

Curriculum Vitae

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Department of Biology
Institute of Biotechnology and Environment
Nha Trang University
02 Nguyen Dinh Chieu St., Nha Trang City, Vietnam

EDUCATION

Years	Academic institutions	Major/ Specialty	Academic degree
1989 – 1992	Da Lat University	Biology	BSc
1999 – 2001	University of Aarhus, Denmark	Marine Science	MSc
2006 – 2010	University of Bergen, Norway	Marine Biodiversity	PhD
2015 – 2017	University of Bergen, Norway	Marine Biodiversity and climate change	PD

RESEARCH INTERESTS

- Biodiversity, climate change. and conservation
- Molecular ecology and phylogeny
- Population genetics
- Aquatic disease

RESEARCH EXPERIENCE

CARD project, Australia Center for International Agriculture Research (ACIAR) support “*Increase the capacity on nutrient analysis in Vietnam.*” Led by Faculty of Aquaculture, Nha Trang University. (2000 – 2004)

NUFU Project “*Aquaculture and coastal management in Vietnam*”. Led by Institute of Aquaculture Research Number 3 (2006- 2011)

Component 4, SRV2701 project “*Environmental impact of Aquaculture activities to the issue of food safety of green mussels and aquatic snails in integrated farming systems*” under NORAD framework, led by Nha Trang University (2004-2009)

National Gene Conservation Project “*Gene conservation of Vietnamese marine organism*” – collaborator (2004-2009) and PI (2010 – 2015)

National Project – MARD supported “*Research and scientific basis to propose sustainable solutions of Swiftlet farming in Vietnam*” 2013-2016

National Project – MOST supported “*Exploiting and conservation genetic resources of Island swiftlet (Aerodramus fuciphagus germani Oustalet, 1878) for sustainable development in Vietnam*” (2004-2018)

CT-PIRE (CORAL TRIANGLE PIRE PROJECT) led by Old Dominion University, 2010 – 2012,

EU Project “*Parasite Risk Assessment with Integrated Tools in EU fish production value chains*” 2012 – 2015.

PEER 2-7 “*Conservation Genetics for Improved Biodiversity and Resource Management in a Changing Mekong Delta*”. NFS and USAID supported (2013 -2017).

PEER 3-100 Project “*Building the Mekong river genetic biodiversity research network*”. NFS and USAID supported (2014 -2018).

PEER 6-435 Project “*Riverscape Genetics to Inform Natural History of Exploited Fishes in the Lower Mekong River Basin*”. NFS and USAID supported (2017 -2020)

Erasmus + Project “*Mobility between and Czech Republic*”, EU supported (2015-2017)

NORHED Project “*Improve training and research capacity of Nha Trang University, NORRAD Incorporating Climate Change into Ecosystem Approaches to Fisheries and Aquaculture Management in Sri Lanka and Vietnam*”, NORAD supported (2014-2020)

APN (Asia Pacific network) Project CRRP2019-05MY-Benkendorff “*Understanding the interaction of ocean acidification and marine tourism for sustainable management of coral reefs*” (2019-2021)

TEACHING RESPONSIBILITY

Undergraduate:

Biodiversity
Bioinformatics
Molecular Biology
Disease diagnostics by molecular methods

Graduate:

Marine Biodiversity (Vietnamese)
Bioinformatics (Vietnamese)
Ecology and climate change (Vietnamese)
Marine Biodiversity and Ecology (English)

PUBLICATIONS and PRESENTATIONS

Journals:

Biesack, E.E., Dang, B.T., Ackiss, A.S., Bird, C.E., Chheng, P., Phounvisouk, L., Truong, O.T. and Carpenter, K.E. (2020), Evidence for population genetic structure in two exploited Mekong River fishes across a natural riverine barrier. *J Fish Biol.* Accepted Author Manuscript. doi:10.1111/jfb.14424

Hai-Thanh T. Nguyen, Binh T. Dang, Henrik Glenner, Audrey J. Geffen (2020) Cophylogenetic analysis of the relationship between anemonefish *Amphiprion* (Perciformes: Pomacentridae) and their symbiotic host anemones (Anthozoa: Actiniaria), *Marine Biology Research*, DOI: 10.1080/17451000.2020.1711952

Dang BT, Rahman MA, Tran SQ, Glenner H (2019) Genome-wide SNP analyses reveal population structure of *Portunus pelagicus* along Vietnam coastline. *PLoS ONE* 14(11): e0224473. <https://doi.org/10.1371/journal.pone.0224473>

Nguyen H.T.T, Tran A.N.T, Ha L.T.L, Ngo DN, Dang B.T, Geffen A.J (2019) Host choice and fitness of anemonefish *Amphiprion ocellaris* (Perciformes: Pomacentridae) living with host anemones (Anthozoa: Actiniaria) in captive conditions. *Journal of Fishbiology*, 1-11.

Dang B. T., Q. H. D. Vu, E. E. Biesack, T. V. Doan, O. T. Truong, T. L. Tran, A. S. Ackiss, B. L. Stockwell, K. E. Carpenter (2019) Population genomics of the peripheral freshwater fish *Polynemus melanochir* (Perciformes, Polynemidae) in a changing Mekong Delta. *Conservation Genetics*, 1 – 12.

Amanda S. A, B.T. Dang, Christopher E. Bird, Ellen E. Biesack, Phen Chheng, Latsamy Phounvisouk, Quyen H.D. Vu, Sophorn Uy, Kent E. Carpenter (2019) Cryptic lineages and a population dammed to incipient extinction? Insights into the genetic structure of a Mekong River catfish. *Journal of Heredity*.

Vu Q.D.H, Truong O.T., Thai P.T.L., Tran T.L Linh, Dang B.T. (2018) Molecular phylogeny of catfishes (Teleostei: Siluriformes) inferred from mitochondrial markers – Implications for Lower Mekong River Basin. *European Journal of Advanced Research in Biological and Life Sciences*, 6 (3), 1 – 12.

Roberts, J.R., Oréelis-Ribeiro R., Dang B.T., Halanych K.M., Bullard S.A. 2017. Blood flukes of Asiatic softshell turtles: revision of *Coeuritrema* Mehra, 1933 (Digenea: Schistosomatoidea) and description of a new species infecting Chinese softshell turtles, *Pelodiscus sinensis*, (Testudines: Trionychidae) cultured in the Da Rang River Basin, Vietnam. *Folia Parasitologica* 63.

Oréelis-Ribeiro, R., K.M Halanych, B.T Dang, M.D Bakenhaster, C.R Arias, S.A Bullard. 2017. Two new species of *Elopicola* (Digenea: Aporocotylidae) from Hawaiian ladyfish, *Elops hawaiiensis* (South China Sea) and Atlantic tarpon, *Megalops atlanticus* (Gulf of Mexico) with a comment on monophyly of elopomorph blood flukes. *Parasitology International* 66: 305-318.

Jackson R. Roberts, Cova R. Arias, Kenneth M. Halanych, Binh T. Dang, Stephen A. Bullard. 2018. A new genus and species of turtle blood fluke (Digenea: Schistosomatoidea) from the Mekong snail-eating turtle, *Malayemys subtrijuga* (Schlegel & Müller) (Testudines: Geoemydidae) in Vietnam, with a reassessment of related Asiatic turtle blood flukes and molecular phylogeny. *Syst Parasitol* (2018) 95:133–145

Dang Thuy Binh, Vu Dang Ha Quyen, Tran Quang Sang, Truong Thi Oanh. 2016. Vibriosis in cultured seahorse (*Hippocampus* spp.) in Khanh Hoa Province, Vietnam. *International Journal of Innovative Studies in Aquatic Biology and Fisheries (IJISABF)*, 2: 43-50

Roberts, J.R., R Oréelis-Ribeiro, B.T Dang, K.M Halanych, Bullard S.A.. 2016. Endocarditis associated with blood fluke infections (Digenea: Aporocotylidae: *Psettarium cf. anthicum*) among aquacultured cobia (*Rachycentron canadum*) from Nha Trang Bay, Vietnam. *Aquaculture* 468:549-557

Truong T.O, Doan V.T, Dang B.T. 2015. Distribution and phylogenetic relationships of snappers (Lutjanidae) based on mitochondrial DNA sequences. *Journal of Fisheries Science and Technology, Special Issue. Nha Trang University*. 160-166.

Le H.H, Dang B.T N, T.A.T Luong C.B. 2015. Population genetics of white-nest swiftlet *Aerodramus fuciphagus* in Vietnam. of *Fisheries Science and Technology. Special Issue*. 63-68.

Cheng, S. H., F. E. Anderson A. Bergman, G. N. Mahardika, Z. A. Muchlisin, B. T. Dang, H. P. Calumpong, K. S. Mohamed G. Sasikumar, V. Venkatesan, P. H. Barber. 2013. Molecular evidence for co-occurring cryptic lineages within the *Sepioteuthis cf. lessoniana* species complex in the Indian and Indo-West Pacific Oceans. *Hydrobiologia*. DOI 10.1007/s10750-013-1778.

Dang, B.T., Glenn A. B, Christoffer S, Bjørn B. 2013. Three new species of *Pseudorhabdosynochus* (Monogenea: Diplectanidae) from Vietnamese grouper (*Epinephelus* sp.) (Perciformes: Serranidae), *International Journal of Aquatic Science*. 4(2):44–58.

Dang B.T., Nguyen, T.A.T, Le, T.M.A 2012. Molecular phylogeny of giant clams (*Tridacna* spp.) in the coastal regions of Southern and Central of Vietnam. *Journal of Agriculture and Rural Development*.

10/2012.

Dang, B.T, Ngo Đ. N., Vu, Q.D.H. 2011. Population genetics of three spot seahorse (*Hippocampus trimaculatus*) from the south central coast of Vietnam. Vietnam Journal of Biotechnology. Special Issue.

Dang, B.T, Le, H.T.T, Truong, T.T.T, Nguyen, T.N.T 2011. The population genetics of *Conus textile* Linnaeus, 1758 from the Southern central coast of Vietnam. Journal of Fisheries Science and Technology. 4/2011. 39-44.

Pham, T.T., Dang, B.T., Truong, T.T.T; Ngo, Đ.N. 2011. Molecular phylogeny of venomous cone snails *Conus* spp. In the coastal regions of Southern central of Vietnam. Journal of Fisheries Science and Technology. 3.2011.

Dang, B.T., Levsen, A., Schander, C., Bristow, G. A. 2010. Some *Haliotrema* (Monogenea: Dactylogyridae) from cultured grouper (*Epinephelus* spp.) with emphasis on the phylogenetic position of *Haliotrema cromileptis*, Journal of Parasitology 96: 30–39, 2010

Presentations:

Dang, B.T., Levsen, A., Schander, C., Bristow, G. A. 2008. Molecular phylogeny of Monogenea found on grouper (*Epinephelus* spp) in Vietnam, Fish Health section Annual meeting. 9 – 12, 2008. Atlantic Veterinary College University of Prince Edward Island Charlottetown, P. E. I. Canada, 2007

Dang, B.T., Vu, Q.D.H. 2009. Molecular phylogenetic relationship of Vietnamese grouper (*Epinephelus* and *Plectropomus*) based on sequences of 16S mtDNA, Proceeding “Conference Proceeding of Coastal Marine Biodiversity and Bio-resources of Vietnam and Adjacent areas to the South China Sea. Asia-Pacific Network for Global Change Research (APN) and Research Institute of Aquaculture No. 3 (RIA 3). 2011.

Dang B.T, Ngo D.N, Vu Q.D.H. 2011. Study population genetic of three spot seahorses (*Hippocampus trimaculatus*) in the South Central, Vietnam. South Vietnam Biotechnology Conference. HCMC. 11/2011.

Dang B.T, Lê A.L.T. 2011. Phylogenetic relationships of giant clams (*Tridacna* spp.) In the Southern and Central Vietnam, Proceeding of 8th Science Conference at University of Agriculture and Forestry. 12/2011.

Hoang, Q.K, Dang B.T, , Le P.C. 2011. Studies of genetic diversity of black seahorse (*Hippocampus kuda* bleeker, 1852) at Khanh Hoa and Phu Yen. Proceeding of 8th Science Conference at University of Agriculture and Forestry. 12/2011.

Dang, B.T. Cam, V.H. 2012. Populations of the 3-spot seahorse (*Hippocampus trimaculatus*) from the South and Central coast of Vietnam, Pan-Pacific Advanced Studies Institute (PacASI) on Genomic Applications to Marine Science and Resource Management in South East Asia. Philippine, 2012.

Dang, B.T, Nguyen, T.A.T, Willette, A. D Carpenter, K., Stockwell, B. 2012. Phylogeography of *Tridacna crocea* along the South and Central Coast of Vietnam, PanPacific Advanced Studies Institute (PacASI) on Genomic Applications to Marine Science and Resource Management in South East Asia. Philippine, 2012

Dang. B.T. Nguyen, T.A.T, 2012. Phylogeography of *Tridacna crocea* along the south and central coast of Vietnam, Book abstract of International Fisheries Symposium – IFS 2012, (Can Tho University)

Dang, B.T., Vu, Q.D.H. Van. H.C. 2012. Phylogenetic relationships of cone snail (*Conus* spp) and association with feeding mode, Book abstract of International Fisheries Symposium – IFS 2012, (Can Tho University).

Nguyen T.A.T, Dang B.T, Nguyen D.T.X, 2013. Isolation and identification of α -Conotoxin some trees snails collected in Nha Trang Bay. Proceeding of 8th National Fisheries Conference for Young Scientists, held at University of Agriculture and Forestry in June, 2013.

Van H.C, Phạm T.T, Dang B.T. 2013. Isolation and identification of pathogenic bacteria in the yellow seahorse *Hippocampus kuda*. Proceeding of 8th National Fisheries Conference for Young Scientists, held at University of Agriculture and Forestry in June, 2013.

Le H.H, Đàng B.T, Nguyen T.A.T.. 2013. Study on genetic characteristics of swiftlet subspecies (*Aerodramus fuciphagus*.) in Vietnam. Proceedings of Conference in Developing Vietnam bird nest farming.6/2013

Dang TB, Levsen, A., Tran QS and Dang NAT. 2015. Comparative Parasite Fauna on Culture and Wild *Pangasianodon hypophthalmus* in Vietnam, Implication for Habitat and Diet. Conference proceeding BEFE 2015. Singapore 5/2015.

Truong TO, Vu DHQ, and Dang TB. 2015. Phylogenetic Relationships of Snappers (Lutjanidae) and Emperors (Lethrinidae) in Vietnam Based on Mitochondrial DNA Sequences. Conference proceeding BEFE 2015. Singapore 5/2015.

Dang TB, Doan VT. 2015. WebGIS for Reef Fishes Biodiversity at Nha Trang and Cam Ranh Bays in Khanh Hoa Province, Vietnam. Conference proceeding BEFE 2015. Singapore 5/2015.

Vu DHQ Thai TLP, Truong TO, Tran LT, and Dang TB. 2015. Phylogenetic Relationships of Freshwater Fish in Vietnamese Mekong. Conference proceeding BEFE 2015. Singapore 5/2015.

Dang BT, Levsen, A, Vu DHQ, 2014. Zoonotic trematode parasites of two cultured fish species in Vietnam; implications for epidemiology. Book abstract of 9th symposium of Disease in Asian Aquaculture (DAA9)

Dang BT, Levsen, A, Nguyen NTN, Vu DHQ, Tran QS. 2014. Phylogeny of zoonotic parasites in fresh and brackish water fish in Vietnam. Book abstract of 9th symposium of Disease in Asian Aquaculture (DAA9).

Dang Thuy Binh, Arne Levsen, Nguyen Nguyen Thanh Nhon, Vu Dang Ha Quyen, Tran Quang Sang (2014). Phylogeny of zoonotic parasites in fresh and brackish water fish in Vietnam, Book abstract of 9th symposium of Disease in Asian Aquaculture, page 64.

Tran Quang Sang, Dang Thuy Binh, Lang Tan Dat (2017). *Hydroides elegans* (Polychaeta – Serpulidae) on *Charybdis variegata* – Preliminary study for ecological adaptation, International Conference On Conservation Genetics In Mekong River Basin, page 43.

Dang Thuy Binh, Tran Quang Sang, Arne Levsen (2017). Zoonotic parasites of wild and cultured catfish in vietnam – indications of host-switching and co-evolutionary adaptations, International Conference On Conservation Genetics In Mekong River Basin, page 29

Le Thi Kieu Oanh, Dang Thuy Binh, Tran Quang Sang, Henrik Glenner (2017). Symbiotic diversity of swimming crab (*Portunus pelagicus*) in different temperature regimes in Vietnam, International Conference On Conservation Genetics In Mekong River Basin, pages 44-45

Tran Quang Sang, Dang Thuy Binh, Tran Thi Thanh Huyen, Arne Levsen (2017). Parasitic diversity on common freshwater fish in Vietnam, International Conference On Conservation Genetics In Mekong River Basin, page 35

Dang Thuy Binh, Nguyen Truc Son, Tran Quang Sang (2017). Species diversity and DNA barcode of benthic crustacean (Decapoda) in central Vietnam, Science for blue growth in the South China Sea, page 36

Le Thi Kieu Oanh, Tran Quang Sang, Dang Thuy Binh (2016). Composition of *Octolasmis* spp. species on the swimming crab (*Portunus pelagicus*) in Khanh Hoa, Conference of Biotechnology and Environment, Nha Trang University, page 12

Tran Quang Sang, Dang Thi Kim Huong, Dang Thuy Binh (2016). Monogenean diversity on coral reef fish (Mullidae and Serranidae) in Khanh Hoa, Conference of Biotechnology and Environment, Nha Trang University, page 9

Dang Thi Kim Huong, Tran Quang Sang, Dang Thuy Binh (2016). Parasite diversity on marine fish (Labridae and Siganidae) in Khanh Hoa, Conference of Biotechnology and Environment, Nha Trang University, page 20

Nguyen Thi Kim Vy, Le Thi Kieu Oanh, Tran Quang Sang, Dang Thuy Binh (2016). Population genetic diversity of crustacean (*Octolasmis angulata*) on swimming crab (*Portunus pelagicus*) in Khanh Hoa, Conference of Biotechnology and Environment, Nha Trang University, page 18

Dang Thuy Binh, Arne Levsen, Tran Quang Sang, Dang Nguyen Anh Tuan (2015). Comparative parasite fauna on culture and wild *Pangasianodon hypophthalmus* in Vietnam, implication for habitat and diet, International Conference on Biological, Environment and Food Engineering, Singapore, 978-93-84422-19-6, page 78

Tran Quang Sang, Dang Nguyen Anh Tuan, Dang Thuy Binh (2015). First report of epizootic species on striped catfish *Pangasianodon hypophthalmus* in Mekong Delta, Conference of Aquaculture in no. 4, page 1-6

Dang Nguyen Anh Tuan, Tran Quang Sang, Dang Thuy Binh (2015). Composition of parasites on some freshwater fish species in Khanh Hoa based on morphology and genetic characteristics, Conference of Aquaculture no. 4, page 16

Quyen D. H. Vu, Oanh T. Truong, Thuoc L. Tran, Binh T. Dang. 2018. Molecular phylogeny of Cyprinidae and Cobitidae (Teleostei: Cypriniformes) – Implication for Mekong Fish. Proceedings of ISER 169th International Conference, Bangkok, Thailand, 11-16. ISBN 978-93-88350-68-6

Binh T. Dang, Sang Q. Tran, Oanh T.K. Le, Oanh T.T., Henrik Glenner. 2018. Species diversity and phylogenetic relationships of symbiotic crustaceans on *Portunus pelagicus* (Linnaeus, 1758) in Vietnam, Proceedings of ISER 169th International Conference, Bangkok, Thailand, 31-38. ISBN 978-93-88350-68-6

Sang Q. Tran, Binh T. Dang, Arne Levsen. 2018. Species diversity, infestation and molecular phylogeny of *Anisakis* species (Nematoda: Anisakidae) from Tuna (Perciformes: Scombridae) in Khanh Hoa province, Vietnam, Proceedings of ISER 169th International Conference, Bangkok, Thailand, 5-10. ISBN 978-93-88350-68-62.