


Curriculum vitae

	Surname	Park	First name	Tae Gyu
	Present position	Research Scientist	Present work place	National Institute of Fisheries Science (NIFS)
	Present institutional address	National Institute of Fisheries Science (NIFS), Tongyeong, South Korea. E-mail : taegyupark@korea.kr Tel: 82-55-640-4752 Fax: 82-55-641-2036		
	Field of scientific interests	Taxonomy, ecology and molecular genetics of harmful phytoplankton		

1. Academic qualifications

Education	University
BSc (1994~1998)	Gunsan National University, Korea
MSc (1998~2000)	Pukyong National University, Korea
PhD (2003~2007)	University of Tasmania, Australia

2. Working experience

Period	Place	Position	Research field
2007.04.01 ~ 2009.10.11	NIFS	Research fellow	Taxonomy, ecology and molecular genetics of harmful phytoplankton
2009.10.12 ~ now	NIFS	Research Scientist	

3. Publications

International journal (SCI)

1. Shin, H.H., Li, Z., Kim, H.J., Park, B.S., Lee, J., Shin, A.Y., **Park, T.G.**, Lee, K.W. 2021. *Alexandrium catenella* (Group I) and *A. pacificum* (Group IV) cyst germination, distribution, and toxicity in Jinhae-Masan Bay, Korea. *Harmful Algae*, 110, 102122.
2. Kwon, H.K., Kim, G., Han, Lim, W.A., Park, J.W., **Park, T.G.** 2020. Conditions of nutrients and dissolved organic matter for the outbreaks of paralytic shellfish poisoning (PSP) in Jinhae Bay, Korea. *Marine Pollution Bulletin*, 158, 111381.
3. Kwon, H.K., Kim, G., Han, Y., Seo, J., Lim, W.A., Park, J.W., **Park, T.G.**, Han, I.S. 2019. Tracing the sources of nutrients fueling dinoflagellate red tides occurring along the coast of Korea using radium isotopes. *Scientific Reports*, 9, 15319.
3. Seger, A., **Park, T.G.**, Hallegraeff, G. 2017. Assessment of the efficacy of clay flocculation in Korean fish farm waters: *Cochlodinium* cell removal and mitigation of ichthyotoxicity. *Harmful Algae*, 61, 46-55.
4. Thangaraj, P., **Park, T.G.**, Ki, J.S. 2017. Molecular cloning reveals co-occurring species behind red tide blooms of the harmful dinoflagellate *Cochlodinium polykrikoides*. *Biochemical Systematics and Ecology*, 70, 29-34.
5. Kim, S.J., Jeong, H.J., Jang, S.H., Lee, S.Y., **Park, T.G.** 2017. Interactions between the voracious heterotrophic nanoflagellate *Katablepharis japonica* and common heterotrophic protists. *Algae*, 32, 1-16.
6. **Park, T.G.**, Kim, J.J., Kim, W.J., Won, K.M. 2016. Development of real-time RT-PCR for detecting viable *Cochlodinium polykrikoides* (Dinophyceae) cysts in sediment. *Harmful Algae*, 60, 36-44.
7. **Park, T.G.**, Lim, W.A., Park, Y.T., Lee, C.K., Jeong, H.J. 2013. Economic impact, management and mitigation of red tides in Korea. *Harmful Algae*, 30S, S131-S143.
8. Lee, C.K., **Park, T.G.**, Park, Y.T., Lim, W.A. 2013. Monitoring and trends in harmful algal blooms and red tides in Korean coastal waters, with emphasis on *Cochlodinium polykrikoides*. *Harmful Algae*, 30S, S3-S14.
9. Kang, N.S., Jeong, H.J., Moestrup, O., **Park, T.G.** 2011. *Gyrodiniellum shiwhaense* n. gen., n. sp., A new planktonic heterotrophic dinoflagellate from the coastal waters of western Korea: Morphology and ribosomal DNA gene sequence. *J. Eukaryot. Microbiol.* 58, 284-309.
10. **Park, T.G.**, Park, Y.T. 2010. Detection of *Cochlodinium polykrikoides* and *Gymnodinium impudicum* (Dinophyceae) in sediment samples from Korea using real-time PCR. *Harmful Algae*, 9, 59-65.
11. **Park, T.G.**, Park, G.H., Park, Y.T., Kang, Y.S., Bae, H.M., Kim, C.H., Jeong, H.J., Lee, Y., 2009. Identification of the dinoflagellate community during *Cochlodinium polykrikoides* (Dinophyceae) blooms using amplified rDNA melting curve analysis and real-time PCR probes. *Harmful Algae* 8, 430-440.
12. **Park, T.G.**, Park, Y.T., Lee, Y., 2009. Development of a SYTO9 based real-time PCR probe for detection and quantification of toxic dinoflagellate *Karlodinium veneticum* (Dinophyceae) in environmental samples. *Phycologia* 48, 32-43.
13. **Park, T.G.**, de Salas, M.F., Bolch, C.J.S., Hallegraeff, G.M., 2007. Development of a real-time PCR probe for quantification of the heterotrophic dinoflagellate *Cryptoperidiniopsis brodyi* (Dinophyceae) in environmental samples. *Appl. Environ. Microbiol.* 73, 2552-2560.
14. **Park, T.G.**, Bell, E.M., Pearce, I., Rublee, P.A., Bolch, C.J.S., Hallegraeff, G.M., 2007. Detection of a novel ecotype of *Pfiesteria piscicida* (Dinophyceae) in an Antarctic saline lake by real-time PCR. *Polar. Biol.* 30, 843-848.
15. **Park, T.G.**, Bolch, C.J.S., Hallegraeff, G.M., 2007. Larval *Crassostrea bivalve* and *Artemia* brine shrimp bioassays to assess toxicity and micropredation by the heterotrophic dinoflagellates *Cryptoperidiniopsis brodyi* and *Pfiesteria piscicida* from Australia waters. *J. Plankton Res.* 29, 791-801.
16. **Park, T.G.**, Bolch, C.J.S., Hallegraeff, G.M., 2007. Morphological and molecular genetic characterization of *Cryptoperidiniopsis brodyi* (Dinophyceae) from Australia-wide isolates. *Harmful Algae* 6, 718-733.

17. Negri, A.P., Bolch, C.J.S., Geier, S., Green, D.H., **Park, T.G.**, Blackburn, S.I., 2007. Widespread presence of hydrophobic paralytic shellfish toxins in *Gymnodinium catenatum*. *Harmful Algae* 6, 774-780.

Domestic journal (KCI)

1. **Park, T.G.**, Kim, J.J., Song, S.Y. 2019. Distributions of East Asia and Philippines ribotypes of *Cochlodinium polykrikoides* (Dinophyceae) in the South Sea Korea. *J. Korean Soc. Oceanogr.* 24, 422-428.
2. Kim, J.J., Song, S.Y., **Park, T.G.** 2018. Molecular phylogeny of *Chattonella* (Raphidophyceae) species from Deungnyang Bay, Korea using single-cell PCR. *J. Korean Soc. Marine Environment Safety.* 24, 967-972.
3. **Park, T.G.**, Won, K.M., Kim, W.J., 2016. Use of molecular detection technique for red tide warning of *Cochlodinium polykrikoides*. *The Sea* 21, 44-47.
4. Han, J.C., Jo, Q., Park, Y.C., **Park, T.G.**, Lee, D.C., Cho, K.C., 2013. A report on the mass summer mortalities of the farmed Pacific oysters, *Crassostrea gigas* and Bay scallops *Argopecten irradians* in the local waters of Goseong Bay, Korea. *Korean J. Malacol.* 29, 239-244.
5. Park, Y.T., Lee, C.K., **Park, T.G.**, Lee, Y., Bae, H.M., 2012. Effects of yellow clay on the production of volatile fatty acids during the anaerobic decomposition of the red tide dinoflagellate *Cochlodinium polykrikoides* in marine sediments. *Kor. J. Fish. Aquat. Sci.* 45, 472-479.
6. **Park, T.G.**, Ok, Y.R., Park, Y.T., Lee, C.K., 2011. Temporal changes in the abundance of the fish-killing dinoflagellate *Karlodinium veneficum* (Dinophyceae) in Tongyeong, Korea. *Algae* 26, 237-241.
7. **Park, T.G.**, Kim, S.Y., 2010. Molecular detection of harmful dinoflagellates (Dinophyceae) in ballast water. *The Sea* 15, 36-40.
8. Kim, C.H., **Park, T.G.**, Lee, C.K., 2010. Harmful dinoflagellates and mitigation strategies in Korea. *Philippine J. Science.* 139, 139-147.
9. **Park, T.G.**, Bae, H.M., Kang, Y.S., 2009. Visualization of thecal plates of lightly armored dinoflagellates *Cryptoperidiniopsis brodyi* and *Pfiesteria piscicida* (Dinophyceae). *J. Environ. Sci.* 18, 15-19.
10. **Park, T.G.**, Park, Y.T., Bae, H.M., 2009. Life cycle of heterotrophic dinoflagellate *Cryptoperidiniopsis brodyi* (Dinophyceae). *J. Environ. Sci.* 18, 9-14.
11. **Park, T.G.**, Bae, H.M., Lee, Y. 2009. Detection of fish killing dinoflagellate *Cochlodinium polykrikoides* (Dinophyceae) in the East China Sea by real-time PCR. *Algae* 24, 1-10.
12. **Park, T.G.**, Kang, Y.S. 2009. Temporal changes in abundances of the toxic dinoflagellate *Alexandrium minutum* (Dinophyceae) in Chinhae Bay, Korea. *J. Environ. Sci.*, 18, 1331-1338.
13. **Park, T.G.**, Kang, Y.S., Park, Y.T. 2009. Abundance of toxic dinoflagellate *Alexandrium catenella* in Jinhae Bay, Korea as measured by specific real-time PCR probe. *Fish Aqua. Sci.* 12, 236-244.
14. **Park, T.G.**, Kang, Y.S., Seo, M.K., Kim, C.H., Park, Y.T., 2008. Rapid detection and quantification of fish killing dinoflagellate *Cochlodinium polykrikoides* (Dinophyceae) in environmental samples using real-time PCR. *J. Fish. Sci. Technol.* 11, 205-208.
15. **Park, T.G.**, Kang, Y.S., Seo, M.K., Park, Y.T., 2008. Detection of heterotrophic dinoflagellate *Pfiesteria piscicida* (Dinophyceae) in surface water samples using real-time PCR. *J. Fish. Sci. Technol.* 11, 209-211.