

Curriculum Vitae

Yan Xu

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Education

Ph.D. Ecology and evolutionary biology, Princeton University, 2002-2008

MPhil, Biology, Hong Kong University of Science and Technology, Hong Kong, 1999-2001

B.Sc. Biology, Nanjing University, China, 1995-1999

Professional Positions

- Teaching assistant, EEB211: The biology of organisms, Princeton University, Fall 2005
- Teaching assistant, EEBTUT: biostatistics, Princeton University, Fall 2003
- Teaching Assistant, BIOL 202: Animal Physiology, Hong Kong University of Science and Technology, Spring 2000

Awards & Achievements

- Student travel award, ASLO annual meeting, Canada, 2006
- The outstanding student poster award, ASLO annual meeting, Denmark, 2000
- Renming scholarship, Nanjing University, 1996 - 1998
- The outstanding student scholarship, Nanjing University, 1995

Publications

1. **Xu, Y.***, L. Feng*, P. D. Jeffrey*, Y. Shi and F. M. M. Morel. Structure and metal exchange in the cadmium-carbonic anhydrase of marine diatoms. *Nature* 452: 56-61 (The asterisk indicates equal contributions.)
2. **Xu, Y.**, D.-G. Tang, Y. Shaked and F. M. M. Morel. 2007. Zinc, cadmium and cobalt inter-replacement and relative use efficiencies in the coccolithophore *Emiliana huxleyi*. *Limnology and Oceanography* 52: 2294-2305
3. **Xu, Y.**, T. M. Wahlund, L. Feng, Y. Shaked and F. M. M. Morel. 2006. A novel alkaline phosphatase in the coccolithophore *Emiliana huxleyi* (Prymnesiophyceae) and its regulation by phosphorus. *Journal of Phycology* 42: 835-844
4. Shaked, Y., **Y. Xu**, K. Leblanc, and F. M. M. Morel. 2005. Zinc availability and alkaline phosphatase activity in *Emiliana huxleyi*: Implications for Zn-P co-limitation in the ocean. *Limnology and Oceanography* 51: 299-309
5. **Xu, Y.**, and W. X. Wang. 2004. Silver uptake by a marine diatom and its transfer to coastal copepod *Acartia spinicauda*. *Environmental Toxicology and Chemistry* 23:682-690.
6. **Xu, Y.**, and W. X. Wang. 2003. Fates of diatom carbon and trace elements by the grazing of a marine copepod. *Marine Ecology Progress Series* 254:225-238.
7. **Xu, Y.** and W.-X. Wang. 2002. Exposure and potential food chain transfer factor of Cd, Se and Zn in marine fish *Lutjanus argentimaculatus*. *Marine Ecology Progress Series* 238: 173-186
8. **Xu, Y.** and W.-X. Wang. 2002. The assimilation of detritus-bound metals by marine copepod *Acartia spinicauda*. *Limnology and Oceanography* 47: 604-610
9. Wang, W.-X., Q.L. Yan, W.H. Fan, **Y. Xu**. 2002. Bioavailability of sedimentary metals from a contaminated bay. *Marine Ecology Progress Series* 240: 27-38
10. **Xu, Y.** and W.-X. Wang. 2001. Individual responses of trace-element assimilation and physiological turnover by the marine copepod *Calanus sinicus* to changes in food quantity. *Marine Ecology Progress Series* 218: 227-238

11. **Xu, Y.**, W.-X. Wang and D.P.H Hsieh. 2001. Influences of metal concentration in phytoplankton and seawater on metal assimilation and elimination in marine copepods. *Environmental Toxicology and Chemistry* 20: 1067-1077
12. Wang, W.-X., R.C.H. Dei, **Y. Xu**. 2001. Responses of Zn assimilation by coastal plankton to macronutrients. *Limnology and Oceanography* 46: 1524-1534
13. Wang, W.-X., R.C.H. Dei, **Y. Xu**. 2001. Cadmium uptake and trophic transfer in coastal plankton under contrasting nitrogen regimes. *Marine Ecology Progress Series* 211: 293-298

Presentations

1. **Xu Y.**, J. M. Boucher, F. M. M. Morel. 2008. The genetic diversity and expression of alkaline phosphatase in *Emiliana huxleyi* strains. Environmental Bioinorganic Chemistry Gordon Conference. Poster presentation.
2. **Xu, Y.**, L. Feng, P. McGinn, F. M. M. Morel. 2007. Cd-carbonic anhydrase of marine diatoms. ASLO Aquatic Sciences Meeting. Santa Fe, NM. Oral Presentation.
3. **Xu, Y.**, Y. Shaked, D.-G.Tang, F. M. M. Morel. 2006. Inter-replacement of Zn, Cd and Co in the coccolithophore *Emiliana huxleyi*. ASLO summer meeting. Victoria, Canada. Oral Presentation.
4. **Xu, Y.**, T. M. Wahlund, L. Feng, Y. Shaked and F. M. M. Morel. 2006. A novel alkaline phosphatase in the coccolithophore *Emiliana huxleyi*. Ocean Science meeting. Hawaii. Poster presentation.
5. **Xu, Y.**, Y. Shaked, D.-G.Tang, F. M. M. Morel. 2005. Physiological effects of Zn, Cd and Co in *Emiliana huxleyi*. American Chemical Society Geochemical Division. San Diego. Oral Presentation.
6. **Xu, Y.**, W.-X. Wang, D.P.H. Hsieh. 2000. Influences of metal concentration on metal assimilation and regeneration in marine copepods. ASLO Annual Meeting, Copenhagen, Denmark. Poster Presentation.
7. **Xu, Y.** and W.-X. Wang. 2000. Assimilation of metals by marine copepod *Calanus sinicus*. SETAC 21st Annual Meeting, Nashville, Tennessee. Poster Presentation.

Oceanographic Cruise

1. August-September 2007 GoA, the Gulf of Alaska, RV Thomas G. Thompson
2. June-August 2003, KM0311, the North Pacific Ocean to Bering Sea, RV Kilo Moana.