屏東科技大學 - 數位學習平台

課程名稱:(1131)進階魚用疫苗開發(1)(8009)_博觀賞魚專班一A(1131)Advanced Fish Vaccines

Development(1)(8009) 授課教師:歐卡爾

《尊重智慧財產權,請使用正版教科書,勿非法影印書籍及教材,以免侵犯他人著作權》

開課班級: 博觀賞魚專班一A 學分數:2

課程大綱:

To learn the concepts of vaccination and the latest trends in fish vaccination. Knowledge on fish vaccination will be developed through lectures, group discussion, assignment submissions, student presentations and through small scale laboratory experiments.

outline:

To learn the concepts of vaccination and the latest trends in fish vaccination. Knowledge on fish vaccination will be developed through lectures, group discussion, assignment submissions, student presentations and through small scale laboratory experiments.

教學型態: 成績考核方式:

課堂教學 平時成績:20% 期中考:30%

期中考:30% 期末考:40%

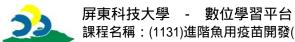
其它:10 % attendance%

本科目教學目標:

In this course, students will be trained on the aspects of fish vaccines, production and safety issues. Further, more emphasis will be given to the possible requirements of fish vaccines in aquaculture. In depth knowledge will be gained on the immunological response of fish vaccines and their protection mechanism from different infectious fish pathogens.

參考書目:

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課程進度表:

| 週次 | 起訖月日 | 授課單元(內容) | 備註 |
|-------------------|--------------|--|---------------------------------------|
| 第1週 | 9.09~9.16 | Recent insights on fish vaccine and its | 8日正式上課。8~12日課程加 |
| | J.0J~J.10 | importance in aquaculture | 退選,轉學(系)生、復學生及 |
| | | importance in aquaculture | 延修生選課,雙主修、輔系 |
| | | | 申請,12日申辦抵免學分截 |
| | | | 中萌,120中新孤先学为钱 止日 |
| 第2週 | 9.16~9.23 | Fish vaccination and its importance in | |
| 年2週 | 9.10~9.23 | | |
| 答り田 | 0.00.000 | aquaculture research | 20月/月/7 乙純트妇念日 /数 |
| 第3週 | 9.23~9.30 | General principles of fish vaccination. | 28日(日)孔子誕辰紀念日/教 |
| ない田 | 0.00 40.07 | vaccination strategies in aquaculture. | 師節(放假),29日(一)補假 |
| 第4週 | 9.30~10.07 | Epidemiology studies for fish vaccines- what we | |
| 华户田 | 10.07.40.44 | need to understand from the field? | 出申請截止日 |
| 第5週 | 10.07~10.14 | Several reasons for vaccine failure and adverse | |
| 佐い田 | 40.44.40.01 | effects of fish vaccines- a possible scenario | 五)國慶日(放假) |
| 第6週 | 10.14~10.21 | General considerations for vaccination studies | 14日學生宿舍安全輔導暨複 |
| | | involving fish- code of conduct | 合式防災疏散演練。18日多 |
| <u>~</u> ~~\⊞ | 10.01 10.00 | A.P. and an Italy | 益測驗 |
| 第7週 | 10.21~10.28 | Adjuvants and immunostimulant in fish | 24日(五)補假,25日(六)光復 |
| 佐い田 | 40.00 44.04 | vaccines. | 暨古寧頭大捷日(放假)。 |
| 第8週 | 10.28~11.04 | • | 30日校課程委員會 |
| 45 A B | 44.04.44.4 | advance in fish vaccination-1 | 0 0 0 Hu ch +> +# |
| 第9週 | 11.04~11.11 | · | 3~9日期中考試 |
| 答407田 | 44 44 44 40 | advance in fish vaccination-2 | |
| 第10週 | 11.11~11.18 | The mucosal immune system of fish and the | 13日教務會議,16日教師期中 |
| 第44 国 | 11.18~11.25 | importance of mucosal vaccination | 成績上網登錄截止日 |
| 第11週 | 11.18~11.25 | Correlates of protective immunity for fish | |
| 第10年 | 11.25~12.02 | vaccines- A case studies Vaccines of the future PART I- New | 24 20 融充電配用 24 口 抗国 |
| 第12週 | 11.25~12.02 | | 24~28體育運動週。24日校園 |
| | | adjuvants, concepts on Reverse vaccinology, | 路跑。27日運動大會夜間開 |
| | | New approaches to vaccine administration | 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 | 12.02~12.09 | Vaccines of the future PART II - New | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| カの四 | 12.02~ 12.09 | approaches to antigen delivery issues affecting | |
| | | antigen presentation, viral vector vaccines, | |
| | | bacterial vector vaccines | |
| 第14週 | 12 00~12 16 | DNA vaccines in aquaculture species and its | 12日申請停修課程截止日 |
| カザ型 | 12.03~12.10 | regulation. | |
| 第15週 | 12.16~12.23 | Status and future perspectives of vaccines for | |
| 77 10週 | 12.10~12.23 | industrialized fin-fish aquaculture | |
| 第16週 | 12.23~12.30 | Advances in fish vaccine delivery | 22日校務會議。25日行憲紀 |
| 구 IU년 | 12.25~ 12.50 | A CANALIDES III IISII VACCIIIE UEIIVEI Y | 22日牧粉音磁。23日1J惠紀 念日(放假) |
| 第17週 | 12.30~1.06 | Anti viral vaccines in fish and mechanism of | 1日(四)開國紀念日(放假) |
| アル地 | 12.30~1.00 | | ' ㅁ (ㄸ기)커(쌜하나 (JX IFX) |
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| | | protection- few case studies | |
|------|-----------|---|--------------------------|
| 第18週 | 1.06~1.13 | Final examination — assignment submission | 5~11日期末考試,10~11日 學生退宿 |

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