



TENGGU ROZAINA TENGGU MOHAMAD

Dr.

EDUCATION



BSc. Hon. (UKM)



MSc. (Reading)



PhD. (Otago)

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EXPERTISE

Field

Food Science and Nutrition

Expertise

Food Chemistry (Fats and Oils)

Nutrition

Specialization

Lipid chemistry

Lipid oxidation

Food analysis

Fish oil

RESEARCH CONTRIBUTION & ACHIEVEMENT

My research area is on food chemistry and analysis, focusing on fats and oils especially on fish oil. Fish oil is a good source of omega-3 fatty acids that are beneficial to human health. It has been incorporated into food products and marketed as functional foods and supplementation products. However, these products are more susceptible to oxidation due to the high amount of polyunsaturated fatty acids in the fish oil. Therefore, my research are more on the physicochemical characterisation and oxidative stability of fish oils. Other samples of my interest are rice bran oil and coffee oil. Gas chromatography (GC), High Performance Liquid Chromatography (HPLC), Differential Scanning Calorimetry (DSC), Thermogravimetric Analyzer (TGA) and Nuclear Magnetic Resonance (NMR) are among the instruments that I used in my research.

I am also interested in the nutritional composition of fish and other seafood, and their processing by-products such as head, bones and offal. The bioactive compounds from the fishery by-products have potential to be utilised as ingredients for food products. I am also working on the effect of cooking methods on nutritional quality and oxidative stability of fish and vegetables. The information obtained will benefit consumers in their domestic food preparation. Other topic of my interest is on the bioactive compounds in fruit waste and their application in food products. My other interest is also on the relationship between nutrition and public health especially on women and university students.

PROFESSIONAL MEMBERSHIP

- ⌚ American Oil Chemists' Society (AOCS)
- ⌚ Nutrition Society of Malaysia
- ⌚ Malaysian Fisheries Society
- ⌚ Asian Society of Ichthyologists

NETWORKING & RESEARCH COLLABORATION

- ⌚ University of Otago, New Zealand
- ⌚ Fisheries Research Institute, Malaysia
- ⌚ Institute of Medical Research, Malaysia

PUBLICATION

- ⌚ Scopus ID : 55668688700
- ⌚ Researchgate : Tengku Rozaina Tengku Mohamad
- ⌚ Google Scholar : Tengku Rozaina Tengku Mohamad

