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Exploration of potential Indonesian seaweeds

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Seaweeds and their extracts have been studied for decades as novel sources a variety of compounds and some of them have been reported to possess biological activity of potential medicinal value. Seaweeds are great potential producer of secondary metabolites that responsible for bioactivities which have commercial application in pharmaceutical, medical, cosmetic, nutraceutical and agricultural industries. In order to fully explore and exploit the value and potential of local seaweed we initiated research project on Indonesian seaweeds since 2012. The objectives of research program were (1) to explore the indigenous various seaweeds, collected from parts of Indonesia mainly in Yogyakarta Coastal region and East Nusa Tenggara, (2) to study and determine chemical constituent and screen for the potential as edible seaweed (sea vegetables), anti oxidant, antibacterial agents and sulfated polysaccharide. More than 100 seaweeds were collected and screened for antibacterial, antioxidant, sulfated polysaccharides and toxicity. We followed bioassay guided isolation to determine bioactive compounds. Our results showed that potential of Indonesian seaweeds are very promising. We are going to discuss in details apesies, chemical diversity and bioactivity in the presentation.

Biography

Noer Kasanah has completed her PhD from School of Pharmacy, University of Mississippi (2008) and Post-doctoral studies from College of Pharmacy, Oregon State University (2010). She is an Assistant Professor and Principal Investigator of Marine Biotechnology Research Group, Department of Fisheries, Faculty of Agriculture, Universitas Gadjah Mada Yogyakarta since 2011.

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