

觀賞魚 KHV qPCR 方法建立及監測結果分析

生物研究組

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摘要

家畜衛生試驗所協助屏東農業生物技術園區亞太水族中心進駐廠商及其衛星魚場疾病監測與疾病檢診，建立魚場生物安全管控模式，導入健康管理及生產醫學概念。本實驗室積極建立觀賞魚各種疾病檢診之方法，其中錦鯉疱疹病毒（Koi herpes virus, KHV），以鯉科魚類為宿主，是其最重要的病原之一，參考 OIE KHV qPCR 方法，藉由調整試劑配方與溫度條件以建立並且優化 KHV qPCR 檢測方法，將該方法應用於現場 KHV 檢測，協助畜主落實水生動物防檢疫管理，並連結輸出水生動物溯源控管，以提升國際市場競爭力。

Establishment of ornamental KHV qPCR and monitor result

Yu-Ting Liu

Abstract

Animal health research institute assists stationed aquarium companies in Pingtung Agricultural Biotechnology Park and their satellite fish farm to monitor diseases, and establish model of bio-safety. Furthermore, leading in management of health and the conception of animal health and medicine usage. Our lab set up methods of diseases examination vigorously, one of them is Koi herpes virus (KHV). The main host of KHV is cyprinidae, one of the most important pathogen. Therefore, we consulted the paper that OIE refers, establish and optimize the method of KHV qPCR by adjusting reagent formula and temperature of qPCR program. Drawing on KHV detection in fish farms, and assist owners of fish farms implement the management of aquarium quarantine. Connecting with traceability and providing with international competitiveness.