

Introduction to Selected Topics in Biophotonics (2 credit units; 2 hours per week)

107 學年度下學期

賈士璿教授 (陽明大學生醫光電所)

02/22 1st week: Biophotonics: A Brief Overview
生醫光電簡介

03/01 2nd week 228 彈性放假

Surojit 教授 (陽明大學生醫光電所) 外籍教授，全英語授課

03/08 3rd week: Introduction to Raman Spectroscopy & SERS
拉曼光譜與表面增強拉曼光譜簡介

陳壁彰教授 (中研院應科中心)

03/15 4th week: Introduction to Optical Microscopy
光學顯微鏡簡介

Surojit 教授 (陽明大學生醫光電所) 外籍教授，全英語授課

03/22 5th week: Raman Spectroscopy & SERS for Biomedical Applications
拉曼光譜與表面增強拉曼光譜的生醫應用

陳壁彰教授 (中研院應科中心)

03/29 6th week: Biomedical Applications of Optical Microscopy
光學顯微鏡的生醫應用

04/05 7th week 春假

楊逢昇教授 (陽明大學醫放系)

04/12 8th week: Introduction to Therapeutic Ultrasound and Current clinical Applications
治療用超音波簡介及其目前臨床應用

04/19 9^h week: Therapeutic Ultrasound for Potential Biomedical Applications
治療用超音波有潛力的生醫應用

陳奕帆教授 (陽明大學生醫光電所)

04/26 10th week Introduction to Optical Biosensors and Portable Biosensing Platforms
光學生物感測器及可攜式生醫檢測平台介紹

05/03 11th week: Selected Examples of Optical Biosensors and Portable Biosensing Platforms
光學生物感測器及可攜式生醫檢測平台範例介紹

郭文娟教授 (陽明大學生醫光電所)

05/10 12th week: Introduction to Optical Coherent Tomography (OCT) and Biomedical Applications

光學同調斷層掃描影像(OCT)原理與生醫應用簡介

魏培坤教授 (中研院應科中心)

05/17 13th week: Introduction to Surface Plasmon Resonance (SPR) Biosensors
表面電漿共振感測器簡介

05/24 14th week: Applications of SPR Biosensors
表面電漿共振感測器的應用

吳育德教授 (陽明大學生醫光電所)

05/31 15^h week: An Introduction to Artificial Intelligence and its applications in diagnosis
人工智慧簡介與臨床應用

06/07 16th week: 端午節放假

陳胤全研究員 (陽明大學生醫光電所)

06/14 17th week: Biomechanics For Biomedical Applications
生物力學在生物醫學的應用

06/21 18th week: 期末考週不上課