2012
Recovery of corneal sensitivity, calcitonin gene-related peptide-positive nerves, and increased wound healing induced by pigment epithelial-derived factor plus docosahexaenoic acid after experimental surgery. Cortina M.S., He J., Li N., **Bazan N.G.**, Bazan H.E. *Arch Ophthalmol*. 2012 Jan; 130(1):76-83. Epub 2011 Sep 12. PMID: 21911652 [PubMed - indexed for MEDLINE].
Novel aspirin-triggered Neuroprotectin D1 attenuates cerebral ischemic injury after experimental stroke. **Bazan N.G.**, Eady T.N., Khoutorova L., Atkins K.D., Hong S., Lu Y., Zhang C., Jun B., Obenaus A., Fredman G., Zhu M., Winkler J.W., Petasis N.A., Serhan C.N., Belayev L. *Exp Neurol*. 2012 Jul; 236(1):122-30. Epub 2012 Apr 19.
Ataxin-1 Poly(Q)-induced Proteotoxic Stress and Apoptosis Are Attenuated in Neural Cells by Docosahexaenoic Acid-derived Neuroprotectin D1. Calandria J.M., Mukherjee P.K., de Rivero Vaccari J.C., Zhu M., Petasis N.A., **Bazan N.G**. *J Biol Chem*. 2012 Jul 6; 287(28):23726-39. Epub 2012 Apr 16. PMID:22511762 [PubMed - in process].
Novel aspirin-triggered neuroprotectin D1 attenuates cerebral ischemic injury after experimental stroke. **Bazan N.G.**, Eady T.N., Khoutorova L., Atkins K.D., Hong S., Lu Y., Zhang C., Jun B., Obenaus A., Fredman G., Zhu M., Winkler J.W., Petasis N.A., Serhan C.N., Belayev L. *Exp Neurol*. 2012 Jul; 236(1):122-30. Epub 2012 Apr 19. PMID:22542947 [PubMed - indexed for MEDLINE].
Superior Neuroprotective Efficacy of LAU-0901, a Novel Platelet-Activating Factor Antagonist, in Experimental Stroke. Belayev L., Eady T.N., Khoutorova L., Atkins K.D., Obenaus A., Cordoba M., Vaquero J.J., Alvarez-Builla J., **Bazan N.G.** *Transl Stroke Res*. 2012 Mar; 3(1):154-163. Epub 2011 Oct 27.PMID:22408693 [PubMed].
Stereocontrolled total synthesis of neuroprotectin D1 / protectin D1 and its aspirin-triggered stereoisomer. Petasis N.A., Yang R., Winkler J.W., Zhu M., Uddin J., **Bazan N.G.**, Serhan C.N. *Tetrahedron Lett*. 2012 Apr 4; 53(14):1695-1698. Epub 2012 Jan 14. PMID: 22690022 [PubMed].
2011
Cellular and 3D optical coherence tomography assessment during the initiation and progression of retinal degeneration in the Ccl2/Cx3cr1-deficient mouse. Zhou Y., Sheets K.G., Knott E.J., Regan .CE. Jr, Tuo J., Chan C.C., Gordon W.C., **Bazan N.G**. *Exp Eye Res*. 2011 Nov; 93(5):636-48. Epub 2011 Aug 16. PMID:21854772 [PubMed - indexed for MEDLINE].
Endogenous signaling by omega-3 docosahexaenoic acid-derived mediators sustains homeostatic synaptic and circuitry integrity. **Bazan N.G.**, Musto A.E., Knott E.J. *Mol Neurobiol*. 2011 Oct; 44(2):216-22. Epub 2011 Sep 15. Review. PMID: 21918832 [PubMed - indexed for MEDLINE].
Synaptic and extrasynaptic NMDA receptors differentially modulate neuronal cyclooxygenase-2 function, lipid peroxidation, and neuroprotection. Stark D.T., **Bazan N.G**. *J Neurosci*. 2011 Sep 28; 31(39):13710-21. PMID: 21957234 [PubMed - indexed for MEDLINE].

The omega-3 fatty acid-derived neuroprotectin D1 limits hippocampal hyperexcitability and seizure susceptibility in kindling epileptogenesis. Musto A.E., Gjorstrup P., **Bazan N.G.** *Epilepsia*. 2011 Sep; 52(9):1601-8. doi: 10.1111/j.1528-1167.2011.03081.x. Epub 2011 May 13. PMID:21569016 [PubMed - indexed for MEDLINE].

Novel proresolving aspirin-triggered DHA pathway. Serhan C.N., Fredman G., Yang R., Karamnov S., Belayev L.S., **Bazan N.G.**, Zhu M., Winkler J.W., Petasis N.A. *Chem Biol*. 2011 Aug 26; 18(8):976-87. PMID:21867913 [PubMed - indexed for MEDLINE].

Docosahexaenoic acid signalolipidomics in nutrition: significance in aging, neuroinflammation, macular degeneration, Alzheimer's, and other neurodegenerative diseases. **Bazan N.G.**, Molina M.F., Gordon W.C. *Annu Rev Nutr*. 2011 Aug 21; 31:321-51. PMID:21756134 [PubMed - indexed for MEDLINE].

Aspirin-triggered lipoxin A4 (15-epi-LXA4) increases the endothelial viability of human corneas storage in Optisol-GS. He J., Kakazu A.H., **Bazan N.G.**, Bazan H.E. *J Ocul Pharmacol Ther*. 2011 Jun; 27(3):235-41. Epub 2011 May 6. PMID:21548792 [PubMed - indexed for MEDLINE].

EGF stimulates lipoxin A4 synthesis and modulates repair in corneal epithelial cells through ERK and p38 activation. Kenchegowda S., **Bazan N.G.**, Bazan H.E. *Invest Ophthalmol Vis Sci*. 2011 Apr 6; 52(5):2240-9. Print 2011 Apr. PMID:21220563 [PubMed - indexed for MEDLINE].

Neuroprotectin D1 induces neuronal survival and downregulation of amyloidogenic processing in Alzheimer's disease cellular models. Stark D.T., **Bazan N.G**. *Mol Neurobiol*. 2011 Apr; 43(2):131-8. Epub 2011 Mar 10. Review. PMID:21431475 [PubMed - indexed for MEDLINE].

Spatial correlation of mouse photoreceptor-RPE thickness between SD-OCT and histology. Knott E.J., Sheets K.G., Zhou Y., Gordon W.C., **Bazan N.G**. *Exp Eye Res*. 2011 Feb; 92(2):155-60. Epub 2010 Oct 28. PMID:21035444 [PubMed - indexed for MEDLINE].

Docosahexaenoic acid-derived neuroprotectin D1 induces neuronal survival via secretase- and PPARγ-mediated mechanisms in Alzheimer's disease models. Zhao Y., Calon F., Julien C., Winkler J.W., Petasis N.A., Lukiw W.J., **Bazan N.G.** *PLoS One*. 2011 Jan 5; 6(1):e15816. PMID:21246057 [PubMed - indexed for MEDLINE].

Molina, M.F., **Bazan, N.G.** The bioactive mediator neuroprotectin D1 derived from docosahexaenoic acid is a homeostatic cell survival sentinel in the nervous system. *ASBMB Today* July 2011 pp. 24-25.

Recovery of corneal sensitivity, CGRP positive nerves and increased wound healing are induced by PEDF plus DHA after experimental surgery. Cortina, M.S., He, J., Li, N., **Bazan, N.G.**, Bazan, H.E. *Arch. Ophthal*. 2012 130:76-83; 2011 (online first).

Docosahexaenoic Acid Therapy of Experimental Ischemic Stroke. Belayev, L., Khoutorova, L., Atkins, K.D., Eady, T.N., Hong, S., Lu, Y., Obenaus, A., **Bazan, N.G.** *Transl Stroke Res*. (2011) 2:33-41.

Mattson, M.P., **Bazan, N.G.** *Apoptosis and Necrosis.* In: **Basic Neurochemistry: Molecular, Cellular and Medical Aspects**, 8th edition, G.Siegel, R.W. Albers, S.T. Brady, D.L. Price (Eds.), 2011.
Belayev, L., Lu, Y. M., **Bazan, N.G**. *Brain Ischemia and Reperfusion: Cellular and Molecular Mechanisms in Stroke Injury.* In: **Basic Neurochemistry: Molecular, Cellular and Medical Aspects**, 8th edition, G.Siegel, R.W. Albers, S.T. Brady, D.L. Price (Eds.), 2011.