CURRICULUM VITAE

Chi-Chang Huang, Ph. D.

Dean (2018/01 – to date)
Office of Research and Development
Professor (2016/08 – to date)
Graduate Institute of Sports Science
National Taiwan Sport University
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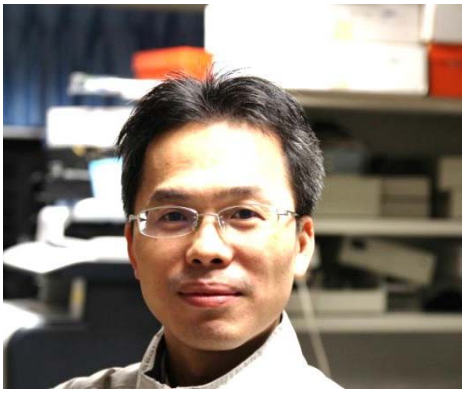


Dr. Huang received his undergraduate degree in applied life science from Fu-Jen University (09/1995~06/1999). He earned his master degree in nutrition (09/1999~06/2001) and doctoral degree in pharmacy (09/2001~06/2005) from Taipei Medical University. He started his four-year postdoctoral training (military 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 85 peer-reviewed articles of scholarly and scientific journals indexed in Web of Science. 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.

■ EDUCATION

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
B.Sc.	**Applied Life Science, Fu-Jen University** (09/1995~06/1999)

■ ACADEMIC EXPERIENCE

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-	**Adjunct Assistant Professor**

07/2013	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

08/2016- 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

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.

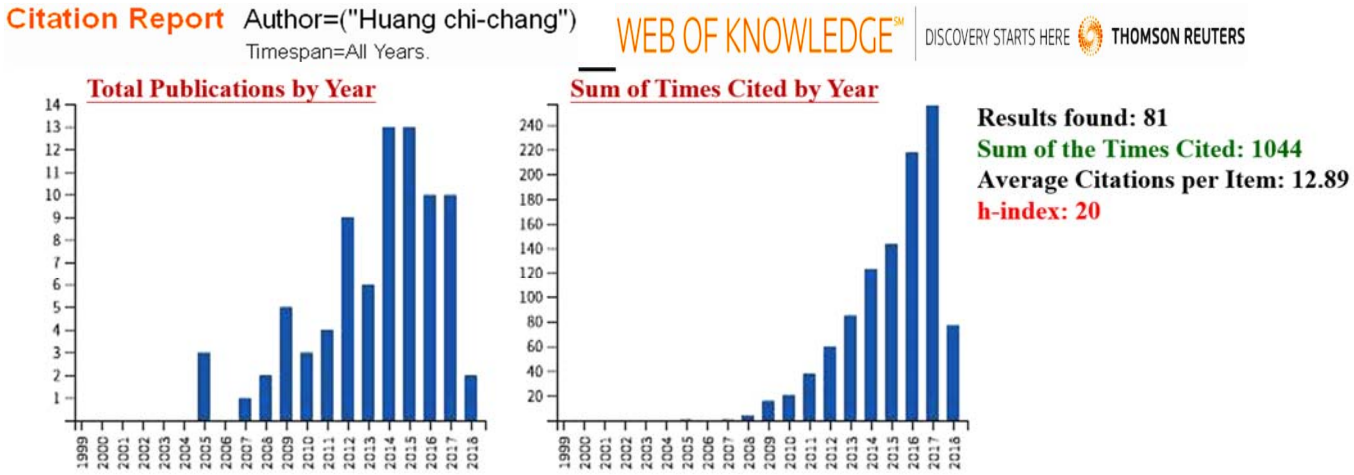
08/2013-07/2018	**Special Talent Award,** Ministry of Science and Technology, R.O.C.
2015/09	**Appointed to the Academy of Teaching Excellence Award**, National Taiwan Sport University, R.O.C.
2015/02	**Good Tutor Award**, National Taiwan Sport University, R.O.C.
2013-2017	**Industry Cooperation Award**, National Taiwan Sport University, R.O.C.
2011-2017	**Academic Research 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 2017)



To view or download any Publication, you are welcome to contact with me for a copy by e-mail.

1. 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=4.196; Ranking= 18/81 (22.2%, Q1) in *Nutrition & Dietetics*) [Authorships: Lab members are accounting for 4/7]
2. 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=4.196; Ranking= 18/81 (22.2%, Q1) in *Nutrition & Dietetics*) [Authorships: Lab members are accounting for 5/8]

3. 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=2.815; Ranking= 46/154 (29.9%, 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]
4. 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=0.827; Ranking= 75/83 (90.4%, Q4) in *Physiology*) [MOST-102-2628-B-179-001-MY3 to Chi-Chang Huang] [Authorships: Lab members are accounting for 6/10]
5. 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=2.815; Ranking= 46/154 (29.9%, Q2) in *Medicine, General & Internal*) [MOST-105-2410-H-255-001 to Wen-Chyuan Chen]
6. 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=0.803; Ranking= 86/140 (61.4%, Q3) in *Veterinary Sciences*) [NSC97-2410-H134-023 to City C. Hsieh] [Authorships: Lab members are accounting for 4/6]
7. 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=3.098; Ranking= 68/171 (39.8%, Q2) in *Chemistry, Multidisciplinary*) [Authorships: Lab members are accounting for 4/6]
8. 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: 257-267. **(Correspondence) (SCI)** (IF=2.815; Ranking= 46/154 (29.9%, Q2) in *Medicine, General & Internal*) [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]
9. 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: 231-239. **(Correspondence) (SCI)** (IF=2.815; Ranking= 46/154 (29.9%, Q2) in *Medicine, General & Internal*) [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]
10. 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: 1110-1117. **(Correspondence) (SCI)** (IF=2.815; Ranking= 46/154 (29.9%, Q2) in *Medicine, General & Internal*) [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]

11. Chen WC, Hsu YJ, Lee MC, Li HS, Ho CS, **Huang CC***, Chen FA* (2017) Effect of burdock extract on physical performance and physiological fatigue in mice. ***Journal of Veterinary Medical Science*** 79(10): 1698-1706. **(SCI)** (IF=0.803; Ranking= 86/140 (61.4%, Q3) in *Veterinary Sciences*) [MOST-103-2622-H-127-001-CC3 to Fu-An Chen] [Authorships: Lab members are accounting for 5/7]
12. Huang WC, Chang WC, Hsu YJ, Huang CF, **Huang CC***, Kao CY*, Lin CL* (2017) The Modulative Effects of Microcurrent Electrical Nerve Stimulation on Diabetic Mice. ***Chinese Journal of Physiology*** 60(1): 62-72. **(SCI)** (IF=0.827; Ranking= 75/83 (90.4%, Q4) in *Physiology*) [Authorships: Lab members are accounting for 4/7]
13. Wu PY, **Huang CC**, Chu Y, Huang YH, Lin P, Liu YH, Wen KC, Lin CY, Hsu MC, Chiang HM* (2017) Alleviation of Ultraviolet B-Induced Photodamage by *Coffea arabica* Extract in Human Skin Fibroblasts and Hairless Mouse Skin. ***International Journal of Molecular Sciences*** 18(4), pii: E782 **(Co-first author) (SCI)** (IF=3.687; Ranking= 116/286 (40.6%, Q2) in *Biochemistry & Molecular Biology*) [Authorships: Lab members are accounting for 1/10]
14. Huang WC, **Huang CC**, Chuang HL, Chen WC*, Hsu MC* (2017) *Cornu Cervi Pantotrichum* Supplementation improves Physiological Adaptions on an Intensive Endurance Training. ***Journal of Veterinary Medical Science*** 79(3): 674-682. **(SCI)** (IF=0.803; Ranking= 86/140 (61.4%, Q3) in *Veterinary Sciences*) [NSC-101-2410-H-037-016-MY3 to Mei-Chich Hsu] [Authorships: Lab members are accounting for 2/5]
15. Hsiao CY, Chen YM, Hsu YJ, **Huang CC**, Sung HC*, Chen SS* (2017) Supplementation with Hualian No. 4 Wild Bitter Gourd (*Momordica charantia Linn*. var. abbreviata Ser.) Extract Increases Anti-Fatigue Activities and Enhances Exercise Performance in Mice. ***Journal of Veterinary Medical Science*** 79(6): 1110-1119. **(SCI)** (IF=0.803; Ranking= 86/140 (61.4%, Q3) in *Veterinary Sciences*) [Authorships: Lab members are accounting for 3/6]
16. Huang WC, Chang YC, Chen YM, Hsu YJ, **Huang CC**, Kan NW*, Chen SS* (2017) Whey Protein Improves Marathon-Induced Injury and Exercise Performance in Elite Track Runners. ***International Journal of Medical Sciences*** 14(7), 648-654 **(SCI)** (IF=2.815; Ranking= 46/154 (29.9%, Q2) in *Medicine, General & Internal*) [MOST-102-2628-B-179-001-MY3 to Chi-Chang Huang] [Authorships: Lab members are accounting for 4/7]
17. Huang WC, Hsu YJ, Wei L, Chen YJ*, **Huang CC*** (2016) Association of physical performance and biochemical profile of mice with intrinsic endurance swimming. ***International Journal of Medical Sciences*** 13(12): 892-901. **(Correspondence) (SCI)** (IF=2.815; Ranking= 46/154 (29.9%, Q2) in *Medicine, General & Internal*) [MOST-104-2628-H-179-001-MY3 to Chi-Chang Huang] [Authorships: Lab members are accounting for 3/5]
18. Hsu YJ, Huang WC, Chiu CC, Liu YL, Chiu WC, Chiu CH, Chiu YS*, **Huang CC*** (2016) Capsaicin Supplementation Improves Physical Fatigue and Exercise Performance in Mice. ***Nutrients*** 8(10), pii: E648. **(Correspondence) (SCI)** (IF=4.196; Ranking= 18/81 (22.2%, Q1) in *Nutrition & Dietetics*) [Authorships: Lab members are accounting for 6/8]
19. Kan NW, Ho CS, Chiu YS, Huang WC, Chen PY, Tung YT*, **Huang CC*** (2016) Effects of Resveratrol Supplementation and Exercise Training on the Exercise Performance in Middle-aged Mice. ***Molecules*** 21(5), pii: E661 **(Correspondence) (SCI)** (IF=3.098; Ranking= 68/171 (39.8%, Q2) in *Chemistry, Multidisciplinary*) [NSC-102-2628-H179-001-MY2 to Chi-Chang Huang]

[Authorships: Lab members are accounting for 5/7]

20. Chen YM, Wei L, Chiu YS, Hsu YJ, Tsai TY*, Wang MF*, **Huang CC*** (2016) *Lactobacillus Plantarum* TWK10 Supplementation Improves Exercise Performance and Increases Muscle Mass in Mice. ***Nutrients*** 8(4), pii: E205. **(Correspondence) (SCI)** (IF=4.196; Ranking= 18/81 (22.2%, Q1) in *Nutrition & Dietetics*) [MOST-102-2628-B-179-001-MY3 to Chi-Chang Huang] [Authorships: Lab members are accounting for 4/7]
21. Chen YM, Lin CL, Wei L, Hsu YJ, Chen KN, **Huang CC***, Kao CH* (2016) Sake Protein Supplementation Affects Exercise Performance and Biochemical Profiles in Power-Exercise-Trained Mice. ***Nutrients*** 8(2), pii: E106. **(Correspondence) (SCI)** (IF=4.196; Ranking= 18/81 (22.2%, Q1) in *Nutrition & Dietetics*) [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] [Authorships: Lab members are accounting for 4/7]
22. **Huang CC**, Wang T, Tung YT, Lin WT* (2016) Effect of Exercise Training on Skeletal Muscle SIRT1 and PGC-1α Expression Levels in Rats of Different Age. ***International Journal of Medical Sciences*** 13(4): 260-270. **(SCI)** (IF=2.815; Ranking= 46/154 (29.9%, Q2) in *Medicine, General & Internal*) [NSC-99-2410-H029-059-MY2 and MOST-103-2410-H-029-037 to Wan-Teng Lin] [Authorships: Lab members are accounting for 2/4]
23. **Huang CC**, Tung YT, Huang WC, Chen YM, Hsu YJ, Hsu MC* (2016) Beneficial effects of Cocoa, coffee, green tea, and garcinia complex supplement on diet induced obesity in rats. ***BMC Complementary and Alternative Medicine*** 16(1): 100. **(SCI)** (IF=2.109; Ranking= 8/27 (29.6%, Q2) in *Integrative & Complementary Medicine*) [University-Industry Cooperation Fund no. S102019 to Mei-Chich Hsu] [Authorships: Lab members are accounting for 5/6]
24. Huang WC, Lin CL, Hsu YJ, Chiu YS, Chen YM, Wu MF, **Huang CC**, Wang MF* (2016) Inulin and Fibersol-2 Combined Have Hypolipidemic Effects on High Cholesterol Diet-Induced Hyperlipidemia in Hamsters. ***Molecules*** 21(3), pii: E313. **(Co-first author) (SCI)** (IF=3.098; Ranking= 68/171 (39.8%, Q2) in *Chemistry, Multidisciplinary*) [University-Industry Cooperation Fund No.1041008 to Chi-Chang Huang] [Authorships: Lab members are accounting for 5/8]
25. Chang CW, Chen YM, Hsu YJ, **Huang CC**, Wu YT*, Hsu MC* (2016). Protective effects of the roots of *Angelica sinensis* on strenuous exercise-induced sports anemia in rats. ***Journal of Ethnopharmacology*** 193: 169-178. **(SCI)** (IF=3.115, Ranking= 4/27 (14.8%, Q1) in *Integrative & Complementary Medicine*). [MOST-104-2410-H-037-004-MY2 to Mei-Chich Hsu] [Authorships: Lab members are accounting for 3/6]
26. Chen WC, Chen YM, **Huang CC**, Tzeng YD* (2016) Dehydroepiandrosterone Supplementation Combined with Whole-Body Vibration Training Affects Testosterone Level and Body Composition in Mice. ***International Journal of Medical Sciences*** 13: 730-740. **(SCI)** (IF=2.815; Ranking= 46/154 (29.9%, Q2) [MOST-104-2410-H-255-003 to Wen-Chyuan Chen] [Authorships: Lab members are accounting for 2/4]
27. Lin CI, Huang WC, Chen WC, Kan NW, Wei L, Chiu YS*, **Huang CC*** (2015) Effect of whole-body vibration training on body composition, exercise performance and biochemical responses in middle-aged mice. ***Metabolism-Clinical and Experimental*** 64: 1146-1156. **(Correspondence) (SCI)** (IF=5.963; Ranking= 19/143 (13.3%, Q1) in *Endocrinology & Metabolism*; Times cited: 3) [NSC-102-2628-H179-001-MY2 to Chi-Chang Huang] [Authorships: Lab members are accounting for 3/7]
28. Liao CC, Chiu YS, Chiu WC, Tung YT, Chuang HL, Wu JH*, **Huang CC*** (2015) Proteomics Analysis to Identify and Characterize the Molecular Signatures of Hepatic Steatosis in

Ovariectomized Rats as a Model of Postmenopausal Status. ***Nutrients*** 7: 8752-8766. **(Correspondence) (SCI)** (IF=4.196; Ranking= 18/81 (22.2%, Q1) in *Nutrition & Dietetics*) [MOST-102-2628-B-179-001-MY3 and MOST-104-2811-B-179-001 to Chi-Chang Huang] [Authorships: Lab members are accounting for 3/7]

29. Lee LC, Wei L, Huang WC, Hsu YJ, Chen YM*, **Huang CC*** (2015) Hypolipidemic Effect of Tomato Juice in Hamsters in High Cholesterol Diet-Induced Hyperlipidemia. ***Nutrients*** 7: 10525-10537. **(Correspondence) (SCI)** (IF=4.196; Ranking= 18/81 (22.2%, Q1) in *Nutrition & Dietetics*) [Authorships: Lab members are accounting for 4/6]
30. Huang WC, Chiu WC, Chuang HL, Tang DW, Lee ZM, Wei L, Chen FA*, **Huang CC*** (2015) Effect of curcumin supplementation on physiological fatigue and physical performance in mice. ***Nutrients*** 7: 905-921. **(Correspondence) (SCI)** (IF=3.550; Ranking= 23/81 (28.4%, Q2) in *Nutrition & Dietetics*; Times cited: 3) [Authorships: Lab members are accounting for 3/8]
31. Chen YM, Tsai YH, Tsai TY, Chiu YS, Wei L, Chen WC*, **Huang CC*** (2015) Fucoidan supplementation improves exercise performance and exhibits anti-fatigue action in mice. ***Nutrients*** 7: 239-252. **(Correspondence) (SCI)** (IF=3.550; Ranking= 23/81 (28.4%, Q2) in *Nutrition & Dietetics*; Times cited: 3) [Authorships: Lab members are accounting for 4/7]
32. Hsu YJ, Chiu CC, Li YP, Huang WC, Huang YT, **Huang CC***, Chuang HL* (2015) Effect of intestinal microbiota on exercise performance in mice. ***Journal of Strength and Conditioning Research*** 29: 552-558. **(Correspondence) (SCI)** (IF=2.325; Ranking= 29/81 (35.8%, Q2) in *Sport Sciences*; Times cited: 3) [NSC-101-2320-B179-001 and NSC-102-2628-B-179-001-MY3 to Chi-Chang Huang] [Authorships: Lab members are accounting for 5/7]
33. Huang WC, Chen YM, Kan NW, Ho CS, Wei L, Chan CH, Huang HY*, **Huang CC*** (2015) Hypolipidemic Effects and Safety of *Lactobacillus Reuteri* 263 in a Hamster Model of Hyperlipidemia. ***Nutrients*** 7: 3767-3782. **(Correspondence) (SCI)** (IF=3.550; Ranking= 23/81 (28.4%, Q2) in *Nutrition & Dietetics*; Times cited: 1) [Authorships: Lab members are accounting for 4/8]
34. Wang YH, Liu TT, Kung WM, Chen CC, Wen YT, Lin IC, **Huang CC***, Wei L* (2015) Expression of aquaporins in intestine after heat stroke. ***International Journal of Clinical and Experimental Pathology*** 8: 8742-8753. **(Correspondence) (SCI)** (IF=1.396; Ranking= 56/79 (70.9%, Q3) in *Pathology*) [Authorships: Lab members are accounting for 1/8]
35. Tung YT, Lin LC, Liu YL, Ho ST, Lin CY, Chuang HL, Chiu CC, **Huang CC***, Wu JH* (2015) Antioxidative phytochemicals from *Rhododendron oldhamii* Maxim. leaf extracts reduce serum uric acid levels in potassium oxonate-induced hyperuricemic mice. ***BMC Complementary and Alternative Medicine*** 15: 423. **(SCI)** (IF=2.109; Ranking= 8/27 (29.6%, Q2) in *Integrative & Complementary Medicine*) [Authorships: Lab members are accounting for 3/9]
36. Chang CW, Hsu YJ, Chen YM, Huang WC, **Huang CC**, Hsu MC* (2015) Effects of combined extract of cocoa, coffee, green tea and garcinia on lipid profiles, glycaemic markers and inflammatory responses in hamsters. ***BMC Complementary and Alternative Medicine*** 15: 269. **(SCI)** (IF=2.109; Ranking= 8/27 (29.6%, Q2) in *Integrative & Complementary Medicine*; Times cited: 2) [University-Industry Cooperation Fund no. S102019 to Mei-Chich Hsu] [Authorships: Lab members are accounting for 4/6]
37. Wen YT, Liu TT, Lin YF, Chen CC, Kung WM, **Huang CC**, Lin TJ, Wang YH*, Wei L* (2015) Heatstroke Effect on Brain Heme Oxygenase-1 in Rat. ***International Journal of Medical Sciences***

12: 737-741. **(SCI)** (IF=2.815; Ranking= 46/154 (29.9%, Q2) in *Medicine, General & Internal*) [Authorships: Lab members are accounting for 1/9]

38. Chen WC, Huang WC, Chiu CC, Chang YK, **Huang CC*** (2014) Whey protein improves exercise performance and biochemical profiles in trained mice. ***Medicine and Science in Sports and Exercise*** 46: 1517-1524. **(Correspondence) (SCI)** (IF=4.291; Ranking = 7/81 (8.6%, Q1) in *Sport Sciences*; Times cited: 22) [NSC-102-2628-H179-001-MY2 to Chi-Chang Huang] [Authorships: Lab members are accounting for 3/5] [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]
39. Huang WC, Lin CI, Chiu CC, Lin YT, Huang WK, Huang HY*, **Huang CC*** (2014) Chicken essence improves exercise performance and ameliorates physical fatigue. ***Nutrients*** 6: 2681-2696. **(Correspondence) (SCI)** (IF=3.550; Ranking= 23/81 (28.4%, Q2) in *Nutrition & Dietetics*; Times cited: 6) [Authorships: Lab members are accounting for 3/7]
40. Horng CT, Huang JK, Wang HY, **Huang CC***, Chen FA* (2014) Antioxidant and antifatigue activities of *Polygonatum Alte-lobatum* Hayata rhizomes in rats. ***Nutrients*** 6: 5327-5337. **(Correspondence) (SCI)** (IF=3.550; Ranking= 23/81 (28.4%, Q2) in *Nutrition & Dietetics*; Times cited: 4) [Authorships: Lab members are accounting for 1/5]
41. **Huang CC***, Tseng TL, Huang WC, Chung YH, Chuang HL, Wu JH* (2014) Whole-body vibration training effect on physical performance and obesity in mice. ***International Journal of Medical Sciences*** 11: 1218-1227. **(SCI)** (IF=2.815; Ranking= 46/154 (29.9%, Q2) in *Medicine, General & Internal*; Times cited: 7) [NSC-102-2628-H179-001-MY2 to Chi-Chang Huang] [Authorships: Lab members are accounting for 3/6]
42. **Huang CC**, Huang WC, Hou CW, Chi YW, Huang HY* (2014) Effect of black soybean koji extract on glucose utilization and adipocyte differentiation in 3T3-L1 cells. ***International Journal of Molecular Sciences*** 15: 8280-8292. **(SCI)** (IF=3.687; Ranking= 116/286 (40.6%, Q2) in *Biochemistry & Molecular Biology*; Times cited: 3) [Authorships: Lab members are accounting for 2/5]
43. **Huang CC**, Chen YM, Kan NW, Chao HL, Ho CS, Hsu MC* (2014) *Cornu cervi pantotrichum* supplementation improves exercise performance and protects against physical fatigue in mice. ***Molecules*** 19: 4669-4680. **(SCI)** (IF=3.098; Ranking= 68/171 (39.8%, Q2) in *Chemistry, Multidisciplinary*; Times cited: 1) [NSC-101-2410-H-037-016-MY3 to Mei-Chich Hsu] [Authorships: Lab members are accounting for 3/6]
44. Yeh TS, Chuang HL, Huang WC, Chen YM, **Huang CC***, Hsu MC* (2014) *Astragalus membranaceus* improves exercise performance and ameliorates exercise-induced fatigue in trained mice. ***Molecules*** 19: 2793-2807. **(Correspondence) (SCI)** (IF=3.098; Ranking= 68/171 (39.8%, Q2) in *Chemistry, Multidisciplinary*; Times cited: 10) [NSC-99-2410-H-179-006-MY2 and NSC-101-2410-H-037-016-MY3 to Mei-Chich Hsu] [Authorships: Lab members are accounting for 3/6]
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(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. 林金生、**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)。

(C) Patents:

1. Shyur LF*, Hou CC, Wu JH, Chen YP, Wang SY, **Huang CC,** and Yang NS (2009) Cancer and inflammatory disorder treatment. **(US patent No.: US 7,547,455 B2)** (* principal inventor)
2. Shyur LF*, Hou CC, Wu JH, Chen YP, Wang SY, **Huang CC,** and Yang NS (2011) Extracts and compositions of galactolipids havimg anticancer and anti-inflammatory activities. **(Taiwan Patent No.: 096133237)** (* principal inventor)
3. 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)
4. 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)

(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	Antifatique 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

Year	**Contract of Research Companies**	**Research Project Title** (Project Period)	**PI/ Co-PI**	**Budget (NT$)**
2016	Z-Plus International Co. LTD.	Evaluation of anti-fatigue properties of concentrated chicken essence with ganoderma (Lingzhi) extract by Tian Yuan Xiang (NTSU#No.1051005) (2016/03/01~2016/08/31)	**PI**	300,000
2016	Himi BioTeck Co., Ltd.	The stability evaluation of health food "SPP-HC" (NTSU#No.1051004) (2016/01/01~2016/06/30)	**PI**	650,000
2016	BEST Bio Technology Co., Ltd.	Investigation and product planning on fundamental recipe for ergogenic aids with multiple bioactivities (NTSU#No.1051003) (2016/01/01~2016/06/30)	**PI**	100,000
2016	Prince Pharmaceutical Co., Ltd.	Pilot study of EX PLUS on fatigue elimination during exercise (NTSU#No.1051002) (2016/01/01~2016/06/30)	**PI**	100,000
2015	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research	Antiobesity effects of fermented peptide concentrate or isolate on high-fat diet-induced obese rats (NTSU#No. No.1041031) (2015/07/01~2015/12/31)	**PI**	720,000

	Institute			
2015	Z-Plus International Co. LTD.	Pilot study of TTL drink and *Rhodiola rosea* extract on anti-fatigue function (NTSU#No.1041034) (2015/07/01~2015/12/31)	**PI**	100,000
2015	Z-Plus International Co. LTD.	Pilot study of Monascus and Serenoa repens fruit extract for lowing blood lipid profiles in hamsters fed with a high-cholesterol-diet (NTSU#No.1041023) (2015/05/01~2015/10/31)	**PI**	140,000
2015	Taiwan Resonant Waves Research Corp.	Liver proteome analysis of resonant waves intervention on type II diabetes mouse model (NTSU#No.1041022) (2015/05/01~2015/08/31)	**PI**	60,000
2015	Z-Plus International Co. LTD.	Study of burner® light supplementation for lowing blood lipid profiles in hamsters fed with a high-cholesterol-diet (NTSU#No.1041008) (2015/03/01~2015/10/31)	**PI**	350,000
2015	Z-Plus International Co. LTD.	Effects of antidiabetic herbal formulation on functional regulation of glucose homeostasis in type II diabetes mouse model (NTSU#No.1041002) (2015/02/01~2015/06/30)	**PI**	100,000
2015	Ministry of Economic Affairs/Department of Industrial Technology/Metal Industries Research & Development Centre	Design and application of an inertial measurement unit for measuring physical activity in experimental animals (PT104140393) (2015/05/01~2015/10/30)	**PI**	72,000
2014	Taiwan Resonant Waves Research Corp.	Effects of resonant waves on functional regulation of glucose homeostasis in type II diabetes mouse model (NTSU#No.1031043) (2014/11/01~2015/04/30)	**PI**	260,000
2014	Z-Plus International Co. LTD.	Pilot study of phytosterol supplementation for lowing blood lipid profiles in hamsters fed with a high-cholesterol-diet (NTSU#No.1031036) (2014/09/15~2015/01/31)	**PI**	140,000
2014	Z-Plus International Co. LTD.	Evaluation of anti-fatigue properties of *Antrodia camphorata* and ginseng drink (NTSU#No.1031030) (2014/07/01~2014/12/31)	**PI**	350,000
2014	Reputa Biotechnology Research Inc.	Toxicological assessment of lactic acid bacteria fermentation of soybean concentrate in mice (NTSU#No.1031002) (2014/02/01~2014/06/30)	**PI**	150,000
2013	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research Institute	To evaluate the hepatoprotective effects of health food by TTL (NTSU#No.1021017) (2013/5/1~2013/8/31)	**PI**	95,000
2013	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research Institute	The pilot study of health food by TTL on the increase of memory ability in mice (NTSU#No.1021016) (2013/5/1~2013/7/31)	**PI**	80,000
2013	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research Institute	Effects of health food by TTL on decreasing blood alcohol concentration (NTSU#No.1021015) (2013/5/1~2013/7/31)	**PI**	95,000
2013	Dong Jyu Biotechnology Corporation	Therapeutic effect of adjuvant treatment with *Antrodia amphorata* extract for cancer cachexia (NTSU#No.1021001) (2013/1/1~2013/8/31)	**PI**	300,000
2012	One Power Bio Technology Co., Ltd.	Evaluation of anti-fatigue properties of enriched raw fruits and vegetables fermentation (NTSU#No.1011046) (2012/10/1~2012/12/31)	**PI**	120,000
2012	One Power Bio Technology Co., Ltd.	Evaluation of anti-fatigue properties of raw fruits and vegetables fermentation (NTSU# No.1011045) (2012/10/1~2012/12/31)	**PI**	120,000
2012	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research Institute	Evaluation of brewers' yeast derived beta-glucan supplementation in immune responses modulation (NTSU#No.1011042) (2012/10/1~2013/1/31)	**PI**	95,000
2012	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research	Application of proteomic approach to study the brewers' yeast derived beta-glucan on serum proteins profiling in mice (NTSU# No.1011041) (2012/10/1~2013/1/31)	**PI**	95,000

	Institute			
2012	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research Institute	A pilot study for toxicological assessment of *Antrodia camphorata* mycelium (NTSU# No.1011040) (2012/9/1~2012/12/31)	**PI**	92,000
2012	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research Institute	A pilot test of wine lees derived protein hydrolysate supplementation on muscle hypertrophy and strength (NTSU# No.1011039) (2012/9/1~2012/12/31)	**PI**	93,000
2012	Cai Wai Co., Ltd.	Effects of *Anoectochilus formosanus* supplementation on fatigue elimination during exercise (NTSU# No.1011038) (2012/7/25~2012/09/30)	**PI**	80,000
2012	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research Institute	Effects of wine lees supplementation on decreasing blood alcohol concentration (NTSU# No.1011018) (2012/5/1~2012/6/30)	**PI**	80,000
2012	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research Institute	A pilot test of wine lees supplementation on fatigue elimination during exercise-II (NTSU# No.1011017) (2012/5/1~2012/6/30)	**PI**	50,000
2011	Ministry of Economic Affairs/Department of Industrial Technology/Metal Industries Research & Development Centre	To evaluate the potential use of functional *Anoectochilus formosanus* product for sports food biotech industry (PT100151433) (2011/7/1~2011/12/31)	**PI**	72,000
2011	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research Institute	A pilot test of wine lees supplementation on fatigue elimination during exercise-I (NTSU# No.1001045) (2011/10/13~2011/12/30)	**PI**	95,000
2011	Taiwan Tobacco & Liquor Corporation/ Department of Biotechnology/Liquor Research Institute	A pilot test of wine lees supplementation on decreasing blood alcohol concentration (NTSU# No.1001043) (2011/10/13~2011/12/30)	**PI**	95,000
2010	Dong Jyu Biotechnology Corporation	Effects of Antrodia camphorata supplementation on fatigue elimination during exercise (NTSU# No.991035) (2010/12/1~2011/11/30)	**PI**	500,000

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