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研究領域：傳染病流行病學、分子病毒學、節肢動物傳播之病毒傳染病、傳染病監測在獸醫公共衛生之應用、病毒之分子演化學、感染症與抗體反應

教授課程：

大學部：生物統計

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簡要學經歷

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工作經歷

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2006, 2 - 2007,6 中央研究院分子生物研究所博士後研究員
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研究興趣及成果簡述

- 登革熱方面的研究興趣與成果：從博士論文至今 20 年，發表超過 32 篇關於登革病毒或黃病毒方面的文章在 SCI journal，其中有 18 篇為第一或通訊作者，其中包括區辨抗體來自自然感染或是疫苗產生的抗體方法，結合流行病學與病毒演化找出造成登革出血熱的重要病毒傳播機制，從基礎的結構與實驗室數據找出誘發廣泛性中和性抗體的機制，這些研究成果不僅在登革熱防治上有重要的科學與社會貢獻，同時榮獲科技部年度十大破壞性創新論文獎及多項國際專利。
- 在中興大學獸醫學院服務期間，遇到 2015 年台灣最嚴重的禽流感病毒入侵台灣，造成禽場的重大疫情，受到官方的委託開始進行環境危險因子、病毒傳播與演化的調查，相關結果不只陸續發表在許多重要的國際期刊，且所製作的風險地圖具有高的預測準確度，因此也受政府相當重視，並放在戰情室中作為疫情控制的重要參考。自 2021 年度獲得國際貝蒙論壇的獎助，進行”Pathway to Sustainability”的國際合作，主題為 Eco2Health，此獎項主要針對 17 項地球永續發展目標，篩選重要的國際團隊針對特定的議題提出解決方法，本團隊是唯一在人畜共通傳播疾病議題上獲獎的團隊。

代表著作

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