

Name: TEERASAK E-KOBON

Position: Lecturer

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Education background:

PhD (Microbial Proteomics and Bioinformatics), 2012, University of Glasgow,
Glasgow, UK

MRes (Bioinformatics and Computational Biology), 2007, University of Leeds,
Leeds, UK

Graduate Diploma in Teaching Sciences and Technologies, 2006, Mahidol
University, Bangkok, THAILAND

BSc (Biology), 2005, Kasetsart University, Bangkok, THAILAND

Courses taught:

416312 Laboratory in Genetics

416481 Genetics and Evolution

416421 Human Genetics

416454 Introduction to Bioinformatics

416554 Bioinformatics

416654 Bioinformatics for Analysis and Applications

Research interests:

My research has been focussed on discovery of new biomarkers and vaccine candidates associated with infectious diseases in domesticated animals by using bioinformatic prediction and proteomic analyses. My current model organism is a Gram-negative infectious bacterium, named *Pasteurella multocida*. Comparative genomics and proteomics have been used to identify potential vaccine targets and biomarkers in this bacterium. I have written some in-house bioinformatic programs to handle these generated high-throughput data. As diverse species, genetic diversity and molecular evolutionary history of virulence-related genes/proteins of *P. multocida* strains in Thailand are also of my interest. Other applications of bioinformatics and proteomics are in my research scope as well.

Funding/grants:

2012-2013: Proposal Research Fund (PRF), Faculty of Science, Kasetsart University

Project: *Pasteurella multocida*: a novel model to study genetic distribution patterns of virulence genes associated with porcine and bovine diseases in Thailand

Publications:

E-komon, T., Burchmore, R., Herzyk, P., Davies, R., Comparative outer membrane proteomic analyses of *Pasteurella multocida* isolates from different host species. *Proteomics (revision)*.

E-komon, T., Burchmore, R., Herzyk, P., Davies, R., Predicting the outer membrane proteome of *Pasteurella multocida* based on consensus prediction enhanced by results integration and manual confirmation. *BMC Bioinformatics*. **13** (63). DOI:10.1186/1471-2105-13-63.

Supannapong P., Pimsalee T., E-komon T., Engkagul A., Kovitvadhi U., Kovitvadhi S. and Rungruangsak-Torrissen K. (2007) Digestive enzymes and in-vitro digestibility of different

species of phytoplankton for culture of the freshwater pearl mussel, *Hyriopsis (Hyriopsis) bialatus*. *Aquaculture*. DOI 10.1007/s10499-007-9156-4.