

## EDITORIAL: SUSTAINABLE DEVELOPMENT THROUGH SCIENCE, TECHNOLOGY, AND INNOVATION

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This special issue is a compilation of research papers presented during the 2019 Universiti Malaysia Terengganu Annual Symposium (UMTAS2019), held from July 23 to 25, 2019, organized by the Faculty of Science and Marine Environment (previously known as the School of Marine and Environmental Sciences). The issue aims to reflect on the current state of research in the broad field of science, technology, and innovation, which is in line with the sustainable development framework. The articles cover four sub-themes, namely marine and freshwater sciences, food and agricultural sciences, fundamental and applied sciences, and management sciences and policy.

The first sub-theme highlights marine and freshwater sciences. The articles address the effects of environmental changes on the variation of phytoplankton, zooplankton, symbiodiniaceae, the degrees of metals contamination, and beach profiling in marine and freshwater ecosystems. Emerging contaminants of concern, such as marine debris, are also presented under this sub-theme. One of the articles promotes a good solution for the removal of microbeads in the marine ecosystem through the uptake and excretion processes accelerated by marine copepods. The article presented under the second sub-theme, food, and agricultural sciences, focuses on the development of a new hybrid vigor of *Oryza sativa* L. that is highly tolerant to drought and salinity conditions.

An article that covers the third sub-theme, fundamental and applied sciences, discusses the potential role of the bacteria *Bacillus cereus* on

the bioleaching of kaolin. The next article in the third sub-theme promotes the knowledge of mushroom diversity in Malaysia. The systematic study interconnects local knowledge and experiences with scientific proof through research. Finally, the fourth sub-theme covers management sciences and policy to strengthen ecosystem sustainability. One article presented here discusses how the coastal community capital contribution willingness evaluation impact gives advantages and limitations towards ecotourism in Marudu Bay, Sabah.

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