



淨業三福：

一者，孝養父母、奉事師長、
慈心不殺、修十善業。

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。

陳俊憲 博士 Ching-Hsein Chen Ph.D.

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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)
- 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-迄今)
- Nutrients 期刊 Special Issue “Anticancer Activities of Dietary Phytochemicals “ 客座編輯
(2023/08-2024/08) https://www.mdpi.com/journal/nutrients/special_issues/64AVO88A04

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

經歷

- 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)
- Cellular Oncology 期刊論文審查(2012/05/22)
- Chemical Research in Toxicology 期刊論文審查(2013/07/27)
- Disease Markers 期刊論文審查(2008/09/29)
- Environmental Toxicology 期刊論文審查(2010/07/15、2010/02/12)
- Enzyme and Microbial Technology 期刊論文審查(2009/03/19)
- European Journal of Integrative Medicine 期刊論文審查(2013/02/20)
- Evidence Based Complementary and Alternative Medicine 期刊論文審查(2014/12/04、2012/10/12、2009/04/13)
- Fitoterapia 期刊論文審查(2009/06/06)
- Food and Chemical Toxicology 期刊論文審查(2013/06/27、2008/07/08、2005/11/17)
- Food & Function 期刊論文審查(2015/12/25、2015/11/26、2015/09/15、2015/05/14、2014/06/07、2014/05/25、2012/08/27)
- Free Radical Research 期刊論文審查(2013/04/08)
- Immunopharmacology and Immunotoxicology 期刊論文審查(2010/10/07)
- International Journal of Nanomedicine 期刊論文審查(2012/07/12)
- 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)
 - Journal of Food and Drug Analysis 期刊論文審查(2015/08/14)
 - Journal of Functional Foods 期刊論文審查(2014/02/01)
 - 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)
 - Natural Product Communications 期刊論文審查(2010/10/15、2010/02/05)
 - Natural Product Research 期刊論文審查(2015/03/17、2013/01/29、2012/02/26、2011/08/24、
2011/05/18、2011/02/18、2010/12/06、2010/07/13、2010/03/10)
 - Oncotargets 期刊論文審查(2015/10/16、2015/08/25、2015/03/07)
 - Pharmaceutical Biology 期刊論文審查(2014/06/23、2010/12/09)
 - Plant Foods for Human Nutrition 期刊論文審查(2012/10/09)
 - PLOS ONE 期刊論文審查(2015/10/16、2015/07/31、2015/07/19、2015/06/10、2015/05/14、
2015/04/07、2014/12/29、2014/10/21、2014/10/01、2014/10/01、2014/09/10、2014/08/23、
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2014/04/11、2014/02/23、2014/02/13、2014/02/01、2014/01/15、2013/12/25、2013/11/01、
2013/09/17、2013/06/26、2013/04/23、2013/04/09、2013/02/21)
 - 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) 2021 年版本之 SCI 及 SSCI 期刊資料為準)

1. 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, 85/354)
2. 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: 4.4; TOXICOLOGY排名: Q1, 18/106)
3. 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-κB pathway inhibition in human chondrocytes. **Journal of Nutrition Health & Aging 2022 Feb;** 26: 307-313. [SCI] (Corresponding Author) (Impact factor: 4.3; NUTRITION & DIETETICS 排名: Q1, 26/114)
4. Jen-Tsung Yang, I-Neng Lee, Chun-Han Chen, Fung-Jou Lu, Chiu-Yen Chung, Ming-Hsueh Lee, Yu-Ching Cheng, Kuo-Tai Chen, Jyun-Yu Peng, **Ching-Hsein Chen***. Gallic acid enhances the anti-cancer effect of temozolomide in human glioma cell line via inhibition of Akt and p38-MAPK pathway. **Processes 2022 Feb;** 10: 448. [SCI] (Corresponding Author) (Impact factor: 2.8; ENGINEERING, CHEMICAL 排名: Q2, 80/170)
5. Chien-Neng Kuo, **Ching-Hsein Chen**, San-Ni Chen, Jou-Cheng Huang, Li-Ju Lai, Chien-Hsiung Lai, Chia-Hui Hung, Chien-Hsing Lee, Chung-Yi Chen. Anti-angiogenic effect of hexahydrocurcumin in rat corneal neovascularization. **International Ophthalmology 2018 Apr;** 38: 747-756. [SCI] (Co-first Author) (Impact factor: 1.4; OPHTHALMOLOGY 排名: Q3, 61/95)
6. Jen-Tsung Yang, I-Neng Lee, Fung-Jou Lu, Chiu-Yen Chung, Ming-Hsueh Lee, Yu-Ching Cheng,

- Kuo-Tai Chen, **Ching-Hsein Chen***. Propyl Gallate Exerts an anti-migration effect on temozolomide-treated malignant glioma cells through Inhibition of ROS and the NF- κ B Pathway. **Journal of Immunology Research 2017 Sep**; 2017: 9489383. [SCI] (**Corresponding Author**) (Impact factor: 3.5; IMMUNOLOGY 排名: Q2, 90/181)
7. Su Mei Wu, Li-Hsin Shu, Jia-Hao Liu, **Ching Hsein Chen**. Anti-oxidative responses on hepatic tissue of zebrafish (*Danio rerio*) in a short duration of sub-lethal concentrations of cadmium Exposure. **Bulletin of Environmental Contamination and Toxicology 2017 Mar**; 98: 612-618. [SCI]. (Impact factor: 2.7; ENVIRONMENTAL SCIENCES 排名: Q3, 192/358)
 8. Hung-Chih Hsu, Wen-Ming Chang, Jin-Yi Wu, Chin-Chin Huang, Fung-Jou Lu, Yi-Wen Chuang, Pey-Jium Chang, Kai-Hua Chen, Chang-Zern Hong, Rang-Hui Yeh, Tsan-Zon Liu*, **Ching-Hsein Chen***. Folate deficiency triggered apoptosis of synoviocytes: role of overproduction of reactive oxygen species generated via NADPH oxidase/mitochondrial complex II and calcium perturbation. **PLoS ONE 2016 Jan**; 11: e0146440. [SCI] (Corresponding Author) (Impact factor: 2.9; MULTIDISCIPLINARY SCIENCES 排名: Q1, 31/134)
 9. Chishih Chu, Fung-Jou Lu, Rang-Hui Yeh, Zih-Ling Li, **Ching-Hsein Chen***. Synergistic antioxidant activity of resveratrol with genistein in high glucose incubation in Madin-Darby canine kidney epithelial cells. **Biomedical Reports 2016 Mar**; 4, 349-354. (Corresponding Author). (Impact factor: 2.3; MEDICINE, RESEARCH & EXPERIMENTAL JCI排名: Q3, 112/189)
 10. Su Mei Wu, Jia-Hao Liu, Li-Hsin Shu, **Ching Hsein Chen**. Anti-oxidative responses of zebrafish (*Danio rerio*) gill, liver and brain tissues upon acute cold shock. **Comparative Biochemistry and Physiology A-Molecular & Integrative Physiology 2015 Jun**; 187, 202-213. [SCI] (Impact factor: 2.039; ZOOLOGY排名: 26/161=16.15%) (Impact factor: 2.1; ZOOLOGY排名: Q1, 23/180)
 11. Chi-You Wu, Chih-Ping Hsu, Chih-Cheng Lin, Fung-Jou Lu, Chiu-Chen Huang, Yi-Hsien Lin, **Ching-Hsein Chen***. Different mechanisms of seed kernel extract from *Mangifera Indica* on the growth of two colon cancer cell lines. **Food and Nutrition Sciences 2015 Mar**; 6, 421-428. (**Corresponding Author**) (Google-based Impact Factor: 0.92) (NSC 99-2320-B-415-002-MY3) (NSC 102-2320-B-415-005-MY3)
 12. Chung-Yi Chen, Zih-Ling Li, King-Thom Chung, Fung-Jou Lu, **Ching-Hsein Chen***. Liriodenine enhances the apoptosis effect of valproic acid in human colon cancer cells through oxidative stress upregulation and Akt inhibition. **Process Biochemistry 2014 Oct**; 40:1990-2000. [SCI] (**Corresponding Author**) (Impact factor: 3.7; ENGINEERING, CHEMICAL 排名: Q2, 58/170) (NSC 99-2320-B-415-002-MY3) (NSC 102-2320-B-415-005-MY3)
 13. Jen-Tsung Yang, Zih-Ling Li, Jin-Yi Wu, Fung-Jou Lu, **Ching-Hsein Chen***. An oxidative stress mechanism of shikonin in human glioma cells. **PLoS ONE 2014 Apr**; 9: e94180. [SCI] (Corresponding Author) (Impact factor: 2.9; MULTIDISCIPLINARY SCIENCES 排名: Q1, 31/134)
 14. Jin-Biou Chang, Chih-Chuan Lin, Jeng-Fong Chiou, Shin-Yi Mau, Tsan-Zon Liu*, **Ching-Hsein Chen***. Treatment of acute paraquat intoxication using recommended megadose of vitamin C: A reappraisal. **Free Radical Research 2013 Dec**; 47:991-1001. [SCI] (**Corresponding Author**) (Impact factor: 3.6; BIOCHEMISTRY & MOLECULAR BIOLOGY排名: Q2, 126/313)
 15. Hung-Chih Hsu, Jeng-Fong Chiou, Yu-Huei Wang, Chia-Hui Chen, Shin-Yi Mau, Chun-Te Ho,

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