

CURRICULUM VITAE

Chi-Chang Huang, Ph. D.

Dean

Office of Research and Development

Distinguished Professor

Graduate Institute of Sports Science

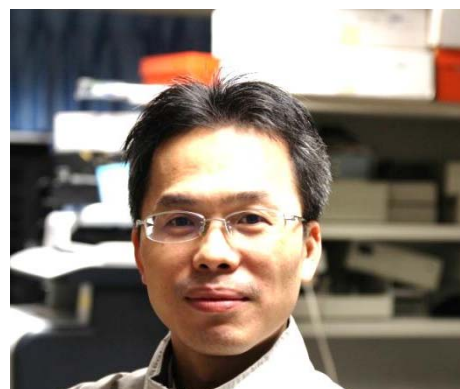
National Taiwan Sport University

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Dr. Huang received his undergraduate degree in applied life science from Fu-Jen University (09/1995~06/1999). He earned his master degree in nutrition (09/1999~06/2001) and doctoral degree in pharmacy (09/2001~06/2005) from Taipei Medical University. He started his four-year postdoctoral training (military service) for natural product research in Agricultural Biotechnology Research Center at Academia Sinica under the supervision of Dr. Lie-Fen Shyur, and a half-year training at TMU under Professor Suh-Ching Yang. Dr. Huang joined the National Taiwan Sport University faculty in August 2010. He received many awards and honors including academic research award, industry-cooperation award, good tutor award, appointed to the academy of teaching excellence award, special talent award, excellent award, silver medal award, and good award from his school and outside institutions since 2011. He published over 120 peer-reviewed articles of scholarly and scientific journals (sum of times cited: 1680; *h*-index: 25; source: Web of Science, Clarivate Analytics). He has been a full professor and director of Graduate Institute of Sport Science at National Taiwan Sport University from August 1st 2016 to July 31st 2018. Currently, He is the Dean of Office of Research and Development at NTSU since August 1st 2018. Moreover, in 2020, he received the Distinguished Professor Award (08/2020~07/2023) from National Taiwan Sport University.

■ EDUCATION

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- Ph. D.** School of Pharmacy, Taipei Medical University (09/2001~ 06/2005)
Dissertation Title: Effects of Chronic Alcoholic Toxicity on Antioxidative Status and Hepatic Morphologic Changes by Lieber-DeCarli Animal Model
Advisor: Professor Suh-Ching Yang
-
- M.Sc.** Graduate Institute of Nutrition & Health Science, Taipei Medical University (09/1999~ 06/2001)
Thesis Title: Effect of β -Carotene on Alcoholic Liver Disease in Rats
Advisor: Professors Ming-Jer Shieh and Suh-Ching Yang
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- B.Sc.** Applied Life Science, Fu-Jen University (09/1995~06/1999)
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■ ACADEMIC EXPERIENCE

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- 08/2016- 07/2018 **Professor & Director**
Graduate Institute of Sports Science, National Taiwan Sport University
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08/2013- 07/2016	Associate Professor Graduate Institute of Sports Science, National Taiwan Sport University
08/2010- 07/2013	Assistant Professor Graduate Institute of Sports Science, National Taiwan Sport University
08/2010- 07/2013	Adjunct Assistant Professor School of Nutrition and Health Sciences, Taipei Medical University
02/2010- 07/2010	Post-Doctoral Research Fellow School of Nutrition and Health Sciences, Taipei Medical University PI: Suh-Ching Yang, Professor
09/2006- 01/2010	Post-Doctoral Research Fellow Agricultural Biotechnology Research Center, Academia Sinica PI: Lie-Fen Shyur, Research Fellow
01/2006- 08/2006	Post-Doctoral Research Fellow Institute of BioAgricultural Sciences, Preparatory Office, Academia Sinica PI: Lie-Fen Shyur, Research Fellow
07/2005- 09/2005	Post-Doctoral Research Fellow Institute of BioAgricultural Sciences, Preparatory Office, Academia Sinica PI: Lie-Fen Shyur, Research Fellow

■ ADMINISTRATIVE SERVICES

08/2018- to date	Dean of Research and Development, National Taiwan Sport University
08/2016- 07/2018	Director of Graduate Institute of Sports Science, National Taiwan Sport University
02/2015- 07/2018	Director of Industry-Academic Collaboration & Innovation Incubator Center, Office of Research & Development, National Taiwan Sport University
08/2013- to date	Executive Editor, Sports Coaching Science, Taiwan Sports Coach Association
08/2012- 07/2013	Director of Industry-Academic Collaboration & Innovation Incubator Center, Office of Research & Development, National Taiwan Sport University
08/2010- 07/2012	Chief of Admission Section, Office of Academic Affairs, National Taiwan Sport University

■ Honor and Awards

08/2013-07/2021	Special Talent Award , Ministry of Science and Technology, R.O.C.
08/2020-07/2023	Distinguished Professor Award , National Taiwan Sport University
2013-2020	Industry Cooperation Award , National Taiwan Sport University, R.O.C.
2011-2020	Academic Research Award , National Taiwan Sport University, R.O.C.
09/2020	Excellent Award , Research and Development Award in Sports Science, Sports Administration, Ministry of Education, R.O.C.
12/2019	Grade A Award , Research and Development Award in Sports Science, Sports Administration, Ministry of Education, R.O.C.
12/2017	Grade A Award , Research and Development Award in Sports Science, Sports Administration, Ministry of Education, R.O.C.
12/2016	Excellent Award , Research and Development Award in Sports Science, Sports Administration, Ministry of Education, R.O.C.

12/2014	Good Award , Research and Development Award in Sports Science, Sports Administration, Ministry of Education, R.O.C.
11/2014	Silver Medal Award , National Invention and Creation Award, Intellectual Property Office, Ministry of Economic Affairs, R.O.C.
12/2013	Excellent Award , Research and Development Award in Sports Science, Sports Administration, Ministry of Education, R.O.C.
2015/09	Appointed to the Academy of Teaching Excellence Award , National Taiwan Sport University, R.O.C.
2015/02	Good Tutor Award , National Taiwan Sport University, R.O.C.

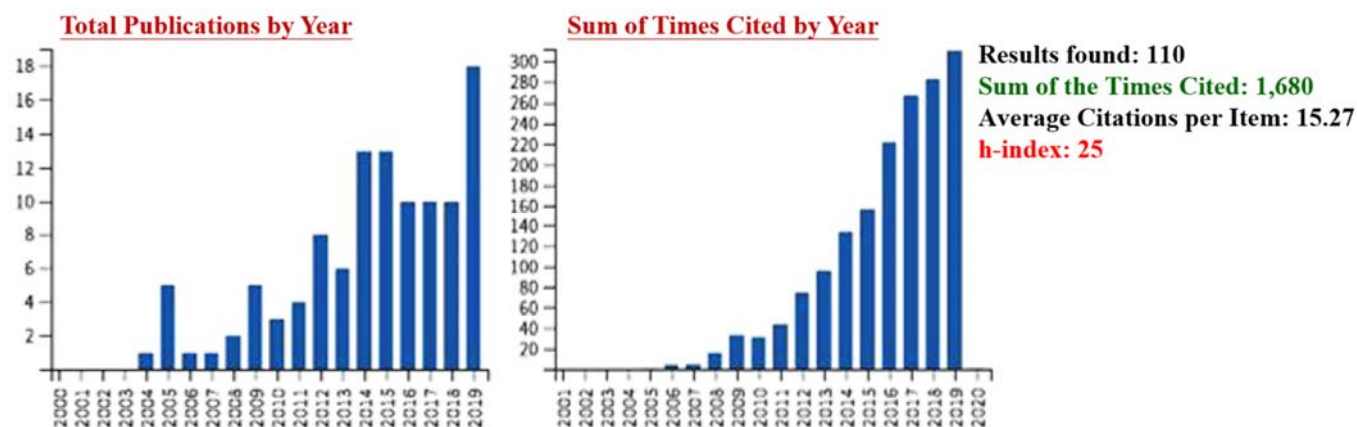
■ Peer Reviewer (Since year 2010)

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.

I. PUBLICATIONS

(A) Papers Published in Refereed Journals (JCR Science Edition 2019)

Citation Report Author=("Huang chi-chang") Timespan=All Years. WEB OF KNOWLEDGE™ DISCOVERY STARTS HERE THOMSON REUTERS



[Number of articles listed in Q1 (55), Q2 (43), Q3 (14) and Q4 (8) by "Journal Rankings"]

- LHsu 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=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*) [Authorships: Lab members are accounting for 4/4]
- 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=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*) [Authorships: Lab members are accounting for 5/11]
3. 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=4.152; Ranking=37/135 (27.4%, Q2) in *Microbiology*)
 4. 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=2.379; Ranking=32/71 (45.1%, Q2) in *Multidisciplinary Sciences*) [Authorships: Lab members are accounting for 3/8]
 5. Hsu YJ, Lee MC, **Huang CC***, HO CS* (2020) The effects of different types of aquatic exercise training interventions on a high-fructose diet-fed mice. *International Journal of Medical Sciences* **(Accepted) (Correspondence) (SCI)** (IF=2.523; Ranking=50/165 (30.3%, Q2) in *Medicine, General & Internal*)
 6. Hsu YJ, Jhang WL, Lee MC, Bat-Otgon B, Narantungalag E, **Huang CC*** (2020) Lactose-riched Mongolian mare's milk improves physical fatigue and exercise performance in mice. *International Journal of Medical Sciences* **(Accepted) (Correspondence) (SCI)** (IF=2.523; Ranking=50/165 (30.3%, Q2) in *Medicine, General & Internal*)
 7. 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=4.546; 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]
 8. 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=2.523; Ranking=50/165 (30.3%, Q2) in *Medicine, General & Internal*)
 9. 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=4.873; Ranking=15/89 (16.9%, Q1) in *Nutrition & Dietetics*)
 10. Chen YM, Liao CC, Huang YC, Chen MY, **Huang CC**, Chen WC, Chiu YS* (2020) Proteome and microbiota analysis highlight *Lactobacillus plantarum* TWK10 supplementation improves energy metabolism and exercise performance in mice. *Food Science & Nutrition* 8(7): 3525-3534. **(SCI)** (IF=1.747; Ranking=67/135 (49.6%, Q2) in *Food Science & Technology*) [MOST-102-2628-B179-001-MY3 and MOST-106-2410-H-227-007 to Chi-Chang Huang] [Authorships: Lab members are accounting for 3/7]
 11. Chen YM, Li H, Chiu YS, **Huang CC**, Chen WC* (2020) Supplementation of L-Arginine, L-Glutamine, Vitamin C, Vitamin E, Folic Acid, and Green Tea Extract Enhances Serum Nitric Oxide Content and Antifatigue Activity in Mice. *Evidence-Based Complementary and Alternative Medicine* 2020: 8312647. **(SCI)** (IF=1.813; Ranking=16/28 (57.1%, Q3) in *Integrative & Complementary Medicine*) [Authorships: Lab members are accounting for 4/5]
 12. Ho CS*, Chang CH, Hsu YJ, Tu YT, Li F, Jhang WL, Hsu CW, **Huang CC** (2020) Feasibility of the

- Energy Expenditure Prediction for Athletes and Non-Athletes from Ankle-Mounted Accelerometer and Heart Rate Monitor. *Scientific Reports* 10(1): 8816. (SCI) (IF=3.998; Ranking=17/71 (23.9%, Q1) in *Multidisciplinary Sciences*) [MOST-107-2410-H-179-007 to Chin-Shan Ho]
13. Huang SW, Wang JY, Lin CL, **Huang CC**, Liou TH, Lin HW* (2020) Patients with Axial Spondyloarthritis Are at Risk of Developing Adhesive Capsulitis: Real-World Evidence Database Study in Taiwan. *Journal of Clinical Medicine* 9(3): 787. (SCI) (IF=3.303; Ranking=36/165 (21.8%, Q1) in *Medicine, General & Internal*) [Authorships: Lab members are accounting for 3/6]
 14. Huang WC, Lee MC, Lee CC, Ng KS, Hsu YJ, Tsai TY, Young SL, Lin JS*, **Huang CC*** (2019) Effect of *Lactobacillus plantarum* TWK10 on Exercise Physiological Adaptation, Performance, and Body Composition in Healthy Humans. *Nutrients* 11(11), 2836. (Correspondence) (SCI) (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*) [Authorships: Lab members are accounting for 4/9] [**Excellent Award**, Research and Development Award in Sports Science, Sports Administration, Ministry of Education, R.O.C.]
 15. Wei L, Wen YT, Lee MC, Ho HM, **Huang CC***, Hsu YJ* (2019) Effects of isolated soy protein and strength exercise training on exercise performance and biochemical profile in postpartum mice. *Metabolism-Clinical and Experimental* 94: 18-27. (Correspondence) (SCI) (IF=6.159; Ranking=17/143 (11.9%, Q1) in *Endocrinology & Metabolism*) [MOST-107-2410-H-179-006-MY3 to Chi-Chang Huang] [Authorships: Lab members are accounting for 4/6]
 16. Huang WC, Wei CC, **Huang CC**, Chen WL, Huang HY* (2019) The Beneficial Effects of *Lactobacillus plantarum* PS128 on High-Intensity, Exercise-Induced Oxidative Stress, Inflammation, and Performance in Triathletes. *Nutrients* 11(2), 353. (SCI) (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*) [MOST-105-2410-H-158-008-MY3] [Authorships: Lab members are accounting for 2/5] [**Grade A Award**, Research and Development Award in Sports Science, Sports Administration, Ministry of Education, R.O.C.]
 17. Chang CK, Lin KC, Ho CS*, **Huang CC** (2019) Accuracy of the energy expenditure during uphill exercise measured by the Waist-worn ActiGraph. *Journal of Exercise Science & Fitness* 17(2): 62-66. (SCI) (IF=1.263; Ranking=72/85 (84.7%, Q4) in *Sport Sciences*) [Authorships: Lab members are accounting for 3/4]
 18. Huang SW, Lin CL, Lin LF, **Huang CC**, Liou TH, Lin HW* (2019) Autoimmune Connective Tissue Diseases and the Risk of Rotator Cuff Repair Surgery: A Population-Based Retrospective Cohort Study. *BMJ Open* 9(2): e023848. (SCI) (IF=2.496; Ranking=52/165 (31.5%, Q2) in *Medicine, General & Internal*) [Authorships: Lab members are accounting for 2/6]
 19. Tai PA, Hsu YJ, Huang WC, Chang CH, Chen YH, **Huang CC***, Wei L* (2019) Congenital exercise ability ameliorates muscle atrophy but not spinal cord recovery in spinal cord injury mouse model. *International Journal of Medical Sciences* 16(12): 1549-1556. (Correspondence) (SCI) (IF=2.523; Ranking=50/165 (30.3%, Q2) in *Medicine, General & Internal*)
 20. Ho CS*, Chang CH, Lin KC, **Huang CC**, Hsu YJ (2019) Correction of estimation bias of predictive equations of energy expenditure based on wrist/waist-mounted accelerometers. *PeerJ* 7: e7973. (IF=2.379; Ranking=32/71 (45.1%, Q2) in *Multidisciplinary Sciences*)
 21. Chen HC, **Huang CC**, Lin TJ, Hsu MC*, Hsu YJ* (2019) Ubiquinol Supplementation Alters Exercise Induced Fatigue by Increasing Lipid Utilization in Mice. *Nutrients* 11(11), 2550. (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*)
 22. Tung YT, Hsu YJ, Liao CC, Ho ST, **Huang CC***, Huang WC* (2019) Physiological and Biochemical Effects of Intrinsically High and Low Exercise Capacities Through Multiomics Approaches. *Frontiers in Physiology* 10: 1201. (Correspondence) (SCI) (IF=3.367; Ranking=20/81 (24.7%, Q1) in *Physiology*) [MOST 108-2410-H-227-007]

23. Huang WC, Chen YH, Chuang HL, Chiu CC, **Huang CC*** (2019) Investigation of the Effects of Microbiota on Exercise Physiological Adaption, Performance, and Energy Utilization Using a Gnotobiotic Animal Model. *Frontiers in Microbiology* 10: 1906. (Correspondence) (SCI) (IF=4.235; Ranking=34/135 (25.2%, Q2) in *Microbiology*)
24. Yang SC, Huang WC, Ng XE, Lee MC, Hsu YJ, **Huang CC**, Wu HH, Yeh CL, Shirakawa H, Budijanto S, Tung TH, Tung YT* (2019) Rice Bran Reduces Weight Gain and Modulates Lipid Metabolism in Rats with High-Energy-Diet-Induced Obesity. *Nutrients* 11(9), E2033. (SCI) (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*)
25. Lee MC, Hsu YJ, Chuang HL, Hsieh PS, Ho HH, Chen WL, Chiu YS*, **Huang CC*** (2019) In Vivo Ergogenic Properties of the *Bifidobacterium longum* OLP-01 Isolated from a Weightlifting Gold Medalist. *Nutrients* 11(9), 2003. (SCI) (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*)
26. Chen YM, **Huang CC**, Sung HC, Lee MC, Hsiao CY* (2019) Electronic cigarette exposure reduces exercise performance and changes the biochemical profile of female mice. *Bioscience Biotechnology and Biochemistry* 83(12): 2318-2326. (SCI) (IF=1.516; Ranking=42/71 (59.2%, Q3) in *Chemistry, Applied*)
27. Wang IL, Hsiao CY, Shen J, Wang Y, **Huang CC**, Chen YM* (2019) The effects of Jilin sika Deer's (*Cervus dybowski*) tendon liquid supplementation on endurance drop jumps performance, biochemistry profile of free boxing players. *Journal of Ethnopharmacology* 245: 112119. (SCI) (IF=3.609, Ranking=3/28 (10.7%, Q1) in *Integrative & Complementary Medicine*) [Authorships: Lab members are accounting for 2/6]
28. Tung YT, Wu MF, Lee MC, Wu JH, **Huang CC***, Huang WC* (2019) Antifatigue Activity and Exercise Performance of Phenolic-Rich Extracts from *Calendula officinalis*, *Ribes nigrum*, and *Vaccinium myrtillus*. *Nutrients* 11(8), 1715. (SCI) (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*) [Authorships: Lab members are accounting for 4/6]
29. Wang IL, Hsiao CY, Li YH, Meng FB, **Huang CC***, Chen YM* (2019) Nanobubbles Water Curcumin Extract Reduces Injury Risks on Drop Jumps in Women: A Pilot Study. *Evidence-Based Complementary and Alternative Medicine* 2019:8647587. (SCI) (IF=1.813; Ranking=16/28 (57.1%, Q3) in *Integrative & Complementary Medicine*) [Authorships: Lab members are accounting for 2/6]
30. Chen YM, Sung HC, Kuo YH, Hsu YJ, **Huang CC**, Liang HL* (2019) The Effects of Ergosta-7,9(11),22-trien-3 β -ol from *Antrodia camphorata* on the Biochemical Profile and Exercise Performance of Mice. *Molecules* 24(7): pii: E1225. (SCI) (IF=3.267; Ranking=70/177 (39.5%, Q2) in *Chemistry, Multidisciplinary*) [Authorships: Lab members are accounting for 3/6]
31. Tung YT, Hsu YJ, Chien YW, **Huang CC**, Huang WC, Chiu WC (2019) Tea Seed Oil Prevents Obesity, Reduces Physical Fatigue, and Improves Exercise Performance in High-Fat-Diet-Induced Obese Ovariectomized Mice. *Molecules* 24(5). pii: E980. (SCI) (IF=3.267; Ranking=70/177 (39.5%, Q2) in *Chemistry, Multidisciplinary*) [MOST-106-2320-B-038-033] [Authorships: Lab members are accounting for 4/6]
32. Lin CL, **Huang CC**, Huang SW* (2019) Effects of hypertonic dextrose injection in chronic supraspinatus tendinopathy of the shoulder: a randomized placebo-controlled trial. *European Journal of Physical and Rehabilitation Medicine* 2019 Aug;55(4):480-487. (SCI) (IF=2.258; Ranking=15/68 (22.1%, Q1) in *Rehabilitation*) [MOST-105-2314-B-038-040] [Authorships: Lab members are accounting for 3/3]
33. Chen YM, **Huang CC**, Hsiao CY, Hu S, Wang IL, Sung HC (2019) *Ludwigia octovalvis* (Jacq.) raven extract supplementation enhances muscle glycogen content and endurance exercise performance in mice. *Journal of Veterinary Medical Science* 81(5): 667-674. (SCI) (IF=1.049; Ranking=77/142 (54.2%, Q3) in *Veterinary Sciences*)
34. Li H, Chen YJ, Hsu YJ, Wu MF, Chiu CC, Tung YT, Tsai WJ, Huang WC*, **Huang CC*** (2018) Effects of *Ganoderma lucidum* and 'Essence of Chicken' on Physical Fatigue Recovery and Exercise Performance Improvement. *Chinese Journal of Physiology* 61(6): 372-383. (Correspondence) (SCI) (IF=1.151; Ranking=72/81 (88.9%, Q4) in *Physiology*) [Authorships: Lab members are

accounting for 5/9]

35. Huang SW, Hsu YJ, Lee MC, Li HS, Yeo PCW, Lim AL*, **Huang CC*** (2018) *In Vitro* and *In Vivo* Functional Characterization of Essence of Chicken as An Ergogenic Aid. *Nutrients* 10(12). pii: E1943. **(Correspondence) (SCI)** (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*) [Authorships: Lab members are accounting for 5/7]
36. Lin CL, Lee MC, Hsu YJ, Huang WC, **Huang CC***, Huang SW* (2018) Isolated Soy Protein Supplementation and Exercise Improve Fatigue-Related Biomarker Levels and Bone Strength in Ovariectomized Mice. *Nutrients* 10(11): pii: E1792. **(Correspondence) (SCI)** (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*) [MOST-107-2410-H-038-010] [Authorships: Lab members are accounting for 6/6]
37. Kan NW, Lee MC, Tung YT, Chiu CC, **Huang CC***, Huang WC* (2018) The Synergistic Effects of Resveratrol combined with Resistant Training on Exercise Performance and Physiological Adaption. *Nutrients* 10(10): pii: E1360. **(Correspondence) (SCI)** [MOST-107-2410-H-227-007] (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*) [Authorships: Lab members are accounting for 5/6]
38. Hsu YJ, Huang WC, Lin JS, Chen YM, Ho ST, **Huang CC***, Tung YT* (2018) Kefir Supplementation Modifies Gut Microbiota Composition, Reduces Physical Fatigue, and Improves Exercise Performance in Mice. *Nutrients* 10(7): pii: E862. **(Correspondence) (SCI)** (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*; Times cited: 5) [MOST-106-2622-H-179-001-CC2 to Chi-Chang Huang] [Authorships: Lab members are accounting for 4/7]
39. Huang WC, Huang HY, Hsu YJ, Su WH, Shen SY, Lee MC*, Lin CL*, **Huang CC*** (2018) The Effects of Thiamine Tetrahydrofurfuryl Disulfide on Physiological Adaption and Exercise Performance Improvement. *Nutrients* 10(7): pii: E851. **(Correspondence) (SCI)** (IF=4.546; Ranking=17/89 (19.1%, Q1) in *Nutrition & Dietetics*; Times cited: 1) [Authorships: Lab members are accounting for 5/8]
40. Tsai SW, Hsu YJ, Lee MC, Huang HE, **Huang CC***, Tung YT* (2018) Effects of dextrose prolotherapy on contusion-induced muscle injuries in mice. *International Journal of Medical Sciences* 15(11): 1251-1259. **(Correspondence) (SCI)** (IF=2.523; Ranking=50/165 (30.3%, Q2) in *Medicine, General & Internal*) [MOST 105-2314-B-303-004 to Sen-Wei Tsai and MOST 106-2313-B-038-003-MY2 to Yu-Tang Tung] [Authorships: Lab members are accounting for 3/10]
41. Huang WC, Hsu YJ, Li HS, Kan NW, Chen YM, Lin JS, Hsu TK, Tsai TY*, Chiu YS*, **Huang CC*** (2018) Effect of *Lactobacillus plantarum* TWK10 on improving endurance performance in humans. *Chinese Journal of Physiology* 61(3): 163-170. **(Correspondence) (SCI)** (IF=1.151; Ranking=72/81 (88.9%, Q4) in *Physiology*; Times cited: 2) [MOST-102-2628-B-179-001-MY3 to Chi-Chang Huang] [Authorships: Lab members are accounting for 6/10]
42. Chen YM, Lee HC, Chen MT, **Huang CC***, Chen WC* (2018) Dehydroepiandrosterone supplementation combined with Weight-Loading Whole-Body Vibration Training (WWBV) affects exercise performance and muscle glycogen storage in middle-aged C57BL/6 mice. *International Journal of Medical Sciences* 15(6): 564-573. **(Correspondence) (SCI)** (IF=2.523; Ranking=50/165 (30.3%, Q2) in *Medicine, General & Internal*) [MOST-105-2410-H-255-001 to Wen-Chyuan Chen]
43. Hsiao CY, Hsu YJ, Tung YT, Lee MC, **Huang CC***, Hsieh CC* (2018) Effects of *Antrodia camphorata* and *Panax ginseng* Supplementation on Anti-fatigue Properties in Mice. *Journal of Veterinary Medical Science* 80(2): 284-291. **(SCI)** (IF=1.049; Ranking=77/142 (54.2%, Q3) in

Veterinary Sciences; Times cited: 2) [NSC97-2410-H134-023 to City C. Hsieh] [Authorships: Lab members are accounting for 4/6]

44. Ma GD, Chiu CH, Hsu YJ, Hou CW, Chen YM*, **Huang CC*** (2017) Changbai Mountain Ginseng (*Panax ginseng* C.A. Mey) Extract Supplementation Improves Exercise Performance and Energy Utilization and Decreases Fatigue-Associated Parameters in Mice. *Molecules* 22(2): pii: E237. **(Correspondence) (SCI)** (IF=3.267; Ranking=70/177 (39.5%, Q2) in *Chemistry, Multidisciplinary*; Times cited: 10) [Authorships: Lab members are accounting for 4/6]
45. Tung YT, Chen YJ, Chuang HL, Huang WC, Lo CT, Liao CC*, **Huang CC*** (2017) Characterization of the serum and liver proteomes in gut-microbiota-lacking mice. *International Journal of Medical Sciences* 14(3): 257-267. **(Correspondence) (SCI)** (IF=2.523; Ranking=50/165 (30.3%, Q2) in *Medicine, General & Internal*; Times cited: 3) [MOST-102-2628-B-179-001-MY3 and MOST-104-2628-H-179-MY3 to Chi-Chang Huang] [Authorships: Lab members are accounting for 3/7]
46. Lin CH, Liao CC, Huang CH, Tung YT, Chang HC, Hsu MC*, **Huang CC*** (2017) Proteomics Analysis to Identify and Characterize the Biomarkers and Physical Activities of Non-Frail and Frail Older Adults. *International Journal of Medical Sciences* 14(3): 231-239. **(Correspondence) (SCI)** (IF=2.523; Ranking=50/165 (30.3%, Q2) in *Medicine, General & Internal*; Times cited: 6) [NSC-100-2410-H179-012 to Chi-Chang Huang and MOST-104-2410-H-037-004-MY2 to Mei-Chich Hsu] [Authorships: Lab members are accounting for 3/7]
47. Ho CS, Tung YT, Kung WM, Huang WC, Leung WK, **Huang CC***, Wu JH* (2017) Effect of *Coriolus versicolor* Mycelia Extract on Exercise Performance and Physical Fatigue in Mice. *International Journal of Medical Sciences* 14(11): 1110-1117. **(Correspondence) (SCI)** (IF=2.523; Ranking=50/165 (30.3%, Q2) in *Medicine, General & Internal*; Times cited: 3) [MOST-104-2811-B-179-001 to Chi-Chang Huang and Lo-Hsu Foundation to Chun-Sheng Ho] [Authorships: Lab members are accounting for 5/7]
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105. Tung YT, **Huang CC**, Ho ST, Kuo YH, Lin CC, Lin CT, Wu JH* (2011) Bioactive phytochemicals of leaf essential oils of *Cinnamomum osmophloeum* prevent lipopolysaccharide/D-galactosamine (LPS/D-GalN)-induced acute hepatitis in mice. *Journal of Agricultural and Food Chemistry* 59(15): 8117-8123. (co-first author) (SCI) (IF=4.192; Ranking=4/58 (7.9%, Q1) in *Agriculture, Multidisciplinary*; Times cited: 32) [Authorships: Lab members are accounting for 1/7]
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- suppresses inflammation in macrophages and mice skin and prevents chronic liver damage in mice through JNK-dependent HO-1 expression. *Phytochemistry* 72(4-5): 391-399. (SCI) (IF=3.044; Ranking=47/234 (20.1%, Q1) in *Plant Sciences*; Times cited: 7) [Authorships: Lab members are accounting for 4/5]
107. Tung YT, Hsu CA, Chen CS, Yang SC, **Huang CC**, Chang ST* (2010) Phytochemicals from *Acacia confusa* heartwood extracts reduce serum uric acid levels in oxonate-induced mice: their potential use as xanthine oxidase inhibitors. *Journal of Agricultural and Food Chemistry* 58(18): 9936-9941. (co-first author) (SCI) (IF=4.192; Ranking=4/58 (7.9%, Q1) in *Agriculture, Multidisciplinary*; Times cited: 40) [Authorships: Lab members are accounting for 2/6]
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112. Lin WT, **Huang CC**, Lin TJ, Chen JR, Shieh MJ, Yang SC*, Huang CY* (2009) Effects of beta-carotene on antioxidant status in rats with chronic alcohol consumption. *Cell Biochemistry and Function* 27(6): 344-350. (co-first author) (SCI) (IF=2.632; Ranking=186/297 (62.6%, Q3) in *Biochemistry & Molecular Biology*; Times cited: 36) [Authorships: Lab members are accounting for 1/7]
113. Tung YT, Wu JH, **Huang CC**, Peng HC, Chen YL, Yang SC*, Chang ST* (2009) Protective effect of *Acacia confusa* bark extract and its active compound gallic acid against carbon tetrachloride-induced chronic liver injury in rats. *Food and Chemical Toxicology* 47(6): 1385-1392. (SCI) (IF=4.679; Ranking=14/139 (10.1%, Q1) in *Food Science & Technology*; Times cited: 87) [Authorships: Lab members are accounting for 2/7]
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119. **Huang CC***, Chen JR, Shieh MJ, Yang SC* (2005) Effects of long-term ethanol consumption on jejunal lipase and disaccharidase activities in male and female rats. *World Journal of Gastroenterology* 11(17): 2603-2608. (SCI) (IF=3.411; Ranking=35/84 (41.7%, Q2) in *Gastroenterology & Hepatology*; Times cited: 7) [Authorships: Lab members are accounting for 3/4]
120. 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=3.334; Ranking=40/89 (44.9%, Q2) in *Nutrition & Dietetics*; Times cited: 24) [Authorships: Lab members are accounting for 3/7]
121. 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=5.064; Ranking=26/270 (9.6%, Q1) in *Pharmacology & Pharmacy*; Times cited: 23) [Authorships: Lab members are accounting for 2/5]
122. 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=3.411; Ranking=35/84 (41.7%, Q2) in *Gastroenterology & Hepatology*; Times cited: 9) [Authorships: Lab members are accounting for 5/7]
123. 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=3.411; Ranking=35/84 (41.7%, Q2) in *Gastroenterology & Hepatology*; Times cited: 1) [Authorships: Lab members are accounting for 3/4]
124. 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=3.334; Ranking=40/89 (44.9%, Q2) in *Nutrition & Dietetics*; Times cited: 11) [Authorships: Lab members are accounting for 2/4]
125. 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. (Non-SCI) [Authorships: Lab members are accounting for 3/4]
126. 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. (Non-SCI) [Authorships: Lab members are accounting for 3/5]
127. 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. (Non-SCI) [Authorships: Lab members are accounting for 3/5]
128. 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. [Authorships: Lab members are accounting for 2/4]
129. Chang KH, Hsu YJ, Hsu CY*, **Huang CC*** (2017) A Systematic Review of Bioactivities of *Hibiscus sabdariffa* and its Effectiveness in Managing Blood Lipid Profile. *Journal of Chang Gung University of Science and Technology* 24: 151-160. [Chinese article] 張凱翔、徐藝洳、許青雲*、**黃啟彰*** (2017) 洛神花之生物活性以及調節血脂作用之系統性文獻回顧。長庚科技學刊。26: 89-102。 [Authorships: Lab members are accounting for 3/4]
130. Hsu YJ, Chuang HL, Huang YT, Hsu CY, **Huang CC*** (2016) The roles of gut microbiota in nutritional biochemistry and metabolic disorders of host. *Journal of Chang Gung University of Science and Technology* 24: 151-160. [Chinese article] 徐藝洳、莊曉莉、黃彥智、許青雲、**黃啟彰*** (2016) 腸道菌叢於宿主營養生化與代謝性疾病之作用。長庚科技學刊。24: 151-160。 [Authorships: Lab members are accounting for 2/5]
131. Lo YC, Chen YM, Wang KH, **Huang CC*** (2015) An Investigation of a sport nutrition supplement-whey protein and its multibiological functions. *Sports Coaching Science* 37: 105-121. [Chinese article] 羅英琪、陳奕鳴、王國慧、**黃啟彰*** (2015) 運動營養補充品乳清蛋白之多樣生物活性探討。運動教練科學。37: 105-121。 [Authorships: Lab members are accounting for 3/4]
132. Su WL, Huang WC, Chen IN, Chen WC, **Huang CC**, Huang CH* (2015) Investigation of whole-body vibration training on physiological and biochemical characteristics in mice. *Physical Education Journal* 48: 33-44. [Chinese article] 蘇韋霖、黃文經、陳易男、陳文銓、**黃啟彰**、黃啟煌* (2015) 以小鼠模式探討全身振動訓練對於生理生化表現以及運動疲勞之影響。體育學報 (TSSCI)。48: 33-44。 [Authorships: Lab members are accounting for 4/6]
133. Chen PY and **Huang CC*** (2015) Effects of resveratrol on skeletal muscle energy metabolism and physical performance. *Journal of Chang Gung University of Science and Technology* 23: 131-142. [Chinese article] 陳姵妤、**黃啟彰*** (2015) 白藜蘆醇對骨骼肌能量代謝及體能表現之影響。長庚科技學刊。23: 131-142。 [Authorships: Lab members are accounting for 2/2]
134. Tsai YJ, Chen YM, **Huang CC*** (2015) Nutritional Characteristics and Biological Functions of Sake Lees Hydrolysate. *Journal of Chang Gung University of Science and Technology* 23: 125-130. [Chinese article] 蔡依娟、陳奕鳴、**黃啟彰*** (2015) 酒粕水解產物之營養特點與生物活性。長庚科技學刊。23: 125-130。 [Authorships: Lab members are accounting for 3/3]
135. Chang KW, Hsu CY, Lin WT*, **Huang CC*** (2014) The role of SIRT1/PGC-1 α axis in the exercise-regulated biological functions of skeletal muscle. *Journal of Chang Gung University of Science and Technology* 21: 129-138. [Chinese article] 張凱雯、許青雲、林萬登*、**黃啟彰*** (2014) SIRT1/PGC-1 α 分子路徑對於運動調控骨骼肌功能所扮演之角色。長庚科技學刊。21: 129-138。 [Authorships: Lab members are accounting for 2/4]

136. Huang WP, Hsu CY, **Huang CC*** (2014) Investigation of a World-Renowned Food Material, Pumpkin, as an Ergogenic Aid. *Journal of Chang Gung University of Science and Technology* 21: 123-128. [Chinese article] 黃紋佩、許青雲*、**黃啟彰*** (2014) 世界知名食材南瓜作為運動增補劑來源之探討。長庚科技學刊。21: 123-128。[Authorships: Lab members are accounting for 2/3]
137. Lin CH, **Huang CC*** (2013) The Impact of Exercise on Cellular Senescence. *Zhong Hua Ti Yu* 27: 53-60. [Chinese article] 林勁宏、**黃啟彰*** (2013) 運動對細胞老化的影響。中華體育季刊。27: 53-60。[Authorships: Lab members are accounting for 1/2]
138. Li YP, **Huang CC**, Hsu CY*, Chuang HL* (2013) Investigating the beneficial effects of exercise intervention on non-alcoholic fatty liver disease. *Journal of Chang Gung University of Science and Technology* 19: 127-135. [Chinese article] 李彥鵬、**黃啟彰**、許青雲*、莊曉莉* (2013) 運動對於改善非酒精性脂肪肝之探討。長庚科技學刊。19: 127-135。[Authorships: Lab members are accounting for 2/4]
139. Tang JC, Hsu MC*, **Huang CC*** (2012) The application of metabonomics in sports science. *Journal of Chang Gung University of Science and Technology* 16: 31-37. [Chinese article] 湯柔琦、許美智*、**黃啟彰*** (2012) 代謝體學於運動科學之應用。長庚科技學刊。16: 31-37。[Authorships: Lab members are accounting for 3/3]
140. Lin TJ, **Huang CC**, Wang IJ, Lin JW, Hung KS, Ling F, Tsao HH, Yang NS, Lin KJ* (2010) Validation of an animal FDG PET imaging system for study of human glioblastoma xenograft in mouse and rat glioma models. *Annals of Nuclear Medicine and Sciences* 23: 77-83. [Authorships: Lab members are accounting for 1/9]
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143. 徐麗芬、**黃啟彰** (2008) 開發藥用植物資源於癌症化學預防之應用。生技研發成果產業化季刊13: 26-30。[Authorships: Lab members are accounting for 2/2]
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145. **Huang CC**, Chen JR, Haung TI, Shieh MJ, Chu JS, Yang SC* (2002) Beta-carotene prevents hepatic lipid accumulation in rats under chronic alcohol consumption. *Nutritional Sciences Journal* 27: 129-138. [Chinese article] **黃啟彰**、陳俊榮、黃娣儀、謝明哲、朱娟秀、楊素卿* (2002) β -胡蘿蔔素抑制長期攝食酒精之大白鼠肝臟脂肪堆積。臺灣營養學會雜誌。27: 129-138。[Authorships: Lab members are accounting for 3/6]
146. Yang SC, Huang TI, **Huang CC**, Shieh MJ, Chiu WC, Cheng CJ, Chen JR* (2001) The effects of *chlorella* on lipid metabolism in rats fed with high fat and high cholesterol diet. *Nutritional Sciences Journal* 26: 22-31. [Chinese article] 楊素卿、黃娣儀、**黃啟彰**、謝明哲、邱琬淳、鄭建睿、陳

俊榮* (2001) 綠藻對於餵食高油脂高膽固醇飼料之大白鼠脂質代謝的影響。臺灣營養學會雜誌。26: 22-31。[Authorships: Lab members are accounting for 3/7]

(B) Technology Transfer:

1. Chen YM, Tsai TY, **Huang CC*** (Sep, 2016) *Lactobacillus plantarum* TWK10 Supplementation Improves Exercise Performance and Increases Muscle Mass in Mice. (* principal inventor). This study was supported by the Ministry of Science and Technology of Taiwan (**Grant no. MOST102-2628-B179-001-MY3**). Synbiotech Inc signs **exclusive license agreement** with National Taiwan Sport University for technology transfer of this research achievement to development for products (**NT\$ 1,000,000**). (**Contract no. MOST-N-105-00155**).
2. **Huang CC*** (2017/03)。Functional evaluation of kefir drink on antifatigue and improving exercise performance. **Preliminary technology transfer fee NT\$ 189,255 (Contract no. MOST-106-2622-H-179-001-CC2)**.
3. **Huang CC*** (2018/07)。Functional evaluation of kefir drink on antifatigue and improving exercise performance-2. **Preliminary technology transfer fee NT\$ 189,493 (Contract no. MOST-107-2622-H-179-001-CC2)**.

(C) Patents:

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)
3. 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 I 347192號。(103年度國家發明創作獎-發明獎銀牌)
4. **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 I 667961號。(專利權期間：自2019年8月11日至2038年1月14日止)
5. 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 I 583388號。(專利權期間：自2017年5月21日至2036年8月23日止)
6. 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 I 615098號。(專利權期間：自2018年2月21日至2036年8月15日止)

(D) Books, Thesis and Dissertation, and Others:

1. Hsu CY, Lai MH, Chao CY, Lai CL, Wang YY, Huang CC, Hsiao CY, and Hsiao W (2007) An Introduction to Nutrition and Metabolism (Translate Book). Wunan Book Co., Ltd. (ISBN : 9789571149462) [Chinese]
2. **Huang CC** (2005) Effects of Chronic Alcoholic Toxicity on Antioxidative Status and Hepatic Morphologic Changes by Lieber-DeCarli Animal Model. (Ph.D. Dissertation, Taipei Medical

University) [Chinese]

3. **Huang CC** (2001) Effect of β -Carotene on Alcoholic Liver Disease in Rats. (Master Thesis, Taipei Medical University) [Chinese]

II. Research Project Grants:

A. Ministry of Science and Technology (MOST), the successor to the National Science Council (NSC)

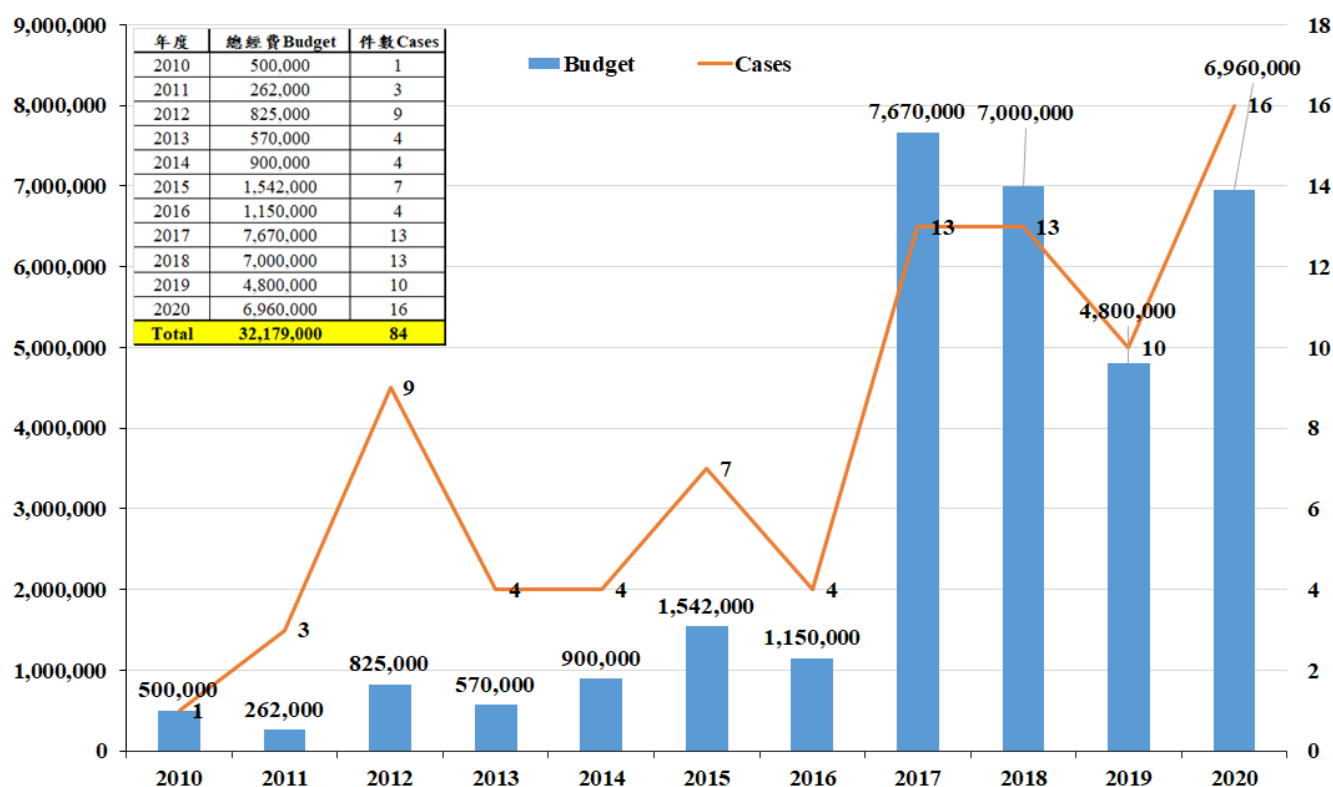
(<https://arsp.most.gov.tw/NSCWebFront/modules/talentSearch/talentSearch.do>)

Year	Funding type	Area of Research	Research Project Title (Project Period)	PI/ Co-PI	Budget (NT\$)
2018	Specific-Topic Research Project (General Research Project)	Exercise Physiology	To investigate the role of aerobic capacity in metabolic diseases and aging by selectively bred mouse model platform for high or low intrinsic endurance exercise (MOST-107-2410-H-179-006-MY3) (2018/8/1~2021/7/31)	PI	3,393,000
2018	Specific-Topic Research Project (Academia-Industry Collaboration Project-Application Type)	Exercise Physiology	Functional evaluation of kefir drink on antifatigue and improving exercise performance-2 (MOST-107-2622-H-179-001-CC2) (2018/6/1~2018/5/31)	PI	810,000
2017	Specific-Topic Research Project (Academia-Industry Collaboration Project-Application Type)	Exercise Physiology	Functional evaluation of kefir drink on antifatigue and improving exercise performance (MOST-106-2622-H-179-001-CC2) (2017/2/1~2018/1/31)	PI	808,000
2015	Specific-Topic Research Project (Project for Excellent Junior Research Investigators)	Exercise Physiology	Application of sportomics approaches to elucidate the specific molecular profiling and biological significance for high and low intrinsic aerobic exercise capacity in mice (MOST-104-2628-H-179-001-MY3) (2015/8/1~2018/7/31)	PI	4,096,000
2015	Specific-Topic Research Project (Sponsored a full-time post-doc researcher)	Nutrition and Health Sciences	The Role of Gut Microbiota in Shaping the Host Energy Metabolism and Exercise Performance (MOST-104-2811-B-179-001) (2015/8/1~2016/7/31)	PI	994,736
2013	Specific-Topic Research Project (Project for Excellent Junior Research Investigators)	Exercise Physiology	Integrative microRNA and Proteomic Approaches to Elucidate a Single Bout of Exhaustive Exercise- and Endurance Exercise Training-Specific Molecular Profiling and Their Collaborative Biological Significance (NSC-102-2628-H-179-001-MY2) (2013/8/1~2015/7/31)	PI	1,844,000
2013	Specific-Topic Research Project (Project for Excellent Junior Research Investigators)	Nutrition and Health Sciences	The Role of Gut Microbiota in Shaping the Host Energy Metabolism and Exercise Performance (NSC-102-2628-B-179-001-MY3) (2013/8/1~2016/7/31)	PI	3,848,000
2012	Specific-Topic Research Project (General Research Project)	Nutrition and Health Sciences	Application of Proteomic Approach to Study Key Biomarker Signatures for Gut Microbiota in Shaping the Host Energy Metabolism and Being a Viable Energy Source to Improve Exercise Performance (NSC-101-2320-B-179-001) (2012/8/1~2013/7/31)	PI	900,000
2011	Specific-Topic Research Project (Project for Junior Researcher)	Exercise Physiology	Application of Metabolomics in the Study Frail Middle-Aged and Older Adults, and Nutrition Intervention (NSC-100-2410-H-179-012) (2011/8/1~2012/7/31)	PI	469,000
2016	Specific-Topic Research Project (Minor Alliances between Academia and Industry)	Exercise Physiology	Sports and Bio-technical Products University-industry Technology Alliance (II) (MOST-105-2622-8-037-001-TS1) (2016/02/1~2017/01/31)	Co-PI	2,000,000
2015	Specific-Topic Research Project (Minor Alliances between Academia and Industry)	Exercise Physiology	Sports and Bio-technical Products University-industry Technology Alliance (I) (MOST-104-2622-H-037-001) (2015/02/1~2016/01/31)	Co-PI	2,000,000

2015	Specific-Topic Research Project (General Research Project)	Exercise Physiology	Effects of Supplementation with Hematinics in Chinese Medicine on Erythrocytes Synthesis and Exercise Performance (MOST-104-2410-H-037-004-MY2) (2015/8/1~2017/7/31)	Co-PI	2,375,000
2015	Specific-Topic Research Project (General Research Project)	Exercise Physiology	Metabolomic investigation into variations of metabolic profile between elite sprint and long-distance runners and protective effects of resveratrol on exercised-induced oxidative stress(III) (MOST-104-2410-H-182-015) (2015/8/1~2016/7/31)	Co-PI	1,266,000
2015	Specific-Topic Research Project (Project for Junior Researcher)	Physiology	Tyrosine Phosphorylation Linked to Cardiac Arrhythmias via Pacemaker and L-type Calcium Channels (MOST-104-2320-B-034-003) (2015/8/1~2016/7/31)	Co-PI	747,000
2014	Specific-Topic Research Project (Minor Alliances between Academia and Industry)	Exercise Physiology	Core Technology of Physiological and Biochemical Functional Assessments Applied in Industry (NSC-103-2622-H-037-001) (2014/2/1~2015/1/31)	Co-PI	1,841,000
2014	Specific-Topic Research Project (Academia-Industry Collaboration Project-Application Type)	Exercise Physiology	Antifatigue evaluation and quality control of Burdock energetic drink (MOST-103-2622-H-127-001-CC3) (2014/02/1~2015/01/31)	Co-PI	648,000
2014	Specific-Topic Research Project (General Research Project)	Exercise Physiology	Metabolomic investigation into variations of metabolic profile between elite sprint and long-distance runners and protective effects of resveratrol on exercised-induced oxidative stress(II-III) (MOST-103-2410-H-182-020) (2014/8/1~2015/7/31)	Co-PI	1,036,000
2012	Specific-Topic Research Project (General Research Project)	Exercise Physiology	Effects of Supplementation with Yang-Invigorating Agents in Chinese Medicine on Hormone Levels and Exercise Performance (NSC-101-2410-H179-001-MY3) (2012/8/1~2015/7/31)	Co-PI	3,489,000

B. NTSU-Industry Cooperation Fund

In addition to the government's scientific funding, Professor Huang got over 84 projects from Academia-Industry Cooperation from National Taiwan Sports University in the past 10 years. This slide shows a list of total fee by bar chart and number of items by the line graph in each year:



III. The Research Theme of Our Laboratory

1. Energy Metabolic Signaling Network (Basic Research)
2. Exercise-Small Molecules Interaction (Unique)
3. R&D of Ergogenic Aids and Health Food (Industry)
4. Application of Interdisciplinary "Omics" Approaches for Our Interest Topics

