

## **CURRICULUM VITAE**

**Name** Ms. Manita Motham

**Date of Birth:**

September 04, 1982

**Education**

B.Sc. (Applied Biology) Sakon Nakhon Rajabhat University, 2005

Diploma (Teaching) Sukhothai Thammathirat Open University, 2005

M.Sc. (Biology) Chiang Mai University, 2009

Ph.D. (Applied Microbiology) Chiang Mai University, 2013

**Employment 2005- present**

Assistant Researcher

Applied Algal Research Laboratory, Department of Biology, Faculty of  
Science, Chiang Mai University

**Field of Specialization**

- Cultivation of microalgae
- Molecular biology of cyanobacteria
- Preservation of algae and cyanobacteria
- Water quality using phytoplankton as biological indicator
- Polysaccharide from algae and using as prebiotic

### Publications

1. **Motham, M.**, Pumas, C. and Peerapornpisal, Y. 2013. Improvement of DNA extraction protocols for *Nostochopsis* spp. Chiang Mai Journal of Science, (*in press*)
2. **Motham, M.**, Pekkoh, J. and Peerapornpisal, Y. 2013. Edible cyanobacteria (*Nostochopsis* spp.) from glass house, Queen Sirikit Botanical Garden, Thailand. Advance Journal of Food Science and Technology, (*in press*).
3. **Motham, M.**, Peerapornpisal, Y., Tongsriri, S., Pumas C. and Vacharapiyasophon, P. 2012. High subzero temperature preservation of *Spirulina platensis* (*Arthrospira fusiformis*) and its ultrastructure . Chiang Mai Journal of Science, 39(4): 554-561.
4. Sorrachat, T., **Motham, M.**, Pekkoh, J., Mungmai, L. and Peerapornpisal, Y. 2011. *Nostochopsis lobatus* Wood em. Geitler (Nostocales), Edible Algae in Northern Thailand. Chiang Mai Journal of Science, 39(1): 001-9.

### Proceedings

1. **Motham, M.**, Khanongnuch, C., Phatom-aree, W., Pekkoh, J., Pumas, C. and Peerapornpisal, Y. 2012. Polysaccharide from *Nostochopsis lobata* Wood ex Bornet et Flahault in the Northern Thailand and Its Cultivation. Proceeding of International Conference on Food and Applied Bioscience, Chiang Mai, 9-14.
2. **Motham, M.** and Peerapornpisal, Y. 2012. Edible Cyanobacteria form Queen Sirikit Botanical Garden. Proceeding of the 29<sup>th</sup> Annual Conference of the Microscopy Society of Thailand, 30 January – 1 February 2012, 76-77.

3. **Motham, M.**, Vacharapiyasophon, P. and Peerapornpisal, Y. 2009. Cryopreservation of *Spirulina platensis*. Journal of Fisheries Technology Research, 3(1): 104-114.

### **Abstracts**

1. **Motham, M.** and Peerapornpisal, Y. 2013. Polyphasic Taxonomy of *Nostochopsis* spp. (Nostocales, Cyanobacteria) from Northern Thailand. Abstract in the 19<sup>th</sup> Symposium of the International Association for Cyanophyte Research (IAC2013). 28 - 2 August 2013. Cleveland, USA.
2. **Motham, M.**, Pekkoh, J. and Peerapornpisal, Y. 2013. Colonial Growth of Cyanobacteria Lon (*Nostochopsis* spp.) at Queen Sirikit Botanic Garden, Chiang Mai Province. Abstract in the 6th National Conference on Algae and Plankton (NCAP2013). 28 - 30 March 2013. Chiang Mai, Thailand.
3. **Motham, M.** and Peerapornpisal, Y. 2012. *Nostochopsis* spp.: Edible Cyanobacteria from Queen Sirikit Botanical Garden. Abstract in the 29<sup>th</sup> Annual Conference of the Microscopy Society of Thailand, 30 January – 1 February 2012. Cha-Am, Thailand.
4. **Motham, M.**, Khanongnuch, C. and Peerapornpisal, Y. 2011. Some ecology, pigments and nutritional value of Lon, *Nostochopsis lobatus* Wood em Guitler. 2011. The 5<sup>th</sup> National Conference on Algae and Plankton, 16-18 March 2011, Songkhla Province, Thailand.
5. **Motham, M.**, Peerapornpisal, Y. and Vacharapiyasophon, P. 2009. Cryopreservation of *Spirulina platensis*. The 9<sup>th</sup> International Phycological Congress. 2-8 August 2009. Tokyo, Japan.

6. **Motham, M.**, Peerapornpisal, Y. and Vacharapiyasophon, P. 2009. Water Quality of Ang Kaew Reservoir, Chiang Mai University by Bioindicator during November 2008 to March 2009. The 4<sup>th</sup> National Conference on Algae and Plankton, 25-27 March 2009, Khon Kaen, Thailand.
7. **Motham, M.**, Vacharapiyasophon, P. and Peerapornpisal, Y. 2008. Cryopreservation of *Spirulina platensis*. The 3<sup>rd</sup> Fisheries and Aquatic Resources for Security and Stability, Mae Jo University, 8-9 December 2008, Chiang Mai, Thailand.
8. **Motham, M.**, Suphan, S., Chatchawan, T. and Peerapornpisal, Y. 2007. Diversity of Macroalgae in Royal Flora Ratchaphruek 2006 Area. The 3<sup>rd</sup> National Conference on Algae and Plankton. Chulalongkorn University, 21-23 March 2007. Bangkok, Thailand.
9. Chatchawan, T., Budtara, J., Saisin, S., Yana, A., **Motham, M.**, and Peerapornpisal, Y. 2007. The Study on Water Quality in some Ponds in Royal Flora Ratchaphruek 2006 Area. The 3<sup>rd</sup> National Conference on Algae and Plankton. Chulalongkorn University, 21-23 March 2007. Bangkok, Thailand.
10. Tongsir, S., **Motham, M.**, Pekkoh J. and Peerapornpisal, Y. 2007. Isolation and Culture Collection of Algae from Northern Thailand. The 3<sup>rd</sup> National Conference on Algae and Plankton. Chulalongkorn University, March 21-23, 2007. Bangkok, Thailand.
11. Tongsir, S., Peerapornpisal, Y., Sompong, U., Pekkoh, J., Mungmai, R. and **Motham, M.** 2005. Algal Culture Collection in the Northern part of Thailand. The 4<sup>th</sup> Asian-Pacific Phycological Forum, Rama Garden, 30 October – 4 November, 2005. Bangkok, Thailand.

**Oral Presentation**

1. **Motham, M.**, Khanongnuch, C. Phatom-aree, W. Pekkoh, J. Pumas, C. and Peerapornpisal, Y. 2012. Polysaccharide from *Nostochopsis lobata* Wood ex Bornet et Flahault in the Northern Thailand and Its Cultivation. Proceeding of International Conference on Food and Applied Bioscience, 6-7 February 2012. Chiang Mai, Thailand
2. **Motham, M.**, P. Vacharapiyasophon and Y. Peerapornpisal. 2008. Cryopreservation of *Spirulina platensis*. The 3rd Fisheries and Aquatic Resources for Security and Stability Mae Jo University, 8-9 December 2008, Chiang Mai, Thailand.

**Staff**

1. 19 June 2012 “*Spirogyra*: Resources of Phae district: Ecology of *Spirogyra* and cosmetic production” at Ban Na Khun Ha School, Phae.
2. 29 May 2012 “Using algae and insect for investigation of water quality” Navamindarajudis Payap School, Chiang Mai.
3. 5 September 2012 “Assessment of water quality by using bioindicator: Algae and Aquatic Insect” at Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai.
4. 18-22 April 2005 “Technique on cultivation of microalgae” at Rajabhat Phuket University, Phuket.
5. 31 July – 1 August 2008 “River, creek, canal: bioindicator water quality and application” at Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai.

6. 30 April 2009 “Technology of natural spa product and *Spirulina*” at Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai.
7. 23 – 25 March 2005 “2<sup>nd</sup> National Conference on Algae and Plankton”. Holiday Garden Hotel, Chiang Mai.

### **Workshop and Training**

1. 27-29 February 2012 “ Nano Technology for Bioscience” at Faculty of Science, Chiang Mai University, Chiang Mai.
2. 17-27 May 2011 “ Teacher assistance: TA) ”at Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai.
3. 21-29 July 2008 “The international training course on benthic diatoms as biomonitors to assess the water quality in the lower Mekong basin” at Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai.
4. 3-5 November 2008 “Mass cultivation of microalgae” at King Mongkut's University of Technology Thonburi, Bangkok.
5. 22-26 May 2007 “Use of macroalgae and benthic diatoms as bioindicators to monitor water quality in the Mekong region” at Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai.
6. 27 – 31 March 2006 “Technique on cultivation of microalgae” Aquatic Resources Research Institute, Chulalongkorn University, Chonburi.

### **Funding**

1. Graduated, Office of National Research Council of Thailand
2. The King Prajadhipok and Queen Rambhai Barni Memorial Foundation