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Microbial Diversity and Bioinformatics

Teleost Skin Microbiome: An Intimate Interplay Between the Environment and the Host Health



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Venue: Auditorium, 1st Floor,

Interdisciplinary Research Building

跨領域科技研究大樓1樓演講廳

Host: Dr. Sen-Lin Tang 湯森林研究員



Abstract

The mucosal microbiome plays a role in regulating host health. The research conducted in humans and mice has governed and detailed the information on microbiome-host interactions. Teleost fish, different from humans and mice, lives in and relies on the aquatic environment and is subjected to environmental variation. The growth of teleost mucosal microbiome studies, majority in the gastrointestinal tract, has emphasized the essential role of the teleost microbiome in growth and health. However, research in the teleost external surface microbiome, as the skin microbiome, has just started. In our lab, we examined the general findings in the colonization of the teleost skin microbiome, how the skin microbiome is subjected to environmental change and the reciprocal regulation with the host immune system, and tried to tackle the current challenges using our established models. The information collected from environment-teleost skin microbiome-host interaction research would help future teleost culturing under the potential parasitic infestation and bacterial infection as foreseeing threats.