

AHARON OREN - LIST OF PUBLICATIONS

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PH.D. THESIS:

Oren, A. 1978. Oxygenic and anoxygenic photosynthesis in *Oscillatoria limnetica*.
Ph.D. thesis, The Hebrew University of Jerusalem.

BOOKS

1. Oren, A. 1987. Bacteria and viruses. 139 pp. The Amos De-Shalit Science Teaching Centre in Israel.
(textbook for high school students, in Hebrew, has also been translated into Arabic).
2. Oren, A. 1987. Bacteria and other microorganisms - laboratory manual (in Hebrew - manual for high school students). 116 pp. The Amos De-Shalit Science Teaching Centre in Israel.
3. Oren, A. 1996. Metabolic diversity in the bacterial world: the biogeochemical cycles. Academon Press, Jerusalem, 97 pp. (in Hebrew)
4. Oren, A. (ed.). 1999. Microbiology and biogeochemistry of hypersaline environments. CRC Press, Boca Raton. 359 pp.
5. Oren, A. 2002. Halophilic microorganisms and their environments. Kluwer Scientific Publishers, Dordrecht. 575 + xxi pp.
6. Nevo, E., Oren, A., and Wasser, S.P. (eds.). 2003. Fungal life in the Dead Sea. A.R.G. Gantner Verlag, Ruggell, 361 pp.
7. Gunde-Cimerman, N., Oren, A., and Plemenitaš, A. (eds.). 2005. Adaptation to life at high salt concentrations in Archaea, Bacteria, and Eukarya. Springer, Dordrecht, 576 pp.
8. Gunde-Cimerman, N., Oren, A., and Plemenitaš, A. 2005. Mikrosafari – Čudoviti svet mikroorganizmov solin - The beautiful world of microorganisms in the salterns. Bilingual Slovenian/English publication. Državna Založba Slovenije, Ljubljana, 160 pp.
9. Rainey, F.A., and Oren, A. (eds.). 2006. Extremophiles - Methods in Microbiology Vol. 35. Elsevier/Academic Press, Amsterdam, 821 pp.

10. Oren, A., Naftz, D.L., Palacios, P., and Wurtsbaugh, W.A. (eds.). 2009. Saline lakes around the world: unique systems with unique values. The S.J. and Jessie E. Quinney Natural Resources Research Library, College of Natural Resources, Utah State University, 269 pp. (print version + open access at <http://www.cnr.usu.edu/quinney/htm/publications/nrei>)
11. Seckbach, J., and Oren, A. (eds.). 2010. Microbial mats. Modern and ancient microorganisms in stratified systems. Springer, Dordrecht, 606 pp.
12. Oren, A., and Papke, R.T. (eds.). 2010. Molecular phylogeny of microorganisms. Caister Academic Press, Norfolk, 220 pp.
13. Ventosa, A., Oren, A., and Ma, Y. (eds.). 2011. Halophiles and hypersaline environments: Current research and future trends. Springer, Berlin, 387 pp.
14. Rainey, F.A., and Oren, A. (eds.). 2011. Taxonomy of prokaryotes - Methods in Microbiology Vol. 38. Elsevier/Academic Press, Amsterdam, 473 pp.
15. Seckbach, J., Oren, A., and Stan-Lotter, H. (eds.). 2013. Polyextremophiles – Organisms living under multiple forms of stress. Springer, Dordrecht, 634 pp.
16. Papke, R.T., and Oren, A. (eds.). 2014. Halophiles: genetics and genomics. Caister Academic Press, Norfolk, 196 pp.
17. Papke, R.T., Oren, A., Ventosa, A. and Dillon, J.G. 2015. The proceedings from Halophiles 2013, The International Congress on Halophilic Microorganisms. Frontiers Research Topics. E-book, ISBN 97802088919-570-1.
18. Whitman, W.B., DeVos, P., Chun, J., Dedysh, S., Hedlund, B., Kämpfer, P., Rainey, F., Trujillo M., Bowman, J.P., Brown, D.R., Castenholz, R.D., Glöckner, F.O., Oren, A., Paster, B.J., Wade, W., Wilmotte, A., Ward, D., Busse, H.-J., Reysenbach, A.-L., Suzuki, K.-I. (eds.) 2015-present. Bergey's Manual of Systematics of Archaea and Bacteria. Wiley, DOI: 10.1002/9781118960608; Online ISBN: 9781118960608
19. Zheng, M, Deng, T., and Oren, A. (eds). 2018. Introduction to salt lake science. Science Press, Beijing. 210 pp. (in English), 179 pp. (in Chinese).

RESEARCH PAPERS, BOOK CHAPTERS ETC.

1. Garlick, S., Oren, A., and Padan, E. 1977. Occurrence of facultative anoxygenic photosynthesis among filamentous and unicellular cyanobacteria. *J. Bacteriol.* 129: 623-629.

2. Oren, A., Padan, E., and Avron, M. 1977. Quantum yields for oxygenic and anoxygenic photosynthesis in the cyanobacterium *Oscillatoria limnetica*. Proc. Natl. Acad. Sci. U.S.A. 74: 2152-2156.
3. Oren, A., and Padan, E. 1978. Induction of anaerobic, photoautotrophic growth in the cyanobacterium *Oscillatoria limnetica*. J. Bacteriol. 133: 558-563.
4. Oren, A., and Blackburn, T.H. 1979. Estimation of sediment denitrification rates at in situ nitrate concentrations. Appl. Environ. Microbiol. 37: 174-176.
5. Oren, A., Padan, E., and Malkin, S. 1979. Sulfide inhibition of photosystem I in cyanobacteria (blue-green algae) and tobacco chloroplasts. Biochim. Biophys. Acta 546: 270-279.
6. Oren, A., and Shilo, M. 1979. Anaerobic heterotrophic dark metabolism in the cyanobacterium *Oscillatoria limnetica*: sulfur respiration and lactate fermentation. Arch. Microbiol. 122: 77-84.
7. Friedberg, D., Fine, M., and Oren, A. 1979. Effect of oxygen on the cyanobacterium *Oscillatoria limnetica*. Arch. Microbiol. 123: 311-313.
8. Oren, A., and Shilo, M. 1981. Bacteriorhodopsin in a bloom of halobacteria in the Dead Sea. Arch. Microbiol. 130: 185-187.
9. Oren, A. 1981. Approaches to the microbial ecology of the Dead Sea. Kieler Meeresforsch., Sonderh. 5: 416-424.
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11. Oren, A., and Shilo, M. 1982. Population dynamics of *Dunaliella parva* in the Dead Sea. Limnol. Oceanogr. 27: 201-211.
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13. Oren, A. 1983. *Halobacterium sodomense* sp. nov., a Dead Sea halobacterium with extremely high magnesium requirement and tolerance. Int. J. Syst. Bacteriol. 33: 381-386.
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15. Oren, A. 1983. Population dynamics of halobacteria in the Dead Sea water column. Limnol. Oceanogr. 28: 1094-1103.
16. Cohen, S., Oren, A., and Shilo, M. 1983. The divalent cation requirement of Dead Sea halobacteria. Arch. Microbiol. 136: 184-190.

17. Oren, A. 1983. *Clostridium lortetii* sp. nov., a halophilic obligately anaerobic bacterium producing endospores with attached gas vacuoles. Arch. Microbiol. 136: 42-48. (name validly published: Int. J. Syst. Bacteriol. 34: 270-271, 1984).
18. Oren, A., Weisburg, W.G., Kessel, M., and Woese, C.R. 1984. *Halobacteroides halobius* gen. nov., sp. nov., a moderately halophilic anaerobic bacterium from the bottom sediments of the Dead Sea. System. Appl. Microbiol. 5: 58-69. (name validly published: Int. J. Syst. Bacteriol. 34: 355-357, 1984).
19. Oren, A., Paster, B.J., and Woese, C.R. 1984. *Haloanaerobiaceae*: a new family of moderately halophilic, obligatory anaerobic bacteria. System. Appl. Microbiol. 5: 71-80. (name validly published: Int. J. Syst. Bacteriol. 34: 503-504, 1984).
20. Oren, A., Fattom, A., Padan, E., and Tietz, A. 1985. Unsaturated fatty acid composition and biosynthesis in *Oscillatoria limnetica* and other cyanobacteria. Arch. Microbiol. 141: 138-142.
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22. Oren, A., and Shilo, M. 1985. Factors determining the development of algal and bacterial blooms in the Dead Sea: a study of simulation experiments in outdoor ponds. FEMS Microbiol. Ecol. 31: 229-237.
23. Oren, A., and Vlodaysky, L. 1985. Survival of *Escherichia coli* and *Vibrio harveyi* in Dead Sea water. FEMS Microbiol. Ecol. 31: 365-371.
24. Oren, A. 1986. Intracellular salt concentrations of the anaerobic halophilic eubacteria *Haloanaerobium praevalens* and *Halobacteroides halobius*. Can. J. Microbiol. 32: 4-9.
25. Oren, A. 1986. The ecology and taxonomy of anaerobic halophilic eubacteria. FEMS Microbiol. Rev. 39: 23-29.
26. Oren, A. 1986. Dynamics of *Dunaliella* in the Dead Sea. pp. 351-359 In: Dubinsky, Z., Steinberger, Y. (eds.), Environmental quality and ecosystem stability, Vol. IIIA. Bar Ilan University Press, Ramat Gan.
27. Oren, A. 1986. Relationships of extremely halophilic bacteria towards divalent cations. pp. 52-58 In: Megušar, F., Gantar, M. (eds.), Perspectives in microbial ecology. Slovene Society for Microbiology, Ljubljana.
28. Hoyt, J.C., Oren, A., Escalante-Semerena, J.C., and Wolfe, R.S. 1986. Tetrahydromethanopterin-dependent serine transhydroxymethylase in *Methanobacterium thermoautotrophicum*. Arch. Microbiol. 145: 153-158.
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- and description of *Sporohalobacter marismortui* sp. nov. System. Appl. Microbiol. 9: 239-246. (name validly published: Int. J. Syst. Bacteriol. 38: 136, 1988).
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 33. Oren, A. 1988. The microbial ecology of the Dead Sea. pp. 193-229 In: Marshall, K.C. (ed.), Advances in microbial ecology, Vol. 10. Plenum Publishing Company, New York.
 34. Oren, A. 1988. Anaerobic degradation of organic compounds at high salt concentrations. Antonie van Leeuwenhoek 54: 267-277.
 35. Oren, A., Gofshtein-Gandman, L.V., and Keynan, A. 1989. Hydrolysis of N α benzoyl-D-arginine-p-nitroanilide by members of the *Haloanaerobiaceae*: additional evidence that *Haloanaerobium praevalens* is related to endospore forming bacteria. FEMS Microbiol. Lett. 58: 5-9.
 36. Oren, A., Kessel, M., and Stackebrandt, E. 1989. *Ectothiorhodospira marismortui* sp. nov., an obligately anaerobic, moderately halophilic purple sulfur bacterium from a hypersaline spring on the shore of the Dead Sea. Arch. Microbiol. 151: 524-529.
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 40. Oren, A. 1989. Halobacteria in the Dead Sea in 1988-1989: novel approaches to the estimation of biomass and activity. pp. 247-255 In: Spanier, E., Steinberger, Y., Luria, M. (eds.), Environmental quality and ecosystem stability, vol. IV. Israel Society for Ecology and Environmental Quality Sciences Publication, Jerusalem.

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42. Oren, A. 1990. Microbial formation of methane from pretreated lignite at high salt concentrations, pp. 449-463 In: Wise, D.L. (ed.), *Bioprocessing and biotreatment of coal*. Marcel Dekker, New York.
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44. Oren, A. 1990. Estimation of the contribution of halobacteria to the bacterial biomass and activity in a solar saltern by the use of bile salts. *FEMS Microbiol. Ecol.* 73: 41-48.
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46. Oren, A. 1990. Thymidine incorporation in saltern ponds of different salinities: estimation of in situ growth rates of halophilic archaeobacteria and eubacteria. *Microb. Ecol.* 19: 43-51.
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51. Oren, A. 1991. Anaerobic growth of halophilic archaeobacteria by reduction of fumarate. *J. Gen. Microbiol.* 137: 1387-1390.
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