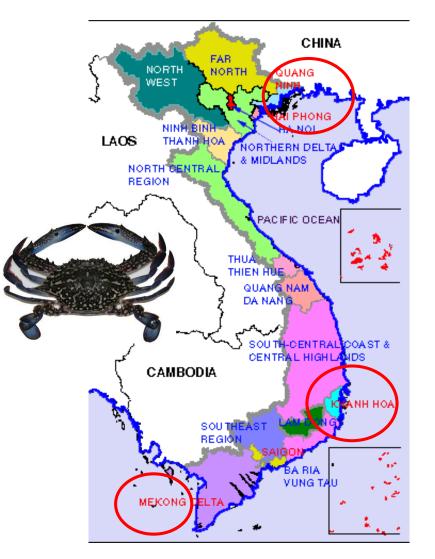
PD – BIOTECHNOLOGY COMPONENT

Project title: Effect of climate change on population dynamics of the swimming crab, Portunus pelagicus, and the epidemiology of selected disease causing organisms

- Dr. Dang Thuy Binh
- Institute for Biotechnology and Environment, Nha Trang University

Project activities



Sampling:

Conduct swimming crab (*P. pelagicus*) sampling in Quang Ninh and Hai Phong (North of Vietnam), Khanh Hoa, Phu Yen (Center), and Phu Quoc, Ranh Gia -Kien Giang (south) from (5/2016 -5/2017)



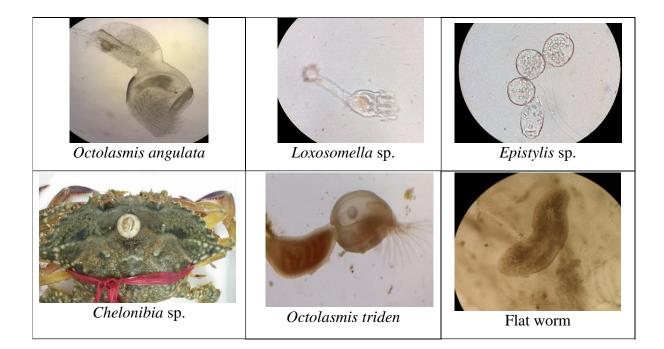


Research Result – symbiont species diversity

- Examine symbiont species composition from different swimming crab (*P. pelagicus*) populations, new record for 4 species
- Identify symbiont species based on morphologic and genetic characters.
- Up to now, we found 17 species belong to 5 different phyla. Statically analysis showed the significant different between sampling locations, and sexes (crab male, and female). No trend was observed seasonally



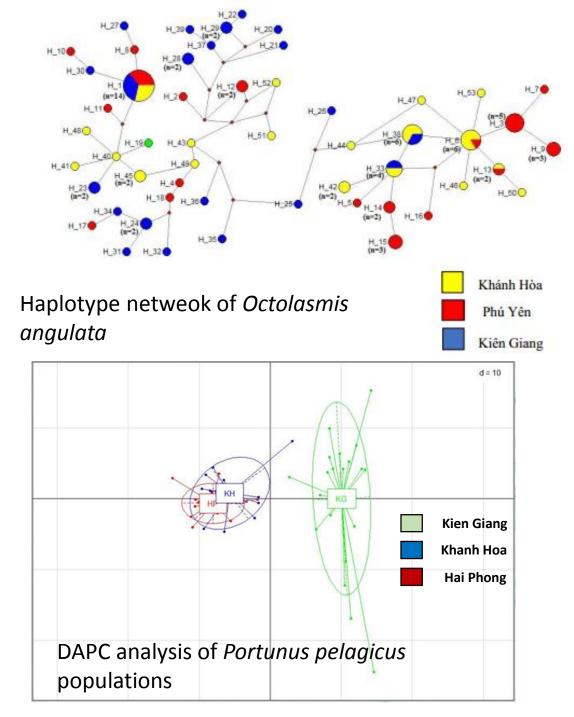
Symbiont species on Swimming crab



Symbiont species on Swimming crab



Heavy infected swimming crab



Research Result – Genetic diversity

- Examine phylogenetic relationships of symbiont infected swimming crab (*P. pelagicus*)
- Examine population structure of common infected barnacle Octolasmis angulata on P. pelagicus
- Examine population genetics of *P. pelagicua along* Vietnamese coatline

Education

- Our Msc students
- 1 Msc in Biotechnology
- 1 Msc in Ecosysterm management and Climate change





What next?

- Complete population genetics of common infected banarcle *Octolamis angulata* on *P. pelagicus*
- Compete population genetics and structure of *P. pelagicus*
- Detecting outlier loci
- Test migration models
- Writing and pulications