

CURRICULUM VITAE

Name : NORAINY BT MOHD HUSIN
Department : INSTITUTE OF AQUACULTURE TROPICA
Post : LECTURER
Gender : FEMALE
Race : MALAY
Nationality : MALAYSIA
Address : LOT 471-B LORONG OMAR YUNUS
KG. PAYA RAMBAI
15200 KOTA BHARU, KELANTAN
Tel. No. :
Handphone No. : 0129563469
Email : norainyhusin@umt.edu.my

ACADEMIC QUALIFICATION

(Institute),(Qualification),(Discipline),(Year)

Universiti Sains Malaysia, MSc, Biotechnology (Molecular biology), 2007

Universiti Sains Malaysia, BSc (Hons), Biology Aquatic, 2000

PROFESSIONAL QUALIFICATIONS

(Qualification),(Discipline),(Awarding Institute),(Year Awarded).

PREVIOUS APPOINTMENT

(Post),(Organisation),(From)-(Until)

Research Assistant, The WorldFish Center, Penang, Malaysia, August 2003-March 2007

ADMINISTRATIVE DUTIES

(Role),(From)-(Until),(Level), (Organisation)

Supervise Aquaculture Biotechnology Laboratory, November 2008, Present, D, Institute of Tropical Aquaculture

Supervise research activities of a science officer under Aquaculture Biotechnology Unit, January 2008, January 2010, D, Institute of Tropical Aquaculture

Committee member for 'International Conference on Marine Organisms and Their Biomedical Potentials: Expectation and Realizations 2008', January 2008, May 2008, D, Institute of Tropical Aquaculture

Committee member for Annual Seminar 2008, March 2008, November 2008, D, Institute of Tropical Aquaculture

Coordinator for COE Audit documentation 2008, January 2008, March 2008, D, Institute of Tropical Aquaculture

AREAS OF EXPERTISE

(Main),(Sub),(Area),(Keywords)

Biological Sciences, Genetics, Population genetics, (genetics)

Agricultural Sciences, Aquaculture, Genetic selection

RESEARCH

(Project title),(Role in project),(From)-(Until),(Source),(Level).

Population genetics structure of *Portunus pelagicus* crab in Malaysian waters., May 2008 - January 2010, Institute of Tropical Aquaculture, UMT, International

Alien species project, August 2003 - December 2005, International

International Network on Genetics in Aquaculture (INGA) and Genetically Improved Farmed Tilapia (GIFT) projects, January 2006 - January 1989, International

PROFESSIONAL AFFILIATIONS

(Client),(Role),(From)-(Until).

Persatuan Genetik Malaysia, Member, August 2009 - August 2010

Malaysian Nature Society, Member, January 2009 - January 2010

Persatuan Genetik Malaysia, Life member, August 2010 - Present

EXPERT TECHNICAL/CONTRIBUTION

(Activity),(Client),(Role),(From)-(Until),(Level).

AWARD AND RECOGNITIONS

(Awards),(Awarding Institute),(Year),(Level).

KEYNOTE ADDRESS / INVITED SPEAKER

(Title),(Event),(Venue),(Organizer),(Date),(Level).

INTELLECTUAL PROPERTY RIGHTS

(Product),(Type),(Year),(Year Awarded).

UNPATENT INTELLECTUAL PROPERTY RIGHTS

(Product),(Type),(Reg. No),(Owner),(Cost)

PUBLICATIONS

(Publication),(Level).

Articles in Journals

Norainy, M.H. and Siti-Azizah, M. N., (2009), *Morphometric and genetic differentiation of the Malaysian *Channa* spp.*, Journal of Zoological Studies, Submitted

Thesis Dissertations

Induced Spawning and Morphological Growth of Tridacna squamosa Lamarck, 1819) larvae. (in Bahasa)., Universiti Sains Malaysia, School of Biological Sciences, 2000

Morphological and Genetic Variability of Malaysian Channa spp based on Morphometric and RAPD techniques, Universiti Sains Malaysia, School of Biological Sciences, 2007

Articles in Proceedings

Husin, N.M., Z. Yasin and A. S. H. Tan, 2001. (2001), *Shell morphology and culture of Tridacna squamosa larvae (Bivalvia: Tridacnidae).*, Phuket Marine Biological Center Special Publication 25(1): 169-172., 28/09/2000, 08/10/2000, Suganthi Devadason Marine Research Institute Tuticorin, India.

Amirrudin, A., M. N. Siti Azizah, Y. Yusri, M. H. Norainy, A. Mohd Asnizam, and A. B. Ali, 2002. (2002), *Notes on freshwater fishes of Kenyir Lake, Terengganu, Malaysia.*, Proceedings of the 4th Indonesia-Malaysia-Thailand Growth Triangle (IMT-GT) UNINET Conference. 15-17th Oct. 2002, Penang, Malaysia. Pp 364-366., 15/10/2002, 17/10/2002, City Bayview Hotel, Penang

Norainy, M. H. and M. N. Siti Azizah, 2002. (2002), *RAPD fingerprinting of four snakehead Channa sp. for genetic identification and aquaculture purpose.*, International Aquaculture Conference & Exposition 'World Aquaculture 2002?', 23/04/2002, 27/04/2002, Beijing Convention Center, Beijing, China.

Norainy, M. H. and M. N. Siti Azizah, 2002. (2002), *Genetic relationships and variation of five Channa species assessed by RAPD technique for conservation purposes.*, Proceedings of the 4th Indonesia-Malaysia-Thailand Growth Triangle (IMT-GT) UNINET Conference. 15-17th Oct. 2002, Penang, Malaysia. Pp 64-67., 15/10/2002, 17/10/2002, Bayview Hotel, Penang

Ponniah, A.G., Norainy Mohd Husin and Zulkafli Abdul Rashid, 2004. (2004), *Pattern of establishment of tilapia in reservoirs in Malaysia.*, 7th Asian Fisheries Forum 'New Dimension and Challenges in Asian Fisheries in the 21st Century' 2004' in Penang, 30th November 2004, 30/11/2004, 04/12/2004, Penang

Ponniah, A.G., Norainy Mohd Husin and Zulkafli Abdul Rashid, 2004. (2004), *Pattern of establishment of tilapia in reservoirs in Malaysia.*, 7th Asian Fisheries Forum 'New Dimension and Challenges in Asian Fisheries in the 21st Century' 2004', 01/01/2004, 30/11/2004, Equatorial Hotel, Penang

A.G. Ponniah and Norainy Mohd Husin (2005), *Current knowledge of aquatic invasive alien species in ASEAN and their management in the context of aquaculture development in: M. Phillips, P. Bueno, J. Fisher and M. Reantaso*

(eds.), *Building capacity to combat impacts of aquatic invasive alien species and associated trans boundary pathogens in ASEAN countries, July 12-16, Penang, Malaysia. Bangkok, Network of Aquaculture Centres of Asia.*, 01/01/1989, 01/01/1989

Casal, C. M., A. N. Palacio, M. Reantaso, Ponniah, A., M. H. Norainy, B. Fabres and R. Froese. (2005), *Tracking pathogens through species introductions: A Database Mapping Approach in : M. Phillips, P. Bueno, J. Fisher and M. Reantaso (eds.), ?Building capacity to combat impacts of aquatic invasive alien species and associated trans boundary pathogens in ASEAN countries, July 12-16, Penang, Malaysia.? Bangkok, Network of Aquaculture Centres of Asia.*, 12/07/2004, 16/07/2004

Joshi, R. C., A. G. Ponniah, C. Casal, and Norainy Mohd Husin, 2005. (2005), *Case Study on the Invasive Golden Apple Snail in ASEAN by in: M. Phillips, P. Bueno, J. Fisher and M. Reantaso (eds.), ?Building capacity to combat impacts of aquatic invasive alien species and associated trans boundary pathogens in ASEAN countries, July 12-16, Penang, Malaysia.? Bangkok, Network of Aquaculture Centres of Asia.*, 01/01/1989, 01/01/1989

Norainy M. H., Fara Nor Asmira J. and Mhd-Ikhwanuddin, A., 2008. (2008), *Genetic diversity in two populations' blue swimming crab Portunus pelagicus assayed by random amplified polymorphic DNA markers- preliminary assessment.*, Proceeding of 10th Symposium of the Malaysian Society of Applied Biology, 6-8 November 2008, Sarawak, Malaysia.pp279-282., 06/11/2008, 08/11/2008, Hotel Merdeka Palace, Kuching, Sarawak

Fara-Nor-Asmira, J., Norainy, M. H. and Ikhwannuddin, A. M. (2009), *Population structure and genetic variation of the Blue Swimming Crab (Portunus pelagicus) in Malaysian waters inferred by Random Amplified Polymorphic DNA (RAPD).*, Proceedings of The International Conference on The Marine Ecosystems 2009 :498-501., 26/05/2009, 28/05/2009, Hotel Porto Malai Langkawi, Malaysia

Aziani, A. and Norainy M. H., 2009. (2009), *Genetic variation in Peninsular Malaysian hatchery populations of Crassostrea iredalei - preliminary assessment.*, Proceedings of The 8th Malaysia Genetic Congress 2009., 04/08/2009, 06/08/2009, Awana Genting Highland, Malaysia

Siti Shazlina, M. R., Yusuf, Y., Norainy M. H. and Amirrudin A., 2009. (2009), *Species Diversity and Distribution of Sea Urchin at Bidong Island.*, Proceedings of the International Conference on the Marine Ecosystems 2009 :502-506., 26/05/2009, 28/05/2009, Hotel Porto Malai, Langkawi, Malaysia

Posters

Norainy, M. H. and Siti Azizah, M. N., 2003., (2003), *Analysis of partial mitochondrial region of nd5 gene in six snakehead species, Channa from Malaysia.*, Symposium of Phylogeography of West Pacific, Taipei, Taiwan, Academia Sinica,

Taipei, Taiwan

K. R Abu-Bakar, Raul W. Ponzoni, N. H. Nguyen, N.M. Husin, H.L. Khaw, N. Kamaruzzaman, A. Hamzah and H.Y. Yee., (2008), *Effect of Thermal Treatment On Sex Ratio, Growth Performance And Survival In Genetically Improved Farmed Tilapia (Gift Strain, Oreochromis Niloticus).*, 8th International Symposium on Tilapia in Aquaculture (Tilapia Aquaculture from the Pharaohs to the Future), 12-14 October, 2008, Egypt., Egypt

Norainy M. H., Fara Nor Asmira J. and Mhd-Ikhwanuddin, A., 2008., (2008), *Genetic diversity in two populations' blue swimming crab Portunus pelagicus assayed by random amplified polymorphic DNA markers- preliminary assessment.*, Symposium of the Malaysian Society of Applied Biology, Kuching, Sarawak

Norainy M. H., Zulfigar, Y. and Aileen, T. S. H., 2008., (2008), *Potential Of Artificial Propagation Of Giant Clam For Restocking Program.*, UMT Annual Seminar, 8-10 June 2008, Kuala Terengganu, Malaysia., Primula Hotel, Kuala Terengganu

Norainy M. H and Siti Azizah, M. N., 2008., (2008), *Examination of relationship of Channa species using truss-network analysis.*, National Fisheries Symposium, 14-16 July 2008, Kuala Terengganu, Malaysia., Kuala Terengganu

Fara Nor Asmira Jastan and Norainy M. H., 2009., (2009), *Population structure and genetic variation of blue swimming crab (Portunus pelagicus) in Malaysian waters inferred by cytochrome oxidase 1 mitochondrial DNA sequences.*, Asian Pacific Aquaculture Conference 2009., PWTC Kuala Lumpur, Malaysia

Norainy M. H., Abdul Rahim, N. S. and Yusuf, Y, 2009., (2009), *Mating behavior and eggs development of phyllidiid nudibranch Phyllidiella lizae.*, Asian Pacific Aquaculture Conference 2009, PWTC Kuala Lumpur, Malaysia

Chong Y. K., Joseph J., Norainy M. H, 2009., (2009), *Species Identification and abundance of giant clams (Family Tridacnidae) at Redang Island, Terengganu, Malaysia.*, National Research and Innovation Competition, Mei 2009, Penang., Penang

Koh Chin Hong, Yusri Yusuf, Liew Hock-Chark and Norainy Mohd Husin, (2010), *NUDIBRANCH DISTRIBUTION AND HABITAT PREFERENCES IN REDANG ISLAND MARINE PARK, MALAYSIA*, The 2nd Asia Pacific Coral Reef Symposium, Royal Phuket City Hotel, Phuket, Thailand

EXPERT LINKAGES

(Client),(Linkage),(Year Involve),(Duration),(Level Award).

ACADEMIC PROJECT SUPERVISION

(Student's Name),(Degree),(Thesis Title),(Year Awarded).

Asma Hairunnisa Binti Abdullah, Bachelor, Detecting Morphospecies Diversity withing Systemus lateristriga using meristic, morphometric and truss network analysis., 2008

Aziani binti Aziz, UK 13601, Bachelor, Genetic Variability of *C.iredalei* on East Coast and West Coast of Peninsular Malaysia., 2009

Nurul Syafinas Bt. Abdul Rahim, UK13449, Bachelor, The mating behaviour, eggs and larvae development of nudibranch., 2009

Ahmad Syazwan Bin Abdul Aziz, UK13815, Bachelor, Comparison of distribution and abundance of giant clams species in Pulau Bidong and Batu Rakit., 2009

Chong Yee Kuen, UK13334, Bachelor, Species identification and abundance of giant clams (family tridacnidae) at Redang Island, Terengganu, Malaysia., 2009

Mohd Adam Nashriq bin Bani Yamin, GSK 0595, Master, Altered Sex Ratio in blue swimming Crab (*Portunus pelagicus*) population using feed bioencapsulated with 17- β -methyl testosterone hormone, 2009

Shamin Aizat Abd. Rashid, Bachelor, Comparison of the distribution and the abundance of giant clam species in nearshore habitat, 2010

Nursyuhadah Mohd Nizar, Bachelor, Population genetics of malaysian giant prawn *Macrobrachium rosenbergii* in Peninsular Malaysia using mtDNA CO1 gene, 2010

Khoo May Kee, Bachelor, Population genetics of oyster spp in Peninsular Malaysia using mtDNA 16S rDNA gene., 2010

Nurshuhada Bt Bahar, Bachelor, Molecular phylogeny of oyster species in Peninsular Malaysia using mitochondrial 16s rDNA, 2010

Mogana a/p Muniandy, Bachelor, Population genetics of malaysian giant prawn *Macrobrachium rosenbergii* in Peninsular Malaysia using mtDNA 16S rDNA, 2010

Siti Fatimah Sulaiman, Bachelor, Morphological and phylogenetics study of Portunid crabs in East Coast of Peninsular Malaysia, 2010

Che Nur Farhana Binti Che Omar, Bachelor, Molecular phylogeny of snakehead spp in Peninsular Malaysia, 2010

Norazman bin Mat Baharin, Bachelor, Fish diversity of Chendering rocky reef., 2010

Mohd Zulhilmi Bin Mohd Nor, Bachelor, Fish diversity and abundance at Universiti Malaysia Terengganu, 2010

Adam Nashriq, Master, Production of all male giant prawn, 2010

Norhidayah Binti Abdul Manan, Master, Induction of triploidy for the production of monosex postlarvae of banana shrimp, *Fenneropenaeus merguensis*., N/A

SUBJECT TAUGHT

(Subject),(Session),(Credit Hour),(Student Level),(Organisation).

Biology Invertebrate Aquatic 1, Jan-Feb 2008, 3, 123, 4, Universiti Malaysia Terengganu

Intensive Aquaculture Production, Dec 2007, 15, 2, Universiti Malaysia Terengganu

Aquatic ecology, July 2009, 3, 51, 3, Universiti Malaysia Terengganu

EXPERT CONSULTATION

(Consultation),(Role),(Client),(Level), (From - Until), (Cost).

COMMERCIALIZATION

(Comm. Type),(Industry Type),(Product),(Company Name),(Comm. Value).

EXPO/EXHIBITION

(Expo),(Venue),(Organizer),(Level),(Date),(Cost).

EXTERNAL/INTERNAL/INDEPENDENT EXAMINER

(Candidate/Body),(Degree Level),(Role),(From)-(Until).

EXTERNAL REVIEWER/EDITORIAL

(Activity),(Role),(From)-(Until)

ATTENDED COURSE/SEMINARS

(Name of Seminar/Course),(Role),(From)-(Until),(Place),(Title of Paper Presented - if applicable).

Armidale Animal Breeding Summer Course 2009, Participant, 02/02/2009 - 06/02/2009, University of New England, Armidale, New South Wales, Australia

International Conference on Marine Ecosystems, Langkawi, Malaysia., Presenter, 26/05/2009 - 28/05/2009, Langkawi, Malaysia, Species Diversity and Distribution of Sea Urchin at Bidong Island.

8th Malaysian Genetic Congress, Pahang, Malaysia, Presenter, 04/08/2009 - 06/08/2009, Genting Highland, Pahang, Genetic variation in Peninsular Malaysian hatchery populations of *Crassostrea iredalei* - preliminary assessment

Asian Pacific Aquaculture Conference 2009, Presenter, 03/11/2009 - 06/11/2009, Kuala Lumpur, Mating behavior and eggs development of phyllidiid nudibranch *Phyllidiella lizae*.

Barcoding Workshop, Universiti Sains Malaysia, Pulau Pinang., Participant, 09/11/2009 - 12/11/2009, Pulau Pinang., none

Workshop IELTS, Participant, 19/01/2009 - 22/01/2009, IDP Subang Jaya, Selangor, none

Workshop on Bioinformatics Applications in Marine., Participant, 11/03/2009 - 11/03/2009, Makmal Aplikasi, UMT

Scientific Writing For International Journal., Participant, 18/03/2009 - 18/03/2009, Dewan

Redang, UMT

National Fisheries Symposium, 14-16 July 2008, Kuala Terengganu, Malaysia., presenter, 14/07/2008 - 16/07/2008, Wisma Darul Iman, Kuala Terengganu, Examination of relationship of Channa species using truss-network analysis.

10th Symposium of the Malaysian Society of Applied Biology, Presenter, 06/11/2008 - 08/11/2008, Kuching, Sarawak, Malaysia., Genetic diversity in two populations? blue swimming crab Portunus pelagicus assayed by random amplified polymorphic DNA markers- preliminary assessment.

7th Asian Fisheries Forum 'New Dimension and Challenges in Asian Fisheries in the 21st Century' 2004' in Penang, 30th November 2004., Presenter, 01/01/1960 - 06/01/2009, Penang, Pattern of establishment of tilapia in reservoirs in Malaysia.

7th International Symposium on Sustainability Science and Management-UMTAS 2008, Presenter, 08/06/2008 - 10/06/2008, Primula Beach Resort, Kuala Terengganu, Potential Of Artificial Propagation Of Giant Clam For Restocking Program

Training Workshop on Population Genetics for Conservation Purposes, Participant, 17/11/2008 - 22/11/2008, Universiti Sains Malaysia, Pulau Pinang.

Akademi Sains Malaysia Training Course on Research & Development Approaches and Management For Young Scientist, Participant, 15/06/2008 - 22/07/2008, Vistana Hotel, Kuala Lumpur

Giant Malaysian Prawn Seminar 2008, Participant, 27/03/2008 - 29/03/2008, Equatorial Hotel Kuala Lumpur

Bengkel Penulisan Buku, Participant, 04/12/2007 - 06/12/2007, Awana Kijal, Resort and Spa

Lecture by Visiting Prof: Assoc. Prof. Peter B. Mather and Prof. Jane Hughes, 25/03/2008 - 25/03/2008, Auditorium PSNZ, UMT

SAS Talk, 13/08/2008 - 13/08/2008, Dewan Muhyiddin, FPE

Horseshoe Crab Of Peninsular Malaysia: Conservation Perspective Of Ecological And Biological Studies-AKUATROP research fellow lecture series, 13/11/2008 - 13/11/2008, Auditorium PSNZ

Biotechnology Talk Series, 15/12/2008 - 15/12/2008, Auditorium PSNZ, UMT

Experimental Design For Scientists:Self-Defense, Planning And Execution- Public lecture by Prof. Dr. Glenn Allan Bristow, 08/01/2008 - 08/01/2008, Auditorium PSNZ, UMT

From Genomics to Proteomics, 04/02/2008 - 04/02/2008, Medan Syarahan Timur, FST, UMT

PROFFESIONAL DEVELOPMENT

(Name of Training),(From)-(Until),(Place),(Sponsor).

The Armidale Animal Breeding Summer Course 2009, Quantitative Genetic Theory And Analysis: Selection Theory, 02/02/2009 - 06/02/2009, University of New England, Armidale, New South Wales, Australia., UMT

Bengkel Application Of Evolutionary Potential, 18/05/2009 - 19/05/2009, Komplek kuliah 7, UMT

ESQ Leadership Training, 20/03/2008 - 22/03/2008, Terengganu Equestrian Resort, Kuala Terengganu, Institute Akuakultur Tropika

Kursus Penilaian Projek Ilmiah Tahun Akhir., 18/08/2009 - 18/08/2009, Auditorium PSNZ, UMT

Program nilai-nilai Lestari: 'SVP Training for Members', 31/01/2008 - 02/02/2008, Paka Residence Resort, Paka, Terengganu

Bengkel Penulisan Makalah Ilmiah Sains "Scientific Writing": daripada Perspektif Penyunting Jurnal oleh Prof. John Leslie, Kansas University., 30/06/2008 - 30/06/2008, Auditorium PSNZ, UMT

Human Capital Development Talk - MOSTI, 27/07/2008 - 27/07/2008, Dewan Muhyiddin, UMT

Induksi Penyelidikan, 05/08/2008 - 06/08/2008, Dewan Persidangan Redang, UMT

INTERNSHIP SUPERVISION

(Student Name),(Organisation),(From)-(Until)

STUDENT ADVISORY

(Matric),(Student),(From)-(Until).

OTHER CONTRIBUTIONS

(Activity),(Role),(From)-(Until),(Level).

Panel penilai pembentangan projek tahun akhir bagi para pelajar Program Sains Samudera & Biologi Marin (Sesi 2008/2009), Evaluator, 01 April 2009 - 01 April 2009, National

Panel penilai pembentangan cadangan projek tahun akhir pelajar-pelajar Sarjana Muda Sains (Sains Biologi) dan Sarjana Muda Sains Gunaan (Pemuliharaan dan Pengurusan Biodiversiti) sesi 2009/2010 ., Evaluator, 14 August 2009 - 14 August 2009, National

Panel penilai pembentangan cadangan projek tahun akhir pelajar-pelajar Sarjana Muda Sains (Perikanan dan Akuakultur) sesi 2009/2010, Evaluator, 04 September 2009 - 04 September 2009, National

Memeriksa 7 naskah tesis pelajar Sarjana Muda Perikanan dan Akuakultur, Fakulti Agroteknologi dan Sains Makanan, Sesi 2008/2009., Examiner, 01 May 2009 - 02 May 2009, National

Project Presentation of MSc-Str. C (SBA 5997), Evaluator, 01 December 2007 - 01

December 2007, National

Final Year Project Presentation- Sarjana Muda Sains (Sains Biologi) dan Sarjana Muda Sains Gunaan (Pemuliharaan dan Pengurusan Biodiversiti) sesi 2007/2008., Evaluator, 07 April 2008 - 07 April 2008, National

Final Year Project Proposal-Program Sains Samudera & Biologi Marin (Sesi 2008/2009), Evaluator, 14 August 2008 - 14 August 2008, National

Project Proposal - Master of Science (Aquaculture) by Coursework, Evaluator, 31 December 2008 - 31 December 2008, National

MSc structure C Field Visit to FishProtech, Sepang, 22 December 2008 - 22 December 2008, National