

PUBLICATIONS
BETTY JEAN GAFFNEY
(also published as Betty Gaffney McFarland, 1963-1972)

1. B. Gaffney McFarland (1963) "Ring Contraction of Steroids", in *Steroids*, (ed. C. Djerassi) Holden Day, Inc., San Francisco, Ch. 11, pp. 427-455.
2. B. Gaffney McFarland (1966) "Reductions by Grignard Reagents with Multiple Asymmetric Centers", Stanford University Dissertation (w. H.S. Mosher).
3. B. Gaffney McFarland, Y. Inoue and K. Nakanishi (1969) "The Reaction of Koshland's Protein Reagent with Tryptophan", *Tetrahedron Letters*, **10**: 857-860.
4. H. M. McConnell and B. Gaffney McFarland (1970) "Physics and Chemistry and Spin Labels", *Quarterly Reviews of Biophysics*, **3**: 91-136.
5. B. Gaffney McFarland and H. M. McConnell (1971) "Bent Fatty Acid Chains in Lecithin Bilayers", *Proceedings of the National Academy of Sciences*, **68**: 1274-1278.
6. H. M. McConnell, K. L. Wright and B. Gaffney McFarland (1972) "The Fraction of the Lipid in a Biological Membrane that is in a Fluid State: A Spin-Label Assay", *Biochemical and Biophysical Research Communications*, **47**: 273-281.
7. H. M. McConnell and B. Gaffney McFarland (1972) "The Flexibility Gradient in Biological Membranes", *Annals of the New York Academy of Sciences*, **195**: 207-217.
8. B. Gaffney McFarland (1972) "The Molecular Basis of Fluidity in Membranes", *Chemistry and Physics of Lipids*, **8**: 303-313.
9. B. J. Gaffney and C. McNamee (1974) "Spin Label Measurements in Membranes", in *Biomembranes* (a volume of *Methods in Enzymology*), Fleisher, Packer and Estabrook eds, Academic Press, N.Y., Vol. 32B, Ch. 17, pp. 161-198.
10. B. J. Gaffney and H. M. McConnell (1974) "Effect of a Magnetic Field on Phospholipid Membranes", *Chemical Physics Letters*, **24**: 310-313.
11. B. J. Gaffney and H. M. McConnell (1974) "The Paramagnetic Resonance Spectra of Spin Labels in Phospholipid Membranes", *Journal of Magnetic Resonance*, **16**:1-28.
12. B. J. Gaffney, P. E. Branton, G. G Wickus and C. B. Hirschberg (1974) "Fluid Lipid Regions in Normal and Rous Sarcoma Virus Transformed Chick Embryo Fibroblasts", in *Viral Transformation and Endogeneous Viruses*, ed. A. S. Kaplan, Academic Press, New York, pp. 97-115.

13. B.M. Sefton and B. J. Gaffney (1974) "Effect of the Viral Proteins on Fluidity of the Membrane Lipids in Sindbis Virus", *Journal of Molecular Biology*, **90**: 343-358.
14. P. W. Robbins, G. G. Wickus, P. E. Branton, B. J. Gaffney, C. B. Hirschberg, P. Fuchs and P. M. Blumberg (1974) "The Chick Fibroblast Cell Surface after Transformation by Rous Sarcoma Virus", *Cold Spring Harbor Symposium*, **39**: 1173-1180.
15. B. J. Gaffney (1975) "Fatty Acid Chain Flexibility in the Membranes of Normal and Transformed Fibroblasts", *Proceedings of the National Academy of Sciences*, **72**: 664-668.
16. B.J. Gaffney (1975) "Looking at the Membrane", *Cell*, **4**: 405-408: book reviews.
17. B. J. Gaffney (1976) "The Chemistry of Spin Labels", in *Spin Labeling: Theory and Applications*, ed. L. J. Berliner, Academic Press, New York, pp. 182-238.
18. B. J. Gaffney (1976) "Practical Considerations for the Calculation of Order Parameters for Fatty Acid or Phospholipid Spin Labels in Membranes", Appendix in *Spin Labeling: Theory and Applications*, ed. L. J. Berliner, Academic Press, New York, pp. 567-571.
19. B. J. Gaffney and D. C. Lin (1976) "Spin Label Measurements of Membrane-Bound Enzymes", in *The Enzymes of Biological Membranes*, ed. A. Martonosi, Plenum Press, New York, Vol. 1, Ch. 3, pp. 71-90.
20. B. J. Gaffney and R. J. Mich (1976) "A New Measurement of Surface Charge in Model and Biological Lipid Membranes", *Journal of the American Chemical Society*, **98**: 3044-3045.
21. B. J. Gaffney and S. C. Chen (1977) "Spin Label Studies of Membranes", in *Methods in Membrane Biology*, ed. E. D. Korn, Plenum Press, Vol. 8, pp. 291-358.
22. B. J. Gaffney and D. C. Lin (1977) "Biophysical Techniques for Measuring Physical Properties of Lipids in Membranes", in *Immunobiology of Gametes*, M. Edidin and M. H. Johnson, eds., Cambridge University Press, pp. 31-40.
23. S. C. Chen and B. J. Gaffney (1978) "Paramagnetic Resonance Evidence for Phase Transitions in Bilayers of Pure Spin Labeled Lipids", *Journal of Magnetic Resonance*, **29**: 341-353.
24. C. L. Wey, R. A. Cone and B. J. Gaffney (1979) "Effects of Light and C-GMP on Membrane Fluidity of Frog Rod Outer Segments", *Photochemistry and Photobiology*, **29**: 707-713.
25. C.L. Wey, P.L. Ahl, R.A. Cone, and B.J. Gaffney (1979) "Membrane Viscosity: A Small Lipid-Phase Spin Probe Reports the Same Viscosity as Two Integral Membrane Proteins", *Biophys. J.*, **25**: 169a.

26. C.L. Wey, R.A. Cone and B.J. Gaffney (1979) "Diffusion in Membranes: How much does the Viscosity of the Aqueous Phase Affect Diffusion Rates of Membrane Proteins and Lipids?", *Biophys. J.*, **25**: 284a.
27. B. M. Sefton and B. J. Gaffney (1979) "Complete Exchange of Viral Cholesterol", *Biochemistry*, **18**: 436-442.
28. B. J. Gaffney (1979) "Spin Label-Thiourea Adducts: A Model for Saturation Transfer EPR Studies of Slow, Anisotropic Rotation", *The Journal of Physical Chemistry*, **83**: 3345-3349.
29. B. J. Gaffney, D. B. Drachman, D. C. Lin and G. Tennekoon (1980) "Spin-Label Studies of Erythrocytes in Myotonic Dystrophy: No Increase in Membrane Fluidity", *Journal of Neurology*, **30**: 272-276.
30. S. C. Chen, J. M. Sturtevant and B. J. Gaffney (1980) "Scanning Calorimetric Evidence for a Third Phase Transition in Phosphatidylcholine Bilayers", *Proceedings of the National Academy of Sciences*, **77**: 5060-5063.
31. B. J. Gaffney, J. P. A. Scibilia and C. Elbrecht (1980) "Conventional EPR of ^{15}N Nitroxides is Sensitive to Correlation Times as Long as 10^{-4} Sec", *Bulletin of Magnetic Resonance*, p. 374.
32. M. W. Tse-Tang, B. J. Gaffney and R. E. Kelly (1981) "Synthesis of Bifunctional Spin Label Molecules and Their Orientations in Membranes", *Heterocycles*, **15**: 965-974.
33. B. J. Gaffney, C. H. Elbrecht and J. P. A. Scibilia (1981) "Enhanced Sensitivity to Slow Motions Using ^{15}N -Nitroxide Spin Labels", *J. Magn. Res.*, **44**: 436-446.
34. R. K. Scheule and B. J. Gaffney (1981) "Physical Properties of Native and Reconstituted Membranes Containing Sindbis Virus Glycoproteins, in Liposomes, Drugs and Immunocompetent Cell Functions, ed. C. Nicolau and A. Paraf, Academic Press, London, pp. 79-93.
35. R. K. Scheule and B. J. Gaffney (1981) "Reconstitution of Membranes with Fractions of Triton X-100 Which are Easily Removed", *Anal. Biochem.*, **117**: 61-66.
36. B. J. Gaffney and R. K. Scheule (1982) "What is a Successful Reconstitution of a Membrane Glycoprotein that Lacks an Enzymatic Activity?", *Biophys. J.*, **37**: 81-82 (Discussions book).
37. S.-C. Chen, J. M. Sturtevant, K. Conklin and B.J. Gaffney (1982) "Calorimetric Evidence for Phase Transitions in Spin-Labeled Lipid Bilayers", *Biochemistry*, **21**: 5096-5101.
38. H. Grill, N. Weigel, B. J. Gaffney and S. Roseman (1982) "Sugar Transport by the Bacterial Phosphotransferase System: XVII. Radioactive and Electron Paramagnetic

- Resonance Labeling of the *Salmonella typhimurium* Phosphocarrier Protein HPr at the Amino-terminal Methionine", *J. Biol. Chem.*, **257**: 14510-14517.
39. R. A. Lazarus, D. E. Wallick, R. F. Dietrich, D. W. Gottschall, S. J. Benkovic, B. J. Gaffney and R. Shiman (1982) "The Mechanism of Phenylalanine Hydroxylase", *Federation Proceedings*, **41**: 2605-2607.
 40. B. J. Gaffney, G. L. Willingham and R. S. Schepp (1983) "Synthesis and Membrane Interactions of Spin Label Bifunctional Reagents", *Biochemistry*, **22**: 881-892.
 41. G. L. Willingham and B. J. Gaffney (1983) "Reactions of Spin Label Crosslinking Reagents with Red Blood Cell Proteins", *Biochemistry*, **22**: 892-898.
 42. D. E. Wallick, L. M. Bloom, B. J. Gaffney and S. J. Benkovic (1984) "The Reductive Activation of Phenylalanine Hydroxylase and Its Effect on the Redox State of the Nonheme Iron", *Biochemistry*, **23**: 1295-1302.
 43. S. Benkovic, D. Wallick, L. Bloom, B. J. Gaffney, P. Domanico, T. Dix and S. Pember (1985) "On the Mechanism of Action of Phenylalanine Hydroxylase", *Biochem. Soc. Transactions*, **13**: 436-438.
 44. B. J. Gaffney (1985) "Chemical and Biochemical Crosslinking of Membrane Components", *Biochim. Biophys. Acta Reviews on Biomembranes*, **822**: 289-317.
 45. S. J. Benkovic, L. M. Bloom, G. Bollag, T. A. Dix, B. J. Gaffney and S. Pember (1986) "The Mechanism of Action of Phenylalanine Hydroxylase", *Ann. N.Y. Acad. Sci.*, **471**: 226-232.
 46. L. M. Bloom, S. J. Benkovic and B.J. Gaffney (1986) "Characterization of Phenylalanine Hydroxylase", *Biochemistry*, **25**: 4204-4210.
 47. A.-S. Yang and B. J. Gaffney (1987) "Determination of Relative Spin Concentration in Some High-Spin Ferric Proteins Using E/D-Distribution in Electron Paramagnetic Resonance Simulations", *Biophys. J.*, **51**: 55-67.
 48. J. C. Boyington, B. J. Gaffney and L. M. Amzel (1990) "Crystallization and Preliminary X-ray Analysis of Soybean Lipoxygenase-1, A Non-heme Iron-containing Dioxygenase", *J. Biol. Chem.*, **265**: 12771-12773.
 49. A.-S. Yang and B.J. Gaffney (1990) "EPR Detection of Kinetic Responses to Photochemically Generated Protein Cofactors", *J. Magn. Res.*, **90**: 580-583.
 50. B.J. Gaffney (1990), book review of "Spin Labelling: Theory and Applications. Biological Magnetic Resonance. Volume 8", *J. Am. Chem. Soc.*, **112**: 6750.

51. J. Dubach, B.J. Gaffney, K. More, G.R. Eaton, and S.S. Eaton (1991) "The Effect of the Synergistic Anion on EPR Spectra of Iron-Transferrin Anion Complexes is Consistent with Bidentate Binding of the Anion", *Biophys. J.*, **59**: 1091-1100.
52. B.J. Gaffney and P. J. Dagdigian (1993) "Oxygen Binding to Hemoglobin", in *Physical Chemistry, Developing a Dynamic Curriculum*, R.W. Schwenz and R.J. Moore eds., American Chemical Society, Ch. 25 , pp. 370-379.
53. B. J. Gaffney and H. J. Silverstone (1993) "Simulation of the EMR Spectra of High Spin Iron in Proteins", a Chapter in *Biological Magnetic Resonance, Vol. 13: EMR of Paramagnetic Molecules*, L.J. Berliner and J. Reuben, Eds, Plenum N.Y., pp 1-57.
54. B. J. Gaffney, D. V. Mavrophilipos and K.S. Doctor (1993) "Access of Ligands to the Ferric Center in Lipoxygenase-1", *Biophys. J.*, **64**: 773-783.
55. K. S. Doctor, B. J. Gaffney, G. Alvarez and H. J. Silverstone (1993) "EPR Spectroscopy of Interdoublet Transitions in High-Spin Iron: Applications to Transferrin Oxalate", *J. Phys. Chem.*, **97**: 3028-3033.
56. D.D. Thomas. B.J. Gaffney and O.H. Griffith (1993) "The Science Speaks for Itself: a Biographical Sketch of Harden McConnell", *Biophys. J.*, **64**: 573-576.
57. O.H. Griffith, B.J. Gaffney and A.L. Kwiram (1993) "Harden M. McConnell: A Celebration of His Scientific Achievements", *J. Phys. Chem.*, **97**: 2807-2810.
58. J.C. Boyington, B. J. Gaffney, and L.M. Amzel (1993) "The Three-Dimensional Structure of an Arachidonic Acid 15-Lipoxygenase", *Science*, **260**: 1482-1486.
59. J.C. Boyington, B. J. Gaffney, and L.M. Amzel (1993) "Structure of Soybean Lipoxygenase-1", *Biochem. Soc. Transactions*, **21**: 744-748.
60. J.C. Boyington, B. J. Gaffney, and L.M. Amzel (1994) "The Three-Dimensional Structure of Soybean Lipoxygenase-1: an Arachidonic Acid 15-Lipoxygenase", in "Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Radiation Injury", K.V. Honn, S. Nigam and L.J. Marnett, eds., Kluwer Acad. Pub., Norwell, MA, pp.131-136.
61. J.C. Boyington, B. J. Gaffney, L.M. Amzel, K.S. Doctor, D.V. Mavrophilipos, Z.V. Mavrophilipos, A.Colom and S.M. Yuan (1994) "The X-ray Structure and Biophysical Studies of a 15-Lipoxygenase" *Annals. New York Acad. Sci.*, **744**: 310-313. Figure on cover.
62. B.J. Gaffney and B.C. Maguire (1995) "Nuclear Magnetic Resonance of Biomolecules in Solution" for *Encyclopedia of Molecular Biology and Biotechnology*, R.A. Meyers ed., VCH Publishers, New York, pp. 601-604.

63. B.J. Gaffney, J.C. Boyington, L.M. Amzel, K.S. Doctor, S.T. Prigge, S.M. Yuan (1995) "Lipoxygenase Structure and Mechanism" Proc. 9th Int. Conf. on Prostaglandins and Related Compounds, *in* "Advances in Prostaglandin, Thromboxane and Leukotriene Research", v. 23, Raven Press, New York, pp. 11-16.
64. M.W. Crowder, J.D. Stewart, V.A. Roberts, C.J. Bender, E Tevelrakh, S.D. Taylor, P.C.D. Hawkins, S. Franklin, J. Peisach, E.D. Getzoff, B.J. Gaffney and S. J. Benkovic (1995) "Spectroscopic Studies on the Designed Metal-Binding Sites of the 43C9 Single Chain Antibody", *J. Am. Chem. Soc.*, **117**: 5627-5634.
65. L.M. Amzel and B.J. Gaffney (1995) "Structural Immunology: Problems in Molecular Recognition", *FASEB J.*, **9**: 7-8.
66. S.T. Prigge, J.C. Boyington, B.J. Gaffney and L.M. Amzel (1996) "Structure Conservation in Lipoxygenases: Structural Analysis of Soybean Lipoxygenase-1 and Modeling of Human Lipoxygenases", *Proteins: Structure, Function, and Genetics*, **24**: 275-291.
67. B.C. Maguire and B.J. Gaffney (1996) "Nuclear Magnetic Resonance of Biological Molecules in Solution" in *Encyclopedia of Molecular Biology*, Fundamentals and Applications, VCH Publishers, New York, pp. 218-226.
68. B.J. Gaffney (1996) "Lipoxygenases: Structural Principles and Spectroscopy" *Ann. Reviews Biophys. Biomol. Struct.*, **25**: 431-59.
69. S.T. Prigge, J.C. Boyington, B.J. Gaffney and L.M. Amzel (1996) "Lipoxygenase: Structure and Function", in "Lipoxygenases and Lipoxygenase Pathway Enzymes", G. Piazza ed. AOCs Press, Champaign, IL, Ch. 1, pp. 1-32.
70. K.S. Doctor and B.J. Gaffney (1996) "High Frequency EPR Predictions for the Non-heme Iron Protein Lipoxygenase" *Appl. Magn. Res.*, **11**: 425-435.
71. B.J. Gaffney (1996) "Origins of Biological Magnetic Resonance" *FASEB J.* **10**: 1448-1449.
72. B. C. Maguire and B. J. Gaffney (1997) "Interdoublet Transitions in S=5/2 Protein Systems" *Solid State NMR*, **9**: 81-83.
73. J.C. Boyington, B. J. Gaffney and L.M. Amzel (1997) "The Three Dimensional Structure of Soybean Lipoxygenase-1: An Arachidonic Acid 15-Lipoxygenase" *Adv. Exp. Med. Biol.* **400A**: 133-138.
74. S.T. Prigge, J.C. Boyington, M. Faig, K.S. Doctor, B.J. Gaffney and L.M. Amzel (1997) "Structure and Mechanism of Lipoxygenases" *Biochimie*, **79**: 629-636.

75. B.J. Gaffney (1998) "Biochemical Spectroscopy and Dynamics" in *Principles of Chemistry in Biology*, E.C. Theil ed., American Chemical Society, Washington, D.C., Ch 6, pp. 157-186.
76. S.T. Prigge, B.J. Gaffney and L.M. Amzel (1998) "Relation Between Positional Specificity and Chirality in Mammalian Lipoygenases" *Nature Structural Biology*, **5**: 178-9.
77. B.J. Gaffney and H.J. Silverstone (1998) "Simulation Methods for Looping Transitions", *J. Magn. Res.*, **134**: 57-66. Figure on cover.
78. B.J. Gaffney, G.R. Eaton and S.S. Eaton (1998) "Electron Spin Relaxation Rates for High-spin Fe(III) in Iron Transferrin Carbonate and Iron Transferrin Oxalate" *J. Phys Chem.* **102**: 5536-5541.
79. B.J. Gaffney and D. Marsh (1998) "High Frequency, Spin Label EPR of Non-Axial Ordering and Motion in Cholesterol-containing Membranes" *Proc. Natl. Acad. Sci. U.S.* **95**: 12940-12943.
80. B.J. Gaffney, B.C. Maguire, R.T. Weber and G.G. Maresch (1999) "Disorder at Metal Sites in Proteins: a High Frequency EMR Study" *Appl. Magn. Res.*, **16**: 207-222.
81. B.J. Gaffney "Electron Magnetic Resonance" (1999) *Encyclopedia of Molecular Biology*, T.E. Creighton ed., John Wiley, New York, 792-795
82. B.J. Gaffney "Spin Labeling" (1999) *Encyclopedia of Molecular Biology*, T.E. Creighton ed., John Wiley, New York, 2408-9.
83. D. Marsh, V. A. Livshits, T. Páli and B. J. Gaffney (1999) "Recent developments in biological spin-label spectroscopy" *Spectroscopy of Biological Molecules: New Directions* J. Greve, G.P. Puppels and C. Otto eds., Kluwer, Dordrecht, pp. 647-650.
84. C.R. Bowers, V. Storhaug, Charles Edwin Webster, J. Bharatam, A. Cottone, III, R. Gianna, K. Betsey and B.J. Gaffney (1999) "Exploring Protein Surfaces and Cavities in Lipoygenase and other Proteins by Hyperpolarized Xenon-129 NMR" *J. Am. Chem. Soc.*, **121**: 9370-9377.
85. C.V. Grant, W. Cope, J.A. Ball, K. Campbell, G.G. Maresch, B.J. Gaffney, W. Fink and R.D. Britt (1999) "Electronic Structure of the Aqueous Vanadyl Ion Probed by 9 and 94 GHz EPR and Pulsed ENDOR Spectroscopies and Density Functional Theory Calculations" *J. Phys. Chem. B.* **103**: 10627-10631.
86. B.J. Gaffney and H.J. Silverstone (1999) "anisoironhs.f and cubspgiron.f: FORTRAN programs for S=5/2 EMR Spectra with Distributions in Zero field Splittings" in Cammack, R. and Fann, Y. eds. (1995-1999) EPR Software database: a compendium of programs from and for EPR spectroscopists; listed by the Intl. EPR Society. (<http://epr.niehs.nih.gov/>).

87. B. Abraham, M. Sono, O. Boutaud, A. Shriner, J. H. Dawson, A. R. Brash and B. J. Gaffney (2001) "Characterization of the Coral Allene Oxide Synthase Active Site with Magnetic Circular Dichroism and Electron Paramagnetic Resonance Spectroscopy: Evidence for Tyrosinate-Ligation to the Ferric Enzyme Heme Iron" *Biochemistry*, **40**: 2251-2259.
88. B.J. Gaffney, C. Su and E.H. Oliw (2001) "Assignment of EPR Transitions in a Manganese-Containing Lipoxygenase and Prediction of Local Structure" *Appl. Magn. Res.*, **21**: 411-422; minor correction (2004) **26**: 457.
89. B.J. Gaffney (2002) "Electron Paramagnetic Resonance" *Encyclopedia of Molecular Biology*, T.E. Creighton ed., Wiley Online Library, New York, (online update of pub. # 81). doi: 10.1002/047120918X.emb0460
90. B.J. Gaffney (2002) "Spin Labeling" *Encyclopedia of Molecular Biology*, T.E. Creighton ed., Wiley Online Library, New York, (online update of # 82). doi:10.1002/047120918X.emb1456.
91. F. Wu, L.J. Katsir, M. Seavy and B.J. Gaffney (2003) "Role of Radical Formation at Y193 in the Allene Oxide Synthase Domain of a Lipoxygenase-AOS Fusion Protein from Coral" *Biochemistry*, **42**: 6871-6880.
92. B.J. Gaffney (2004) "Electron Spin Resonance of Biomolecules" *Encyclopedia of Molecular Cell Biology and Molecular Medicine*, Vol. 4, R.A. Meyers ed. Wiley-VCH, Weinheim, Germany, 115-133.
93. S. Agarwalla, R.M. Stroud, B.J. Gaffney (2004) "Redox Reactions of the Iron-Sulfur Cluster in a Ribosomal RNA Methyltransferase, RumA: Optical and EPR Studies" *J. Biol. Chem.*, **279**: 34123-34129.
94. G. Coffa, A.N. Imber, B.C. Maguire, G. Laxmikanthan, C. Schneider, B.J. Gaffney, and A.R. Brash (2005) "On the Relationships of Substrate Orientation, Hydrogen Abstraction and Product Stereochemistry in Single and Double Dioxygenations by Soybean Lipoxygenase-1 and Its Ala542Gly Mutant" *J. Biol. Chem.* **280**: 38756-38766.
95. B. Youn, G.E. Sellhorn, R.J. Mirchel, B.J. Gaffney, H.D. Grimes, C.H. Kang (2006) "Crystal Structures of Vegetative Soybean Lipoxygenase VLX-B and VLX-D, and comparisons with seed isoforms, LOX-1 and LOX-3" *PROTEINS: Structure, Function, and Bioinformatics* **65**: 1008-1020.
96. F. Wu and B.J. Gaffney (2006) "Dynamic Behavior of Fatty Acid Spin Labels within a Binding Site of Soybean Lipoxygenase-1" *Biochemistry* **45**: 12510-12518.
97. B.J. Gaffney (2006) "Notes on postdocing with Harden McConnell" EPR newsletter, available online at http://hardenmcconnell.org/addendum_II_Gordon_Conference.html, vol.15 no.4, pp. 10-12.

98. B.J. Gaffney (2007) "Anesthesia, Analgesia and Euphoria", *Biophys. J.* 92: 1-2.
99. B.J. Gaffney (2009) "High Resolution EPR of Mononuclear Iron Proteins", Chapter 6 in *Biological Magnetic Resonance*, Vol 28. High Resolution EPR: Applications to Metalloenzymes and Metals in Medicine, G. Hanson and L.J. Berliner eds., Springer Pub., pp. 233-268. DOI: 10.1007/978-0-387-84856-3_6. PMC2860145.
100. B.J. Gaffney, M.D. Bradshaw, S. Frausto, F. Wu, J.H. Freed and P. Borbat. (2012) "Locating a lipid at the portal to the lipoxygenase active site" *Biophys. J.*, 103: 2134-2144. PMC3512035. With long supplement: [http://www.biophysj.org/biophysj/supplemental/S0006-3495\(12\)01105-8](http://www.biophysj.org/biophysj/supplemental/S0006-3495(12)01105-8).
101. A. Garreta, S. Val-Moraes, Q. García-Fernández, M. Busquets, C. Juan, A. Oliver, A. Ortiz, B.J. Gaffney, I. Fita, À. Manresa and X. Carpena (2013) "Structure and Interaction with Phospholipids of a Prokaryotic Lipoxygenase from *Pseudomonas aeruginosa*", *FASEB J*, 27: 4811–4821, doi: 10.1096/fj.13-235952; PMID: 23985801.
102. M.D. Bradshaw and B.J. Gaffney (2014) "Fluctuations of an exposed pi-helix involved in lipoxygenase substrate recognition" *Biochemistry*, 53: 5102-5110. doi: 10.1021/bi500768c; PMC4131896.
103. B.J. Gaffney (2014) "Connecting Lipoxygenase Function to Structure by EPR" *Accounts of Chemical Research*, 47: 3588-3595. <http://dx.doi.org/10.1021/ar500290r>.