

References:

- Armstrong, R.A. (1999). *J. Plankton Res.* **21**:445-464.
- Ascioti, F. A., Beltrami, E., Carrol, T. O., and Wirick, C. (1993). *J. Plankton Res.* **15**: 603-617.
- Barber, J. (1992). "The Photosystems: Structure, Function and Molecular Biology.", Elsevier, Amsterdam, 557.
- Berggren, W., and van Couvering, J. (1984). "Catastrophes and Earth History.", Princeton University Press, Princeton, 464.
- Bienfang, P. K. (1992). In "Primary Productivity and Biogeochemical cycles in the Sea", P. G. Falkowski and A. Woodhead, eds., Plenum Press, New York, 285-297.
- Bissett, W. P. and others. (1999) *Deep-Sea Research I* **46**: 271-317.
- Bralower, T. J. et al. (1994). *Palaios* **9**: 335-369.
- Brocks, J.J., G.A. Logan, R. Buick, and R.E. Summons (1999). *Science* **285**: 1033-1036.
- Cavalier-Smith, T. (1982). *Biol. J. Linn. Soc.* **17**: 289-306.
- Cavalier-Smith, T. (1993). *Microbiol. Rev.* **57**: 953-996.
- Connell, J.H. (1978). *Science* **199**: 1302-1310.
- Coccioni, R., Erba, E., and Premoli Silva, I. (1992). *Cret. Res.* **13**: 517-537.
- Delwiche, C.E. (1999). *The American Naturalist*, **154**, pp. S164-S177.
- Desplanque, B. et al. (1999). *Theoretical and Applied Genetics* **98**: 1194-1201.
- Droop, M.R. (1968). *J. Mar. Biol. Assoc. UK* **48**: 689-733.
- Durnford, D.G. et al. (1999). *J. Mol. Evol.* **48**: 59.
- Erba, E. (1994). *Paleoceanography* **9**: 483-501.
- Erwin, D. H. (1993). The great Paleozoic crisis. New York, Columbia University Press.
- Falkowski, P. G., Hopkins, T. S., and Walsh, J. J. (1980) *J. Mar. Res.* **38**: 479-506.
- Falkowski, P. G., Dubinsky, Z., and Wyman, K. (1985). *Limnol. Oceanogr.* **30**: 311-321.
- Falkowski, P. G., Greene, R., and Geider, R. (1992). *Oceanography* **5**: 84-91.
- Falkowski, P. G., and Raven, J. A. (1997). *Aquatic Photosynthesis*, Blackwell Scientific Publishers, Oxford.
- Fensome, R., et al. (1996). *Paleobiol.* **22**: 329-338.
- Feng D.-F. and Doolittle R.F. J. (1997). *Mol. Evol.* **44**: 361.
- Fitch and Ayala (1994). *PNAS* **91**: 6802-6807.
- German, T. N. (1990). Organic World One Billion Year Ago. Nauka, Leningrad.
- Goldman, J. C. (1988). Toward a theory on biological-physical interactions in the world ocean, B. Rothchild, ed., Kluwer, Dordrecht, 273-296.
- Gorbunov, M., Z.S. Kolber, and P.G. Falkowski (2000) *Photosyn Res*, in press.
- Green, B. R., and Durnford, D. G. (1996). *Ann Rev Plant Physiol Plant Mol Biol.* **47**: 685-714.
- Hallam, A. and P.B. Wignall. (1997). *Mass Extinctions and their Aftermath*. Oxford Univ. Press, pp. 320.
- Haq, B.U. J. Hardenbol, and P.R. Vail (1987). *Science* **235**: 1156-1167.
- Head, M. (1996). In J. Jansonius and D.C. McGregor (ed.) *Palynology: principles and applications*. American Association of Stratigraphic Palynologists, Dallas, U.S.A.
- Holser W. T. and M. Magaritz (1987). *Mod. Geol.* **11**: 155.
- Holt, R.D., J.P. Grover, and D. Tilman (1994). *Amer. Nat.* **144**:741-771.
- Huisman, J. and F.J. Weissing (1999). *Nature* **402**: 407-410.
- Hutchinson, G.E. (1961). The paradox of the plankton. *Am Nat* **95**: 137-147.
- Isozaki Y. (1997) *Science* **276**: 235-238.
- Jarne, P. and P.J.L Lagoda (1996) *Trends in Ecology & Evolution* **11**: 424-429.
- Jeffrey, S. W. (1980). "Algal pigment systems." *Primary Productivity in the Sea*, P. G. Falkowski, ed., Plenum Press, New York, 33-58.
- Kent, D. V and P. E. Olsen. (1999) *J. Geophys. Res.* **104**: 12831-12841.

- Kiorboe, T., F. Mohlenberg, and K. Hamburger (1985). *Mar. Ecol. Prog. Ser.* **26**: 85-97.
- Kirschvink, J.L., and others (2000). *Proc. Nat. Acad. of Sci. USA* **97**:1400-1405.
- Knoll, A. H. (1989). *Phil. Trans. R. Soc. Lond.* **325**: 279-290.
- Knoll, A. H. (1992). *Science*, 256, 622-627.
- Knoll, A., and others (1996). *Science* **273**: 452-457.
- Knox, F., and M.B. McElroy (1984). *J. Geophys. Res.* **89**: 4629-4637.
- Kooistra, W.H.C.F. and L.K. Medlin (1998). *Mol. Phylogen. and Evol.* **6**: 391-407.
- La Roche, J., *et al.* (1997). *Proc. Nat Acad Sci USA*, 1-16.
- Larson, R. L. (1991). *Geology* **19**: 547-550.
- Lipps, J. H. (1993). "Fossil Prokaryotes and Protists."
Blackwell, Oxford, pp. 342.
- Maliva, R., A.H. Knoll, and R. Siever (1990) *Palaios* **4**: 519-532.
- Margulis, L. (1974). *Taxon* **23**: 225-226.
- Medlin, L. K., *et al.* (1997). In: D. Bhattacharya (ed.) Origins of the algae and their
plastids. *Pl. Sys. Evol. (Suppl.)* 11: 187-219.
- Michel, H., and Deisenhofer, J. (1988). *Biochem.* **27**: 1-7.
- Millero, F.J., S. Sotolongo, and M. Izaguirre (1987) *Geochim. Cosmochim. Acta* **51**: 793-801.
- Moldowan, J. M. *et al.* (1996). *Geology* **24**: 159-162.
- Moldowan, J.M. and N.M. Talyzinn (1998). *Science* **281**: 1168-1170.
- Morel, F.M.M. 1987. *J. Phycol.* **232**: 137-150.
- Morse, D., Salois, P., Markovic, P., and Hastings, J. W. (1995). *Science* **268**: 1622-1626.
- Morse, D., Salois, P., Markovic, P., and Hastings (1998) *Science* **268**: 1622-1624.
- Mutterlose, J., (1992) *Cret. Res.* **13**:167-189.
- Paine, R.T. and R.L. Vadas, (1969). *Limnol. Oceanogr* **14**: 710-719.
- Raven, J., Evands, M., and Korb, R. (1999). *Photosyn Res* **60**:111-149.
- Raven, J. A. (1997). *Adv. Bot. Res.* **25**: 59-86.
- Reinfelder, J.R. and Fisher, N.S. (1994). *Limnol. Oceanogr.* **39**:12-20.
- Reynolds, C.S. (1997) *Vegetation Processes in the Pelagic: A Model for Ecosystem Theory.*
O.Kinne, (ed.) pp. 371.
- Rivkin, R., *et al.* (1997). *Science* **275**: 554-555.
- Rosenthal Y., Boyle E. A., L. L., and Oppo D. (1995). *Paleoceanography* **10**: 395-413.
- Rosenthal Y., Field F., and Sherrell R. M. (1999). *Anal. Chem.* **71**: 3248-3253.
- Roth, P.H. (1987). *Paleoceanography* **2**: 601-612.
- Roth, P.H. (1989) *Paleogeog. Paleoclimatol., Paleoecol.* **74**: 111-126.
- Rothpletz, A. (1896). *Deutsch. geol. Ges.* **48**: 858-914.
- Rothpletz, A., (1900). *Deutsch. geol. Ges.* **52**: 154-160.
- Rowan R, Whitney SM, Fowler A, Yellowlees D (1996) *Plant Cell* **8**: 539-553.
- Rye, R., and HD, H. (1998). *Precambrian Res.*, (in press).
- Sandmann, G., Reck, M., Kessler, E., and Boger, P. (1983). *Arch. Microbiol* **134**: 23-27.
- Sarmiento, J.L., T.D. Herbert, and J.R. Toggweiler (1988) *Global Biogeochem. Cycles* **2**: 115-128.
- Schopf, J. (1993). *Science* **260**:640-646.

- Schriver, M.D., *et al.* (1995). *Mol. Biol. Evol.* **12**: 914-920.
- Siegenthaler, U., and T. Wenk (1984) *Nature* **308**: 624-625.
- Siever, R., (1991). In: *Scientists on Gaia*. pp. 287- 295, Cambridge Ma. MIT Press.
- Smetacek, V. (2000). *Global Change Biol.* (in press).
- Stover, *et al.* (1996). Mesozoic-Tertiary dinoflagellates, acritarchs and prasinophytes. In J. Jasonius and D.C. McGregor (ed.) *Palynology: principles and applications*. American Association of Stratigraphic Palynologists, Dallas, U.S.A.
- Summons, R. E. and M. R. Walter (1990). *American Journal of Science* **290-A**: 212-244.
- Summons, R. E., J. Thomas, J. R. Maxwell, and C. J. Boreham (1992). *Geochimica et Cosmochimica Acta* **56**: 2437-2444.
- Tabita, F.R. (1999). *Photosyn. Res.* **60**: 1-28.
- Tappan, H. (1980). *Paleobiology of Plant Protists*. W.H. Freeman, San Francisco.
- Thompson, A.M., E.G. Durbin, and A.G. Durbin (1994). *Mar Ecol. Prog. Ser.* **108**: 91-105.
- Toggweiler, J.R., and J.L. Sarmiento (1985) Glacial to interglacial changes in atmospheric carbon dioxide: The critical role of ocean surface water in high latitudes. In *The Carbon Cycle and Atmospheric CO₂: Natural variations Archean to present*, E.T. Sundquist and W.S. Broecker (eds.), 163-184, Amer. Geophys. Union, Washington, DC.
- Woods, K.N., A.H. Knoll, and T.N. German (1998). *Geological Society of America Abstracts with Programs* **30**: A-232.
- Wright, J.M. and P. Bentzen. (1993). *Genome* **36**: 271-277.
- Young, J.R. *et al.* (1999) *Journal of Structural Biology* **126**: 199-215.
- Zhou J. and A. Kleinohs (1996). *J Mol Evol* **42**: 432-442.
- Zuckerland E. and L. Pauling (1965) Evolutionary divergence and convergence in proteins. In: Bryson V., Vogel H.J. (eds), *Evolving genes and proteins*. Academic Press, New York, pp. 97-166.