

中文履歷

黃啟彰 博士

特聘教授兼任研發長

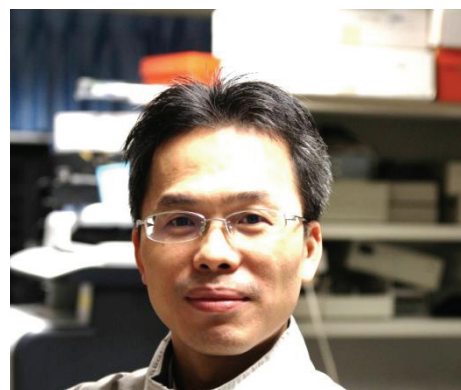
國立體育大學/運動科學研究所/運動營養領域

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學歷

畢業學校	國別	科系所或主要學門	學位	起訖年月
臺北醫學大學	中華民國	藥學系博士班	理學博士	2001/09 至 2005/06
臺北醫學大學	中華民國	保健營養學研究所	理學碩士	1999/09 至 2001/06
輔仁大學	中華民國	生活應用科學系	理學學士	1995/09 至 1999/06

現職與學術經歷

服務機關	服務部門	職稱	起訖年月
現職：			
國立體育大學	研究發展處	研發長	2018/08 – 迄今
國立體育大學		特聘教授	2020/08 至 2023/07
國立體育大學	運動科學研究所	教授 (教育部教字第 141797)	2016/08 – 迄今
臺灣運動營養學會		監事	2013/09 – 迄今
經歷：			
國立體育大學	運動科學研究所	所長	2016/08 至 2018/07
國立體育大學	運動科學研究所	副教授	2013/08 至 2016/07
中華民國運動教練學會	運動教練科學學刊	執行編輯	2013/08 至 2018/07
國立體育大學	研發處	產學合作暨創新育成中心主任	2012/08 至 2018/07
國立體育大學	教務處	招生組組長	2010/08 至 2012/07
國立體育大學	運動科學研究所	助理教授	2010/08 至 2013/07

台北醫學大學	保健營養學系	兼任助理教授	2010/08 至 2013/07
台北醫學大學	保健營養學系	國科會博士後研究員	2010/02 至 2010/07
中央研究院	農業生物科技研究中心	博士後研究學者	2006/01 至 2010/01

■ 過去所獲得的獎項或獎勵

獎項名稱	年/月
行政院科技部大專校院獎勵特殊優秀人才	2013/08-2022/07
國立體育大學產學合作獎	2013-2021
國立體育大學學術研究獎	2011-2021
行政院科技部未來科技展-科技突破獎	2018/12
行政院教育部體育署-110 年度運動科學研究及發展獎勵-佳作	2021/10
行政院教育部體育署-109 年度運動科學研究及發展獎勵-優等獎	2020/09
行政院教育部體育署-108 年度運動科學研究及發展獎勵-甲等獎	2019/12
行政院教育部體育署-106 年度運動科學研究及發展獎勵-甲等獎	2017/12
行政院教育部體育署-105 年度運動科學研究及發展獎勵-優等獎	2016/12
行政院教育部體育署-103 年度運動科學研究及發展獎勵-佳作	2014/12
行政院教育部體育署-102 年度運動科學研究及發展獎勵-優等獎	2013/12
行政院經濟部智慧財產局 103 年度國家發明創作獎-發明獎銀牌	2014/11
第五屆運動科技應用論文競賽-佳作	2015/11
第四屆運動科技應用論文競賽-佳作	2014/10
國立體育大學優良教師	2015/09
國立體育大學優良導師	2015/02

■ 研究專長

1. 運動醫學	2. 運動營養	3. 保健食品	4. 天然活性成分研發
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■ 國際期刊審查

自 2010 年開始，受邀擔任多份國際學術期刊的審閱委員 Peer Reviewer：

Journal of Medicinal Food; Journal of Metabolomics and Systems Biology; Journal of the Science of Food and Agriculture; International SportMed Journal; The FASEB Journal; Journal of Nutritional Biochemistry; International Journal of Molecular Sciences; BMC Complementary and Alternative

Medicine; Chemistry Central Journal; Oxidative Medicine and Cellular Longevity; Translational Medicine: Current Research; Journal of Traditional and Complementary Medicine; Molecules; Analytical and Bioanalytical Chemistry; Journal of Pharmaceutical and Biomedical Analysis; Journal of Experimental and Integrative Medicine; Inflammation; Current Pharmaceutical Biotechnology; International Journal of Biochemistry Research & Review; Holzforschung; The Journal of Physiological Sciences; Nutrients; Plos One; Phytomedicine; Journal of Food Science.

■ 人才培育

實驗室主持人在 2010 年 8 月首次應聘至國立體育大學運動科學研究所，同時擔任運動營養領域實驗室主持人(PI)。10 年來，在教學、研究、輔導、服務、產學以及學術社群等各方面皆積極參與，帶領博士後研究人員執行科技部專題研究計畫，並指導碩、博士班研究生從事開發運動營養增補之基礎科研工作，或參與抗疲勞功效等健康食品之產業應用實務工作。

截至目前為止曾指導 3 位年輕研究學者以及超過 99 位碩博士班研究生，詳細情形如下所示：

博士後研究員 3 名	指導 博士生	畢業人數：10 名	指導碩士生 (含一般與在職專班)	畢業人數：89 名
		在學人數：4 名		在學人數：6 名

(資料可查詢自博碩士論文系統)

其中本研究室所培育之博士級科研人才，皆具有就業競爭力，符合各界高標準，而能順利應聘至國內外知名大學院校任教，名單如下：

1. 國立體育大學運動科學研究所碩士班、博士班：李孟謙 博士，2020/11 應聘至國立體育大學運動科學研究所，擔任科技部博士後研究員。
2. 國立體育大學運動科學研究所碩士班、博士班、科技部博士後研究員：徐藝洳 博士，2019/02 應聘至國立體育大學運動科學研究所，擔任專任助理教授。
3. 科技部博士後研究員：童鈺棠 博士，2017/08 應聘至臺北醫學大學代謝與肥胖科學研究所，擔任專任助理教授。
4. 國立體育大學運動科學研究所博士班：陳奕鳴 博士，2017/09 應聘至中國吉林體育學院運動健康技術學院，擔任副教授。
5. 國立體育大學競技與教練研究所博士班：黃文經 博士，2017/02 應聘至國立臺北護理健康大學運動保健系，擔任專任助理教授。

故申請人在科研部分，具有指導已獲得博士學位之優秀年輕學者從事獨立研究工作。且在教學崗位工作上，對於培育運動科研領域的研究生，也是具有實質的貢獻度。

■ 近五年研究成果敘述

本實驗室主持人於 2010 年 8 月應聘至國立體育大學運動科學研究所，同時擔任運動營養領域實驗室 PI。多年來，在教學、研究、輔導、服務、產學以及學術社群等各方面皆積極參與，帶領碩、博士班研究生從事開發運動營養增補之基礎科研工作，或參與抗疲勞功效等健康食品之產業應用實務工作。期間以計畫主持人身份獲得 12 件(累計 21 年次，總經費超過 2,454 萬元)的科技部(原國科會)補助以及 100 件(累計超過 68.68 年次，總經費超過 4,919 萬元，其中 2020 年達 1,163 萬元、2021 年達 1,307 萬元)業界關懷與產學合作計畫經費補助，故得以培育出 3 位博士後、10 位博士、19 位學院在職班碩士與 70 位一般班碩士，並繼續支持 4 位攻讀博士學位研究生與 6 位碩士班學

生。

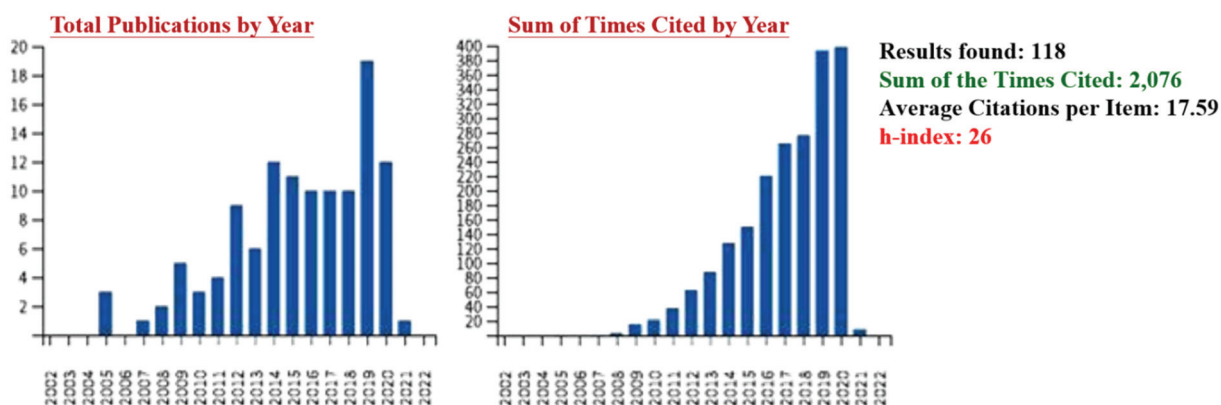
根據知名學術期刊統計分析資料庫 JCR Science Edition (2019)所收錄之期刊，本人發表之 SCI 文章，總數超過 130 篇。若依照這 130 篇文章於 SCI 期刊當年(2019)公布的影響因子高低，作四個區等分：Q1 (前 25%)、Q2 (25~50%)、Q3 (50~75%)、Q4 (75~100%)，則 Q1 佔 56 篇、Q2 佔 43 篇、Q3 佔 14 篇、Q4 佔 8 篇。近五年(2015~2020)則是發表 74 篇著作，整理如下表：

年代	總篇數	通訊作者	第一作者	共同第一	其他序位
2021	14	9	1		4
2020	13	5			8
2019	20	8			12
2018	11	10			1
2017	11	7		1	3
2016	10	5	2	1	2
2015	11	9			2
2014	13	4	5		4
2013	6	2	3		1
2012	9	3		1	5
2011	4		1	2	1
2010	3		2	1	

根據該資料庫(JCR)在最新 2019 年公告的期刊影響係數(Impact factor)與排名(Ranking)顯示，本人歷年來有 27 篇文章發表於 Q1 等級期刊(該領域排序 0-25%)，其中 1 篇為高度受引用論文(Highly Cited Paper)，在 2012 年 1 篇題目為「南瓜萃取物抗疲勞功效評估」之文章，由國際間文章新評量機構「Altmetric」所提供的資料顯示，本篇文章的直接和具體影響力在國際期刊 *Molecules* 排名為第一位，而此篇文章亦獲選為行政院教育部體育署「102 年度運動科學研究及發展獎勵」優等獎作品。在 2014 年刊登於 *MSSE* 雜誌的文章則是有獲得體育署「103 年度運動科學研究及發展獎勵」佳作之獎勵。2016 年於 *Nutrients* 雜誌報導力量訓練合併酒粕蛋白增補的文章則是獲得體育署「105 年度運動科學研究及發展獎勵」優等獎之作品。2016 年 9 月更是完成學校創校以來首件專屬授權，總金額為新台幣 100 萬元，被授權單位：生合生物科技股份有限公司，此案為科技部計畫，故將提撥總授權金 20% (即新台幣 20 萬元)挹注「行政院國家科學技術發展基金」。最近 2017 年於 *International Journal of Medical Sciences* 雜誌發表徑賽運動選手補充乳清蛋白改善馬拉松運動誘發之傷害與提升運動表現之影響的文章則是獲得體育署「106 年度運動科學研究及發展獎勵」甲等獎之作品。

依據 JCR Science Edition (2019)資料(由於不定期更新，部分近期刊登或接受之文章，資料庫並不會即時更新，故各統計數量都會較實際值略少)，本人過去發表 SCI 期刊文章之數量與引用量分佈情形，如下圖所示。歷年來所有發表 SCI 論文之被引用次數總計超過 2,076 次(僅計算 Web of Science 官方網站所計算之引用數量)，故本人研究成果之質量具一定的水準。

Citation Report Author=("Huang chi-chang")
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延續過去學經歷之養成並配合目前教學科目與工作職位之任務，實驗室現在規劃的研究主題概分為兩大方向：運動暨營養生化領域以及開發天然物活性成分。具體研究成果如下：(因篇幅限制省略摘要內容)

I. 期刊論文：(JCR Science Edition 2020) [Q1:60 篇；Q2:58 篇；Q3:12 篇；Q4:7 篇]

1. **Huang CC**, Lee MC, Ho CS, Hsu YJ, Ho CC, Kan NW* (2021) Protective and Recovery Effects of Resveratrol Supplementation on Exercise Performance and Muscle Damage Following Acute Plyometric Exercise. *Nutrients* 13(9), 3217. (SCI) (IF=5.717; Ranking=17/89 (19.1%, Q1) in *NUTRITION & DIETETICS*) [Authorships: Lab members are accounting for 4/4] [MOST 108-2410-H-038-016-MY2]
2. Lee CC, Liao CC, Lee MC, Lin KJ, Hsu HY, Lin KJ, Chiou SY, Young SL, Lin JS, **Huang CC***, Watanabe K* (2021) *Lactobacillus plantarum* TWK10 attenuates aging-associated muscle weakness, bone loss, and cognitive impairment by modulating the gut microbiome in mice. *Frontiers in Nutrition* doi: 10.3389/fnut.2021.708096. (Correspondence) (SCI) (IF=6.576; Ranking=12/88 (13.6%, Q1) in *NUTRITION & DIETETICS*)
3. Lee MC, Hsu YJ, Ho HH, Kuo YW, Lin WY, Tsai SY, Chen WL, Lin CL*, **Huang CC*** (2021) Effectiveness of human-origin *Lactobacillus plantarum* PL-02 in improving muscle mass, exercise performance and anti-fatigue. *Scientific Reports* 11: 19469. (SCI) (IF=4.379; Ranking=17/73 (23.3%, Q1) in *MULTIDISCIPLINARY SCIENCES*)
4. Lee MC, Tu YT, Lee CC, Tsai SC, Hsu HY, Tsai TY, Liu TH, Young SL, Lin JS*, **Huang CC*** (2021) *Lactobacillus plantarum* TWK10 Improves Muscle Mass and Functional Performance in Frail Older Adults: A Randomized, Double-Blind Clinical Trial. *Microorganisms* 9(7): 1466. (Correspondence) (SCI) (IF=4.128; Ranking=52/137 (38.0%, Q2) in *MICROBIOLOGY*)
5. Hsu YJ, Wu MF, Lee MC, **Huang CC*** (2021) Exercise training combined with *Bifidobacterium longum* OLP-01 treatment regulates insulin resistance and physical performance in *db/db* mice. *Food & Function* 12: 7728-7740. (Correspondence) (SCI) (IF=5.396; Ranking=22/144 (15.3%, Q1) in *FOOD SCIENCE & TECHNOLOGY*)
6. Lee MC, Hsu YJ, Ho CS, Chang CH, Liu CW, **Huang CC***, Chiang WD* (2021) Evaluation of the Efficacy of Supplementation with Planox® Lemon Verbena Extract in Improving Oxidative Stress and Muscle Damage: A Randomized Double-Blind Controlled Trial. *International Journal of Medical Sciences* 18(12): 2641-2652. (Correspondence) (SCI) (IF=3.738; Ranking=44/169 (26.0%, Q2) in *MEDICINE, GENERAL & INTERNAL*)
7. Lee MC, Jhang WL, Lee CC, Kan NW, Hsu YJ, Ho CS, Chang CH, Cheng YC, Lin JS, **Huang CC*** (2021) The Effect of Kefir Supplementation on Improving Human Endurance Exercise Performance and Antifatigue. *Metabolites* 11(3): 136. (Correspondence) (SCI) (IF=4.932; Ranking=94/298)

(31.5%, Q2) in *BIOCHEMISTRY & MOLECULAR BIOLOGY*)

8. Hsu YJ, Jhang WL, Lee MC, Bat-Otgon B, Narantungalag E, **Huang CC*** (2021) Lactose-riched Mongolian mare's milk improves physical fatigue and exercise performance in mice. *International Journal of Medical Sciences* 18(2): 564-574. (Correspondence) (SCI) (IF=3.738; Ranking=44/169 (26.0%, Q2) in *MEDICINE, GENERAL & INTERNAL*)
9. Hsu YJ, Lee MC, **Huang CC***, Ho CS* (2021) The effects of different types of aquatic exercise training interventions on a high-fructose diet-fed mice. *International Journal of Medical Sciences* 18(3): 695-705. (Correspondence) (SCI) (IF=3.738; Ranking=44/169 (26.0%, Q2) in *MEDICINE, GENERAL & INTERNAL*)
10. Chang CH, Hsu YJ, Li F, Chan YS, Lo CP, Peng GJ, Ho CS*, **Huang CC*** (2021) The feasibility of emergency medical technicians performing intermittent high-quality cardiopulmonary resuscitation. *International Journal of Medical Sciences* 18(12): 2615-2623. (Correspondence) (SCI) (IF=3.738; Ranking=44/169 (26.0%, Q2) in *MEDICINE, GENERAL & INTERNAL*)
11. Wu WK, Chen YH, Lee PC, Yang PJ, Chang CC, Liu KL, Hsu CC, **Huang CC**, Chuang HL, Sheen LY, Liu CJ, Wu MS* (2021) Mining Gut Microbiota From Bariatric Surgery for MAFLD. *Frontiers in Endocrinology* 12: 612946. (SCI) (IF=5.555; Ranking=32/145 (22.1%, Q1) in *ENDOCRINOLOGY & METABOLISM*)
12. Ho CS, Hsu YJ, Li F, Tang CC, Yang CP, **Huang CC**, Ho CS*, Chang CH* (2021) Effect of Ambulance Stretcher Bed Height Adjustment on CPR Quality and Rescuer Fatigue in a Laboratory Environment. *International Journal of Medical Sciences* 18(13): 2783-2788. (SCI) (IF=3.738; Ranking=44/169 (26.0%, Q2) in *MEDICINE, GENERAL & INTERNAL*)
13. Wang JY, Liaw CK, **Huang CC**, Liou TH, Lin HW, Huang SW (2021) Hyperlipidemia Is a Risk Factor of Adhesive Capsulitis: Real-World Evidence Using the Taiwanese National Health Insurance Research Database. *Orthopaedic Journal of Sports Medicine* 9(4): 2325967120986808. (SCI) (IF=2.727; Ranking=34/82 (41.5%, Q2) in *ORTHOPEDICS*)
14. Chung YC, Huang CY, Wu HJ, Kan NW, Ho CS, **Huang CC**, Chen HT (2021) Predicting maximal oxygen uptake from a 3-minute progressive knee-ups and step test. *PeerJ* 9: e10831. (SCI) (IF=2.984; Ranking=27/73 (37.0%, Q2) in *MULTIDISCIPLINARY SCIENCES*) [Authorships: Lab members are accounting for 1/7]
15. Hsu YJ, Wang CY, Lee MC, **Huang CC*** (2020) Hepatoprotection by Traditional Essence of Ginseng against Carbon Tetrachloride-Induced Liver Damage. *Nutrients* 12(10), 3214. (Correspondence) (SCI) (IF=5.717; Ranking=17/89 (19.1%, Q1) in *NUTRITION & DIETETICS*) [Authorships: Lab members are accounting for 4/4]
16. Lin CL, Hsu YJ, Ho HH, Chang YC, Kuo YW, Yeh Y, Tsai SY, Chen CW, Chen JF, **Huang CC***, Lee MC* (2020) *Bifidobacterium longum subsp. longum* OLP-01 Supplementation during Endurance Running Training Improves Exercise Performance in Middle- and Long-Distance Runners: A Double-Blind Controlled Trial. *Nutrients* 12(7), 1972. (Correspondence) (SCI) (IF=5.717; Ranking=17/89 (19.1%, Q1) in *NUTRITION & DIETETICS*) [Authorships: Lab members are accounting for 5/11]
17. Lee MC, Hsu YJ, Chuang HL, Ho HH, Hsieh SH, Kuo YW, Sung HC*, **Huang CC*** (2020) *Lactobacillus salivarius* Subspecies salicinius SA-03 is a New Probiotic Capable of Enhancing Exercise Performance and Decreasing Fatigue. *Microorganisms* 8(4), 545. (Correspondence) (SCI) (IF=4.128; Ranking=52/137 (38.0%, Q2) in *MICROBIOLOGY*)

18. Chang CH, Hsu YJ, Li F, Tu YT, Jhang WL, Hsu CW, **Huang CC***, Ho CS* (2020) Reliability and validity of the physical activity monitor for assessing energy expenditures in sedentary, regularly exercising, non-endurance athlete, and endurance athlete adults. *PeerJ* 8: e9717. (Correspondence) (SCI) (IF=2.984; Ranking=27/73 (37.0%, Q2) in *MULTIDISCIPLINARY SCIENCES*) [Authorships: Lab members are accounting for 3/8]
19. Huang WC, Hsu YJ, **Huang CC**, Liu HC, Lee MC* (2020) Exercise Training Combined with *Bifidobacterium longum* OLP-01 Supplementation Improves Exercise Physiological Adaption and Performance. *Nutrients* 12(4): 1145. (SCI) (IF=5.717; Ranking=17/89 (19.1%, Q1) in *NUTRITION & DIETETICS*) [MOST-108-2410-H-227-007 to Wen-Ching Huang] [Authorships: Lab members are accounting for 5/5]
20. Hsu YJ, Ho CS, Lee MC, Ho CS, **Huang CC**, Kan NW*. (2020) Protective Effects of Resveratrol Supplementation on Contusion Induced Muscle Injury. *International Journal of Medical Sciences* 17(1), 53-62. (SCI) (IF=3.738; Ranking=44/169 (26.0%, Q2) in *MEDICINE, GENERAL & INTERNAL*)
21. Chen YH, Wang YC, Chiu CC, Lee YP, Hung SW, **Huang CC**, Chiu CF, Chen TH, Huang WC, Chuang HL* (2020) Housing condition-associated changes in gut microbiota further affect the host response to diet-induced nonalcoholic fatty liver. *Journal of Nutritional Biochemistry* 79: 108362. (SCI) (IF=6.048; Ranking=16/89 (18.0%, Q1) in *NUTRITION & DIETETICS*)
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133. Liu CC, **Huang CC**, Lin WT, Hsieh CC, Huang SY, Lin SJ, Yang SC* (2005) Lycopene supplementation attenuated xanthine oxidase and myeloperoxidase activities in skeletal muscle tissues of rats after exhaustive exercise. *British Journal of Nutrition* 94(4): 595-601. (SCI) (IF=3.718; Ranking=48/89 (53.9%, Q3) in *NUTRITION & DIETETICS*; Times cited: 24) [Authorships: Lab members are accounting for 3/7]
134. Lin WT, Yang SC, Chen KT, **Huang CC**, Lee NY* (2005) Protective effects of *L*-arginine on pulmonary oxidative stress and antioxidant defenses during exhaustive exercise in rats. *Acta Pharmacologica Sinica* 26(8): 992-999. (SCI) (IF=6.150; Ranking=35/275 (10.9%, Q1) in *PHARMACOLOGY & PHARMACY*; Times cited: 23) [Authorships: Lab members are accounting for 2/5]
135. Yang SS, **Huang CC**, Chen JR, Chiu CL, Shieh MJ, Lin SJ, Yang SC* (2005) Effects of ethanol on antioxidant capacity in isolated rat hepatocytes. *World Journal of Gastroenterology* 11(46): 7272-7276. (co-first author) (SCI) (IF=5.742; Ranking=28/92 (30.4%, Q2) in *GASTROENTEROLOGY & HEPATOLOGY*; Times cited: 9) [Authorships: Lab members are accounting for 5/7]
136. Yang SC, Chiu CL, **Huang CC**, Chen JR* (2005) Apoptosis induced by nucleosides in the human hepatoma HepG2. *World Journal of Gastroenterology* 11(40): 6381-6384. (SCI) (IF=5.742; Ranking=28/92 (30.4%, Q2) in *GASTROENTEROLOGY & HEPATOLOGY*; Times cited: 1) [Authorships: Lab members are accounting for 3/4]
137. Yang SC, **Huang CC**, Chu JS, Chen JR* (2004) Effects of beta-carotene on cell viability and antioxidant status of hepatocytes from chronically ethanol-fed rats. *British Journal of Nutrition* 92(2): 209-215. (SCI) (IF=3.718; Ranking=48/89 (53.9%, Q3) in *NUTRITION & DIETETICS*;

Times cited: 11) [Authorships: Lab members are accounting for 2/4]

138. Huang WC, Chiu CC, Lee MC*, **Huang CC*** (2018) Subacute oral toxicity evaluation of *A. camphorata* mycelium in ICR mice. *Adaptive Medicine* 10(3): 79-89. **(Correspondence)** (Non-SCI) [Authorships: Lab members are accounting for 3/4]
139. Lin YA, Khamoui AV, Liao CC, **Huang CC***, Hsu MC* (2015) Improvement of Exercise Performance and Attenuation of a Marker of Muscle Damage by *Epimedium Brevicornum* Supplementation in Mice. *Adaptive Medicine* 7(2): 97-105. **(Correspondence)** (Non-SCI) [Authorships: Lab members are accounting for 3/5]
140. Huang WC, Tang DW, Jeng SC, Ho CS*, **Huang CC*** (2014) Adaptive Effect of *Anoectochilus Formosanus* Supplementation on Physical Fatigue and Exercise Performance in Mice. *Adaptive Medicine* 6(3): 110-117. **(Correspondence)** (Non-SCI) [Authorships: Lab members are accounting for 3/5]
141. Chuang HL, Huang YT, Hou CC*, **Huang CC*** (2012) Application of metabolomics approaches to study energy metabolism and reveals the hepatic glycogen accumulation in germ-free mice. *Microbial Ecology in Health & Disease* 23: 17462. **(Correspondence)** (Non-SCI) [Authorships: Lab members are accounting for 2/4]

II. 技轉：

1. 陳奕鳴、蔡宗佑、**黃啟彰*** (2016/09)。具有增加肌肉質量及提升運動表現效果之乳酸桿菌菌株 (*Lactobacillus plantarum* TWK10, LP10) (計畫編號：MOST-102-2628-B-179-001-MY3)。被授權單位：生合生物科技股份有限公司。技轉金額：新台幣 100萬元整(合約編號：MOST-N-105-00155)。
2. **黃啟彰***(2017/03)。克菲爾乳酸飲料在抗疲勞及增進運動表現之功能評估。先期技轉金額：新台幣 189,255元整(合約編號：MOST-106-2622-H-179-001-CC2)。
3. **黃啟彰***(2018/07)。克菲爾乳酸飲料在抗疲勞及增進運動表現之功能評估-2。先期技轉金額：新台幣 189,493元整(合約編號：MOST-107-2622-H-179-001-CC2)。
4. **黃啟彰***(2018/07)。克菲爾乳酸飲料在抗疲勞及增進運動表現之功能評估。生合生物科技股份有限公司。技轉金額：新台幣 40萬元整(合約編號：MOST-N-107-00220)。
5. **黃啟彰***(2018/07)。健康促進暨體能表現提升益生菌合作開發與應用。豐華生物科技股份有限公司。菌種分讓技轉金額：新台幣 20萬元整(校內會計編號：NTSU-1071051)。
6. **黃啟彰***(2018/09)。具備調整體脂肪及控制體重益生菌合作開發與應用。豐華生物科技股份有限公司。菌種分讓技轉金額：新台幣 20萬元整(校內會計編號：NTSU-1071068)。
7. **黃啟彰***(2018/12)。健康促進暨體能表現提升益生菌合作開發與應用。豐華生物科技股份有限公司。動物功效試驗技轉金額：新台幣 40萬元整(校內會計編號：NTSU-1071051)。

III. 專利：

1. Chen YM, Tsai TY, **Huang CC*** (2019) Use of *Lactobacillus plantarum* composition for manufacturing anti-fatigue probiotic composition to improve exercise performance. **(US patent No.: US 10,188,685)** (* principal inventor)
2. Shyur LF*, Hou CC, Wu JH, Chen YP, Wang SY, **Huang CC**, Yang NS (2009) Cancer and inflammatory disorder treatment. **(US patent No.: US 7,547,455 B2)** (* principal inventor)

- 徐麗芬*、侯珈禎、吳志鴻、陳奕平、王升陽、黃啟彰、楊寧蓀(2011)具抗癌及抗發炎活性之萃取物及半乳糖脂之組合物。中華民國專利 I347192號。(103年度國家發明創作獎-發明獎銀牌)
- 黃啟彰*、陳葦綾、李孟謙、徐藝洳、何協勳、謝佩珊(2021)一種乳酸菌株在製備提升運動能力與抗疲勞之組合物之用途。中華民國專利。中華民國專利 I737987號。(專利權期間：自2021年9月1日至2039年4月22日止)
- 黃啟彰*、徐藝洳、霍華明、溫雅婷、魏立(2019)一種大豆分離蛋白用於製備產後婦女運動訓練時提高運動表現、增強身體組成及降低疲勞之食品或藥物的用途。中華民國專利。中華民國專利 I667961號。(專利權期間：自2019年8月11日至2038年1月14日止)
- 陳奕鳴、蔡宗佑、黃啟彰*(2017)胚芽乳酸桿菌用於製備改善運動表現及降低肌肉疲勞之益生菌組合物之用途。中華民國專利。中華民國專利 I583388號。(專利權期間：自2017年5月21日至2036年8月23日止)
- 陳奕鳴、高俊雄、黃啟彰*(2018)一種酒粕蛋白用於製備運動訓練時提高人體運動能力、增強身體組成、抗疲勞與降低發炎反應之藥物的用途。中華民國專利。中華民國專利 I615098號。(專利權期間：自2018年2月21日至2036年8月15日止)

IV. 專書與碩、博士論文以及其他著作：

- 許青雲、賴明宏、趙哲毅、賴慶隆、王彥懿、黃啟彰、蕭千祐、蕭文。營養與代謝。出版社：五南。出版日期：2007年11月08日。(ISBN：9789571149462)。
- 黃啟彰。以Lieber-DeCarli之動物模式探討慢性酒精毒性對於抗氧化狀態及肝臟形態變化之影響。博士論文。2005年。
- 黃啟彰。β-胡蘿蔔素對於大白鼠酒精性肝臟疾病之影響。碩士論文。2001年。

V. 研究經費來源：

一、科技部計畫 (<https://arsp.most.gov.tw/NSCWebFront/modules/talentSearch/talentSearch.do>)

年度	補助類別	學門分類	計畫名稱	擔任工作	核定經費(新台幣)
110	專題研究計畫 (一般型研究計畫)	運動生理學	以天生強弱有氧運動能力平台探討差異化體能之組合以及母體孕期攝食高脂飲食與運動介入，影響子代體適能、罹患肥胖與代謝疾病、生命週期變化之關鍵因子 (MOST-110-2410-H-179-013-MY3)	計畫主持人	4,706,000
110	延攬科技人才 (延攬博士後研究人才)	運動生理學	以天生耐力運動強弱小鼠平台探討有氧能力在代謝疾病與老化所扮演之角色 (MOST-110-2811-H-179-502)	計畫主持人	911,160
109	專題研究計畫 (產學合作研究計畫-應用型)	運動生理學	補力克勞® EX PLUS 維生素 B 群在抗疲勞及增進運動表現之功能評估 (MOST 109-2622-H-179-001)	計畫主持人	800,000
109	延攬科技人才 (延攬博士後研究人才)	運動生理學	以天生耐力運動強弱小鼠平台探討有氧能力在代謝疾病與老化所扮演之角色 (MOST-110-2811-H-179-501)	計畫主持人	473,340
107	專題研究計畫 (產學合作研究計畫-開發型)	運動生理學	克菲爾乳酸飲料在抗疲勞及增進運動表現之功能評估-2 (MOST-107-2622-H-179-001-CC2)	計畫主持人	810,000
107	專題研究計畫 (一般型研究計畫)	運動生理學	以天生耐力運動強弱小鼠平台探討有氧能力在代謝疾病與老化所扮演之角色 (MOST-107-2410-H-179-006-MY3)	計畫主持人	3,393,000

107	延攬科技人才 (延攬博士後研究 人才)	運動生理學	以天生耐力運動強弱小鼠平台探討有氧能力在 代謝疾病與老化所扮演之角色 (MOST-108-2811-H-179-500)	計畫主持人	495,600
106	專題研究計畫 (產學合作研究計 畫-開發型)	運動生理學	克菲爾乳酸飲料在抗疲勞及增進運動表現之功 能評估 (MOST-106-2622-H-179-001-CC2)	計畫主持人	808,000
104	專題研究計畫 (優秀年輕學者研 究計畫)	運動生理學	應用運動體學解析天生高低有氧耐力運動表現 特有之分子圖譜及其生物意義 (MOST-104-2628-H-179-001-MY3)	計畫主持人	4,096,000
104	專題研究計畫 (延攬博士後研究 人才)	保健營養	腸道菌相對於調控宿主能量代謝以及運動表現 所扮演之角色 (MOST-104-2811-B-179-001)	計畫主持人	994,736
102	專題研究計畫 (優秀年輕學者研 究計畫)	運動生理學	結合微型核糖核酸及蛋白質體學策略探討單次 力竭與長期耐力運動訓練模式特有之分子圖譜 及其生物意義 (NSC-102-2628-H179-001-MY2)	計畫主持人	1,844,000
102	專題研究計畫 (優秀年輕學者研 究計畫)	保健營養	腸道菌相對於調控宿主能量代謝以及運動表現 所扮演之角色 (MOST-102-2628-B-179-001-MY3)	計畫主持人	3,848,000
101	專題研究計畫 (一般型研究計畫)	保健營養	應用蛋白質體策略探討腸道菌相調控體內能量 代謝路徑之作用與其生物標誌印記以及腸道菌 相作為提升運動表現一項可行的能量來源 (NSC-101-2320-B179-001)	計畫主持人	900,000
100	專題研究計畫 (新進人員研究計 畫)	運動生理學	中高齡者衰弱症之篩檢與介入成效評估—以運 動與營養介入為策略--代謝體學於中高齡衰弱 症及營養介入研究中之應用 (NSC-100-2410-H179-012)	計畫主持人	469,000

二、產學合作計畫(導入業界資源至國立體育大學)

主持人於國體大任教 11 年來，以主持人身分申請獲得企業產學合作案，分年總經費與件數一覽表，如下所示：

(截至 2021 年 10 月，共計 99 案，超過 4800 萬元，合計 58.68 年次)

