



Lect Dr. San Suwanmanee

Address : Department of Epidemiology 420/1 Ratchawithi Road.,
Thung Phaya Thai, Ratchawithi, Bangkok 10400 Thailand
Telephone /Fax : 0-2354-8562
E-mail: san.sua@mahidol.ac.th

Education :

B.P.H., Public Health (1st class honor), Mae Fah Luang University, Thailand
Ph.D., Tropical Medicine (International program), Mahidol University, Thailand
Postdoctoral Fellow, Johns Hopkins Bloomberg School of Public Health,
United States of America

Academic position :

Lecturer

FIELD OF SPECIALIZATION/ EXPERTISE :

- Medical Virology and Immunoepidemiology
- Infectious Epidemiology
- Clinical research
- Public Health

HONORS, AWARD, AND METALS RECEIVED :

- The Scholarship in Commemoration of Her Royal Highness Princess Chulabhorn's 60th Birthday Anniversary, HRH Princess Chulabhorn College of Medical Science, Chulabhorn Royal Academy, 2020
- Scholarship for PhD study from Thai Research Fund through Thai Royal Golden Jubilee PhD program, 2014-2018
- Research grant of Jeunes Equipes Associées à l'IRD program, Institut de recherche pour le développement, Montpellier, France 2016-2019
- Thailand One Health University Network (THOHUN-USAID) 2016-2017
- A finalist of Young Scientist Award 2015
- Outstanding contribution to Student Affairs and Special Activities 2015
- First class honor in Public Health Student 2014

Research :

2026	Laemun N.Kaewboonchoo O. Suwanmanee S.Limpanont Y.Kawai T.Premmanee J.Boonthavivudhi S.Choojit C.Siriruttanapruk S.Kliengchuay W.Choi K.Panuwet P.Tantrakarnapa K._Phthalate concentrations in house dust, their associations with household characteristics, and spatial distribution across rural and urban areas in southern Thailand. Atmospheric Environment ,2026:373: 121936
	Aunchulee Neungaud, Wisit Chaveepojnkamjorn , Pratana Satitvipawee, San Suwanmanee . ปัจจัยเสี่ยงที่มีความสัมพันธ์ต่อการพลัดตกหกล้มของผู้สูงอายุในจังหวัดอุบลราชธานี. Risk Factors Associated with Falls Among THE Elderly in Ubon Ratchathani Province. Journal of Council of Community Public Health 2025; 7(3):1-21
2525	Nuttapong Laemun, Wissanupong Kliengchuay, Wechapraan Srimanus, Sarima Niampradit, Htoo Wai Aung, Yanin Limpanont, Nuttapohn Kiangkoo, Rachaneekorn Mingkwan, Pussadee Laor, Walaiporn Phonphan, Talisa Niemmanee, San Suwanmanee , Kraichat Tantrakarnapa. Assessing the Health Risks of Annual Concentrations of Volatile Organic Compounds (VOCs) in Thailand_Public Health of Indonesia.2025;11(2) :32-42
	Thanakit Sathapornwajana, Siwarak Kitchanapaiboon, Phitsanuruk Kanthawee, San Suwanmanee . FACTORS ASSOCIATED WITH ACCESS TO HEALTH SERVICESAMONG MIGRANT WORKERS, MAE SAI DISTRICT, CHIANGRAI PROVINCE. ปัจจัยที่มีความสัมพันธ์กับการ

	เข้ารับบริการด้านสุขภาพของกลุ่มแรงงานข้ามชาติอำเภอแม่สาย จังหวัดเชียงราย Chiangrai Medical Journal.2025;(1)1759-74
	Wissanupong Kliengchuay, Sarima Niampradit, Narut Sahanavin, William Mueller, Susanne Steinle, Miranda Loh, Helinor Jane Johnston, Sotiris Vardoulakis, San Suwanmanee , Walaiporn Phonphan, John W. Cherrie, Kraichat Tantrakarnapa. Seasonal analysis of indoor and outdoor ratios of PM2.5 and PM10 in Bangkok and Chiang Mai: A comparative study of haze and non-haze episodes. <i>Heliyon</i> 2025;11(3) e42261
	Wissanupong Kliengchuay, Bo Wen , Thant Sin Aye ,Htoo Wei Aung , San Suwanmanee , Benjawan Tawatsupa , Pussadee Laor , Jira Kongpran ,Jantana Wongsantichon, Rongbin Xu , Shanshan Li , Masahiro Hashizume , Yuming Guo ,Kraichat Tantrakarnapa. Effect modification of fine particulate matter (PM2.5) related hospital admissions by temperature in Thailand: A nationwide time-series study. <i>Environmental Research</i> 277 (2025) 121467
	Sawaeng Kawichai, Wissanupong Kliengchuay , Htoo Wai Aung ,Sarima Niampradit , Rachaneekorn Mingkhwan , Talisa Niemmanee , Wechapraan Srimanus, Walaiporn Phonphan , San Suwanmanee , Kraichat Tantrakarnapa. The Influence of Meteorological Conditions and Seasons on Surface Ozone in Chonburi, Thailand. <i>Toxics</i> 2025, 13, 226. https://doi.org/10.3390/toxics13030226
	Kliengchuay, Wissanuppong Suwanmanee , San ,Worakhunpiset, Suwalee Tawatsupa, Benjawan ;Laor, Pussadee; Siriratuengsuk, Weerayuth ;Kawichai, Sawaeng;Phosri, Arthit;Kingkaew, Sompok;Sahanavin, Narut; Kongpran, Jira ;Guo, Yuming Hashizume, Masahir, Tantrakarnapa, KraichatClimate change and its impact on environmental health: a narrative review of tropical countries. <i>Frontiers of Environmental Science and Engineering</i> .2025;19(5):59
2024	พิมพ์ดารา มีสุวรรณ, ณัฐนารี เอมยงค์, Jiraluck Nontarak , สันต์ สุวรรณมณี. Drowning Risk Among Children Aged 0-4 Years in Surin Province: Exploratory Research ความเสี่ยงจากการจมน้ำในกลุ่มเด็กอายุ 0-4 ปี ณ จังหวัดสุรินทร์ : การวิจัยขั้นสำรวจ. ว วารสารควบคุมโรค. 2024;50(4):678-687
	Potjaman Pumeesat, Laongdaw Nasom, Kornkanok Thongdee, Tawanwat Damnak, Tanaporn Sirikhetkorn, Paphichaya Unwong, Sopida Benjamat, San Suwanmanee ,

	Thanwa Wongsuk. Molecular identification and extracellular enzyme production of <i>Rhodotorula</i> spp. <i>Italian Journal of Mycology</i> 2024;53:147-159.
	Bo Wen, Wissanupong Kliengchuay, San Suwanmanee , Htoo Wai Aung, Narut Sahanavine Weerayut Siriratuengsuk, Sawaeng Kawichai, Benjawan Tawatsupa, Rongbin Xu, Shanshan Li, Yuming Guo, Kraichat Tantrakarnapa. Association of cause-specific hospital admissions with high and low temperatures in Thailand: a nationwide time series study. <i>The Lancet Regional Health -Western Pacific</i> 2024;46: 101058
	Wissanupong Kliengchuay , Rachaneekorn Mingkhwan , Nuttapohn Kiangkoo , San Suwanmanee , Narut Sahanavin , Jira Kongpran 5 Htoo Wai Aung . Kraichat Tantrakarnapa Analyzing temperature, humidity, and precipitation trends in six regions of Thailand using innovative trend analysis. <i>Scientific Reports</i> (2024) 14:7800 https://doi.org/10.1038/s41598-024-57980-5
	Takashi Yamano , Katkanit Thammakumpee, Chanudda Nabkasorn, Arisara Ritngam, Nisakorn Krungkraipetch, Lalita Kaewwilai, San Suwanmanee , Arthit Phosri, Orawan Kaewboonchoo, Shin Murakami, Rikuya Tanaka, Nanami Murata, Yosuke Katayama, Akira Taruya, Masahiro Takahata, Teruaki Wada, Shingo Ota, Keisuke Satogami, Yuichi Ozaki, Manabu Kashiwagi, Yasutsugu Shiono, Akio Kuroi, Takashi Tanimoto, Hironori Kitabata, Atsushi Tanaka. Impact of Climate on the Incidence of Acute Coronary Syndrome Differences Between Japan and Thailand . <i>Circulation Reports</i> 2024;6(4):134-141
2023	San Suwanmanee , Shristi Ghimire, Jerome Edwards, Diane E. Griffin. Infection of Pro- and Anti-Inflammatory Macrophages by Wild Type and Vaccine Strains of Measles Virus: NLRP3 Inflammasome Activation Independent of Virus Production. <i>Viruses</i> 2023;15,260.
	Nadine A. Peart Akindele, Laharika Dasharath Katamoni, Jacqueline Brockhurst, Shristi Ghimire, San Suwanmanee , Lisa Pieterse , Kelly A. Metcalf Pate, Elaine Bunyan , Roy Bannister , Tomas Cihlar , Danielle P. Porter, Diane E. Griffin. Effect of remdesivir post-exposure prophylaxis and treatment on pathogenesis of measles in rhesus macaques. <i>Scientific Reports</i> 2023; 13:6463
2022	Wissanupong Kliengchuay, Wechapraan Srimanus, Rachodbun Srimanus , Nuttapohn Kiangkoo, Kamontat Moonsri , Sarima Niampradit, San Suwanmanee , Kraichat Tantrakarnapa. The association of meteorological parameters

	andAirQ+health risk assessment of PM2.5 in Ratchaburi province, Thailand. Scientific Reports 2022 ;12:12971
	Akindele NP, Pieterse L, Suwanmanee S , Griffin DE. B cell responses in hospitalized SARS-CoV-2 infected children with and without multisystem inflammatory syndrome. The Journal of Infectious Diseases 2022. doi:10.1093/infdis/jiac119.
	Bartlett M*, Suwanmanee S*(co-first author) , Akindele NP, Ghimire S, Chan KP, Guo C, Gould SJ, Cox AL, Griffin DE. Continued Virus-Specific Antibody-Secreting Cell Production, Avidity Maturation and B Cell Evolution in Patients Hospitalized with COVID-19. Viral Immunology 2022. doi:10.1089/vim.2021.0191.
	Park H, Shapiro J, Sitaras I, Woldemeskel B, Garliss C, Dziedzic A, Sachitthanandham J, Jedlicka A, Caputo C, Rousseau K, Thakar M, Suwanmanee S , et al. Adaptive immune responses in vaccinated patients with symptomatic SARS-CoV-2 Alpha infection. The Journal of Clinical Investigation 2022. doi:10.1172/jci.insight.155944.
2021	Sukphopetch P, Suwanmanee S , Pumeesat P, Ampawong S. <i>In vitro</i> characterization of Chrysovirus-1 induced hypovirulence of <i>Bipolaris maydis</i> . Walailak Journal of Science and Technology. 2021. 18(3). 1-8.
2019	Suwanmanee S , Mahakunkijcharoen Y, Ampawong S, Leaungwutiwong P, Misse D, Luplertlop N. Inhibition of <i>N</i> -myristoyltransferase1 affects dengue virus replication. MicrobiologyOpen 2019. doi: 10.1002/mbo3.831.
	Singkum P, Muangkaew W, Suwanmanee S , Pumeesat P, Luplertlop N. Suppression of the pathogenicity of <i>Candida albicans</i> by the quorum sensing molecules farnesol and tryptophol. Journal of General and Applied Microbiology 2019.
	Singkum P, Suwanmanee S , Pumeesat P, Luplertlop N. A powerful <i>in vivo</i> alternative model in scientific research: <i>Galleria mellonella</i> . Acta Microbiologica et Immunologica Hungarica 2019. doi: 10.1556/030.66.2019.001.
	Natthanej Luplertlop, Watcharamat Muangkaew, Potjaman Pumeesat, San Suwanmanee , Pantira Singkum. Distribution of <i>Scedosporium</i> species in soil from areas with high human population density and tourist popularity in six geographic regions in Thailand. PLoS ONE 2019. 14(1), e0210942.
2018	Muangkaew W, Suwanmanee S , Singkum P, Pumeesat P, Luplertlop N. Effects of UVC irradiation on growth and apoptosis of <i>Scedosporium apiospermum</i> and

	<i>Lomentosporumprolificans</i> . Interdisciplinary Perspectives on Infectious Diseases 2018. Article ID 3745894.
	Suwanmanee S , Surasombatpattana P, Soonthornworasiri N, Hamel R, Maneekan P, Issé D, Luplertlop N. Monitoring arbovirus in Thailand: Surveillance of dengue, chikungunya and zika virus, with a focus on coinfections. <i>Acta tropica</i> 2018, 188, 244-250.
2017	Luplertlop N, Suwanmanee S , Ampawong S, Vongpunsawad S, Poovorawan Y. <i>In vitro</i> study of Zika virus infection in boar semen. <i>Archives of virology</i> 2017, 162(10), 3209-3213.
	Luplertlop N, Suwanmanee S , Muangkaew W, Ampawong S, Kitisin T, Poovorawan Y. The impact of Zika virus infection on human neuroblastoma (SH-SY5Y) cell line. <i>Journal of vector borne diseases</i> 2017. 54(3), 207.
	Suwanmanee S , Luplertlop N. Dengue and Zika viruses: lesson learned from the similarities between these <i>Aedes</i> mosquito-vectored arboviruses. <i>Journal of Microbiology</i> 2017. 55(2), doi: 10.1007/s12275-017-6494-1.
	Suwanmanee S , Luplertlop N. Immunopathogenesis of Dengue virus-induced redundant cell death: apoptosis and pyroptosis. <i>Viral immunology</i> 2017. 30(1), 13-19.
National Publications :	
2016	Muangkaew W, Wongsuk T, Pumeesat P, Suwanmanee S , Luplertlop N. The influence of culture media on growth and morphology of <i>Scedosporium boydii</i> and <i>Scedosporium prolificans</i> . <i>Journal of Medicine and Health Science</i> 2016. 23(2), 17-25.
2015	Tapaopong J, Suwanmanee S , Luplertlop N. Evaluation of pathogenic microorganisms contaminated in dermatology outpatient clinic during the midst of rainy season. <i>Journal of Medicine and Health Science</i> 2015. 22(2), 8-14.
	Muangkeaw W, Kitisin T, Suwanmanee S , Mahakunkijcharoen Y, Luplertlop N. Anti-microbial activity of Nisin on common dermatological pathogen. <i>Journal of Medicine and Health Science</i> 2015. 22(2), 15-23.
2014	Suwanmanee S , Luplertlop N. Role of cytokines secreted from mast cells on dengue hemorrhagic fever pathogenesis. <i>Journal of Medicine and Health Sciences</i> 2014. 21(3), 39-46.

TRAINING EXPERIENCES :

- 2012 Public Health student internship, Maharaj Nakhon Si Thammarat, Thailand
- 2013 Public Health student internship, Thoeng Hospital, Chiang Rai, Thailand
- 2013 Public Health student internship, Chiang Kien Health Promoting Hospital, Thailand
- 2014 Human Research Protection (Ethics for human subject), Mahidol University, Thailand
- 2016 Grant writing workshop, THOHUN-USAID, Pattaya, Thailand
- 2016 Animal care and use for scientific purpose, NRCT, Thailand
- 2018 Biosafety training: principle and practice, Mahidol University, Thailand
- 2018 Visiting Scholar, Institut de recherche pour le développement (IRD), Montpellier, France
- 2020 - Human Subject Research under requirement set by Johns Hopkins Medical
Institutions, CITI
- Information Privacy Security (IPS) under requirement set by Johns Hopkins Medical
Institutions, CITI
- 2021 Animal BSL-3, Johns Hopkins University, Baltimore, MD, USA
- 2021 JH Patient

SCIENTIFIC PRESENTATIONS AND LECTURES:

- 2015 Young Scientist Award 2015, Chulalongkorn University, Bangkok, Thailand
- 2016 Joint International Tropical Medicine Meeting, Bangkok, Thailand
- 2016 Assist for lecture in topic "Research methodology for alternative medicine" ,
Mae Fah Luang University, Thailand
- 2016 Laboratory diagnosis for emerging and re-emerging diseases in tropics, Faculty of
Tropical Medicine, Mahidol University, Bangkok, Thailand

- 2017 Joint International Tropical Medicine Meeting, Bangkok, Thailand
- 2017 Thailand One Health University Network-USAID annual meeting, Bangkok, Thailand
- 2020 Immunology Floor Meeting, Graduate in Immunology Program, Johns Hopkins School of Medicine, MD, USA

ACADEMIC MEMBER AND LICENCES:

- 2016 Animal care and use for scientific purpose, National Research Council of Thailand
- 2017 Good clinical practice (ICH-GCP), Faculty of Medicine, Thammasat University, Thailand
- 2017 Council of community public health, Thailand
- 2020 Category 3 of Animal Exposure Certificate

TEXTBOOK :

- 2018 Common superficial fungal infection in tropics (Thai language)
- Chapter VIII: Antifungal agents and Thai medicinal plants that can inhibit fungi
 - Atlas : Atlas of common lesions and superficial fungal pathogens in tropics