



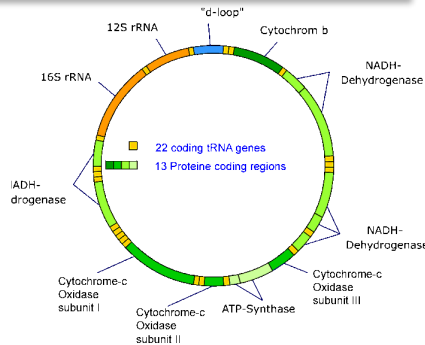
# Dr. Passorn Wonnapijit



## Mitochondrial DNA heteroplasmy inheritance

### Revealing mtDNA heteroplasmy in *Portunus pelagicus*

*Portunus pelagicus* is chosen as a model organism to study the transmission pattern of neutral mtDNA heteroplasmy. Next-generation sequencing technology will be applied to reveal positions of mtDNA heteroplasmy in *mtCR* and *mtCOI*.

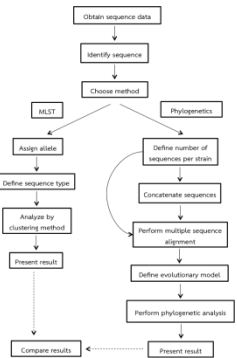


<http://lslab.lscore.ucla.edu/MTDNA/mtDNAMap.htm>

## Pedigree model of human mtDNA heteroplasmy inheritance

Mitochondrial DNA mutations have been observed to cause various diseases. Typically, an affected individual receives mutant mtDNA from the mother who transmits a random proportion of mutant mtDNA to her offspring. The random shift in mtDNA heteroplasmy level complicates recurrence risk estimation.

## A web-based tool for bacterial strain identification



Multi-locus sequence typing (MLST) is a popular approach used for bacterial strain identification. Due to the complication of using many programs to analyze this multiple steps method, all necessary programs will be integrated and set up as a web-based tool for bacterial strain identification.

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