



**FACULTY OF ALLIED HEALTH SCIENCES
BURAPHA UNIVERSITY**



Name:

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Position:

Associate Professor

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Education:

Cert. Nursing and Public Health Nursing 1976-1979, Naval Medical Corp's School, Royal Thai Navy, Bangkok, Thailand.

B.Ed. Nursing Education, 1981-1982, Srinakarinwirot University (Prasanmitr), Bangkok, Thailand.

M.S. Physiology, 1984-1986, Chulalongkorn University, Bangkok, Thailand.

Ph.D. Anatomy, 1996-2000, Mahidol University, Bangkok, Thailand.

Teaching Experiences:

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| 317221: 4(3-3-6) Human Gross Anatomy I | Medical Science |
| 317222: 3(2-3-4) Human Gross Anatomy II | Medical Science |
| 317324: 4(3-3-6) Neuroanatomy | Medical Science |
| 317325: 4(3-3-6) Microanatomy | Medical Science |
| 317423: 4(3-3-6) Developmental Anatomy | Medical Science |
| 317101: 2(2-0-4) Principle of Human Anatomy | Public Health, Sport Science and Physical Education |
| 317102: 1(0-3-2) Principle of Human Anatomy lab. | Sport Science |
| 317103: 3(2-3-4) Human Anatomy | Nursing Science |
| 317204: 4(3-3-6) Human Anatomy | Traditional Medicine |
| 106542: 3(3-0-6) Pathophysiology and | Graduated Program in Psychaitric Pharmacology for Advance Nursing Practice Psychiatric Health Nursing |
| 309691: 2(2-0-4) Selected tropic in biological science: | Graduated Program in Biological Science. Neuroendocrine system of the Crustacea. |
| | Selected tropic in biological science: Graduated Program in Marine Science Engineering Neuroendocrine system of the Crustacea. |

Academic Appointments:

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| 1983-1984 | Lecturer in Anatomy and Physiology at Swanprachaluk Nursing College, Nakornswan. |
| 1987 | Research Assistant at Department of Medicinal Plant Pharmacokinetics, National Institute of Health, Department of Medical Science, Ministry of Public Health, Thailand. |

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| 1987-1992 | Lecturer in Anatomy and Physiology at Chonburi Nursing College, Chonburi. |
| 1992-1996 | Lecturer in Anatomy at Faculty of Nursing, Burapha University. |
| 1996-1997 | Assistant Professor in Physiology, Burapha University. |
| 1998-2009 | Assistant Professor in Physiology at Department of Medical Science, Faculty of Science, Burapha University. |
| 2009-Present | Assistant Professor in Physiology at Department of Biomedical Sciences, Faculty of Allied Health Sciences, Burapha University. |

Administrative Experiences:

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| 1987-1992 | Editor, Journal of Chonburi Nursing College |
| 1989-1992 | Head of Students Affair, Chonburi Nursing College. |
| 1993-1996 | Editor, Journal of Nursing Science, Burapha University. |
| 1995-1996 | Deputy Dean, Faculty of Nursing, Burapha University. |
| 2001-2002 | Head, Department of Medical Science, Faculty of Science, Burapha University. |
| 2006-2007 | Deputy Dean, Faculty of Medicine, Burapha University. |
| 2009-2010 | Chair for Administrative affairs, Faculty of Allied Health Sciences, Burapha University. |
| 2010-Present | Dean, Faculty of Allied Health Sciences, Burapha University. |

Text Books:

Human Anatomy and Physiology I, 1996, Faculty of Nursing, 150 pp
 Hormonal Physiology, 1996, Faculty of Nursing, 170 pp
 Human Anatomy, 2006, Faculty of Science, 560 pp
 Systemic Macro and Microscopic Anatomy of the Endocrine System, 2007, Faculty of Science. 145 pp.

Academic Media:

CAI: Human Gross Anatomy: Pectoral and Axilla regions 2546
 CAI: Gross Anatomy: Head I 2547
 CAI: Gross Anatomy: Head II 2548

CAI : Gross Anatomy: Head III 2549

CAI : Gross Anatomy: Head IV 2550.

Research Grants:

1. The Staff Development Fund, Ministry of Higher Education (1996-1998)
2. The Faculty Research Fund, Faculty of Science, Burapha University (2004-2005)
3. The Commission on Higher Education (CHE) and Thailand Research Fund (TRF) Postdoctoral Fellows (2003-2005)
4. The Thailand Research Fund to the Senior Research scholars (2005-2007)
5. The Commission on Higher Education Research Fund (2007-2009)
6. The Thailand Research Fund Advance Research Scholars (2007-2009)

Publications:

1. Kanokpan Wongprasert, Kornika Khanibdee, Supatra Somapa Glanukarn, **Prasert Meeratana** and Boonsirm Withyachumnarnkul. Time-course and levels of apoptosis in various tissues of black tiger shrimp *Penaeus monodon* infected with white-spot syndrome virus. Dis Aquat Org, 2003; 55:3-10.
2. Supattra Somapa Klannukarn, Kanokpan Wongprasert, Kornnika Khanobdee, **Pasert Meeratana**, Pattira Taweepreda and Boonsirm Withyachumnarnkul. Vibrio Bacterin and Carboxymethyl β -1,3-Glucans Protect *Penaeus monodon* from *Vibrio harveyi* Infection. Journal of Aquatic Animal Health 2004;16:238–245.
3. **Prasert Meeratana**, Boonsirm Withyachumnarnkul, Praneet Damrongphol, Kanokphan Wongprasert, Anchalee Seuseangthum and Prasert Sobhon. Serotonin induces ovarian maturation in giant freshwater prawn broodstock, *Macrobrachium rosenbergii* de Man. Aquaculture. 2006, 260 (1-4), 315-325.
4. **Prasert Meeratana** and Prasert Sobhon, Classification of Differentiating Oocytes during Ovarian Cycle in the Giant Freshwater Prawn, *Macrobrachium rosenbergii* de Man. Aquaculture. 2007, 270; 245-257.

5. **Prasert Meeratana**. Review: **Neuroendocrine system of the crustacea**. Burapha Science Journal. 2008, 13(2), 83-98.
6. Piyada Ngernsoungnern, Apichart Ngernsoungnern, Wattana Weerachayanukul, **Prasert Meeratana**, Peter J. Hanna, Prasert Sobhon and Prapee Sretarugsa. Abalone egg-laying hormone induces rapid ovarian maturation and early spawning of the giant freshwater prawn, *Macrobrachium rosenbergii*. Aquaculture. 2009, 296,(1-2),143-149.
7. Tinikul, Yotsawan; Soonthornsumrith, Boworn; Phoungpetchara, Ittipon; **Meeratana, Prasert**; Poljaroen, Jaruan; Duangsuwan, Pornsawan; Soonklang, Nantawan; Mercier, A. Joffre; Sobhon, Prasert. Effects of serotonin, dopamine, octopamine, and spiperone on ovarian maturation and embryonic development in the giant freshwater prawn, *Macrobrachium rosenbergii* (De Man, 1879). *Crustaceana*, 2009, 82,(8), pp. 1007-1022.
8. Jaruan Poljaroen, Yotsawan Tinikul, Ittipon Phoungpetchara, Wilairat Kankoun, Saowaros Suwansa-ard, Tanapan Siangcham, **Prasert Meeratana**, Scott F. Cummins, Prapee Sretarugsa, Peter J. Hanna, Prasert Sobhon. The effects of biogenic amines, gonadotropin-releasing hormones and corazonin on spermatogenesis in sexually mature small giant freshwater prawns, *Macrobrachium rosenbergii* (De Man, 1879). Aquaculture, 2011, 321, 1–2,(16), pp. 121–129.
9. Nantawan Soonklang, Chaitip Wanichanon, Michael J. Stewart, Praphaporn Stewart, **Prasert Meeratana**, Peter J. Hanna, Prasert Sobhon. Ultrastructure of differentiating oocytes and vitellogenesis in the giant freshwater prawn, *Macrobrachium rosenbergii* (de man). Microscopy Research and Technique, 2012, 75(10), pp. 1402–1415.

Abstracts/Proceedings

1. **Prasert Meeratana** and Narongsak Chaiyabutr. Effects of Russell's viper venom on renal handling of the inorganic phosphate in mongrel dogs. Poster presentation on the First Congress of the Asian and Oceania Physiological Societies, Physiological Society of Thailand, Bangkok, Thailand, 1987.
2. Krijak Boonchuen, Watchara Wongkerdsuk, Kun, Kanokpan Wongprasert, Boonsirm Withyachumnarnkul and **Prasert Meeratana**. Morphological studies and classification of

- cells in the lymphoid organ of giant black tiger prawn, *Penaeus monodon* Fabricius, 1798. Proceedings of the 30th Congress on Science and Technology of Thailand. 2004.
3. **Prasert Meeratana** and Prasert Sobhon. Histology and ultrastructure of differentiating oocytes during ovarian cycle of giant freshwater prawn, *Macrobrachium rosenbergii* de Man. Proceedings of the Annual NRCT Meeting of Thailand. 2005.
 4. **Prasert Meeratana** and Prasert Sobhon. Histological and 5HT-immunohistochemical studies on differentiating oocytes during ovarian cycle in giant freshwater prawn broodstock, *Macrobrachium rosenbergii* de Man. Proceedings of the Annual Meeting of TRF Young and Senior Researchers, The TRF scholars, Petchaburi, Thailand. 2005.
 5. **Prasert Meeratana** and Prasert Sobhon. Possible mechanism of serotonin induces ovarian maturation in giant freshwater prawn broodstock, *Macrobrachium rosenbergii* de Man. Proceedings of the 31st Congress on Science and Technology of Thailand, The Science Society of Thailand, Nakornratchasima, Thailand, 2005.
 6. **Prasert Meeratana** and Prasert Sobhon. Classification of differentiating oocytes and ovarian cycle in the giant freshwater prawn, *Macrobrachium rosenbergii* de Man, and the effect of serotonin in oocyte maturation. Oral presentation. Annual meeting of TRF Senior Scholar Group on "Control of reproductive process in an abalone, *Haliotis asinina*, a prawn, *Macrobrachium rosenbergii*, and a shrimp, *Penaeus monodon*. Bangkok, Thailand, 2005.
 7. **Prasert Meeratana**, Boonsirm Withyachumnarnkul, Praneet Damrongphol, Kanokphan Wongprasert, Anchalee Seuseangthum and Prasert Sobhon. Serotonin induces ovarian maturation in giant freshwater prawn broodstock, *Macrobrachium rosenbergii* de Man. Proceedings of the Annual meeting of TRF Senior Scholar Group on "Control of reproductive process in an abalone, *Haliotis asinina*, a prawn, *Macrobrachium rosenbergii*, and a shrimp, *Penaeus monodon*. Bangkok, Thailand, 2006.
 8. Kanokwan Kutrakul, **Prasert Meeratana** and Wirot Arunnoparat. Study the combine effects of male Spadix, *Borassus flabellifer*, and *Coccinia grandis* voigt rhizome on the level of blood glucose in diabetic rat. Full paper report to the Faculty Research Funds, 2547-2548. Faculty of Science, Burapha University. 2005.
 9. **Prasert Meeratana** and Prasert Sobhon. Study the ultrastructure of oocytes and

- determination of serotonin immunoreactive cells during ovarian cycle in giant freshwater prawn, *Macrobrachium rosenbergii* de Man. Final report on TRF Young Researchers Scholar. 2005.
10. Apichart Ngermsoungnern, Piyada Ngermsoungnern, Kri Meemon, Wattana Weerachatanukul, Boonsirm Withyachumnarnkul, **Prasert Meeratana**, Peter J. Hana, Prapee Sretarugsa and Prasert Sobhon,. Existence of egg-laying hormone in nervous tissue of giant freshwater prawn, *Macrobrachium rosenbergii*. Proceedings of the 5th Intercongress Symposium of AOSCE. “Comparative endocrinology and biodiversity in Asia and Oceania.” The Pathumwan Princess Hotel, Bangkok, Thailand. February, 2006.
 11. Sawipa Ruttanakorn, **Prasert S. Meeratana** and Kasame Chetawan. Possible use of *Streptocephalus* sp. as live feed for *Macrobrachium rosenbergii* broodstocks. Poster presentation on Symposium of the TRF senior researchers and CHE researchers groups. “Control of Reproductive Process in Abalone, Prawn and crab.” Mahidol University, Bangkok, Thailand. February, 2008.
 12. Yotsawam Tinikul, A. Joffre Mercier, Boworn Soonthornsumrith, Ittipon Phongpetchara, Jaruwan Poljareon, **Prasert Meeratana**, Pornsawan Duangsuwan, Nantawan Soonklang and Prasert Sobhon. Levels of serotonin and dopamine in the central nervous system and ovary, and their effects on ovarian maturation and embryo development in the giant freshwater prawn, *Macrobrachium rosenbergii*. Oral presentation on Symposium of the TRF senior researchers and CHE researchers groups. “Control of Reproductive Process in Abalone, Prawn and crab.” Mahidol University, Bangkok, Thailand. 17 March, 2008.
 13. Sawipa Ruttanakorn, **Prasert Meeratana**, Kasame Chatawan, Peter Hanna, Apichart Suksamran, Sangdoune Naksuwon, Sasivimol Pitipornchai, Prasert Sobhon. Hormonal Induction of Ovarian Development, Sex Differentiation and Molting of the Giant Freshwater Prawn, *Macrobrachium rosenbergii*. Proceedings of the Anatomy Association of Thailand, 32nd Anatomy Association of Thailand Annual Meeting, 29 April-1 May, 2009.
 14. Yotsawan Tinikul, A. Joffre Mercier, Boworn Soonthornsumrith, Ittipon Phoungpetchara, Jaruwan Poljareona, **Prasert Meeratana**, Pornsawan Duangsuwan, Nantawan Soonklang, Prasert Sobhon Levels of Serotonin and Dopamine in the Central Nervous System and

- Ovary, and Their Effects on Ovarian Maturation and Embryo Development in the Giant Freshwater Prawn, *Macrobrachium rosenbergii* Proceedings of the Anatomy Association of Thailand, 32nd Anatomy Association of Thailand Annual Meeting, 29 April-1 May, 2009.
15. Piyada Ngernsoungnern, Apichart Ngernsoungnern, Wattana Weerachayanukul, **Prasert Meeratana**, Peter J. Hana, Prasert Sobhon, and Prapee Sretarugsa. Distribution of abalone egg-laying hormone in ovary and its role on spawning in the *Macrobrachium rosenbergii*. Proceedings of the Anatomy Association of Thailand, 32nd Anatomy Association of Thailand Annual Meeting, 29 April-1 May, 2009.
 16. Nantwan Soonklang, Praphaporn Stewart, Michael J. Stewart, **Prasert Meeratana**, Chaitip Wanichanon and Prasert Sobhon. Ultrastructure of differentiating oocytes in the giant freshwater prawn, *Macrobrachium rosenbergii*. Proceedings of the Anatomy Association of Thailand, 32nd Anatomy Association of Thailand Annual Meeting, 29 April-1 May, 2009.
 17. **Prasert Meeratana**, Sawipa Ruttanakorn, Kanokphan Wongprasert, Sangdoune Naksuwon, Sasivimol Pitipornchai and Prasert Sobhon. Effects of serotonin and methyl farnesoate on fecundity and offspring sex differentiation in the giant freshwater prawn, *Macrobrachium rosenbergii* de Man. Proceedings of the Annual Meeting of TRF Young and Senior Researchers, The TRF scholars, Petchaburi, Thailand. 15-17 Oct. 2009.
 18. Jaruwan Poljaroen, Yodsawan Tinikul, Itipon Phoungpetchara, Wilairat Kankoun, Saowaros Suwansa-ard, Tanapan Siangcham, Tipsuda Tongbuakaew, Tanapong Kruuagkum, Chanudporn Sumpownon, Thanyaporn Senar4ai, Prasert Meeratana, Scott F. Cummins, Peter J. Hanna, Prasert Sobhon. The effects of serotonin, dopamine, gonadotropin releasing hormones and corazonin on testicular development and spermatogenesis in the giant freshwater prawn, *Macrobrachium rosenbergii*. Oral presentation on Symposium of the CHE-TRF excellence professor researchers groups. "Hormonal control of the crustacean reproduction, and possible application in aquaculture." Mahidol University, Bangkok, Thailand. 17 March, 2010.
 19. Ittipon Phongpetchara, Yodsawan Tinikul, Jaruwan Poljaroen, Jaroonroj Chotwiwatthanakun, Panat Anuracpreeda, Morakot Sroyraya, Prasert Meeratana, Peter J. Hanna, Prasert Sobhon. Analysis of the insulin-like androgenic gland hormones in the giant freshwater prawn,

Macrobrachium rosenbergii. Oral presentation on Symposium of the CHE-TRF excellence professor researchers groups. “Hormonal control of the crustacean reproduction, and possible application in aquaculture.” Mahidol University, Bangkok, Thailand. 17 March, 2010.

20. Sawipa Ruttanakorn, **Prasert Meeratana**, Kasame Chatawan, Peter Hanna, Apichart Suksamran, Prasert Sobhon. Induction of ovarian development, sex differentiation and molting, of the giant freshwater prawn, *Macrobrachium rosenbergii* by serotonin, methylfarnesoate, and phytoecdysone. Poster presentation on Symposium of the CHE-TRF excellence professor researchers groups. “Hormonal control of the crustacean reproduction, and possible application in aquaculture.” Mahidol University, Bangkok, Thailand. 17 March, 2012.

Research Interests:

Reproductive biology and neuroendocrinology of the crustaceans; emphasizes on the giant freshwater prawn, *Macrobrachium rosenbergii* de Man.

เลขที่บัตรประชาชน 3-1020-0015x-xx-x