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Cryopreservation of a Thermotolerant Lineage of the Coral Reef Dinoflagellate *Symbiodinium*

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References

1. Tsai S., Lin C. Advantages and Applications of Cryopreservation in Fisheries Science. *Braz. Arch. Biol. Technol.* 2012;55:425–434. doi: 10.1590/S1516-89132012000300014. - [DOI](#)
2. Taylor R., Fletcher R.L. Cryopreservation of eukaryotic algae—A review of methodologies. *J. Appl. Phycol.* 1998;10:481–501. doi: 10.1023/A:1008094622412. - [DOI](#)
3. Ricaurte M., Schizas N.V., Ciborowski P., Boukli N.M. Proteomic analysis of bleached and unbleached *Acropora palmata*, a threatened coral species of the Caribbean. *Mar. Pollut. Bull.* 2016;107:224–232. doi: 10.1016/j.marpolbul.2016.03.068. - [DOI](#) - [PMC](#) - [PubMed](#)
4. Baumann J.H., Davies S.W., Aichelman H.E., Castillo K.D. Coral Symbiodinium Community Composition Across the Belize Mesoamerican Barrier Reef System is Influenced by Host Species and Thermal Variability. *Microb. Ecol.* 2018;75:903–915. doi: 10.1007/s00248-017-1096-6. - [DOI](#) - [PubMed](#)
5. Gates R.D., Baghdasarian G., Muscatine L. Temperature stress causes host cell detachment in symbiotic cnidarians: Implications for coral bleaching. *Biol. Bull.* 1992;182:324–332. doi: 10.2307/1542252. - [DOI](#) - [PubMed](#)
6. Weis V.M. Cellular mechanisms of Cnidarian bleaching: Stress causes the collapse of symbiosis. *J. Exp. Biol.* 2008;211:3059–3066. doi: 10.1242/jeb.009597. - [DOI](#) - [PubMed](#)
7. Cirino L., Wen Z.-H., Hsieh K., Huang C.-L., Leong Q.L., Wang L.-H., Chen C.-S., Daly J., Tsai S., Lin C. First instance of settlement by cryopreserved coral larvae in symbiotic association with dinoflagellates. *Sci. Rep.* 2019;9:1–8. doi: 10.1038/s41598-019-55374-6. - [DOI](#) - [PMC](#) - [PubMed](#)

27. Stauber E.J., Fink A., Markert C., Kruse O., Johanningmeier U., Hippler M. Proteomics of *Chlamydomonas reinhardtii* Light-Harvesting Proteins. *Eukaryot. Cell.* 2003;2:978–994. doi: 10.1128/EC.2.5.978-994.2003. - [DOI](#) - [PMC](#) - [PubMed](#)
28. Boldt L., Yellowlees D., Leggat W. Hyperdiversity of Genes Encoding Integral Light-Harvesting Proteins in the Dinoflagellate *Symbiodinium* sp. *PLoS ONE.* 2012;7:e47456. doi: 10.1371/journal.pone.0047456. - [DOI](#) - [PMC](#) - [PubMed](#)
29. Hagedorn M., Carter V., Leong J., Kleinhans F. Physiology and cryosensitivity of coral endosymbiotic algae (*Symbiodinium*) *Cryobiology.* 2010;60:147–158. doi: 10.1016/j.cryobiol.2009.10.005. - [DOI](#) - [PubMed](#)
30. Lin C., Thongpoo P., Juri C., Wang L.-H., Meng P.-J., Kuo F.-W., Tsai S. Cryopreservation of a Thermotolerant Lineage of the Coral Reef Dinoflagellate *Symbiodinium*. *Biopreserv. Biobank.* 2019;17:520–529. doi: 10.1089/bio.2019.0019. - [DOI](#) - [PubMed](#)
31. Cañavate J.P., Lubian L.M. Tolerance of six marine microalgae to the cryoprotectants dimethyl sulfoxide and methanol. *J. Phycol.* 1994;30:559–565. doi: 10.1111/j.0022-3646.1994.00559.x. - [DOI](#)
32. Mitbavkar S., Anil A.C. Cell damage and recovery in cryopreserved microphytobenthic diatoms. *Cryobiology.* 2006;53:143–147. doi: 10.1016/j.cryobiol.2006.05.002. - [DOI](#) - [PubMed](#)
33. Tsuru S. Preservation of marine and fresh water algae by means of freezing and freeze-drying. *Cryobiology.* 1973;10:445–452. doi: 10.1016/0011-2240(73)90074-6. - [DOI](#) - [PubMed](#)
34. Lin C., Chong G., Wang L., Kuo F., Tsai S. Use of luminometry and flow cytometry for evaluating the effects of cryoprotectants in the gorgonian coral endosymbiont *Symbiodinium*. *Phycol. Res.* 2019;67:320–326. doi: 10.1111/pre.12386. - [DOI](#)