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開課班級：博觀賞魚專班一A

授課老師：歐卡爾

學分數：3

課程大綱：

1. Global aquaculture industry 2. Infectious diseases in fish-part I 3. Infectious diseases in fish-part II 4. Central themes in animal physiology- pathogen interaction 5. Bacteria, parasite and other pathogens affecting aquatic food supply 6. Pathogen effects on anatomy, physiology, pathology and toxicology 7. Physiological effects on fish, crustaceans 8. Mucosal pathogenesis in fish 9. Some preventative measures, including vaccination and biosecurity 10. Features post infection solutions in pharmacology and pain management

outline:

To mitigate the increase outbreaks of aquatic animal diseases it is important to rapid identification and understanding of the physiological imbalance from new pathogens in the host to enable the disease control. This knowledge will be gained through lectures, group discussion, case studies, written assignment submissions, and student presentations.

教學型態：

課堂教學

成績考核方式：

平時成績:25%

期中考:25%

期末考:40%

其它:10 % for for attendance%

本科目教學目標：

Students will be trained on the major infectious disease affecting global aquaculture. Evidence of new emerging diseases in hampering the aquaculture field will be highlighted. Major focus will be on the pathophysiological effects during the infectious diseases in fish as major point and few cases on fish/shrimp/prawn will be discussed.

參考書目：

1. Bacterial diseases of fish (Inglis, Roberts & Bromage)
2. Fish Diseases and disorders: Volume 1, 2 & 3 (Woo, Leatherland, Bruno)
3. The pathophysiology and systematic pathology of teleost 's (Roberts, R. J.)
4. Aquaculture Pathophysiology, 1st Edition (Frederick Kibenge Roger Chong Bernardo Baldisserotto)



課程進度表：

週次	起訖月日	授課單元(內容)	備註
第1週	2.19~2.25	Introduction to Pathophysiology course and; Global aquaculture industry	8日正式上課。8~12日課程加退選，轉學(系)生、復學生及延修生選課，雙主修、輔系申請，12日申辦抵免學分截止日
第2週	2.26~3.03	Infectious diseases in fish-part I	
第3週	3.04~3.10	Infectious diseases in fish-part II	28日(日)孔子誕辰紀念日/教師節(放假), 29日(一)補假
第4週	3.11~3.17	Central themes in animal physiology- pathogen interaction	29日成績優異提前畢業者提出申請截止日
第5週	3.18~3.24	Bacteria, parasite and other pathogens affecting aquatic food supply	6日(一)中秋節(放假), 10日(五)國慶日(放假)
第6週	3.25~3.31	Pathogen effects on anatomy, physiology, pathology and toxicology	14日學生宿舍安全輔導暨複合式防災疏散演練。18日多益測驗
第7週	4.01~4.07	Physiological effects on fish during pathogen invasion	24日(五)補假, 25日(六)光復暨古寧頭大捷日(放假)。
第8週	4.08~4.14	Physiological effects on crustacean during pathogen invasion- a case study	30日校課程委員會
第9週	4.15~4.21	Mucosal pathogenesis in fish	3~9日期中考試
第10週	4.22~4.28	Some preventative measures, including vaccination and biosecurity	13日教務會議, 16日教師期中成績上網登錄截止日
第11週	4.29~5.05	;Features post infection solutions in pharmacology and pain management	
第12週	5.06~5.12	Student presentation on selected topic related to fish pathophysiology	24~28體育運動週。24日校園路跑。27日運動大會夜間開幕, 28日運動大會活動, 29日101週年校慶活動日, 照常上班
第13週	5.13~5.19	Student presentation on selected topic related to fish pathophysiology-2	
第14週	5.20~5.26	Student presentation on selected topic related to fish pathophysiology-3	12日申請停修課程截止日
第15週	5.27~6.02	Student presentation on selected topic related to fish pathophysiology-4	
第16週	6.03~6.09	Recent information on inflammation in fish after pathogen entry- a case study	22日校務會議。25日行憲紀念日(放假)
第17週	6.10~6.16	Fish granzymes- News and views on the physiological effect	1日(四)開國紀念日(放假)
第18週	6.17~6.23		5~11日期末考試, 10~11日學生退宿