

CURRICULUM VITAE

Name : LIEW HON JUNG
Department : INSTITUTE OF AQUACULTURE TROPICA
Post : LECTURER
Gender : MALE
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ACADEMIC QUALIFICATION

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

Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM), M. Sc., Aquaculture, 2006

Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM), B. Sc., Agrotechnology - Aquaculture, 2004

PROFESSIONAL QUALIFICATIONS

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

PREVIOUS APPOINTMENT

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

Lecturer/Researcher, Universiti Malaysia Terengganu (UMT), December 2006-Present

Science Officer, Kolej Universiti Sains dan Teknologi Malaysia, June 2006-November 2006

Research Assistance, Kolej Universiti Sains dan Teknologi Malaysia, April 2003-December 2003

ADMINISTRATIVE DUTIES

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

Head of Organizer public lecture by Dr. Anil Chaterji: The Amazing Horseshoe crab, November 2008, November 2008, U, Institute of Tropical Aquaculture, UMT

Jawatankuasa & pengiring bagi Annual seminar Akuatrop: Toward pathogen free environment and good management practice in Aquaculture, November 2008, November 2008, N, Institute of Tropical Aquaculture, UMT

Head of Organizer: Public lecture by Prof. Amu Thewarth: Use of pharmacogenomics toward therapeutic strategies, October 2008, October 2008, U, Institute of Tropical Aquaculture, UMT

Researcher: Site surveying for kelah hatchery at Kenyir Lake., October 2008, October 2008, F, Institute of Tropical Aquaculture, UMT

Pembentang & Penyelidik: Techno Fund bagi bersama HP Aquaculture Sdn. Bhd.,
July 2008, July 2008, N, MOSTI

Pemeriksa: Penolong Pegawai Gred 27/29, May 2008, May 2008, U, Jabatan
Pendaftar

Head of Organizer: Public lecture by Dr. Yoon Duk-Joo: Status of Korea Aquaculture,
May 2008, May 2008, F, Institute of Tropical Aquaculture, UMT

Petugas Pengawal Peperiksaan Sesi Semester 2007/08-D, March 2008, April 2008,
U, Jabatan Pendaftar

AJK, Annual Seminar AKUATROP 2007: Toward improvement of live feed production in
Aquaculture., January 2007, November 2007, F, Institute of Tropical Aquaculture, UMT

AJK, Fish Disease Workshop., January 2007, April 2007, F, Institute of Tropical
Aquaculture, UMT

Exhibitor: UMT program promotion at Vietnam., April 2007, August 2007, I, Institute
of Tropical Aquaculture, UMT

AJK Publicity on genetics workshop: Principles of selective breeding., January 2007,
September 2007, F, Institute of Tropical Aquaculture, UMT

AREAS OF EXPERTISE

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

Agricultural Sciences, Aquaculture, Other aquaculture, (Metabolism compromising
strategy (ionoregulatory; acid-base balancing; gas-exchange; energy balancing; aerobic-
anaerobic metabolism))

Agricultural Sciences, Fisheries Sciences, Fisheries ecology and conservation,
(Elasmobranchii
Gill physiology
Gastrointestinal
Ionoregulation
Primitive species)

Agricultural Sciences, Aquaculture, Other aquaculture, (Feeding physiology)

Agricultural Sciences, Aquaculture, Other aquaculture, (Swimming physiology)

Biological Sciences, Physiology, Comparative physiology, (Hormonal regulation and
balancing)

Biological Sciences, Physiology, Comparative physiology, (Ionoregulation)

Biological Sciences, Physiology, Comparative physiology, (Metabolism strategy)

Agricultural Sciences, Aquaculture, Fish reproduction, (Marine and freshwater
ornamental fish)

Agricultural Sciences, Aquaculture, Husbandry of aquatic organisms, (larval rearing & development)

RESEARCH

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

A study on the chemical communication on reproduction of tropical donkey-ear abalone (*Haliotis asinina*), November 2006 - January 1970, Ministry of Higher Education, National

PROFESSIONAL AFFILIATIONS

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

EXPERT TECHNICAL/CONTRIBUTION

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

Grouper Cultivation and production, HP aquaculture Sdn. Bhd., Researcher, August 2008 - April 2009, International

Marine tilapia culture as potential marine food fish, Institute of Tropical Aquaculture, Universiti Malaysia Terengganu, Researcher, December 2006 - April 2009, International

Kelah breeding program, Kelah World Sdn. Bhd., Researcher, April 2007 - June 2007, International

Hatchery and laboratory design and set-up, Institute of Tropical Aquaculture, Universiti Malaysia Terengganu, Researcher, March 2007 - April 2009, International

AWARD AND RECOGNITIONS

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

Society for Experimental Biology (SEB) Travel Grant, Society for Experimental Biology, The Biology Company, United Kingdom, 2012, International

Research Stay and Travel Grant, University of Antwerp, Belgium & University of McMaster, Canada, 2011, International

Alltech Young Scientist Award - 1st Prize (Country Category), Alltech Young Scientist, United State of America, 2010, International

Anugerah Pameran R & D, Universiti Malaysia Terengganu, 2008, University

Anugerah Kumpulan Penyelidikan Terbaik, Universiti Malaysia Terengganu, 2008, University

Anugerah Khas Naib Canselor Tahun 2008 (Kategori Penyelidikan), Universiti Malaysia Terengganu, 2008, University

Bronze Medal : Culture of seawater tilapia as potential marine food fish, Malaysian Association of Research Scientists, 2007, National

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

Liew H.J., A. Ambak, A.B. Abol-Munafi, T.S. Chuah., (2006), *Embryonic development of clownfish Amphiprion ocellaris under laboratory-reared conditions.*, Journal of Sustainability Science and Management, Vol 1(1) : 64 - 73

Hua Thai Nhan, Liew Hon Jung, Mohd. Azmi Ambak, Gordon J. Watson, Hii Yii Siang, (2010), *Evidence for sexual attraction pheromones released by male tropical donkey's ear abalone (Haliotis asinine), (L.)*, Invertebrate Reproduction and Development, Vol 54-4 : 169-176

Amit Kumar Sinha, Hon Jung Liew, Marjan Diricx, Vikas Kumar, Veerle M. Darras, Ronny Blust, Gudrun De Boeck., (2012), *Combined effects of high environmental ammonia, starvation and exercise on hormonal and ion-regulatory response in goldfish (Carassius auratus L.)*., Aquatic Toxicology, Vol 114-115 : 153-164

Liew H.J., Varuthan M., Nasution Z., Ambak M.A., (2012), *A comparison of lipid content and fatty acids profile of hybrid tilapia, Oreochromis niloticus cultured in freshwater and marine conditions*, Journal of Sustainability and Management, Vol 7 : 145-152

Amit Kumar Sinha, Hon Jung Liew, Marjan Diricx, Ronny Blust, Gudrun De Boeck, (2012), *The interactive effects of ammonia exposure, nutritional status and exercise on metabolic and physiological responses in gold fish (Carassius auratus L.)*, Aquatic Toxicology, Vol 109 : 33-46

Amit Kumar Sinha, Marjan Diricx, Lai Pong Chan, Hon Jung Liew, Vikas Kumar, Ronny Blust, Gudrun De Boeck., (2012), *Expression pattern of potential biomarker genes related to growth, ion regulation and stress in response to ammonia exposure, food deprivation and exercise in common carp (Cyprinus carpio)*., Aquatic Toxicology, Vol 122-123 : 93-105

Hon Jung Liew, Amit Kumar Sinha, Nathalie Mauro, Marjan Diricx, Ronny Blust,

Gudrun De Boeck, (2012), *Fasting goldfish, Carassius auratus and common carp, Cyprinus carpio, use different metabolic strategies when swimming*, Comparative Biochemistry and Physiology, Part A, Vol 163 : 327-335

Yeong Yik Sung, Hon Jung Liew, Abol Munafi Ambok Bolong, Mohd. Effendy Abdul Wahid, Thomas H MacRae, (2013), *The induction of Hsp70 synthesis by non-lethal heat shock confers thermotolerance and resistance to lethal ammonia stress in common carp, Cyprinus carpio (Linn)*, Aquaculture Research, Vol 1-7

Hon Jung Liew, Amit Kumar Sinha, C. Michele Nawata, Ronny Blust, Chris M. Wood, Gudrun De Boeck, (2013), *Differential responses in ammonia excretion, sodium fluxes and gill permeability explain different sensitivities to acute high environmental ammonia in three freshwater teleosts*, Aquatic Toxicology, Vol 126 : 63-76

Books

Dereman A.

Liew H.J., (2009), *Manual of Tilapia Culture*, Universiti Malaysia Terengganu, Universiti Malaysia Terengganu

Hon Jung, Liew; Mohd. Azmi Ambak; A.M. Ambok Bolong, (2010), *False Clownfish - Breeding, behavioral, embryonic and larval development, rearing and management of clownfish under captivity*, LAP - Lambert Academic Publisher, Germany

Chapter in Books

Liew Hon Jung, Azmi Ambak, Abol-Munafi Ambok Bolong, Chuah Tze Seng (2008), *The Breeding of False Clownfish Amphiprion ocellaris ??? Part Two: Early Life Embryo Progression in FishMail Edition Volume 18 Page : 12-15*

Thesis Dissertations

A study on the effect of feeding and rearing medium of Striped Snakehead Channa striata., Kolej Universiti Sains dan Teknologi Malaysia, Fisheries and Aquaculture, 2003

Breeding, development and larval rearing of False clownfish Amphiprion ocellaris under captive conditions, Kolej Universiti Malaysia Terengganu, Institute of Tropical Aquaculture, 2006

Articles in Proceedings

Liew, H.J., A. Ambak, A.B. Abol-Munafi, T.S. Chuah (2005), *Spawning behavior of False clownfish Amphiprion ocellaris in captive conditions*, 4th Kustem Annual Seminar, 02/05/2005, 03/05/2005, Kuala Terengganu, Malaysia

Liew, H.J., A. Ambak, A.B. Abol-Munafi, T.S. Chuah (2005), *Onset feeding of Amphiprion ocellaris under laboratory-reared conditions*, 2nd Kustem Postgraduate

Seminar, 27/11/2005, 27/11/2005, KUSTEM, Malaysia

Liew H.J., A. Deraman (2008), *Spawning behavior of abalone Haliotis diversicolor supertexta under laboratory-reared conditions*, 10th Malaysia Applied Biology Symposium, 06/11/2008, 08/11/2008, Kuching, Sarawak

Liew, H.J., A. Deraman (2008), *Spawning behavior of abalone Haliotis diversicolor supertexta under laboratory-reared conditions*, 10th Malaysia Applied Biology Symposium, 06/11/2008, 08/11/2008, Kuching, Sarawak, Malaysia

A.B. Abol-Munafi, H.J. Liew, A. Ambak (2008), *The breeding of clownfish Amphiprion ocellaris under captive conditions*, National Fisheries Symposium (NAFIS) 2008, 14/07/2008, 16/07/2008, Wisma Darul Iman, Kuala Terengganu

Liew, H.J., A. Deraman (2008), *Early growth performance of hybrid red tilapia under marine water environment*, 10th Malaysian Applied Biology Symposium, 06/11/2008, 08/11/2008, Kuching, Sarawak

Liew Hon Jung (2009), *ANEMONE Heteractis magnifica PROPAGATION THROUGH NUTRIENT INDUCTION*, Annual Seminar on Marine Science and Aquaculture, 11/03/2009, 13/03/2009, Universiti Malaysia Sabah

Hon Jung Liew, Amit Kumar Sinha, Gudrun De Boeck (2011), *Effects of food deprivation and exhaustive swimming impacts on swimming performance, metabolic responses and the energy budget of goldfish, Carassius auratus*, Society for Experimental Biology Annual Main Meeting, 01/07/2011, 04/07/2011, Glasgow, United Kingdom

Gudrun De Boeck, HonJung Liew, Amit K. Sinha, C. Michele Nawata, Chris M. Wood (2011), *Consequences of elevated environmental ammonia for Na⁺ transport and ammonia/urea excretion in freshwater fish*, International Fisheries Symposium, 03/10/2011, 05/10/2011, Kuala Terengganu, Malaysia

HonJung Liew, Amit K. Sinha, Veerle M. Darras, Ronny Blust, Gudrun De Boeck (2011), *Combined impact of feeding and exhaustive swimming on iono- and hormonal regulation of goldfish Carassius auratus.*, International Fisheries Symposium, 03/10/2011, 05/10/2011, Kuala Terengganu, Malaysia

Amit K. Sinha, Gudrun De Boeck, Ronny Blust, Marjan Diricx, Hon Jung Liew (2011), *The interactive effects of ammonia exposure, nutritional status and exercise on the ecological fitness of gold fish (Carassius auratus L.)*, Society for Experimental Biology Annual Main Meeting, 01/07/2011, 04/07/2011, Glasgow, United Kingdom

Hon Jung Liew, Antonella Pelle, Daniella Chiarella, Gudrun De Boeck. (2012), *Cortisol elevation in common carp *Cyprinus carpio* improves ammonia excretion capacity during swimming at different feeding regimes, but diverts energy use towards protein and anaerobic metabolism.*, Society for Experimental Biology (SEB) Annual Main Meeting, 29/06/2012, 02/07/2012, Salzburg, Austria

Chris M. Wood, C. Michele Nawata, Amit Kumar Sinha, Hon Jung Liew, Gudrun De Boeck (2012), *Ammonia excretion, Na⁺ uptake, cortisol, and intracellular signalling during high environmental ammonia exposure in fish.*, Society for Experimental Biology (SEB) Annual Main Meeting, 29/06/2012, 02/07/2012, Salzburg, Austria.

Posters

Liew, H.J., Ambak A., Abol-Munafi A.B., Chuah T.S., (2004), *Captive breeding performance of clownfish *Amphiprion ocellaris* in Malaysia*, 7th Asia Fisheries Forum, Pulau Pinang, Malaysia

Liew, H.J., A. Ambak, A.B. Abol-Munafi, T.S. Chuah., (2005), *Larval rearing study in captive breeding of clownfish *Amphiprion ocellaris* in Malaysia*, World Aquaculture Conference, Bali, Indonesia

Liew, H.J., A.B. Abol-Munafi., (2005), *Larval rearing study of origin snakehead *Channa striata* on growth and survival*, 4th Kustem Annual Seminar, Kuala Terengganu, Malaysia

Liew H.J., A. Ambak, A.B. Abol-Munafi, T.S. Chuah., (2007), *Allometric growth of the *Amphiprion ocellaris* under laboratory conditions*, Asian-Pacific Aquaculture, Hanoi, Vietnam

General Publications

Liew, H.J., (2006), *Captive breeding a success*, The Star Newspaper, 2, 01/01/2013

Liew H.J., A. Ambak, A.B. Abol-Munafi, (2008), *The Breeding of False Clownfish *Amphiprion ocellaris* ??? Part Two: Early Life Embryo Progression*, Malaysian Fisheries Society, 4, 01/09/2008

Liew Hon Jung^{1*}, Mohd. Azmi Ambak², Abol-Munafi Ambok Bolong¹, Chuah Tse Seng³, (2008), *The Breeding of False Clownfish *Amphiprion ocellaris* ? Part Three: Larval rearing of captive breeding larvae*, Fish Mail, 4, 01/07/2008

Liew H.J., A. Ambak, A.B. Abol-Munafi, (2008), *Breeding the False Clownfish, *Amphiprion ocellaris**, Malaysian Fisheries Society, 4, 01/03/2008

Liew, H.J., Ambak, M.A., Abol-Munafi, A.B. and Chuah, T.S., (2008), *The breeding of false clownfish *Amphiprion ocellaris*. Part Two: Early life embryo progression*,

EXPERT LINKAGES

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

HP Aquaculture Sdn. Bhd., Research and project advisory, 2008, 24, N

ACADEMIC PROJECT SUPERVISION

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

Mathieuw de Pluas, Master, Respirometry performance of Mozambicus tilapia embryo, N/A

Angela Fazio, Master, Hypercortisolism impact on metabolic strategy, ionoregulation and stress gene expression in common carp at different feeding regime, N/A

Daniela Chiarella, Master, Exogenous cortisol and low feeding impacts on body composition, physiological, respirometry and swimming performance of common carp, 2013

Antonella Pelle, Master, Combine effect of high feeding practice and cortisol implantation on body composition, respirometry, swimming and physiology responses of common carp, 2013

Nathalie Mauro, Master, Impact of feeding and swimming on the energy metabolism and ionoregulation of common carp (*Cyprinus carpio*), 2011

Hua Thai Nhan, Master, A study on the chemical communication on the reproduction of tropical donkey-ear abalone (*Haliotis asinina*), 2009

Bukhari Bin Othman, Bachelor, The light intensity effect on feeding performance of abalone *Haliotis deversicolor supertexta*, 2008

Noor Hafizul bin Wahab, Bachelor, Screening the commercial herbicides for control of algae growth in the aquarium, 2008

Mohd. Ainul Shah bin Bachok, Bachelor, Preliminary study on coloration enhancement of *Macrobrachium lanchesteri* by using turmeric, 2009

Mohd. Redzuan bin Samsuri, Bachelor, The color induction of *Macrobrachium lanchesteri* by using dragon fruit pigmentation, 2009

Syarifah Nor Syahirah bt. Syed Muhazani, Bachelor, Induce thermo tolerance of *Penaeus vannamei* juveniles following exposure to sublethal heat treatments, 2009

Hamidah bt. Abdul Ghani, Bachelor, Effect of oxygen depletion on growth performance of hybrid red tilapia larvae, 2009

Amirulizan bin Hamzah, Bachelor, The potential of cinnamon (*Cinnamomum* sp.) as anesthetic agent in aquaculture, 2008

Johnny Anak Ajang, Bachelor, *Derris elliptica* extraction as potential anesthetic agent on hybrid red tilapia, 2008

Nurul Liayana bt. Mohd. Ramly, Bachelor, Dissolved oxygen depletion on survival and spawning performance of gourami sp., 2008

SUBJECT TAUGHT

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

Aquatic Animal Physiology, 2012, 16, 27, 2, Dept. Biology, University of Antwerp, Belgium

Aquatic Animal Physiology, 2011, 16, 25, 2, Dept. Biology, University of Antwerp, Belgium

Aquatic Animal Physiology, 2010, 16, 20, 2, Dept. Biology, University of Antwerp, Belgium

Aquatic Toxicology, 2009, 9, 18, 2, Dept. Biology, University of Antwerp, Belgium

Ornamental fish culture, 2008/2009, 3, 26, 3, Faculty of Agrotechnology and Food Science, UMT

Advance Seed Production, 2008/2009, 3, 15, 2, Institute of Tropical Aquaculture, UMT

Seed Production Techniques, 2007/2008, 3, 70, 3, Faculty of Agrotechnology and Food Science, UMT

Ornamental Fish Culture, 2006/2007, 3, 20, 3, Faculty of Agrotechnology and Food Science, UMT

EXPERT CONSULTATION

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

CULTIVATION OF GREEN GROUPER (*Epinephelus coioides*) EGGS & FINGERLING USING WATER TREATMENT TECHNOLOGY AND NUTRITION SCIENCE, Advisor, HP AQUACULTURE SDN. BHD., July 2008 - Present, 1000000

COMMERCIALIZATION

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

EXPO/EXHIBITION

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

Malaysia Technology Expo 2007, PWTC, Kuala Lumpur, Malaysian Association of Research Scientists, National, 29/03/2007

Asia-Pacific Aquaculture 2007, Hanoi, Vietnam, World Aquaculture Society, National, 05/08/2007

Pencipta 2007, KLCC, Kuala Lumpur, Ministry of Science, Technology and Innovation (MOSTI), National, 09/08/2007

SMIDEX 2008, KLCC, Kuala Lumpur, Small Medium Industry Development Cooperation

(SMIDEC), National, 04/06/2008

EXTERNAL/INTERNAL/INDEPENDENT EXAMINER

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

Chia Wye Keat, Bachelor Degree, Universiti Malaysia Terengganu, External, 01/04/2009

Norita Ak Thambi, Bachelor Degree, Universiti Malaysia Terengganu, External,
01/04/2009

Rassimah Abdul Razak, Bachelor Degree, Universiti Malaysia Terengganu, External,
01/04/2009

Koh Shiau Hui, Bachelor Degree, Universiti Malaysia Terengganu, External, 01/04/2009

Ooi Tian Jia, Bachelor Degree, Universiti Malaysia Terengganu, External, 01/04/2009

Lim Boon Yuan, Bachelor Degree, Universiti Malaysia Terengganu, External, 01/04/2009

Mohd Sabri bin Muda, Pen. Peg. (G27), Universiti Malaysia Terengganu, UMT, Internal,
01/05/2008

EXTERNAL REVIEWER/EDITORIAL

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

ATTENDED COURSE/SEMINARS

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

Seminar on Fish Reproduction, Peserta, 25/03/2009 - 25/03/2009, Pusat Pendidikan Luar, UPM

Annual seminar on Marine Science and Aquaculture, Pembentang, 11/03/2009 - 13/03/2009, Universiti Malaysia Sabah, Sabah, ANEMONE, Heteractis Magnifica propagation through nutrient stress induction

Bengkel Harta Intelek: Strategi carian paten dan permodelan, Peserta, 21/12/2008 - 21/12/2008, Makmal Aplikasi, KK, UMT

10th Malaysia Applied Biology Symposium, Presenter, 06/11/2008 - 08/11/2008, Merdeka Palace, Kuching, Sarawak, Early growth performance of hybrid red tilapia under marine water environment

10th Malaysia Applied Biology Symposium, Presenter, 06/11/2008 - 08/11/2008, Merdeka Palace, Kuching, Sarawak, Spawning behavioral of abalone Haliotis diversicolor supertexta under laboratory-reared conditions

Annual Aquaculture Seminar: Towards a Pathogen-free Environment and Good Management Practice in Aquaculture, AJK & Peserta, 05/11/2008 - 06/11/2008, Universiti Malaysia Terengganu, UMT

National Fisheries Symposium (NAFIS), Presenter, 14/07/2008 - 16/07/2008, Wisma Darul Iman, KT, The breeding of clownfish Amphiprion ocellaris under captive conditions

ASM training course on research and development for young scientists, Peserta, 15/06/2008 - 21/06/2008, Vistana Hotel, KL

Giant Malaysia Prawn, Peserta, 28/03/2008 - 29/03/2008, Hotel Equatorial, KL

Bengkel penulisan proposal penyelidikan, Peserta, 29/02/2008 - 29/02/2008, Haritage Bat Club Marina & Resort, KT

Bengkel kemasukan data e-penyelidikan, Peserta, 23/01/2008 - 23/01/2008, Universiti Malaysia Terengganu, UMT

Toward improvement of live feed production in Aquaculture, AJK & Peserta, 24/10/2007 - 25/10/2007, Primula Beach Resort, KT

Fish Genetics Workshop: Principle of Selective Breeding, Peserta, 02/09/2007 - 06/09/2007, Gen Beach Resort, Terengganu

Asian-Pacific Aquaculture, Presenter, 05/08/2007 - 08/08/2007, Hanoi, Vietnam, Allometric growth of the Amphiprion ocellaris under laboratory-conditions.

Kursus Induksi (Modul Khusus dan Umum), Peserta, 09/06/2007 - 28/06/2007, Swiss Garden Resort, Kuantan & Resident Resort, Paka

Bengkel Pendidikan dan Multimedia, Peserta, 20/05/2007 - 27/05/2007, Universiti Malaysia Terengganu, UMT

Basic microscopy & maintenance course not involving \optical calibration\, Peserta, 16/05/2007 - 16/05/2007, Universiti Malaysia Terengganu, UMT

Bengkel Penyakit Ikan, AJK & Peserta, 16/04/2007 - 19/04/2007, Universiti Malaysia Terengganu, UMT

PROFFESIONAL DEVELOPMENT

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

Bengkel penilaian kertas cadangan penyelidikan FRGS dan Science Fund, 10/02/2009 - 10/02/2009, Terengganu Equastrian Resort (TER), Terengganu, UMT

INTERNSHIP SUPERVISION

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

STUDENT ADVISORY

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

, Marjorie Anak Charam, 01/11/2008 - Present

UK 13058, Siti Humaira bt. Haron, 01/07/2008 - Present

UK 13115, Tang Ping Yee, 01/07/2008 - Present

UK 14600, Nurul Liyana bt. Mohd. Ramly, 01/07/2008 - Present

UK 14442, Johnny Anak Ajang, 01/07/2008 - Present

UK 14409, Amirulizan bin Hamzah, 01/07/2008 - Present

UK 14096, Hamidah bt. Abdul Ghani, 01/07/2008 - Present

UK 13459, Syarifah Nor Syahirah bt. Syed Muhazani, 01/07/2008 - Present

UK 13025, Mohd. Redzuan bin Samsuri, 01/07/2008 - Present

UK 12994, Mohd. Ainul Shah bin Bachok, 01/07/2008 - Present

GSK 0473, Hua Thai Nhan, 01/12/2007 - Present

UK 11865, Noor Hafizul bin Wahab, 01/07/2007 - 08/05/2008

UK 11879, Bukhari Bin Othman, 01/07/2007 - 08/05/2008

OTHER CONTRIBUTIONS

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

Hatchery management, Lecturer/Researcher, 27 December 2006 - Present, National

Hatchery and laboratory design and set-up, Lecturer/Researcher, 01 May 2007 - Present, National