

臨醫所 教師歸屬 5 大領域

Specific Research 5 Areas of Inst. of Clinical Medicine

E-英文授課 Teaching in English/★與他所合開課程(Curriculum opened with other Inst./dept.)

班別 Classes	博 Ph.D	碩 Master	碩專 Clinical Master – 生命科學暨轉譯醫學組 Life Science and Translational Medicine Program	碩專 Clinical Master – 臨床試驗組 Clinical Trials Program
學分數 Credits	4 學分 4 credits	4 學分 4 credits	4 學分 4 credits	
必修 Required Curriculum	專題討論(一)(二)(三)(四)/1 E Seminar(1)(2)(3)(4)	專題討論(一)(二)(三)(四)/1 Seminar(1)(2)(3)(4)	專題討論(一)(二)(三)(四)/1 Seminar(1)(2)(3)(4)	
學分數 Credits		10 學分 10 credits	12 學分 12 credits	
核心必選 Core Designated Selective Curriculum	<ul style="list-style-type: none"> ● 臨床醫學研究專題討論/2 SEMINARS ON CLINICAL RESEARCH PROPOSALS ● 實驗室實習/1 LABORATORY INTERNSHIP <p>二選一：</p> <p>1、轉譯醫學(一)/2 E TRANSLATIONAL MEDICINE(1)</p> <p>2、轉譯醫學與臨床試驗特論/2 E TRANSLATIONAL MEDICINE AND CLINICAL TRIAL</p> <p>至少 4 學分(在職)、至少 2 學分(一般)：</p> <p>1、臨床研究方法(一)：臨床生物統計/2 CLINICAL RESEARCH DESIGN(1)/CLINICAL BIostatISTICS</p> <p>2、臨床研究方法(二)：研究設計與臨床 應用/2 CLINICAL RESEARCH DESIGN AND CLINICAL APPLICATION</p> <p>3、人類遺傳流行病學與次世代定序資料 分析/2 HUMAN GENETIC EPIDEMIOLOGY AND NEXT-GENERATION SEQUENCING DATA ANALYSIS</p> <p>4、流行病學/2 E EPIDEMIOLOGY</p>	<p>轉譯醫學(一)/2 E TRANSLATIONAL MEDICINE(1)</p> <p>轉譯醫學與臨床試驗特論/2 E TRANSLATIONAL MEDICINE AND CLINICAL TRIAL</p> <p>分子細胞學(一)/2 MOLECULAR CELL BIOLOGY(1)</p> <p>分子細胞學(二)/2 MOLECULAR CELL BIOLOGY(2)</p> <p>學術原創研究經驗談/2 CREATIVITY AND ACADEMIC MEDICINE<經 108.6 月所會決 議，自 108 學年度起，該課程為本 所碩一新生必選課程。></p>	<p>臨床研究方法(一)：臨床生物統計/2 CLINICAL RESEARCH DESIGN(1)/CLINICAL BIostatISTICS</p> <p>臨床研究方法(二)：研究設計與臨床 應用/2 CLINICAL RESEARCH DESIGN AND CLINICAL APPLICATION</p> <p>轉譯醫學(一)/2 E TRANSLATIONAL MEDICINE(1)</p> <p>轉譯醫學與臨床試驗特論/2 E TRANSLATIONAL MEDICINE AND CLINICAL TRIAL</p> <p>學術原創研究經驗談/2 CREATIVITY AND ACADEMIC MEDICINE</p> <p>高等儀器分析(一)/2 ADIANCED INSTRUMENT ANALYSIS(1)</p>	<p>臨床研究方法(一)：臨床生物統計/2 CLINICAL RESEARCH DESIGN(1)/CLINICAL BIostatISTICS</p> <p>臨床研究方法(二)：研究設計與臨床 應用/2 CLINICAL RESEARCH DESIGN AND CLINICAL APPLICATION</p> <p>臨床試驗概論/1 Introduction to Clinical Trials</p> <p>轉譯醫學與臨床試驗特論/2 E TRANSLATIONAL MEDICINE AND CLINICAL TRIAL</p> <p>新藥臨床試驗之倫理、法規與開發/1 Ethical Issues, Regulation and Development in Clinical Trials for New Drugs</p> <p>尖端生技醫療產業發展/1 Development of Cutting-edge Biotechnology Medical Industry</p> <p>尖端生技醫療產業實務/1 Practice on Advanced Biotechnology and Medical Industry</p> <p>臨床試驗計畫書/2 PROTOCOL DESIGN OF INVESTIGATOR-INITIATED CLINICAL TRIALS</p>

*博班:必修 4 學分, 選修 14 學分, 畢業學分 18 學分。*碩班:必修 4 學分, 選修 20 學分(含必選 10 學分), 畢業學分 24 學分。*碩專班:必修 4 學分, 選修 20 學分(含必選 12 學分), 畢業學分 24 學分。

五大研究領域選修課程 Selected Curriculum 5 Research Areas

五大研究領域 5 Research Areas	癌症 Cancer	感染、免疫、細胞學 Infection, Immunology, Cell biology	神經、精神、再生醫學 Neurology, Psychiatry, and Regenerative Medicine	心血管、新陳代謝與內分泌、腎臟醫學 Cardiovascular system, Metabolism, and Endocrinology, Nephrology	遺傳、流病、生統、大數據 Genetics, Epidemiology, Biostatistics, Big data
教師 Faculty	呂佩融 沈延盛 洪澤民 蘇文彬	謝奇璋 許育祥	蔡坤哲 江伯敏 Michael Hughes 吳怡真	蔡曜聲 劉秉彥	林聖翔 陳芃潔
學期 Semesters					
上學期 1 st Semester	分子技術學/2 MOLECULAR BIOTECHNOLOGY 細胞死亡與疾病/2 E CELL DEATH AND DISEASE 腫瘤生物學/2 THE BIOLOGY OF CANCER 免疫新知及其在癌症及免疫疾病的應用/1 CURRENT IMMUNOLOGY AND ITS APPLICATION IN MEDICINE FOCUSING ON CANCER AND AUTOIMMUNE DISEASE 腫瘤免疫治療—過去、現在與展望/1 LANDSCAPE OF IMMUNO-ONCOLOGY DRUG DEVELOPMENT AND FUTURE PERSPECTIVE 高等分子生物學/3 ADVANCED MOLECULAR BIOLOGY 新藥臨床試驗之倫理、法規與開發/1 ETHICS, REGULATIONS AND DEVELOPMENT OF NEW DRUG CLINICAL TRIALS 轉譯醫學 (一) /2 E TRANSLATIONAL MEDICINE(1) 高等儀器分析(一) /2 ADIANCED INSTRUMENT ANALYSIS(1)	免疫新知及其在癌症及免疫疾病的應用/1 CURRENT IMMUNOLOGY AND ITS APPLICATION IN MEDICINE FOCUSING ON CANCER AND AUTOIMMUNE DISEASE 腫瘤免疫治療—過去、現在與展望/1 LANDSCAPE OF IMMUNO-ONCOLOGY DRUG DEVELOPMENT AND FUTURE PERSPECTIVE ★免疫學/3 GRADUATE IMMUNOLOG ★醫療器材創新設計(一)/3 BIODESIGN(1)	人類疾病動物模式/2 E ANIMAL MODELS OF HUMAN DISEASE 實驗室實習/1 LABORATORY INTERNSHIP 幹細胞技術/2 TECHNOLOGY OF STEM CELLS 臨床與實驗神經科學/1 CLINICAL AND EXPERIMENTAL NEUROSCIENCE 分子細胞學(一)/2 MOLECULAR CELL BIOLOGY(1)	臨床試驗概論/2 INTRODUCTION FOR CLINICAL TRIALS	人類遺傳流行病學與次世代定序資料分析/1 HUMAN GENETIC EPIDEMIOLOGY AND NEXT-GENERATION SEQUENCING DATA ANALYSIS 臨床研究方法 (一): 臨床生物統計/1 BIostatistics IN CLINICAL RESEARCH 生物技術特論(一)/1 E ADVANCED BIOTECHNOLOGY(1) 生物技術特論(三)/1 E ADVANCED BIOTECHNOLOGY(3)
下學期 2 nd Semester	高等儀器分析(二)/2 ADIANCED INSTRUMENT ANALYSIS(2) 細胞訊息傳遞與新藥開發/2 E SIGNAL TRANSDUCTION IN DRUG DEVELOPMENT 腫瘤生物學特論/2 SPECIAL TOPICS IN TUMOR BIOLOGY 單株抗體的臨床運用—在癌症及免疫等疾病/1 THE APPLICATION OF THE MONOCLONAL ANTIBODY IN MEDICINE FOCUSING ON CANCER AND AUTOIMMUNE DISEASE ★分子腫瘤學書報討論(一)/1 MOLECULAR ONCOLOGY JOURNAL CLUB(1) ★分子腫瘤學書報討論(二)/1 MOLECULAR ONCOLOGY JOURNAL CLUB(2)	★實驗動物學/2 LABORATORY ANIMAL SCIENCE 單株抗體的臨床運用— 在癌症及免疫等疾病/1 THE APPLICATION OF THE MONOCLONAL ANTIBODY IN MEDICINE FOCUSING ON CANCER AND AUTOIMMUNE DISEASE 細胞免疫/2 CELLULAR IMMUNOLOGY	高等儀器分析(二)/2 ADIANCED INSTRUMENT ANALYSIS(2) 再生醫學技術/2 TECHNOLOGY OF REGENERATIVE MEDICINE 神經退化致病機轉/2 PATHOGENESIS OF NEURODEGENERATIVE DISEASES 分子細胞學(二)/2 MOLECULAR CELL BIOLOGY(2) 脊椎動物的再生醫學實驗模型 /2 E EXPERIMENTAL MODELS FOR VERTEBRATE REGENERATIVE MEDICINE 癲癇學特論/1 SPECIAL TOPICS IN EPILEPSY	★實驗動物學/2 LABORATORY ANIMAL SCIENCE 心血管疾病機轉及治療趨勢概論/2 CARDIOVASCULAR FORUM IN DISEASE MECHANISM AND THERAPEUTIC TRENDS	臨床研究方法(二): 研究設計與臨床應用/1 CLINICAL RESEARCH DESIGN AND CLINICAL APPLICATION 臨床研究資料分析與軟體實務/2 DATA ANALYSIS AND SOFTWARE PRACTICE FOR CLINICAL RESEARCH 生物技術特論(二)/1 E ADVANCED BIOTECHNOLOGY(2) 生物技術特論(四)/1 E ADVANCED BIOTECHNOLOGY(4)
五大研究領域選修課程-各領域皆可選 Selected Curriculum for Each Research Area					
上學期 1 st Semester	論文選讀/1 E SELECTED WRITING				
下學期 2 nd Semester	科學論文寫作與報告/1 E SCIENTIFIC WRITING AND PRESENTATION				
與他所合開(未被排入五大領域)課程 curriculum is not classified to 5 Areas 皆為選修課 (all are Selected Curriculum)					
上學期 1 st Semester	細胞生物學特論(一)/2 SPECIAL TOPICS IN CELL BIOLOGY(1) 生物資訊/3 BIOINFORMATICS 生物統計學/2 BIostatistics 流行病學/2 E EPIDEMIOLOGY				
下學期 2 nd Semester	細胞生物學特論(二)/2 SPECIAL TOPICS IN CELL BIOLOGY(2) 血管新生學/2 ANGIOGENESIS 實用流行病學/2 APPLIED EPIDEMIOLOGY				