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## Education:

- Ph.D. in Medical Microbiology 2018  
Chulalongkorn University, Thailand
- M.Sc. in Medical Microbiology 2013  
Chulalongkorn University, Thailand
- B.Sc. in Medical technology (1<sup>st</sup> class honor) 2010  
Chulalongkorn University, Thailand

## Research field:

Medical Microbiology, Immunology

## Professional experience:

2018 – 2023	Postdoctoral fellowship (Center of Excellence in Systems Biology Faculty of Medicine, Chulalongkorn University)
2023 – Present	Lecturer

## Publications:

- Techawiwattanaboon T, Phanchamnan E, Iadsee N, **Makjaroen J**, Pisitkun T, Patarakul K. Proteomic profile of naturally released extracellular vesicles secreted from *Leptospira interrogans* serovar Pomona in response to temperature and osmotic stresses. *Scientific Reports*. 2023;13(1):18601.
- Sae-Khow K, Phuengmaung P, Issara-Amphorn J, **Makjaroen J**, Visitchanakun P, Boonmee A, et al. Less Severe Polymicrobial Sepsis in Conditional mgmt-

Deleted Mice Using LysM-Cre System, Impacts of DNA Methylation and MGMT Inhibitor in Sepsis. *Int J Mol Sci.* 2023;24(12).

- Saisorn W, Phuengmaung P, Issara-Amphorn J, **Makjaroen J**, Visitchanakun P, Sae-khow K, et al. Less Severe Lipopolysaccharide-Induced Inflammation in Conditional mgmt-Deleted Mice with LysM-Cre System: The Loss of DNA Repair in Macrophages. *International Journal of Molecular Sciences.* 2023;24(12):10139.
- Phuengmaung P, Khiewkamrop P, **Makjaroen J**, Issara-Amphorn J, Boonmee A, Benjaskulluecha S, et al. Less Severe Sepsis in Cecal Ligation and Puncture Models with and without Lipopolysaccharide in Mice with Conditional Ezh2-Deleted Macrophages (LysM-Cre System). *International Journal of Molecular Sciences.* 2023;24(10):8517
- **Makjaroen J**, Phuengmaung P, Saisorn W, Udomkarnjananun S, Pisitkun T, Leelahavanichkul A. Lipopolysaccharide Tolerance Enhances Murine Norovirus Reactivation: An Impact of Macrophages Mainly Evaluated by Proteomic Analysis. *International Journal of Molecular Sciences.* 2023;24:1829.
- Thim-uam A, **Makjaroen J**, Issara-Amphorn J, Saisorn W, Wannigama D, Chancharoentana W, et al. Enhanced Bacteremia in Dextran Sulfate-Induced Colitis in Splenectomy Mice Correlates with Gut Dysbiosis and LPS Tolerance. 2022.
- Suppramote O, Prasopporn S, Aroonpruksakul S, Ponvilawan B, **Makjaroen J**, Suntiparpluacha M, et al. The Acquired Vulnerability Caused by CDK4/6 Inhibition Promotes Drug Synergism Between Oxaliplatin and Palbociclib in Cholangiocarcinoma. *Frontiers in Oncology.* 2022;12:877194.
- Singkham-In U, Phuengmaung P, **Makjaroen J**, Saisorn W, Bhunyakarnjanarat T, Chatsuwat T, et al. Chlorhexidine Promotes Psl Expression in *Pseudomonas aeruginosa* That Enhances Cell Aggregation with Preserved Pathogenicity Demonstrates an Adaptation against Antiseptic. *International Journal of Molecular Sciences.* 2022;23:8308.

- Phuengmaung P, **Makjaroen J**, Saisorn W, Chatsuwat T, Somparn P, Leelahavanichkul A. Rapid Synergistic Biofilm Production of Pseudomonas and Candida on the Pulmonary Cell Surface and in Mice, a Possible Cause of Chronic Mixed Organismal Lung Lesions. *International Journal of Molecular Sciences*. 2022;23:9202.
- Techawiwattanaboon T, Thaibankluay P, Kreangkaiwal C, Sathean-Anan-Kun S, Khaenam P, **Makjaroen J**, et al. Surface proteomics and label-free quantification of Leptospira interrogans serovar Pomona. *PLOS Neglected Tropical Diseases*. 2021;15:e0009983.
- **Makjaroen J**, Thim-uam A, Dang C, Pisitkun T, Somparn P, Leelahavanichkul A. A Comparison Between 1 Day versus 7 Days of Sepsis in Mice with the Experiments on LPS-Activated Macrophages Support the Use of Intravenous Immunoglobulin for Sepsis Attenuation. *Journal of Inflammation Research*. 2021;Volume 14:7243-63.
- Thim-uam A, Prabakaran T, Tansakul M, **Makjaroen J**, Wongkongkathap P, Chantaravisoot N, et al. STING Mediates Lupus via the Activation of Conventional Dendritic Cell Maturation and Plasmacytoid Dendritic Cell Differentiation. *iScience*. 2020;23:101530.
- Tansakul M, Thim-uam A, Saethang T, **Makjaroen J**, Wongprom B, Pisitkun T, et al. Deficiency of STING Promotes Collagen-Specific Antibody Production and B Cell Survival in Collagen-Induced Arthritis. *Frontiers in Immunology*. 2020;11.
- Nantavisai S, Pisitkun T, Osathanon T, Pavasant P, Kalpravidh C, Dhitavat S, et al. Systems biology analysis of osteogenic differentiation behavior by canine mesenchymal stem cells derived from bone marrow and dental pulp. *Scientific Reports*. 2020;10.
- Hodge K, **Makjaroen J\***, Robinson J, Khoomrung S, Pisitkun T. Deep Proteomic Deconvolution of Interferons and HBV Transfection Effects on a Hepatoblastoma Cell Line. *ACS Omega*. 2020;5(27):16796-810.

- Surawut S, Panpetch W, **Makjaroen J**, Tangtanatakul P, Thim-uam A, Wongphoom J, et al. Helicobacter pylori Infection Increased Anti-dsDNA and Enhanced Lupus Severity in Symptomatic FcγRIIb-Deficient Lupus Mice. *Frontiers in microbiology*. 2018;9.
- Surawut S, **Makjaroen J\***, Thim-uam A, Wongphoom J, Palaga T, Pisitkun P, et al. Increased susceptibility against Cryptococcus neoformans of lupus mouse models (pristane-induction and FcGR1Ib deficiency) is associated with activated macrophage, regardless of genetic background. *Journal of Microbiology*. 2018;57.
- **Makjaroen J**, Somparn P, Hodge K, Poomipak W, Hirankarn N, Pisitkun T. Comprehensive Proteomics Identification of IFN-λ3-regulated Antiviral Proteins in HBV-transfected Cells. *Molecular & Cellular Proteomics*. 2018;17:mcp.RA118.000735.