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## CURRICULUM VITAE



**Jong Soo Park (Ph.D.)**

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### Education

- 2001-2007 School of Earth and Environmental Science, Seoul National University, Republic of Korea; Ph. D Thesis: ‘**The ecology of free-living heterotrophic nanoflagellates (HNF) in hypersaline environments and discovery of two new extreme halophilic HNF species**’
- 1998-2001 Department of Oceanography, Seoul National University, Republic of Korea; M.Sc. Thesis: ‘**A study on heterotrophic nanoflagellates in the surface and hypoxic layer in the eutrophic Masan Bay, Korea**’

### Publication List

21. **Jong Soo Park**, Karla Grimm, Edvard Glücksman, Alastair G.B. Simpson. Diversity and evolution of *Percolomonas cosmopolitus*, and putatively ancient morphospecies of heterotrophic nanoflagellates. In preparation.
20. Eunsoo Kim, **Jong Soo Park**, Alastair G. B. Simpson, Masakatsu Watanabe, Akio Murakami, Katrin Sommerfeld, Naoko T. Onodera, John M. Archibald. Complex

array of endobionts in *Petalomonas sphagnophila*, a euglenid protist from *Sphagnum*-dominated peatlands. In preparation.

19. **Jong Soo Park**, Alastair G.B. Simpson. Rediscovery and characterisation of *Macropharyngomonas*, a very deep-branch halophilic heterolobosean. In preparation.
18. **Jong Soo Park**, Martin Kolisko, Jeffrey D. Silberman, Alastair G.B. Simpson. Description of a new genus of classical mitochondrion-lacking *Carpediemonas*-like organism. In preparation.
17. **Jong Soo Park**, Alastair G.B. Simpson (2009) Characterisation of halotolerant Bicosoecida and Placididea (Stramenopila) that are distinct from marine forms, and the phylogenetic pattern of salinity preference in heterotrophic stramenopiles. *Environmental Microbiology*. In revision. **SCI\* (5-year impact factor = 5.217)**
16. **Jong Soo Park**, Russell H. Vreeland, Byung Cheol Cho, Tim K. Lowenstein, Michael N. Timofeeff, William D. Rosenzweig (2009) **Haloarchaeal diversity at 23, 121, and 419 MYA salts**. *Geobiology*.7: 515-523. **SCI\* (5-year impact factor = 4.298)**
15. **Jong Soo Park**, Martin Kolisko, Aaron A. Heiss, Alastair G.B. Simpson (2009) **Light microscopic observations, ultrastructure, and molecular phylogeny of *Hicanonectes teleskopos* n. gen. n. sp., a deep-branching relative of diplomonads**. *Journal of Eukaryotic Microbiology*. 56: 373-384. **SCI\* (5-year impact factor = 1.732)**
14. **Jong Soo Park**, Alastair GB Simpson, Susan Brown, Byung Cheol Cho (2009) **Ultrastructure and molecular phylogeny of two heterolobosean amoebae, *Euplaesiobystra hypersalinica* gen. et sp. nov. and *Tulamoeba peronaphora* gen. et sp. nov., isolated from an extremely hypersaline habitat**. *Protist* 160: 265-283. **SCI\* (5-year impact factor = 3.503)**
13. Myung Gil Park, **Jong Soo Park**, Miran Kim, Wonho Yih (2008) **Plastid dynamics**

- during survival of *Dinophysis caudata* without its ciliate prey. *Journal of Phycology* 44: 1154-1163. **SCI\* The Luigi Provasoli Award for best paper published in the Journal of Phycology during 2008. (5-year impact factor = 3.276)**
12. Byung Cheol Cho, **Jong Soo Park**, Kuidong Xu, Joong Ki Choi, (2008) **Morphology and molecular phylogeny of *Trimyema koreanum* n. sp., a ciliate from the hypersaline water of a solar saltern.** *Journal of Eukaryotic Microbiology* 55: 417-426. **SCI\* (5-year impact factor = 1.732)**
  11. Sunju Kim, Myung Gil Park, Keun-Yong Kim, Chang-Hoon Kim, Wonho Yih, **Jong Soo Park**, D. Wayne Coats (2008) **Genetic diversity of the parasitic dinoflagellate *Amoebophrya* spp. and their relationship to parasite biology and biogeography.** *Journal of Eukaryotic Microbiology* 55: 1-8. **SCI\* Cover Article. (5-year impact factor = 1.732)**
  10. Vreeland RH, Lowenstein T, Timofeeff M, Satterfield C, DiFerdinando J, Jones J, Monson A, Rosenzweig WD, Cho BC, **Park JS**, Wallace A, Grant WD (2007) **Isolation of live 121-112 million year old halophilic Archaea from primary salt crystals.** *Geomicrobiology Journal* 24:275-282. **SCI\* (5-year impact factor = 2.348)**
  9. **Park JS**, Myung G, Kim HS, Cho BC, Yih W (2007) **Growth responses of the marine photosynthetic ciliate *Myrionecta rubra* to different cryptomonad strains.** *Aquatic Microbial Ecology* 48:83-90. **SCI\* (5-year impact factor = 2.663)**
  8. **Park JS**, Simpson AGB, Lee WJ, Cho BC (2007) **Ultrastructure and Phylogenetic Placement within Heterolobosea of the Previously Unclassified, Extremely Halophilic Heterotrophic Flagellate *Pleurostomum flabellatum* (Ruinen 1938).** *Protist* 158(3):397-413. **SCI\* (5-year impact factor = 3.503)**
  7. Myung G, Yih W, Kim HS, **Park JS**, Cho BC (2006) **Ingestion of bacterial cells by the marine photosynthetic ciliate *Myrionecta rubra*.** *Aquatic Microbial Ecology* 44:175-180. **SCI\* (5-year impact factor = 2.663)**

6. **Park JS**, Cho BC, Simpson AGB (2006) *Halocafeteria seosinensis* gen. et sp. nov. (Bicosoecida), a halophilic bacterivorous nanoflagellate isolated from a solar saltern. *Extremophiles* 10:493-504. *SCI\** (5-year impact factor = 2.199)
5. **Park JS**, Choi DH, Hwang CY, Park GJ, Cho BC (2006) Seasonal study on ectoenzyme activities, carbohydrate concentrations, prokaryotic abundance and production in a solar saltern in Korea. *Aquatic Microbial Ecology* 43:153-163. *SCI\** (5-year impact factor = 2.663)
4. Choi DH, Yang SR, Hong GH, Chung CS, Kim SH, **Park JS**, Cho BC (2005) Different interrelationships among phytoplankton, bacterial and environmental variables in dumping and reference areas in the East Sea. *Aquatic Microbial Ecology* 41:171-180. *SCI\** (5-year impact factor = 2.663)
3. **Park JS**, Kim HJ, Choi DH, Cho BC (2003) Active flagellates grazing on prokaryotes in high salinity waters of a solar saltern. *Aquatic Microbial Ecology* 33:173-179. *SCI\** (5-year impact factor = 2.663)
2. **Park JS**, Cho BC (2002) Active heterotrophic nanoflagellates in the hypoxic water-column of the eutrophic Masan Bay, Korea. *Marine Ecology Progress Series* 230:35-45. *SCI\** (5-year impact factor = 3.151)
1. Choi DH, **Park JS**, Hwang CY, Huh H, Cho BC (2002) Effects of the effluents from a power station on bacteria and heterotrophic nanoflagellates in coastal waters. *Marine Ecology Progress Series* 229:1-10. *SCI\** (5-year impact factor = 3.151)

### Proceedings and Invited Talks

25. **Park JS** (2009) The Biology of Marine and Halophilic Protozoa. *Participated as an invited speaker held in Seoul National University.* \*Invited talks
24. **Park JS** (2009) The biogeography of halophilic protozoa: Everything is everywhere, but environment selects. *Participated as an invited speaker at a*

conference meeting held in Kunsan National University. \*Invited talks

23. **Park JS**, Cho BC, Alastair GB Simpson (2008) The isolation and identification of three extremely halophilic Heterolobosea from high salinity waters. *Presented at ISOP/ISEP annual meeting (protist 2008)*.
22. Kolisko M, **Park JS**, Silberman JD, Roger AJ, Simpson AGBS (2008) Molecular phylogeny of new *Carpedimonas*-like organisms. *Presented at ISOP/ISEP annual meeting (protist 2008)*.
21. Park MG, **Park JS**, Kim M, Yih W (2007) Plastid retention and functionality in the dinoflagellates *Dinophysis acuminata* and *Dinophysis caudata*. *Presented at PSA/ISOP annual meeting*.
20. Kim HS, Myung G, Seong, KA, **Park JS**, Jeong HJ, Cho BC, Yih W (2007) Phototrophic *Myrionecta rubra* is a remarkable “marine linking ciliate”. *Presented at PSA/ISOP annual meeting*.
19. Myung G, Kim HS, Kim S, **Park JS**, Ha N, Park MG, Jeong HJ, Yih W (2007) The character of kleptoplastidy in a ciliate isolated from Gomso Bay, Korea (In Korean). *Presented at the Autumn meeting of the Korean Society of Oceanography*.
18. MG Park, **Park JS**, Kim M, Yih W (2007) A distinctive plastid thief story in protists: the dinoflagellate “*Dinophysis caudata*” (In Korean). *Presented at the Autumn meeting of the Korean Society of Oceanography*.
17. **Park JS**, Simpson AGB, Lee WJ, Cho BC (2006) Ultrastructure and phylogenetic analysis of previously unclassified heterotrophic flagellate *Pleurostomum flabellatum* (Ruinen 1938), an extreme halophile within the Heterolobosea. *Presented at the Autumn meeting of the Korean Society of Oceanography*.
16. **Park JS**, Vreeland RH, Rosenzweig WD, Cho BC (2006) Unexpected diversity of archaea from ancient salt crystals. *Presented at the Autumn meeting of the Korean Society of Oceanography*.
15. **Park JS**, Simpson AGB, Choi DH, Cho BC (2005) *Halocafeteria seosinia* gen. nov., sp. nov., (Bicosoecida) a new moderately halophilic heterotrophic nanoflagellate from a solar saltern. *Presented at the Spring meeting of the Korean Society of Oceanography*.
14. Cho BC, **Park JS**, Choi DH, Park GJ, Hwang CY (2005) A seasonal study on prokaryotic abundance, production, ectoenzyme activities and their regulating factors in a solar saltern, Korea. *Presented at the Spring meeting of the Korean Society of*

*Oceanography.*

13. Choi DH, Hwang CY, **Park JS**, Kim YG, Kim KB, Yang KR, Yang SY, Cho BC (2005) A study on seawater analysis and microbial ecology in a dredging area in the South Sea (In Korean). *Presented at the Autumn meeting of the Korean Society of Oceanography.*
12. Choi DH, Hwang CY, **Park JS**, Cho BC (2004) Bacterial production and oxygen consumption rates in tidal flat sediments in Ganghwa Gun. *Presented at the Spring meeting of the Korean Society of Oceanography.*
11. Hwang CY, **Park JS**, Choi DH, Cho BC (2003) Significance of virus-mediated bacterial mortality in the western South Pacific Ocean. *Presented at the Spring meeting of the Korean Society of Oceanography.*
10. Choi DH, **Park JS**, Hwang CY, Cho BC (2003) Bacterial abundances and productions and enzyme activities in tidal flats of Ganghwa Gun. *Presented at the Spring meeting of the Korean Society of Oceanography.*
9. Hwang CY, **Park JS**, Choi DH, Cho BC (2003) Abundance of total and culturable bacteria and genetic diversity of isolates from intertidal sediments of Incheon North Harbor. *Presented at the Autumn meeting of the Korean Society of Oceanography.*
8. **Park JS**, Choi DH, Kim HJ, Cho BC (2001) Comparisons of methodology for active bacterial count in a fish-farm in Tongyeong coastal area. *Presented at the Autumn meeting of the Korean Society of Oceanography.*
7. Hwang CY, Choi DH, **Park JS**, Cho BC (2001) Abundance and production of bacteria and viruses, and enzyme activities in a fish-farm in Tongyeong coastal area. *Presented at the Autumn meeting of the Korean Society of Oceanography.*
6. Choi DH, **Park JS**, Park GJ, Cho BC (2001) Abundance and production of bacteria and enzyme activities along salinity gradients in a saltern. *Presented at the Autumn meeting of the Korean Society of Oceanography.*
5. Choi DH, **Park JS**, Cho BC (2001) Significance of biofilms and suspended particles for bacterial abundance, production, enzyme activities and community compositions in a fish-farm area. *Presented at the Autumn meeting of the Korean Society of Oceanography.*
4. Choi DH, **Park JS**, Hwang CY, Park GJ, Kim HJ, Cho BC (2001) Physico-chemical characteristics in a fish-farm of Tongyeong coastal area. *Presented at the Autumn meeting of the Korean Society of Oceanography.*

3. Kim HJ, **Park JS**, Choi DH, Cho BC (2001) A study on grazing rates by heterotrophic nanoflagellates on bacteria in a hypersaline environment (In Korean). *Presented at the Autumn meeting of the Korean Society of Oceanography.*
2. **Park JS**, Cho BC (2000) Active heterotrophic nanoflagellates in hypoxic water-column of the eutrophic Masan Bay, Korea. *Presented at the Autumn meeting of the Korean Society of Oceanography.*
1. **Park JS** (2005) Diversity of protozoa in extreme environments. *Participated as an invited speaker at a conference meeting held in Kunsan National University and KyungNam University. \*Invited talks*

### **Awards, Fellowships, and Academic Positions**

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| 2007 Nov - 2010 Oct | Post-doctoral fellow in Department of Biology, Dalhousie University, with Prof. Alastair GB Simpson [a CGEB (Dalhousie University) postdoctoral fellowship funded by the Tula Foundation].   |
| 2009 July           | Nominated for the <b>Luigi Provasoli Award</b> (Best paper in the <i>Journal of Phycology</i> during 2008): Myung Gil Park, <b>Jong Soo Park</b> , Miran Kim, Wonho Yih (2008) <b>Plastid dynamics during survival of <i>Dinophysis caudata</i> without its ciliate prey.</b> <i>Journal of Phycology</i> 44: 1154-1163. |
| 2007 Nov - 2008 Oct | <b>Postdoctoral Fellowship Award, Korea Research Foundation Grant funded by the Korean Government (MOEHRD, No. KRF-2007-357-C00119), with Prof. Alastair GB Simpson in Dalhousie University.</b>   |
| 2007 Mar - 2007 Oct | Post-doctoral fellow in Department of Oceanography, Chonnam National University, Gwangju, Republic of Korea.   |
| 2004 Feb            | Best poster award presented at annual meeting of Brain Korea 21, School of earth and environmental science, Seoul National   |

University: **Jong Soo Park** (2004) *Cultivations and ribosomal RNA gene sequences of novel heterotrophic nanoflagellates from high salinity waters.*

2002 Feb Best poster award presented at annual meeting of Brain Korea 21, School of earth and environmental science, Seoul National University and Korea University: **Jong Soo Park** (2002) *Comparisons of methodology for active bacterial count in a fish-farm in Tongyeong coastal area.*

### **Short-term Stipends for Cooperative Research Projects**

- 2004-2006 An analysis and assessment on changes in marine ecology by the submerged thermal discharge (Participated in as assistant researcher). *Korea hydro & nuclear power Co.*
- 2002-2006 Long-term monitoring of marine environments and ecosystems in dredging area (Participated in as assistant researcher). *Research institute of oceanography, Seoul National University, p 499*
- 2002-2004 A development of biogeochemical techniques for assessing organic matter decomposition activities in tidal flat – a case study in tidal flats of Gyeonggi Bay (Participated in as assistant researcher). *Ministry of maritime affairs and fisheries, p 174*
- 2001-2003 Atmospheric inputs of chemical elements to the East Sea and their ecological significance on marine ecosystem (Participated in as assistant researcher). *Ministry of maritime affairs and fisheries, p 124*
- 2001-2003 Technical study on application of microorganisms on the tidal flat (Participated in as assistant researcher). *Ministry science and technology, p 149*
- 2001-2002 A development of molecular biological techniques for detection of fish pathogens in marine aquaculture environments (Participated in as assistant researcher). *Ministry of maritime affairs and fisheries, p 98*
- 2000-2001 Researches on distributions of biological resources and biodiversity in hypersaline saltpans: basic researches for utilization of useful biological

- resources (Participated in as assistant researcher). *Ministry of maritime affairs and fisheries*, p 108
- 1998-1999 Effect of thermal effluents from Hadong power plant on bacteria and heterotrophic nanoflagellates (Participated in as assistant researcher). *Pukyong National University*.
- 1998 Development of monitoring technology for the wastes disposal sea areas (Participated in as assistant researcher). *Ministry of environment*, p 474

### **Research Training and Visiting Assignments**

- 2005 Sep-Oct Research on diversity of archaea, bacteria, and eukaryotes from ancient salt crystals with Prof. Russell H Vreeland in West Chester University of Pennsylvania, USA.
- 2005 Jan-Mar Research on isolation of eukaryotes and diversity of archaea from ancient salt crystals with Prof. Russell H Vreeland in West Chester University of Pennsylvania, USA.
- 2004 Aug-Oct Ultrastructural and phylogenetic work on extreme halophilic flagellates with Dr. Alastair GB Simpson in Dalhousie University, Canada.

### **Professional Affiliations**

- 2009 - present International Society of Protozoologists
- 2009 - present Korean Society of Protistology
- 2009 - present Korean Society of Oceanography

### **Teaching**

- 2006 Sep-Dec Part-time lecturer for University of Anyang in South Korea:  
 Mar-July (An introduction to marine microbiology & Cell biology)