

WARANGAKANA NAKSEN

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CURRENT POSITION

Faculty of Public Health Chiang Mai University, Thailand
Lecturer 2018-present

EDUCATION

Ph.D. (Environment Science) 2009-2015
Faculty of Science, Chiang Mai University, Thailand

M.S. (Biochemistry) 2004-2008
Faculty of Science, Kasetsart University, Thailand

B.S., Hons (Biochemistry and Biochemical Technology) 2000-2004
Faculty of Science, Chiang Mai University, Thailand

WORK EXPERIENCES

Institute of Urban Environment, Chinese Academy of Sciences, China 2017-2018
Postdoctoral Fellow

Research Institute for Health Sciences, Chiang Mai University, Thailand 2009-2017
Post-doc fellow, Scientist, Research Assistant and Coordinator

- Early pesticide exposure and neurodevelopmental outcomes in a Thai birth cohort
Funded by US National Institute for Health, R21 (PI: P. Barry Ryan, Emory University, GA)
 - Managed and conducted the projects on prenatal exposure to pesticides and newborn's birth outcomes in agricultural community in Fang District, Chiang Mai, Thailand
 - Coordinated and administered research study of the project
 - Administered subject interviews and collected biological samples in research fields
 - Developed the methods for detecting organophosphate pesticides in human plasma and breastmilk samples using gas chromatography
 - Prepared and written reports and manuscripts
- The studies of air pollution and health in Northern Thailand
For example A study of environmental risk factors for lung cancer in Northern Thailand; Assessment of health impact from exposure to airborne particulates in upper northern Thailand; etc.
(PI: Dr. Tippawan Prapamontol, Chiang Mai University, Thailand)
 - Analyzed the biomarkers of exposure to air pollutants in human biological samples using gas and liquid chromatography
 - Performed and supervised personnel in interview, environmental and biological sampling and laboratory analysis
 - Developed the community communications strategy for reporting exposure data and implementation

National Center for Genetic Engineering and Biotechnology, 2008-2009
National Science and Technology Development Agency, Thailand
Research Assistant

Molecular study of Plasmodium serine hydroxymethyltransferase as a potential anti-malarial target

- Performed cell culture, protein expression and purification and crystallization
- Prepared data and written reports summarizing research results

GRANTS AND AWARDS

Postdoctoral Fellowships <i>Institute of Urban Environment, Chinese Academy of Sciences</i> <i>"A study of urinary metabolomic profiles in COPD patients during smoke haze pollution in northern Thailand"</i> <i>Under-supervision of Prof. Heqing Shen</i>	2017
Young Researcher Travel Award 2016 <i>International Society for Environmental Epidemiology and International Society of Exposure Science (ISEE-ISES) - Asia Chapter Conference 2016</i>	
Best Oral Presentation Award (in English) <i>Royal Golden Jubilee Meeting 2016</i>	2016
Royal Golden Jubilee (RGJ) PhD Grants <i>Thailand Research Fund</i>	2009
Dr. Tab Nilanithi Distinguished Academic Achievement Award <i>Dr. Tab Nilanithi Foundation, Thailand</i>	2008
Master Research Grants <i>Thailand Research Fund</i>	2006

PUBLICATIONS

1. **Naksen, W.**, K. Sutan, T. Prapamontol. 2017. A simple high-performance liquid chromatography coupled to fluorescence detection method using column-switching technique for measuring urinary 1-hydroxypyrene from environmental exposure. *Chiang Mai Journal of Science*. 44 (4). 1441-1452.
2. **Naksen, W.**, S. Kawichai, N. Srinual, W. Salrasee, T. Prapamontol. 2017. First evidence of high urinary 1-hydroxypyrene level among rural school children during smoke haze episode in Chiang Mai Province, Thailand. *Atmos. Pollut. Res.* 8 (3): 418-427. (IF 1.401)
3. **Naksen, W.**, T. Prapamontol, A. Mangklabruks, S. Chantara, P. Thavornyutikarn, M. G. Robson, P. B. Ryan, D. Barr, P. Panuwet. 2016. A single method for detecting 11 organophosphate pesticides in human plasma and breastmilk using GC-FPD. *J Chrom B.* 102: 92-104. (IF 2.678)
4. Walter, G.A., P. Panuwet, T. Prapamontol, **W. Naksen**, P.B. Ryan, A. Riederer, D.B. Barr. 2016. Thai mothers working in agriculture: Effects of heavy metal exposure on endocrine-related hormones in the neonates. *Environmental Health Disparities: Costs and Benefits of Breaking the Cycle*, pp. 85-93.
5. **Naksen, W.**, T. Prapamontol, A. Mangklabruks, S. Chantara, P. Thavornyutikarn, N. Srinual, P. Panuwet, P. Barry Ryan, A.M. Riederer, D.B. Barr. 2015. Associations of maternal organophosphate pesticide exposure and PON1 activity with birth outcomes in SAWASDEE birth cohort, Thailand. *Environ Res.* 142: 288-296. (IF 3.088)
6. **Naksen, W.**, T. Prapamontol, A. Mangklabruks, S. Chantrara, P. Thavornyutikarn. 2014. Health Risk from Pesticide Exposure among Infants of Breastfeeding Farm workers in an Agricultural Area of Chiang Mai Province, Thailand. *Advances in Environmental Biology* 8(15): 213-218.
7. Hongsibsong, S., W. Polyiem, **W. Naksen**, T. Kerdnoi and T. Prapamontol. 2014. Determination of Nitrate in the Edible Part of Vegetables from Markets Around Chiang Mai City, Northern Thailand by using High Performance Liquid Chromatography. *Asian Journal of Agricultural Research* 8 (4): 204-210

ABROAD EXPERIENCE

Institute of Urban Environment, Chinese Academy of Sciences - Postdoctoral research <i>"A study of urinary metabolomic profiles in COPD patients during smoke haze pollution in northern Thailand"</i>	May 2017-April 2018
Rollins School of Public Health, Emory University, GA, USA - Training on gas chromatography tandem mass spectrometry technique - Preparing manuscript	May-Oct 2014

TEACHING EXPERIENCE

Guest speaker 2016-2017

- Taught in the Topic “A role of epidemiological study in occupational and environmental diseases: pesticides” for Toxicology course, Faculty of Medicine, Chiang Mai University.
- Taught in the Topic “Smoke haze and health in Northern Thailand” Chiang Mai Provincial Public Health Office

Teaching assistant 2005-2006

- Biochemistry laboratory

SELECTED PRESENTATIONS

- Poster presentations
 - “An Evidence of High Exposure to Polycyclic Aromatic Hydrocarbons among Rural School Children During Smog Episode in Northern Thailand”
International Society for Environmental Epidemiology and International Society of Exposure Science (ISEE-ISES) - Asia Chapter Conference 2016 at Hokkaido University, Sapporo, Japan. (26 – 29 June 2016)
 - “The inhibition of maternal acetylcholinesterase activity and birth outcomes among agricultural community in Thailand”
International Society of Exposure Science (ISES) Conference 2014 at Cincinnati, Ohio, USA (12-16 Oct 2014)
- Oral presentation
 - Outstanding Oral Presentation Award (in English) , “Maternal exposure to organophosphate insecticides during pregnancy associated with low birth weight and head circumference in newborn in SAWASDEE birth cohort, Thailand”
Royal Golden Jubilee Meeting 2016, Chiang Mai, Thailand (28-29 Apr 2016)
 - “Health risk from pesticide exposure among infants of breastfeeding farmworkers in an agricultural area of Chiang Mai province, Thailand”
International conference of environmental and occupational health (ICEOH) 2014 at Putrajaya, Malaysia (7-9 Apr 2014)

ONGOING RESEARCHES

Researcher 2015-2018

CMU 6292(11)/2083/2015 (Tippawan Prapamontol, PI)
Chiang Mai University Fund
“A study of environmental risk factors for lung cancer in Northern Thailand”

Researcher 2016-2018

NRCT 0080/4062 (Tippawan Prapamontol, PI)
National Research Council of Thailand
“Patterns and factors of exposure to air pollutants among urban population in 4 provinces of upper northern Thailand”

Researcher/ Project coordinator 2017-2021

NIH/NIEHS R01 (Dana Boyd Barr/ Nancy Fiedler, PIs;
Tippawan Prapamontol, Site PI)
“Impact of prenatal insecticide exposure on neurodevelopmental trajectories in a Thai birth cohort”

