, Y. Li, and D. Bishop-Bailey. 2009. Activation of PPARbeta/delta inhibits leukocyte recruitment, cell adhesion molecule expression, and chemokine release. *J Leukoc Biol* 86:115-122.
32. Tripatara, P., N. S. Patel, V. Brancaleone, D. Renshaw, J. Rocha, B. Sepedes, H. Mota-Filipe, **M. Perretti**, and C. Thiemermann. 2009. Characterisation of cystathionine gamma-lyase/hydrogen sulphide pathway in ischaemia/reperfusion injury of the mouse kidney: an in vivo study. *Eur J Pharmacol* 606:205-209.
33. Norling, L. V., **M. Perretti**, and D. Cooper. 2009. Endogenous galectins and the control of the host inflammatory response. *J Endocrinol* 201:169-184.
34. **Perretti, M.**, and F. D'Acquisto. 2009. Annexin A1 and glucocorticoids as effectors of the resolution of inflammation. *Nat Rev Immunol* 9:62-70.
35. Gastardelo, T. S., A. S. Damazo, J. Dalli, R. J. Flower, **M. Perretti**, and S. M. Oliani. 2009. Functional and ultrastructural analysis of annexin A1 and its receptor in extravasating neutrophils during acute inflammation. *Am J Pathol* 174:177-183.
36. Maione, F., N. Paschalidis, N. Mascolo, N. Dufton, **M. Perretti**, and F. D'Acquisto. 2009. Interleukin 17 sustains rather than induces inflammation. *Biochem Pharmacol* 77:878-887.
37. Huggins, A., N. Paschalidis, R. J. Flower, **M. Perretti**, and F. D'Acquisto. 2009. Annexin-1-deficient dendritic cells acquire a mature phenotype during differentiation. *FASEB J* 23:985-996.
38. Hecht, I., J. Rong, A. L. Sampaio, C. Hermesh, C. Rutledge, R. Shemesh, A. Toporik, M. Beiman, L. Dassa, H. Niv, G. Cojocaru, A. Zauberman, G. Rotman, **M. Perretti**, J. Vinten-Johansen, and Y. Cohen. 2009. A novel peptide agonist of formyl-peptide receptor-like 1 (ALX) displays anti-inflammatory and cardioprotective effects. *J Pharmacol Exp Ther* 328:426-434.
39. Getting, S. J., Y. Riffo-Vasquez, S. Pitchford, M. Kaneva, P. Grieco, C. P. Page, **M. Perretti**, and D. Spina. 2008. A role for MC3R in modulating lung inflammation. *Pulm Pharmacol Ther* 21:866-873.

40. Oliani, S. M., G. A. Ciocca, T. A. Pimentel, A. S. Damazo, L. Gibbs, and **M. Perretti**. 2008. Fluctuation of annexin-A1 positive mast cells in chronic granulomatous inflammation. *Inflamm Res* 57:450-456.
41. Babbin, B. A., M. G. Laukoetter, P. Nava, S. Koch, W. Y. Lee, C. T. Capaldo, E. Peatman, E. A. Severson, R. J. Flower, **M. Perretti**, C. A. Parkos, and A. Nusrat. 2008. Annexin A1 regulates intestinal mucosal injury, inflammation, and repair. *J Immunol* 181:5035-5044.
42. Leoni, G., H. B. Patel, A. L. Sampaio, F. N. Gavins, J. F. Murray, P. Grieco, S. J. Getting, and **M. Perretti**. 2008. Inflamed phenotype of the mesenteric microcirculation of melanocortin type 3 receptor-null mice after ischemia-reperfusion. *FASEB J* 22:4228-4238.
43. D'Acquisto, F., **M. Perretti**, and R. J. Flower. 2008. Annexin-A1: a pivotal regulator of the innate and adaptive immune systems. *Br J Pharmacol* 155:152-169.
44. Dalli, J., L. V. Norling, D. Renshaw, D. Cooper, K. Y. Leung, and **M. Perretti**. 2008. Annexin 1 mediates the rapid anti-inflammatory effects of neutrophil-derived microparticles. *Blood* 112:2512-2519.
45. D'Acquisto, F., N. Paschalidis, K. Raza, C. D. Buckley, R. J. Flower, and **M. Perretti**. 2008. Glucocorticoid treatment inhibits annexin-1 expression in rheumatoid arthritis CD4+ T cells. *Rheumatology (Oxford)* 47:636-639.
46. Cooper, D., L. V. Norling, and **M. Perretti**. 2008. Novel insights into the inhibitory effects of Galectin-1 on neutrophil recruitment under flow. *J Leukoc Biol* 83:1459-1466.
47. Martin, G. R., **M. Perretti**, R. J. Flower, and J. L. Wallace. 2008. Annexin-1 modulates repair of gastric mucosal injury. *Am J Physiol Gastrointest Liver Physiol* 294:G764-769.
48. Norling, L. V., A. L. Sampaio, D. Cooper, and **M. Perretti**. 2008. Inhibitory control of endothelial galectin-1 on in vitro and in vivo lymphocyte trafficking. *FASEB J* 22:682-690.
49. Finney, S. J., P. B. Anning, T. V. Cao, **M. Perretti**, T. W. Evans, and A. Burke-Gaffney. 2007. Butanol-extracted lipoteichoic acid induces in vivo leukocyte adhesion. *Biochem Biophys Res Commun* 364:831-837.
50. O'Sullivan, T. P., K. S. Vallin, S. T. Shah, J. Fakhry, P. Maderna, M. Scannell, A. L. Sampaio, **M. Perretti**, C. Godson, and P. J. Guiry. 2007. Aromatic lipoxin A4 and lipoxin B4 analogues display potent biological activities. *J Med Chem* 50:5894-5902.