



FISAL BIN HAJI AHMAD

Dr.

EDUCATION



BSc(UPM)

MSc.(USM)

PhD. (UMS)

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EXPERTISE

Field

Food Science and Technology

Expertise

Protein Chemistry

Product Development

Specialization

Proteomic analysis

Bioactive peptide

Seafood products

RESEARCH CONTRIBUTION & ACHIEVEMENT

My research interest is focused on the bioactive peptide of seafood products and other food product as well. This field of research required detail, understanding of protein chemistry, proteomics analysis, Bioinformatics and also skilled in advance equipment such as tandem mass spectroscopy. Bioactive peptides are protein fragments that infer health benefits and lead to the reduction of disease risk to humans or animals beyond simply serving as a source of essential amino acids for primary protein nutrition. Biologically active peptides can be generated from precursor proteins in multiple techniques, including enzymatic hydrolysis (either by digestive enzymes or enzymes derived from microorganisms and plants) and microbial fermentation. These approaches can discover truly novel bioactive peptide that can be used as components for functional foods or Nutraceuticals and I am committed to apply the results of the experiment in the real world system. Currently, I also lead a research grant (proteomic analysis of *Budu*/fish sauce) and as co-researcher for microbiological contamination of peel blood cockles and Evaluation of i2D-PAGE (PRGS/USM). I also involved in Horseshoe Crab Research Group (developing of feeding pallets) and Stingless Bee Honey Research Group (proteomic analysis of honey). I also become a consultant for several food industry, especially Small Medium Enterprise (SME) related to seafood products.

PROFESSIONAL MEMBERSHIP

- 🕒 Malaysian Institute of Food Technology

NETWORKING & RESEARCH COLLABORATION

- 🕒 Fisheries Research Institute, Penang.
- 🕒 USM, Analytical Biochemistry Research Center (ABrC), Penang.
- 🕒 Faculty of Sustainable Agriculture, UMS, Sandakan, Sabah.
- 🕒 Faculty of Food Science and Nutrition, UMS, Sabah.
- 🕒 Faculty of Agro-Industry, Chiang Mai University, Thailand.
- 🕒 Faculty of Agricultural Industrial Technology, Universitas Padjadjaran, Indonesia.

PUBLICATION

- 🕒 Scopus ID : 57196030492
- 🕒 Researchgate : Fisal Ahmad
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