

109 年本校第二季(4-6 月)重要論文

學院	系所	姓名	作者序	論文題目/重點說明	期刊	年度/月份	Impact Factor	期刊領域排名百分比
醫學院	藥理所	邱士華	通訊作者	Dual Supramolecular Nanoparticle Vectors Enable CRISPR/Cas9-Mediated Knockin of Retinoschisin 1 Gene-A Potential Nonviral Therapeutic Solution for X-Linked Juvenile Retinoschisis (第一篇使用奈米顆粒運輸，並在活體眼睛內進行基因編輯技術。)	Advanced Science	2020/04	15.8	6/94 (6.3%)
醫學院	腦科所	蔡金吾	通訊作者	Pathogenic variants in CEP85L cause sporadic and familial posterior predominant lissencephaly (成功運用次世代基因體分析找到新的中心體基因突變造成平腦症，發現腦部發育疾病的新基因 CEP85L。)	Neuron	2020/04	14.415	6/271 (2.2%)
醫學院	醫學系皮膚學科	洪千惠	第一作者	Selective AhR knockout in langerin-expressing cells abates Langerhans cells and polarizes Th2/Tr1 in epicutaneous protein sensitization (Experimenting with Langerin-specific AhR ^{-/-} mice, we discovered that AhR-deficient epidermal LC were reduced in number and, following epicutaneous protein (Ova) immunization, promoted T helper type-2 (Th2) and T regulatory type-1 (Tr1) responses, leading to increased Ova-specific IgE in the blood.)	Proceedings of the National Academy of Sciences of the USA (PNAS)	2020/06	9.412	8/71 (11.27%)

醫學院	醫學系 內科學科	黃怡翔	通訊作者	Low but Long-lasting Risk of Reversal of Seroconversion in Patients With Rheumatoid Arthritis Receiving Immunosuppressive Therapy (康復型 B 型肝炎的類風溼性關節炎患者一旦開始接受免疫抑制劑治療，就必須持續追蹤 B 型肝炎表面抗原及病毒量)	Clinical Gastroenterology and Hepatology	2020/05	8.549	10/88 (11.36%)
醫學院	醫學系	陳亮恭	第一作者及通訊作者	Efficacy of multidomain interventions to improve physical frailty, depression and cognition: data from cluster-randomized controlled trials (Pragmatic multidomain intervention can diminish physical frailty, malnutrition, and depression and enhance cognitive performance among community-dwelling elders, especially ≥ 75 -year-olds; this might supplement healthy aging policies, probably more effectively if participants are empowered)	Journal of Cachexia Sarcopenia and Muscle	2020/05	10.754	1/53 (1.89%)
牙醫學院	口生所	黎萬君	通訊作者	Regulatory Role of Hexokinase 2 in Modulating Head and Neck Tumorigenesis (抑制 HK2 皆可以有效抑制頭頸癌細胞癌化程度。也為利用 HK2 做為標靶調控分子，發展治療或預防頭頸癌的方法及藥劑提供實證。)	Frontiers in Oncology	2020/03	4.848	69/244 (28.2%)
生科院	生化所	郭津岑	通訊作者	Cell-Cell Adhesion-Driven Contact Guidance and Its Effect on Human Mesenchymal Stem Cell Differentiation. (建立圖案化的細胞黏著平台證明 focal adhesions (cell-extracellular matrix adhesions)和 cadherin-based adhesions (cell-cell adhesions)在有系統排列的作用下，透過其黏著訊號的交互作用，有效率的促進間葉幹細胞骨分化的能力。)	ACS Applied Materials & Interfaces.	2020/04	8.758	33/314 (10.51%)

生科院	微免所	張佩靖	通訊作者	Muscle atrophy-related myotube-derived exosomal microRNA in neuronal dysfunction: Targeting both coding and long noncoding RNAs (發現老化肌肉分泌之外吐小體，透過血液進到神經細胞，進而影響神經功能。)	Aging Cell	2020/05	7.238	3/53 (5.66%)
藥物科學院	生藥所	金翠庭	通訊作者	AMPK-mediated formation of stress granules is required for dietary restriction-induced longevity in Caenorhabditis elegans (Our findings unveil a novel role of SG formation in DR-induced longevity.)	Aging Cell	2020/05	7.346	3/53 (5.66%)
生醫工程學院	醫工系	蔡瑞瑩	通訊作者	Drug Release from a Spherical Matrix: Theoretical Analysis for a Finite Dissolution Rate Affected by Geometric Shape of Dispersed Drugs (精確估算出不同載藥系統以簡化之 Higuchi's Model 估算藥物釋放速率其可能造成之誤差大小。此為文獻上首見，可用以判斷 Higuchi's Model 是否適用之報導。)	Pharmaceutics	2020/06	4.421	44/270 (16.3%)
生醫工程學院	光電所	薛特	通訊作者	Upconversion nanoparticle-mOrange protein FRET nanoprobe for self-ratiometric/ratiometric determination of intracellular pH, and single cell pH imaging (A time-resolved fluorescence blocking lateral flow immunoassay based on EuNPs-virus antigen probe was first developed.)	BIOSENSORS & BIOELECTRONICS	2020/05	9.518	1/84 (1.19%)

生醫工程學院	光電所	吳育德	通訊作者	Combining analysis of multi-parametric MR images into a convolutional neural network: Precise target delineation for vestibular schwannoma treatment planning (與北榮加馬刀團隊合作所收集之國際最大多時間點資料庫，以深度學習自動精準分割磁振造影聽神經瘤)	Artificial Intelligence In Medicine	2020/06	4.383	3/27 (11.11%)
人社院	人社中心	邱剛彥	第一作者	Walter Scott's First Chinese Critic-Mao Dun (檢視茅盾的司各特評論作品，用以明瞭他對司各特作品的理解與掌握，並揭示其於散播司各特作品與推動中國文學現代化過程產生之影響。)	Scottish Literary Review (英國)	2020/06		Scottish Literary Review 是藝術人文索引 (A&HCI) 收錄的期刊，學術界公認為研究蘇格蘭文學排名第一的國際期刊。