

Curriculum Vitae

Chan, Kuei-Hui, Ph.D.

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Current Position

Professor, Dean for College of Athletics.
National Taiwan Sport University (NTSU).

Education

Ph.D., National Taiwan Sport University.
Interdisciplinary: Sports Nutrition, Biochemistry, Doping.
M.S., National Taiwan Sport University.
B.S., Taipei Medical University.

Administrative Experience

Dean, Office of Research and Development (Aug. 2013 - Jan. 2015)
Secretary General, Office of Secretariat (Aug. 2012 - July 2013)
Director, Graduate Institute of Sports Science (Aug. 2010 – July 2011)

Academic Experience

Professor, Graduate Institute of Athletic and Coaching Sciences, NTSU. (Feb. 2014 - present)
Associate professor, Graduate Institute of Athletic and Coaching Sciences, NTSU. (Aug. 2007 - Jan. 2014)
Associate professor, Department of Leisure Business Management, Nan Kai University of Technology. (May 2007 - July 2007)
Assistant professor, Department of Leisure Business Management, Nan Kai University of Technology. (Feb. 2006 - Apr. 2007)
Assistant professor, Department of Sports Business Management, DaYeh University. (Aug. 2003 - Jan. 2006)
Lecturer, Department of Sports Business Management, DaYeh University. (Oct. 2002 - July. 2003)

Research Specialization

Sports Nutrition and Human Performance

Biochemistry and Sports Training

Recognition

2009 & 2010 Outstanding research award in sports science, Sports Affairs Council, Taiwan.

2008~2015 Outstanding research award, NTSU, Taiwan.

2008 & 2011 Outstanding mentor award, NTSU, Taiwan.

2011 & 2012 Outstanding teaching Award, NTSU, Taiwan.

Alumni Research Award, the 18th annual ceremony of NTSU, Taiwan.

Outstanding graduate student research award, the 24th annual meeting of Nutrition Society of Taiwan, Taiwan.

Journal Reviewer

Journal of Sports Medicine and Physical Fitness (JSMPF).

Food Chemistry.

Journal of Analytical Toxicology (JAT).

International Journal of Medicine and Medical Sciences (IJMMS).

International Journal of Nutrition and Metabolism (IJNAM).

Publications

Peer-reviewed journals

1. Wang, C.C., Yang, M.T., Lu, K.H., Chan, K.H.* (2016). The effects of creatine supplementation on explosive performance and optimal individual postactivation potentiation time. *Nutrients*, 8,143. doi:10.3390/nu8030143.
2. Lu, K.H., Wang, T.Y., Shih, C.Y., Chang, Y.K. Chan, K.H.* (2014). Cardiac biomarkers response to high-intensity interval exercise in collegiate basketball players. *Journal of Sports Medicine and Physical Fitness*, 54(5), 680-682.
3. Wang, T. Y., Ho, C. F., Chan, K. H. *, Lee, W. C., & Hsu, M. C. (2012). Effects of consecutive 7-day high- versus moderate-intensity training on endurance determinants and muscle damage in basketball players. *International Sportmed Journal*, 13(1), 18-28.
4. Hsu, M. C., Chien, K. Y., Hsu, C. C., Chung, C. J., Chan, K. H., & Su, B. (2011). Effects of BCAA, arginine and carbohydrate combined drink on post-exercise biochemical response and psychological condition. *Chinese Journal of Physiology*, 54(2), 71-78.
5. Yeh, T. S., Chan, K. H., Hsu, M. C., & Liu, J. F. (2011). Supplementation with soybean peptides, taurine, pueraria isoflavone, and ginseng saponin complex improves endurance exercise capacity in humans. *Journal of Medicinal Food*, 14(3), 219-225.

6. Chan, K. H.*, Hsu, M. C., Tseng, C. Y., & Chu, W. L. (2010). Famprofazone use can be misinterpreted as methamphetamine abuse. *Journal of Analytical Toxicology*, 34(6), 347-353.
7. Chan, K. H., Hsu, M. C., Chen, F. A., & Hsu, K. F. (2009) Elimination of ephedrine in urine following administration of a Sho-seiryu-to preparation. *Journal of Analytical Toxicology*, 33(3), 162-166.
8. Chan, K. H., Hsu, M. C., Chu, W. L., Tsay, W. I., & Liu, C. (2009). Collaborative study on the determination of phencyclidine in urine by gas chromatography-mass spectrometry. *Journal of Food and Drug Analysis*, 17(1), 6-10.
9. Hsu, M. C., Lin, S. F., Kuan, C. P., Chu, W. L., Chan, K. H., & Chang-Chien, G. P. (2009) Oxethazaine as the source of mephentermine and phentermine in athlete's urine. *Forensic Science International*, 185, e1-e5.
10. Chan, K. H., Pan, R. N., Hsu, M. C., & Hsu, K. F. (2008). Urinary elimination of ephedrine following administration of the traditional Chinese medicine preparation Kakkon-to. *Journal of Analytical Toxicology*, 32(9), 763-767.
11. Chan, K. H., Lin, S. Y., Liu, J. F., & Hsu, M. C. (2008). Effects of fructose-electrolyte-antioxidant vitamin commercial sports drink ingestion on muscle damage and energy metabolic response during exhaustive exercise. *Journal of Physical Education & Recreation (Hong Kong)*, 14, 32-38.
12. Chan, K. H., Hsu, M. C., & Chu, W. L. (2007). Determination of pentazocine in urine by gas chromatography-mass spectrometry. *Journal of Food and Drug Analysis*. 15(3), 228-232.
13. Hsu, M. C., Chan, K. H.*, Chu, W. L., & Liu, R. H. (2007). Collaborative study on the determination of 7-aminoflunitrazepam in urine by GC-MS. *Journal of Food and Drug Analysis*, 15(2), 202-205.
14. Chan, K. H., Pan, R. N., & Hsu, M. C. (2005). Simultaneous quantification of six ephedrine in a Mahwang preparation and in urine by high-performance liquid chromatography. *Biomedical Chromatography*, 19, 337-342.
15. Liu, J. F., Chang, W. Y., Chan, K. H., Tsai, W. Y., Lin, C. L., & Hsu, M. C. (2005). Blood lipid peroxides and muscle damage increased following intensive resistance training of female weightlifters. *Annals of the New York Academy of Sciences*, 1042, 255-261.
16. Chan, K. H., Hsu, M. C., & Lee, N. Y. (2003). The influence of creatine supplementation on maximal muscular strength during resistance training in weightlifters. *Annual Journal of Physical Education and Sports Science*, 3, 63-72.
17. Chan, K. H., Chiu, Y. M., Lin, L. C., & Hsu, M. C. (2002). Analytical method development of vitamin B12 supplement. *Annual Journal of Physical Education and Sports Science*, 2, 73-80.
18. Hu, S. P., & Jan, Q. H. (2000). Practice and knowledge of adults consuming high-fiber foods in Taipei. *New Taipei Journal of Medicine*, 2(1), 66-72.

Conference paper

1. Wang, C. C., Tsai, H. Y., & Chan, K. H. (2015). *The effects of short-term creatine supplementation on sports performance and individual postactivation*

- potentiation time*. Paper presented at the 11th World Congress of the International Society for Adaptive Medicine, Yonago, Japan. (Poster presentation)
2. Lin, S. H., Chen, Y. B., Lo, S. A., & Chan, K. H. (2015). *Differences in sex hormones and bone minerals between oligomenorrhea and eumenorrhea female collegiate athletes*. Paper presented at the 11th World Congress of the International Society for Adaptive Medicine, Yonago, Japan. (Poster presentation)
 3. Yang, M. D., Chen, Y. B., Chen, H. H., & Chan, K. H. (2015). *Effects of high-intensity interval training with coenzyme Q₁₀ supplementation on aerobic capacity*. Paper presented at the 11th World Congress of the International Society for Adaptive Medicine, Yonago, Japan. (Poster presentation)
 4. Lu, K. H., Chang, C.Y., & Chan, K. H. (2014). *Cardiac biomarkers response to high-intensity intermittent exercise*. Paper presented at the 1st Asia Pacific Conference on Coaching Science, Sapporo, Japan. (Oral presentation)
 5. Wang, T. Y., Lee, M. M., & Chan, K. H. (2014). *Acute response and adaptation of intermittent hypoxia or hyperoxia during high-intensity interval training on exercise-induced stresses*. Paper presented at the 61st Annual Meeting of the American College of Sports Medicine, Orlando, Florida, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 46 (5), S504.
 6. Lu, K. H., Chang, C.Y., & Chan, K. H. (2014). *Ischemic preconditioning does not improve isokinetic muscle strength and endurance in humans*. Paper presented at the 61st Annual Meeting of the American College of Sports Medicine, Orlando, Florida, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 46 (5), S207.
 7. Lo, S. A., Chan, K. H., Lin, Y. T., & Ho, C. W. (2013). *Excess body fat has negative impacts on hip strength in competitive athletes with menstrual dysfunction*. Paper presented at the 60th Annual Meeting of the American College of Sports Medicine, Indianapolis, Indiana, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 45 (5), S196.
 8. Wang, T. Y., Lee, M. M., & Chan, K. H. (2013). *The adaptation of exercise-induced stresses after short-term high-intensity interval training*. Paper presented at the 60th Annual Meeting of the American College of Sports Medicine, Indianapolis, Indiana, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 45 (5), S421.
 9. Lee, M. M., Wang, T. Y., Hu, S. Z., & Chan, K. H. (2013). *The effects of concurrent circuit exercise training on metabolic syndrome in middle-aged woman*. Paper presented at the 60th Annual Meeting of the American College of Sports Medicine, Indianapolis, Indiana, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 45 (5), S311.
 10. Chan, K. H., Hu, S. Z., Lu, K. H., & Shih, C. Y. (2012). *Effects of three weeks of carnitine supplementation and high-intensity interval training on endurance performance*. Paper presented at the 59th Annual Meeting of the American College of Sports Medicine, San Francisco, California, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 44 (5), S179.
 11. Yang, S. C., Wang, C. C., Lee, Y. C., Chan, K. H., & Kuo, C. H. (2012). *Influence*

- of twelve second pitching interval time on muscle damage and inflammation in baseball pitcher.* Paper presented at the 59th Annual Meeting of the American College of Sports Medicine, San Francisco, California, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 44 (5), S401.
12. Lo, S. A., Wang, C. L., Chen, S. C., & Chan, K. H. (2012). *Faster rate of weight-loss associated with female athlete triad components in youth.* Paper presented at the 59th Annual Meeting of the American College of Sports Medicine, San Francisco, California, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 44 (5), S427.
 13. Wang, T. Y., Lee, M. M., Shih, C. Y., & Chan, K. H. (2012). *Effects of intermittent hypoxia or hyperoxia during high-intensity interval training on endurance determinants.* Paper presented at the 59th Annual Meeting of the American College of Sports Medicine, San Francisco, California, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 44 (5), S690.
 14. Lee, S. L., Tsai, Y. M., Chan, K. H., Lin, C. F., & Hsu, M. C. (2011). *Physical activity and Rhodiola Rosea supplementation among lipid profiles parameters in postmenopausal women.* Paper presented at the 58th Annual Meeting of the American College of Sports Medicine, Denver, Colorado, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 43 (5), S594.
 15. Wang, T. Y., Shih, C. Y., Lee, M. M., & Chan, K. H. (2011). *Effects of intermittent hypoxia or hyperoxia during high-intensity interval training on lymphocyte mitochondrial alteration.* Paper presented at the 58th Annual Meeting of the American College of Sports Medicine, Denver, Colorado, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 43 (5), S230.
 16. Hung, Y. W., Chen, S. C., Hsu, M. C., Pan, R. N., Hsu, M. C., & Chan, K. H. (2011). *Elimination of ephedrine in urine following administration of a Yi-Yi-Ren-Tang preparation.* Paper presented at 2011 ICHPER. SD Asia Congress, Taipei, Taiwan ROC. (Poster presentation)
 17. Hsu, M. C., Wang, K. H., Hung, Y. W., Pan, R. N., Chan, K. H., & Hsu, M. C. (2011). *Elimination of ephedrine in urine following administration of a Yuehpi-chiachu-tang preparation.* Paper presented at 2011 ICHPER. SD Asia Congress, Taipei, Taiwan ROC. (Poster presentation)
 18. Chen, F. T., Chang, Y. K., Wang, C. C., Chan, K. H., & Yen, S. H. (2010). *Effects of an acute exercise on cognitive aspects of the tower of London test.* Paper presented at NASPSPA conference, USA. (Poster presentation) Paper printed in *Journal of Sport and Exercise Psychology*, 32 (sup.), S150.
 19. Wang, C. C., & Chan, K. H. (2010). *The immediate effect of magnesium supplementation on aerobic exercise performance, heart rate and blood lactate of 400 m track and field athletes during recovery period.* Paper presented at the 2010 Northeast Asia Conference on Kinesiology Korea Association of Certified Exercise Professionals (KACEP) 11th Annual Meeting, Seoul, Korea. (Poster presentation)

20. Lo, S. A., Lee, M. M., Chen, S. C., Chang, J. R., & Chan, K. H. (2010). *The prevalence of female athlete triad among competitive athletes in Taiwan*. Paper presented at the 2010 Northeast Asia Conference on Kinesiology Korea Association of Certified Exercise Professionals (KACEP) 11th Annual Meeting, Seoul, Korea. (Oral presentation)
21. Chan, K. H., Wu, C. H., & Wang, C. C. (2010). *Nutritional supplement use among professional baseball players in Taiwan*. Paper presented at the 57th Annual Meeting of the American College of Sports Medicine, Baltimore, Maryland, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 42 (5), S468.
22. Lo, S. A., Chen, S. C., Chan, K. H., Lin, W. J., & Chien, K. Y. (2010). *Metabolic aging is accelerated by obesity in late adolescence*. Paper presented at the 57th Annual Meeting of the American College of Sports Medicine, Baltimore, Maryland, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 42 (5), S390.
23. Wang, T. Y., Lee, M. M., & Chan, K. H. (2010). *Effects of high-intensity interval training on critical velocity and anaerobic work capacity in canoeing*. Paper presented at the 57th Annual Meeting of the American College of Sports Medicine, Baltimore, Maryland, USA. (Oral presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 42 (5), S103.
24. Lee, M. M., Wang, T. Y., & Chan, K. H. (2009). *The effects of high-intensity interval and moderate-intensity continuous training on canoe ergometer performance*. Paper presented at the 8th Annual Conference of the Chinese Scholars on Exercise Physiology and Fitness, Hong Kong Baptist University, Hong Kong, China. (Poster presentation)
25. Wang, T. Y., Lee, M. M., & Chan, K. H. (2009). *The correlations between physiology determinants and canoeing ergometer performance in elite canoeist*. Paper presented at the 8th Annual Conference of the Chinese Scholars on Exercise Physiology and Fitness, Hong Kong Baptist University, Hong Kong, China. (Poster presentation)
26. Lo, S. A., Chien, K. Y., Chen, S. C., Lin, W. J., & Chan, K. H. (2009). *The increase of insulin resistance and cardiovascular risk on age in obese youths*. Paper presented at the 4th Asia-Pacific Conference on Exercise and Sports Science and 8th International Sports Science Conference, Kota Bharu, Kelantan, Malaysia. (Poster presentation)
27. Chan, K. H., Tseng, C. Y., Chu, W. L., & Chen, D. (2009). *The urine metabolic enantiomeric differences on famprofazone ingester and methamphetamine abuser*. Paper presented at the 56th Annual Meeting of the American College of Sports Medicine, Seattle, Washington, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 41 (5), S550.
28. Hsu, M. C., Lin, S. F., Kuan, C. P., Chu, W. L., Chan, K. H., & Chang-Chien, G. P. (2009) *Oxethazaine as the source of mephentermine and phentermine in athlete's urine*. Paper presented at the 56th Annual Meeting of the American College of Sports Medicine, Seattle, Washington, USA. (Poster presentation) Paper printed in *Medicine & Science in Sports & Exercise*, 41 (5), S550.