

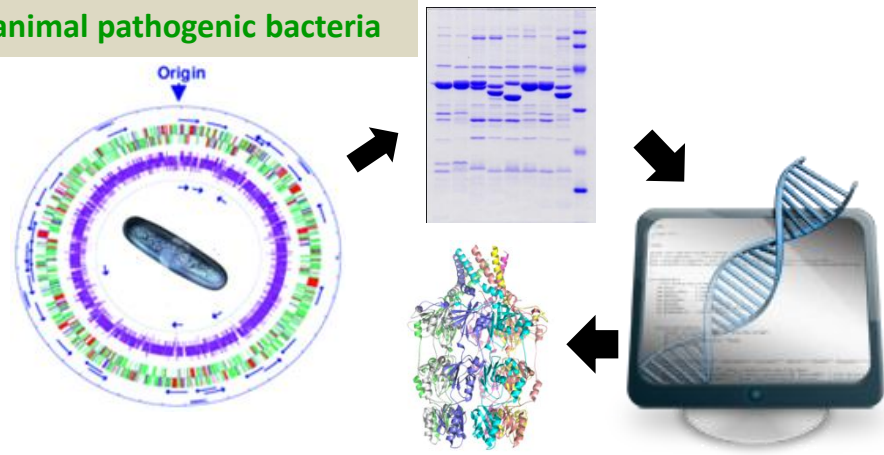


Identification of Vaccine Candidates for Improvement of Animal Welfare

Genetic diversity and distribution patterns of virulence genes in animal pathogenic bacteria

Pasteurella multocida is one of many pathogenic bacteria that causes infectious diseases in various farm animals. Genetic diversity of this bacterium in Thailand has not been fully understood. Investigating of genetic diversity and the presence of virulence genes of *P. multocida* strains associated with diseases in Thailand will provide specific solutions for selecting of vaccine candidates.

The aim of this project is to study genetic diversity and distribution of virulence genes of *Pasteurella multocida* strains associated with diseased pigs, cattle and water buffaloes in Thailand.

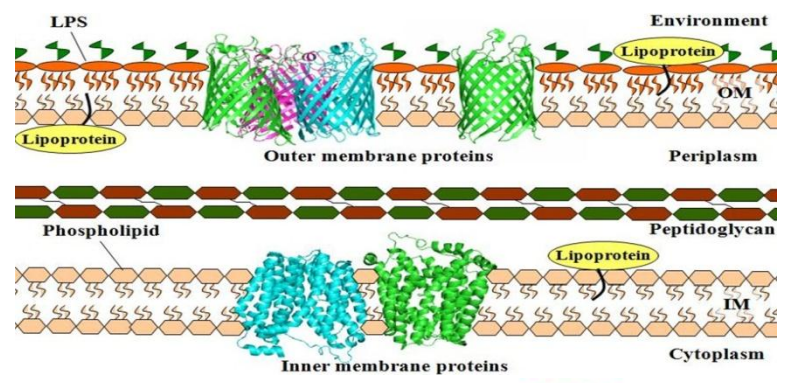


Medical and Pharmaceutical Applications of Gastropod Mucus

Proteomics and Glycomics of Snail Mucus

Snail mucus contains a variety of bio-reactive compounds. Some of them have been used in medical and cosmetic industries. However, there remain other proteins and carbohydrate compounds which have not been elucidated.

The aim of this project is to characterize proteins and carbohydrate composition of the snail mucus in Thailand using proteomics and glycomic methods.



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