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- 1 **Relationship between the Zooplankton Biomass and the Acoustic Volume Backscattering Strength at 38 kHz in the Waters off Northern Taiwan**

高似嘉(Szu-Chia Kao) ; 李明安(Ming-An Lee)

聲探計測；浮游動物生物量；網目大小；體積散射強度；Acoustic estimation；Zooplankton biomass；Mesh size；Volume backscattering strength

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- 2 **Antivirus and Prebiotic Properties of Seaweed-oligosaccharide-lysates Derived from Agarase AS-II**

吳紹祺(Shao-Chi Wu) ; 康新楷(Sheen-Kye Kang) ; 卡伯特(Bartosz Kazlowski) ; 吳彰哲(Chang-Jer Wu) ; 潘崇良(Chorng-Liang Pan)

β -洋菜酶；抗病毒；益生性； β -agarase；Antivirus；Prebiotic

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- 3 **Errors in Coefficient or Expected Value? Effects of Different Methods on Simulated Values for a Linear Model and the Nonlinear Von Bertalanffy Growth Model**

林裕嘉(Yu-Jia Lin) ; 蘇楠傑(Nan-Jay Su) ; Brian M. Jessop ; 江偉全(Wei-Chuan Chiang) ; 孫志陸(Chi-Lu Sun)

蒙地卡羅模擬；不確定性；模式參數；加成性及乘積性誤差；Monte Carlo simulation；Uncertainty；Model coefficient；Additive or multiplicative error

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- 4 **Effects of Microwave-assisted Extraction on the Free Radical Scavenging and Ferrous Chelating Abilities of Ecklonia kurome Extract**

林宇平(Yeu-Pyng Lin) ; 楊宗信(Chung-Shin Yang) ; 吳紹祺(Shao-Chi Wu)

昆布；微波輔助萃取；DPPH離子清除效應；亞鐵離子螯合能力；反應曲面法；Microwave-assisted extraction；DPPH radical scavenging effect；Ferrous ion chelating capacity；Response surface methodology : Ecklonia kurome

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- 5 **Gloiopotes hygomianus Steenstrup & Lütken (Copepoda: Euryphoridae) Parasitic on Wahoo (Acanthocybium solandri) of Taiwan**

何汝諧(Ju-Shey Ho) ; 林清龍(Ching-Long Lin)

寄生橈足類；Gloiopotes；表層魚類；臺灣；Parasitic copepod；Gloiopotes；Epipelagic fish；Taiwan

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- 6 **Purification and Characterization of Aeromonas salmonicida MAEF108 Agarase AS-II**

吳紹祺(Shao-Chi Wu) ; 康新楷(Sheen-Kye Kang) ; 潘崇良(Chorng-Liang Pan)

β -洋菜酶；新洋菜二糖；新洋菜四糖；新洋菜六糖； β -agarase；neoagarobiose；neoagarohexaose；neoagarotetraose

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