

1. Cohen, S.G.; Elkind, J.L.; Chishti, S.B.; Giner, J.-L.P.; Reese, H.; Cohen, J.B., "Effects of Volume and Surface Property in Hydrolysis by Acetylcholinesterase. The Trimethyl Site", *J. Med. Chem.* **1984**, *27*, 1643-1647.
2. Giner, J.-L.; Zimmerman, M.P.; Djerassi, C., "Synthesis of (24R,28R)- and (24S,28S)-24,28-Methylene-5-stigmasten-3 β -ol and Biosynthetic Implications of Cyclopropyl Cleavage to 24-Substituted Cholesterols", *J. Org. Chem.* **1988**, *53*, 5895-5902.
3. Hensens, O.D.; Giner, J.-L.; Goldberg, I.H., "Biosynthesis of NCS Chrom A, the Chromophore of the Antitumor Antibiotic Neocarzinostatin", *J. Am. Chem. Soc.* **1989**, *111*, 3295-3299.
4. Giner, J.-L.; Margot, C.; Djerassi, C., "Scope and Regiochemical Control of the Allylpotassium Reaction in the Synthesis of Sterols with Unsaturated Side Chains", *J. Org. Chem.* **1989**, *54*, 2117-2125.
5. Giner, J.-L.; Margot, C.; Djerassi, C., "Stereospecificity and Regiospecificity of the Phosphorus Oxychloride Dehydration of Sterol Side Chain Alcohols", *J. Org. Chem.* **1989**, *54*, 369-373.
6. Giner, J.-L.; Djerassi, C., "Use of Sponge Cell-Free Extracts in the Study of Marine Sterol Biosynthesis", *Tetrahedron Lett.* **1990**, *31*, 5421-5424.
7. Giner, J.-L.; Djerassi, C., "Inhibition and Substrate Specificity of Yeast Δ^{22} -Desaturase", *Biochem. Biophys. Res. Commun.* **1990**, *173*, 60-66.
8. Giner, J.-L.; Silva, C.J.; Djerassi, C., "The Missing Step in Sterol Cyclopropyl Biosynthesis: Enzymatic Desaturation of 24(S)-Ethylcholesterol", *J. Am. Chem. Soc.* **1990**, *112*, 9626-9627.
9. Giner, J.-L.; Djerassi, C., "Biosynthesis of 24-Methylene-25-methylcholesterol in *Phaseolus Vulgaris*", *Phytochemistry* **1991**, *30*, 811-814.
10. Giner, J.-L.; Djerassi, C., "Evidence for a Protonated Cyclopropyl Intermediate in the Biosynthesis of 24-Propylidenecholesterol", *J. Am. Chem. Soc.* **1991**, *113*, 1386-1393.
11. Giner, J.-L.; Djerassi, C., "Biosynthesis of Dinosterol, Peridinosterol, and Gorgosterol: Unusual Patterns of Bioalkylation in Dinoflagellate Sterols", *J. Org. Chem.* **1991**, *56*, 2357-2363.
12. Giner, J.-L.; Wünsche, L.; Andersen, R.A.; Djerassi, C., "Dinoflagellates Cyclize Squalene Oxide to Lanosterol", *Biochem. Syst. Ecol.* **1991**, *19*, 142-145.
13. Giner, J.-L.; Djerassi, C., "Generation of the Cyclopropane Ring of Sormosterol", *Acta Chem. Scand.* **1992**, *46*, 678-679.

14. Silva, C.J.; Giner, J.-L.; Djerassi, C., "Enzymatic Desaturation of 24(S)-Methylcholesterol to 23,24-Methylencholesterol, Norflicosterol, and Norhebestanol. Further Evidence for a Unified Biosynthesis of Marine Sterols with Unique Side Chains", *J. Am. Chem. Soc.* **1992**, *114*, 295-299.
15. Giner, J.-L.; Djerassi, C., "23-Epidihydrocalysterol: A New Cyclopropane-Containing Sponge Sterol", *Steroids*, **1992**, *57*, 258-261.
16. Giner, J.-L.; Djerassi, C., "Evidence for Sterol Side Chain Dealkylation in an Alga", *Phytochemistry* **1992**, *31*, 3865-3867.
17. Giner, J.-L., "Biosynthesis of Marine Sterol Side Chains", *Chem. Rev.* **1993**, *93*, 1735-1752.
18. Giner, J.-L.; Rando, R.R., "A Novel Methyltransferase Activity Modifying the Carboxy Terminal bis(Geranylgeranyl)-Cys-Ala-Cys Structure of Small GTP-Binding Proteins", *Biochemistry* **1994**, *33*, 15116-15123.
19. Giner, J.-L.; Hormann, R.; Arigoni, D. "Multiply Labelled Substrates as Tools for the Study of an Unusual Biomethylation Reaction", In "Proceedings of the 5th International Symposium on the Synthesis and Applications of Isotopes and Isotopically Labelled Compounds 1994, Strasbourg, France", Allen, J. and Voges, R., Eds., John Wiley & Sons, London, 1995, pp. 723-726.
20. Giner, J.-L.; Djerassi, C., "A Reinvestigation of the Biosynthesis of Lanosterol in *Euphorbia lathyris*", *Phytochemistry* **1995**, *39*, 333-335.
21. Giner, J.-L.; Buzek, P.; Schleyer, P. v. R., "The Mechanism of Cyclopropane-Cyclopropane Rearrangements in Marine Sterol Biosynthesis: Ab Initio Calculations on Protonated Ethylcyclopropane", *J. Am. Chem. Soc.* **1995**, *117*, 12871-12872.
22. Marom, M.; Parish, C. A.; Giner, J.-L.; Rando, R.R., "Minimal Structural Requirements for Diglyceride-Site Directed Activators of Protein Kinase C", *Tetrahedron* **1997**, *29*, 10041-10050.
23. Giner, J.-L.; Boyer, G.L., "Sterols of the Brown Tide Alga *Aureococcus anophagefferens*", *Phytochemistry* **1998**, *48*, 475-477.
24. Giner, J.L., "New and Efficient Synthetic Routes to 1-Deoxy-D-xylulose", *Tetrahedron Lett.* **1998**, *39*, 2479-2482.
25. Giner, J.-L.; Jaun, B.; Arigoni, D., "Biosynthesis of Isoprenoids in *Escherichia coli*: The Fate of the 3-H and 4-H Atoms of 1-Deoxy-D-xylulose", *J. Chem. Soc., Chem. Commun.* **1998**, 1857-1858.
26. Giner, J.-L.; Jaun, B., "Biosynthesis of Isoprenoids in *Escherichia coli*: Retention of the Methyl H-Atoms of 1-Deoxy-D-Xylulose", *Tetrahedron Lett.* **1998**, *39*, 8021-8022.

27. Arigoni, D.; Giner, J.-L.; Sagner, S.; Wungsintaweeikul, J.; Zenk, M.H.; Kis, K.; Bacher, A.; Eisenreich, W., "Stereochemical Course of the Reduction Step in the Formation of 2-C-Methyl-Erythritol From the Terpene Precursor 1-Deoxyxylulose in Higher Plants", *J. Chem. Soc., Chem. Commun.* **1999**, 1127-1128.
28. Giner, J.-L.; Gunasekera, S.P.; Pomponi, S.A., "Sterols from the Marine Sponge *Petrosia Weinbergii*: Implications for the Absolute Configuration of the Antiviral Weinbersterols and Orthoesterols", *Steroids* **1999**, 64, 820-824..
29. Giner, J.-L.; Berkowitz, J.D.; Andersson, T., "Nonpolar Components of the Latex of *Euphorbia peplus*", *J. Nat. Prod.* **2000**, 63, 267-269.
30. Lovato, M.A.; Hart, E.A.; Segura, M.J.R.; Giner, J.-L.; Matsuda, S.P.T., "Functional Cloning of an *Arabidopsis thaliana* cDNA Encoding Cyclopropyl Isomerase", *J. Biol. Chem.* **2000**, 275, 13394-13397.
31. Giner, J.-L.; Li, X., "Stereospecific Synthesis of 24-Propylcholesterol Isolated from the Texas Brown Tide", *Tetrahedron* **2000**, 56, 9575-9580.
32. Giner, J.-L.; Li, X.; Boyer, G.L., "Sterol Composition of *Aureoumbra lagunensis*, the Texas Brown Tide Alga", *Phytochemistry* **2001**, 57, 787-789.
33. Giner, J.-L.; Beach, D.H.; Parish, E.J.; Jayasimhulu, K.; Kaneshiro, E.S., "Definitive structural identities of 42 sterol components in *Pneumocystis carinii*", *J. Eukaryot. Microbiol.* **2001**, 48, 142S-143S.
34. Kaneshiro, E.S.; Rosenfeld, J.A.; Basselin, M.; Bradshaw, S.; Stringer, J.R.; Smulian, A.G.; Giner, J.-L., "Pneumocystis carinii erg6 gene: sequencing and expression of recombinant SAM:sterol methyltransferase in heterologous systems", *J. Eukaryot. Microbiol.* **2001**, 48, 144S-146S.
35. Giner, J.-L.; Zhao, H.; Beach, D.H.; Parish, E.J.; Jayasimhulu, K.; Kaneshiro, E.S., "Comprehensive and definitive structural identities of *Pneumocystis carinii* sterols", *J. Lipid Res.* **2002**, 43, 1114-1124.
36. Kaneshiro, E.S.; Rosenfeld, J.A.; Basselin-Eiweida, M.; Bradshaw, S.; Stringer, J.R.; Smulian, A.G.; Giner, J.-L., "The *Pneumocystis carinii* drug target S-adenosyl-L-methionine:sterol C-24 methyl transferase has a unique substrate preference", *Mol. Microbiol.* **2002**, 44, 989-999.
37. Giner, J.-L.; Kiemle, D.; Zuniga, D.J., "Analysis of 2-Deuterated Isopentenyl Alcohols by ¹H-NMR of Chiral Esters", *Tetrahedron Lett.* **2002**, 43, 1175-1177.
38. Giner, J.-L.; Faraldos, J.A., "A Biomimetic Approach to the Synthesis of an Antiviral Marine Steroidal Orthoester", *J. Org. Chem.* **2002**, 67, 2717-2720.
39. Giner, J.-L.; Faraldos, J.A., "A Biomimetic Synthesis of Petuniasterone D via the Epoxy Ester - Orthoester Rearrangement", *J. Org. Chem.* **2002**, 67, 4659-4666.

40. Giner, J.-L.; William V. Ferris, J., "Synthesis of 2-C-methyl-D-erythritol 2,4-cyclopyrophosphate", *Org. Lett.* **2002**, 4, 1225-1226.
41. Giner, J.-L.; William V. Ferris, J.; Mullins, J.J., "Synthesis of 2-Methyl-D-erythritol via Epoxy Ester-Orthoester Rearrangement", *J. Org. Chem.* **2002**, 67, 4856-4859.
42. Giner, J.-L.; Arigoni, D., "Enantiomerically Enriched [2-²H]-Isopentenyl Alcohol from (*E*)-2-Methyl-2-butene-1,4-diol by an Asymmetric Retro-Ene Reaction", *Chem. Commun.* **2002**, 1388-1389.
43. Giner, J.-L., "A Convenient Synthesis of (*E*)-4-Hydroxy-3-methyl-2-butenyl Pyrophosphate and its [4-¹³C]-Labeled Form", *Tetrahedron Lett.* **2002**, 43, 5457-5459.
44. Giner, J.-L.; Faraldo, J.A.; Boyer, G.L., "Unique Sterols of the Toxic Dinoflagellate *Gymnodinium breve* (Dinophyceae): A Defensive Function for Unusual Marine Sterols?", *J. Phycol.* **2003**, 39, 315-319.
45. Crowell, D.N.; Packard, C.E.; Pierson, C.A.; Jose-Luis, G.; Downes, B.P.; Chary, S.N., "Identification of an Allele of *CLA1* Associated with Variegation in *Arabidopsis thaliana*", *Physiol. Plant.* **2003**, 118, 29-37.
46. Giner, J.-L.; Faraldos, J.A., "Facile Orthoester Formation in a Model Compound of the Taxol Oxetane: Are Biologically Active Epoxy Esters, Orthoesters and Oxetanyl Esters Latent Electrophiles?", *Helv. Chim. Acta* **2003**, 86, 3613-3622.
47. Giner, J.-L.; Li, X.; Mullins, J.J., "Mechanistic Studies of the Biomimetic Epoxy Ester - Orthoester and Orthoester - Cyclic Ether Rearrangements", *J. Org. Chem.* **2003**, 68, 10079-10086.
48. Zhao, H.; Giner, J.-L.; Kaneshiro, E.S., "Definitive structural identities of *Pneumocystis jirovecii* sterols", *J. Eukaryot. Microbiol.* **2003**, 50, 680.
49. Giner, J.-L.; Zhao, H.; Amit, Z.; Kaneshiro, E. S., "Sterol composition of *Pneumocystis jirovecii* with blocked 14 α -demethylase activity", *J. Eukaryot. Microbiol.* **2004**, 51, 634-643.
50. Giner, J.-L.; Zhao, H., "Detailed Sterol Compositions of Two Pathogenic Rust Fungi", *Lipids* **2004**, 39, 763-767.
51. Giner, J.-L., "DMOBO: An Improvement on the OBO Orthoester Protecting Group", *Org. Lett.* **2005**, 7, 499-501.
52. Giner, J.-L., "Tetrahydropyran Formation by Rearrangement of an Epoxy Ester: A Model for the Biosynthesis of Marine Polyether Toxins", *J. Org. Chem.* **2005**, 70, 721-724.

53. Giner, J.-L.; Rocchetti, S.; Neunlist, S.; Rohmer, M.; Arigoni, D., Detection of 1,2-hydride shifts in the formation of euph-7-ene by the squalene-tetrahymanol cyclase of *Tetrahymena pyriformis*, *Chem. Commun.* **2005** in press