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一者，孝養父母、奉事師長、
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二者，受持三皈、聚足眾戒、
不犯威儀。

三者，發菩提心、深信因果、
讀誦大乘、勸進行者。

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現任

- 國立嘉義大學 生命科學院 微生物免疫與生物藥學系 教授 (2013 / 08-迄今)
- Nutrients 期刊 Special Issue “Anticancer Activities of Dietary Phytochemicals: 2nd Edition” Guest Editor 客座編輯 (2024/09/11-2026/04/05)

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Special Issue

Anticancer Activities of Dietary Phytochemicals: 2nd Edition

Guest Editors
Prof. Dr. Ching-Hsein Chen
Prof. Dr. Yi-Wen Liu

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學歷

- 國立台灣大學醫學院生化學研究所博士(2001)
- 台北醫學院天然物醫學所碩士(1994)
- 高雄醫學院藥學系學士(1992)

榮譽

- 榮獲 99~103 年度科技部補助大專校院獎勵特殊優秀人才

歷屆指導的專題研究生畢業後就讀的研究所

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	吳予 (生化系)	成功大學	臨床醫學研究所
99 級	林婉蓁	嘉義大學	微生物免疫與生物藥學系碩士班

經歷

- Nutrients 期刊 Special Issue “Anticancer Activities of Dietary Phytochemicals “ 客座編輯 (2023/08/8-2024/08/25)
https://www.mdpi.com/journal/nutrients/special_issues/64AVO88A04
- 國立嘉義大學 生命科學院 微生物免疫與生物藥學系 系主任(2014 / 08-(2017 / 07)
- 科技部專題研究計畫初審委員(2015/03、2014/04、2014/03、2013/03、2011/01)
- 經濟部技術處學界開發產業技術計畫審查委員(2012/02/08)
- 經濟部技術處在地型科專計畫審查委員(2011/08/17)
- 國立嘉義大學 生命科學院 微生物免疫與生物藥學系 副教授(2006 / 08-2013/07)

- 國立嘉義大學 學生事務處 衛生保健組組長(2008 / 08-2009 / 07)
- 輔英科技大學副教授(2005 / 08-2006 /7)
- 輔英科技大學助理教授(2001 / 08-2005 /7)
- 藥師國家考試及格 1992
- 南部科學工業園區管理局「創新技術研究發展產學合作計畫」獎助案審核小組委員(2008 /01/01-2010 /12/31)
- 嘉義市政府 97 年度「地方產業創新研發推動計畫(地方型 SBIR)」——「機能性中草藥食品新劑型開發研究計畫」審查委員(2008/08/05)
- 行政院衛生署藥物食品檢驗局 Journal of Food and Drug Analysis 期刊論文審查(2010/03/30、2010/03/02、2009/12/22、2009/09/15)
- 行政院農委會水產試驗所 Journal of Taiwan Fisheries Research 期刊論文審查(2010/08/10、2010/07/02)
- Acta Tropica 期刊論文審查(2009/11/09)
- Archives of Pharmacal Research 期刊論文審查(2012/08/22)
- Acta Pharmacologica Sinica 期刊論文審查(2006/06/01)
- Annals of Surgical Oncology 期刊論文審查(2011/12/20、2011/10/17、2011/09/12、2011/07/12、2011/05/11-1、2011/05/11-2、2010/11/23、2010/08/10)
- Anti-Cancer Drugs 期刊論文審查(2013/11/10、2013/09/12、2013/01/11、2012/11/09、2012/02/27、2010/10/30、2010/08/22、2010/05/03)
- Apoptosis 期刊論文審查(2011/08/01)
- Archives of Toxicology 期刊論文審查(2009/08/03)
- Biochemical Pharmacology 期刊論文審查(2015/07/15、2015/02/16、2015/01/15、2014/06/12、2013/12/25、2013/08/20、2013/04/22、2013/01/25、2012/10/05、2012/08/14、2012/02/10、2011/11/18、2011/05/18、2011/02/14、2011/02/05、2010/11/08、2010/09/21、2010/08/20、2010/06/25、2010/05/20)
- BMC Complementary and Alternative Medicine 期刊論文審查(2014/07/16、2014/05/25、2013/04/23)
- Cancer Letters 期刊論文審查委員(2009/02/10、2007/12/05、2006/12/05)
- Cancer Letters 期刊論文審查(2009/01/28、2008/08/01、2007/11/14、2006/11/15、2006/11/06、2006/09/08、2006/08/30、2006/08/11、2006/06/14)
- Cell Biochemistry and Biophysics 期刊論文審查(2013/03/15)
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- Journal of Agricultural and Food Chemistry 期刊論文審查(2015/05/08、2014/06/02、2014/04/09、2014/02/13、2013/10/17、2013/09/06、2013/08/26、2013/07/09、2013/03/16、2013/02/05、2012/10/04、2012/06/28、2012/01/25、2011/12/20、2011/12/13、2011/11/01、2011/08/20、2011/05/17、2011/04/11、2011/03/19、2011/02/08、2010/08/17、2010/03/31、2010/01/29、2009/12/23、2009/11/19、2009/09/01、2009/08/28、2009/08/04、2009/06/19、2009/05/08、2009/04/08、2008/10/07、2008/05/30、2008/04/08、2008/03/26、2008/02/29、2008/01/23、2006/07/14)
- Journal of Bioscience and Bioengineering 期刊論文審查(2015/12/31、2015/03/09、2014/10/16、2014/05/06、2013/10/15、2012/11/19)
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- Journal of Medicinal Foods 期刊論文審查(2013/09/10、2013/05/30、2013/03/21、2009/09/04)
- JNHA - The Journal of Nutrition, Health and Aging 期刊論文審查(2012/08/28)
- Journal of Natural Products 期刊論文審查(2008/11/20)
- Journal of Nutritional Biochemistry 期刊論文審查(2011/07/26)
- Journal of the Science of Food and Agriculture 期刊論文審查(2012/08/21、2011/02/11、2009/04/30)
- Journal of Urology 期刊論文審查(2012/12/28)
- JOVE 期刊論文審查(2015/03/16)
- Letters in Drug Design & Discovery – Online (LDDD- Online) 期刊論文審查(2010/01/14)
- Molecular Cancer 期刊論文審查(2013/10/21)
- Molecular and Cellular Biochemistry 期刊論文審查(2009/10/20)
- Molecular Nutrition & Food Research 期刊論文審查(2014/09/12、2012/07/06、2010/03/09、2009/02/28、2007/10/27、2007/07/23)
- Neuroscience Letters 期刊論文審查(2011/05/12)
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- Process Biochemistry 期刊論文審查(2011/09/27、2011/07/20、2010/12/09、2010/05/17、2010/05/03、2010/04/07、2010/04/03、2009/10/19)

- Toxicology Letters 期刊論文審查(2013/01/16)
- Tumor Biology 期刊論文審查(2015/09/24、2015/09/07、2015/08/11、2015/08/11、2015/08/03、2015/05/04、2015/02/14、2015/02/09、2015/01/24、2015/01/07、2014/12/17、2014/11/29、2014/10/16、2014/09/17、2014/08/17、2014/07/25、2014/06/18、2014/05/07、2014/04/25、2013/12/31、2013/07/24、2013/05/31、2013/05/22、2013/05/10、2013/04/05、2013/03/19)

專長

- 自由基生物醫學
- 氧化壓力與疾病研究
- 細胞凋亡暨食品化學毒理學
- 癌症的化學預防學
- 流式細胞儀在細胞生物學上的應用
- 細胞生物學研究
- 天然物抗癌活性研究
- 天然物抗發炎研究

研究室簡介

陳俊憲老師實驗室的研究領域是針對各種天然物或植物的萃取成分進行抗癌、抗氧化與抗發炎作用等三大主題的研究。在抗癌方面，以各種萃取成分誘導各種人類癌細胞計畫性死亡(apoptosis)的現象與作用機轉進行探討。在抗氧化方面，建立各種氧化物質，如H₂O₂、cumene peroxide或menadione對人類細胞造成氧化壓力的傷害模式，進而篩選各種萃取成分的抗氧化能力，並將具有抗氧化能力的成分進行抗氧化作用機轉的探討。在抗發炎方面，建立各項誘導發炎反應的實驗模式，篩選各種萃取成分抑制cyclooxygenase 2 (COX-2)與prostaglandin E₂ (PGE₂)的能力，並致力於探討抗發炎的作用機轉。期能將研究成果提供給基礎醫學或臨床醫學的先進，進而提升國人的健康。

研究計畫 (Grant Proposals)

- 氧化壓力調控在抗癌物對人類大腸癌細胞誘導細胞凋亡與抑制轉移的研究。(主持人，102~105年度，全程執行期限 102/08/01~105/07/31，NSC 102-2320-B-415 -005 -MY3 國科會 3,540,000 元)
- 蘭嶼烏心石葉部萃取物 liriodenine 抗大腸癌與抗發炎之研究。(主持人，99~101 年度，全程執行期限 99/08/01~102/07/31，NSC 99-2320-B-415 -002 -MY3 國科會 3,007,000 元)
- 以氧化狀態、基因體、蛋白質體之分析方法學探討藥物使用過程中生物檢體(細胞)檢體的變化—藥物(butanolides/buprenorphine/methadone)使用對人體血液細胞及肝癌細胞功能影響之探討(共同主持人，97 年度 NSC 97-2113-M-242-001- 國科會 513,000 元)
- 臺灣產樟屬植物活性成分之研究(共同主持人，97~99 年度 NSC 97-2320-B-242-002-MY 國科會 3,306,000 元)
- 生薑萃取成分 6-shogaol 抗癌作用分子機轉之研究。(主持人，96~98 年度，全程執行期限 96/08/01~99/07/31，NSC 96-2320-B-415 -002 -MY3 國科會 3,814,000 元)
- 吸入性麻醉劑七氟烷對支氣管上皮及血管內皮細胞之影響--探討自由基生成機制、發炎及細胞貼附反應(共同主持人，96~97 年度 NSC 96-2320-B-040-008-MY2 國科會 1,916,000 元)
- 臺灣產木蘭科植物活性成分之研究 (I) (共同主持人，96 年度 NSC 96-2320-B-242 -005 國科會 1,026,000 元)

- 蘭嶼肉桂 *Cinnamomum kotoense* 萃取成分 secokotomolide A 抗癌作用之研究:誘導活性氧物質與一氧化氮造成癌細胞死亡之作用機轉。(主持人, 95 年度 NSC 95-2320-B-415 -005 國科會 1,000,000 元)
- 吸入性麻醉劑七氟烷對人類多形核白血球之影響。(共同主持人, 95 年度 NSC 95-2320-B-040-014 國科會 934,000 元)
- 欖仁皮萃取成分 casuarinin 與 menadione 協同誘導癌細胞計畫性死亡之研究。(主持人, 94 年度 NSC 94-2320-B-242-007- 國科會 860,000 元)
- 以流式細胞儀分析活性氧物質在 pyrrolizidine alkaloids 誘導癌細胞計畫性死亡之研究。(共同主持人, 94 年度 NSC 94-2113-M-468-003- 國科會 409,000 元)
- 欖仁皮萃取成分 casuarinin 對活性氧物質造成細胞內氧化壓力與 DNA 傷害的保護作用之研究。(主持人, 93 年度 NSC 93-2314-B-242-015- 國科會 531,400 元)
- 山肉桂活性成分之研究。(共同主持人, 93 年度 NSC 93-2320-B-242-009-國科會 500,000 元)
- Shikonin 誘導人類癌細胞計畫性死亡發生的研究:包含活性氧物質、粒線體、caspases 活性與抗氧化酵素。(主持人, 92 年度 NSC 92-2314-B-242-009- 國科會 282,000 元)
- Shikonin 誘導人類癌細胞計畫性死亡作用機轉的研究。(主持人, 91 年度 NSC 91-2314-B-242-004- 國科會 670,000 元)

博士學位論文

- 半枝蓮萃取物 baicalein 暨紫草萃取物 shikonin 引發人類肝癌細胞計畫性死亡作用機轉的研究。國立台灣大學醫學院生化學研究所

文獻著作(Publications)

(刊登雜誌分類排名以 Journal Citation Report (JCR) 2024 年版本之 SCI 及 SSCI 期刊資料為準)

1. Chun-Yik Lew, Yi-Teng Tang, Amanda Yee-Jing Lee, Zhi-Jian Chin, Wan-Ling Chang, **Ching-Hsein Chen*** and Soi-Moi Chye*. Shikonin as a dietary phytochemical with multi-target anti-cancer activities: from molecular mechanisms to translational applications. **Nutrients 2025 Sep;** 17 (19): 3085. <https://doi.org/10.3390/nu17193085> [SCI] (Co-corresponding Author) (Impact factor: 5.0; NUTRITION & DIETETICS 排名: Q1, 17/112)
2. Wan-Ling Chang, Jyun-Yu Peng, Chain-Lang Hong, Pei-Ching Li, Soi Moi Chye, Fung-Jou Lu, Huei-Yu Lin, Ching-Wei Shih, **Ching-Hsein Chen** *. Piperine induces apoptosis and cell cycle arrest via multiple oxidative stress mechanisms and regulation of PI3K/Akt and MAPK signaling in colorectal cancer cells. **Antioxidants 2025 Jul;** 14 (7): 892. <https://doi.org/10.3390/antiox14070892> [SCI] (Corresponding Author) (Impact factor: 6.6; BIOCHEMISTRY & MOLECULAR BIOLOGY 排名: Q1, 45/319)
3. Wan-Ling Chang, Kai-Chien Yang, Jyun-Yu Peng, Chain-Lang Hong, Pei-Ching Li, Soi Moi Chye, Fung-Jou Lu, Ching-Wei Shih, **Ching-Hsein Chen** *. Parecoxib enhances resveratrol against human colorectal cancer cells through Akt and TXNDC5 inhibition and MAPK regulation. **Nutrients 2024 Sep;** 16 (17): 3020. <https://doi.org/10.3390/nu16173020> [SCI] (Corresponding Author) (Impact factor: 5.0; NUTRITION & DIETETICS 排名: Q1, 17/112)
4. Wan-Ling Chang, Jyun-Yu Peng, Chain-Lang Hong, Pei-Ching Li, Fung-Jou Lu, **Ching-Hsein Chen** *. Parecoxib and 5-fluorouracil synergistically inhibit EMT and subsequent metastasis in colorectal cancer by targeting PI3K/Akt/NF-κB signaling. **Biomedicines 2024 Jul;** 12 (7): 1526.

<https://doi.org/10.3390/biomedicines12071526> [SCI] (Corresponding Author) (Impact factor: 3.9; PHARMACOLOGY & PHARMACY 排名: Q1, 88/352)

5. Chung Hang Wong, Wan-Ling Chang, Fung-Jou Lu, Yi-Wen Liu, Jyun-Yu Peng, **Ching-Hsein Chen***. Parecoxib expresses anti-metastasis effect through inhibition of epithelial-mesenchymal transition and the Wnt/ β -catenin signaling pathway in human colon cancer DLD-1 cell line. **Environmental Toxicology 2022 Nov;** 37: 2718-2727. [SCI] (Corresponding Author) (Impact factor: 3.2; WATER RESOURCES排名: Q2, 42/131)
6. Hung-Chih Hsu, Yen-Liang Ke, Yi-Hsuan Lai, Wei-Chi Hsieh, Chu-Hsu Lin, Shih-Shin Huang, Jyun-Yu Peng, **Ching-Hsein Chen***. Chondroitin sulfate enhances proliferation and migration via inducing β -catenin and intracellular ROS as well as suppressing metalloproteinases through Akt/NF- κ B pathway inhibition in human chondrocytes. **Journal of Nutrition Health & Aging 2022 Feb;** 26: 307-313. [SCI] (Corresponding Author) (Impact factor: 4.0; NUTRITION & DIETETICS 排名: Q2, 31/112)
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