



Mahidol University

College of Sports Science and Technology

AMORN PAN AJJMAPORN

E-Mail: amornpan.ajj@mahidol.ac.th



EDUCATION

PhD 2006 Mahidol University

Neuroscience

MSc 2000 Mahidol University

Exercise Physiology

BSc 1988 Khon Kaen University

Physical Therapy

PROFESSIONAL EXPERIENCE

2019 - PRESENT

Associate Professor

College of Sports Science and Technology
Mahidol University, Thailand

2014 - 2019

Assistance Professor

College of Sports Science and Technology
Mahidol University, Thailand

2012 - 2014

Instructor

College of Sports Science and Technology
Mahidol University, Thailand

2009 - 2011

Postdoctoral Training

Pathology Department, University of North Dakota, School
of Medicine and Health Sciences, North Dakota, USA

2008 - 2009

Postdoctoral Training

Pharmacology, Physiology, and Therapeutics, University of
North Dakota, School of Medicine and Health Sciences,
North Dakota, USA

2007

Postdoctoral Training

Department of Molecular Neurochemistry, Georgetown
University, Medical center, Washington, D.C., USA

1990 - 1997

Physical Therapist

The Industrial Rehabilitation Centre, Social Security
Office

1988 - 1989

Physical Therapist

Phichit Hospital

PROFESSIONAL SOCIETIES AND ORGANIZATIONS

2006	MEMBER SOCIETY FOR NEUROSCIENCE
2000 - 2006	THE ROYAL GOLDEN JUBILEE PH.D.PROGRAM OF THAILAND, PH.D. STUDENT AWARD
1988 - Present	THAI PHYSICAL THERAPY ASSOCIATION

GRANT

2018 - Present THE ROYAL GOLDEN JUBILEE PH.D.PROGRAM OF THAILAND AWARD

CERTIFICATION

1988 - Present Thai Physical Therapy Licensure

PUBLICATION

INTERNATIONAL CONFERENCE

EFFECT OF 8 WEEKS MODIFIED HIGH-INTENSITY CIRCUIT TRAINING USING BODY WEIGHT ON BODY COMPOSITION IN SEDENTARY OBESE WOMAN. **Ajjimaporn A.**,Widjaja W., Khemtong C. College of Sports Science and Technology. The 23th Annual congress of the European College of Sport Sciences, July 4-7, 2018. Dublin, Ireland

Effects of cold showers on physiological responses after exercise in hot environment. **Ajjimaporn, A.**, Widjaja, W.,Sirikun, P. College of Sports Science and Technology. The 20th Annual congress of the European College of Sport Sciences, July 6-9, 2016. Vienna, Austria

Effects of various exercise postures on heart rate and energy expenditure in pregnant women. **Ajjimaporn, A.**, Nakkanung, N., Pintong, M., Chauchaiyakul, R. College of Sports Science and Technology. The 19th Annual congress of the European College of Sport Sciences, July 2-5, 2014. Amsterdam,Netherlands

Expression of the zinc/cadmium transporter, SCL39A8 (ZIP8), in normal and transformed cells of the prostate and bladder, and in renal cortical tissue and derived cell culture.**Ajjimaporn, A.**, Scott, H. G., Seema, S., Xu Dong, Tom, B., Donald, A. S., Soisungwan, S. and Mary Ann, S. Department of Pathology.The 2011 SOT Annual Meeting, March 6-10, 2011. Washington Convention Center, Washington, D.C., USA.

Zinc transporter ZIP8 (SLC39A8) expression in normal and transformed cells of bladder, and in renal cortical tissue and derived cell culture. **Ajjimaporn,A.**, Scott, H. G., Seema, S., Xu Dong, Tom, B., Donald, A. S., Soisungwan, S. and Mary Ann, S. Department of Pathology.2010 North Dakota INBRE Annual Symposium, October 28, 2010. Alerus Center, Grand Forks, ND, US

The relative expression of the individual human metallothionein isoforms within the normal breast epithelial cell line, MCF10 cells, exposed to zinc.**Ajjimaporn, A.**, Seema,S., Scott, H.G., Donald, A.S. Department of Pathology.2009 North Dakota INBRE Annual Symposium, October 22, 2009. Hilton Garden Inn, Grand Forks, ND, USA.

Dose-Dependent Activation of Neuroglia results in Dose-Independent Loss of CHAT Positive cells. **Ajjimaporn,A.** Gienger, H.M., Rosenberger, T.A. Department of Pharmacology, Physiology & Therapeutics. the 40th annual meeting of American Society for Neurochemistry, March 7-11, 2009. Charleston, South Carolina, USA.

Mechanisms of metallothionein in preventing methamphetamine-induced neurotoxicity in SK-N-SH. **Ajjimaporn A,** Govitrapong P and Ebadi M. the Society's 36th annual meeting of Neuroscience 2006, October 14-18, 2006 the Georgia World Congress Center, Atlanta, GA, USA.

Synergistic effects of Zinc-Metallothionein against methamphetamine induced mitochondrial damage in SK-N-SH cells. **Ajjimaporn A,** Govitrapong P and Ebadi M. 7th Biennial Meeting of APSN 2006, July 2-5, 2006. Suntec Int'l Convention and Exhibition Centre, Singapore.

Dopamine Transporter Dysfunction in Weaver Mutant Mouse Brain. **Ajjimaporn A,** Eken J, Ward S, Sharma S and Ebadi M. Department of Pharmacology, Physiology & Therapeutics. Experimental Biology 2004, April 17-21, 2004. Washington Convention Center, Washington, D.C., USA.

Molecular Mechanism of Progressive Neurodegeneration in Developing Weaver Mutant (W/WV) Mice. **Ajjimapporn A,** Sharma S, Keawphalouk M, Ward S, Eken J, & Ebadi M. Department of Pharmacology, Physiology & Therapeutics. Franklow Research day, April 15, 2004. University of North Dakota, Grandforks, ND, USA.

Tyrosine Hydroxylase, alpha-synuclein, and Complex-1 Expression in Weaver Mutant Mice. **Ajjimaporn A,** Eken J, Ward S, Sharma S and Ebadi M. Department of Pharmacology, Physiology & Therapeutics. UND Graduate School 2004 Scholarly Forum, March 4, 2004. University of North Dakota, Grandforks, ND, USA.

PUBLICATION

National Journal Articles

Weerachat Srichan, Phatchari Mankong, Chaleelak Thongprasert, Tippawan Pongcharoen, **Amornpan Ajjimaporn**, Sueppong Gowachirapant (2019). Reliability and Validity of the Physical Activity Questionnaire for Pregnant and Lactating Women. *Journal of Health Systems Research*. 13(1) :90-105. (TCI 1)

Papatsorn Ramyarangsi, Vorasith Siripornpanich, Waree Widjaja, **Amornpan Ajjimaporn** (2018). The effects of sleep deprivation on brain waves, Loughborough Soccer Passing Test and moods in collegiate soccer players. *JSST*. 18(2) :9-20.(TCI 1)

Amornpan Ajjimaporn, Waree Widjaja, Chutimom Khemthong (2017). Effects of 8 weeks modified high-intensity circuit training using bodyweight on body weight, body circumference and basal metabolic rate in sedentary obese woman. *JSST*.17(2):109-202.(TCI 1)

Sucheera Chuensa-nguan, Kakanand Srungboonmee, **Amornpan Ajjimaporn**, Korakod Panich (2017). Short-Term Effect of Five-Minute Warm-Up Protocols on Flexibility and Repeated Sprint Ability in Collegiate Soccer Players. *JSST*.17(1) :45-56.(TCI 1)

Narinrat Somwhong, Korakod Panich, **Amornphan Ajjimaporn** (2017). Physical fitness performance as determined by the Eurofit Test Battery in Thai overweight/obese children. *JSST*.17(1) :57-67.(TCI 1)

Amornpan Ajjimaporn, and Waree Widjaja (2016). Physical fitness and cortisol level in the injured workers after 6 months of physical rehabilitation. *JSST*.16(2):89-98.(TCI 2)

Pensinee Panasiriwong, Sunisa Rachiwong, **Amornpan Ajjimaporn**, Waree Widjaja and Thyon Chentanez (2016). Effects of eight week modified hatha yoga on heart rate variability and stress response of industrial injured workers. *JSST*. 16(1):55-64.(TCI 2)

Natthaphol Phewkham, Sirirat Hiranrat, **Amornpan Ajjimaporn** and Chanakan Boonnuch (2016). Comparison of the electromyography during push-up exercise with three different conditions in healthy adults. *JSST*.16(1):33-44.(TCI 2)

Krirkwit Phongsri, **Amornpan Ajjimaporn**, and Supaporn Silalertdetkul (2015) Concurrent strength and endurance training for interment sport athletes (review article in Thai version). *Journal of Faculty Physical Education*. 18(2):1-15 (TCI 2)

Amornpan Ajjimaporn, Waree Widjaja and Thyon Chentanez (2015) Stress level and simple reaction time changes in the injured workers of the Industrial Rehabilitation Center, Social Security Office, Ministry of Labor, Thailand. *Journal of Medicine and Health Sciences*. 22(3):15-24 (Thai version).(TCI 2)

Siyarat Thitiphongtakan, Waree Widjaja, Vorasith Siripornpanich, Amornpan Ajjimaporn (2015). The acute effects of exergame on brain functions in elderly. *JSST*. 15(1): 131-140.(TCI 2)

Sirikun Pitsamai, Waree Widjaja, Amornpan Ajjimaporn (2015). The acute effect of cold showers recovery method on core temperature, heart rate, and thermal sensation scale after exercise in hot environment. *JSST*. 15(1): 91-98. (TCI 2)

Pattama Kherdkarn, Waree Widjaja, Vorasith Siripornpanich, **Amornpan Ajjimaporn** (2015) The acute effects of exergame on haemodynamics responses in sedentary and active young adults. *JSST* 15(1): 121-130. (TCI 2)

Orawan Chareonphol, Narin Somwang, Korakod Panich, **Amornpan Ajjimaporn** (2015). Physical fitness changes in children after attending a sports summer day camp program 2015 at College of Sports Science and Technology, Mahidol University for 3 weeks. *JSST*. 15(1): 213-222 (TCI 2)

PUBLICATION (CONT.)

NATIONAL JOURNAL ARTICLES

Nithiwat Keeratithaworn, Korakod Panich, Amornpan Ajimaporn, Vilai Kuptniratsaikul (2015). Effect of 4 week simple balance exercise on balance ability in Thai elderly. *JSST*. 15(1): 203-211.(TCI 2)

Amornpan Ajimaporn, Kornkit Chaijenkij and Rungchai Chauchaiyakul (2014) Effects of exercising posture on heart rate and energy expenditure in Thai pregnant women. *Journal of Sports Science and Technology*. Vol. 14, No. 1, July 2014: 145-154 (TCI 2)

Amornpan Ajimaporn. Relationship between work-related injuries, stress-induced cortisol level and effects of yoga training (review article in Thai version). *Journal of Sports Science and Technology*. Vol. 2, No. 1, December 2013: 1-7 (TCI 2)

Ajimaporn, A., Chentanez, T., Songcharoen, P., Chauchaiyakul, R., and Cherdrunsi, P. Adaptations of psychomotor parameters with and without weight training for 8 weeks period in below right elbow amputees. *Bull. Health Sci. & Tech*. 2002;5(1):45-65.(TCI 2)

Ajimaporn, A., Chentanez, T., Songcharoen, P., Cherdrunsi, P, and Chauchaiyakul, R. Anthropometric and strength adaptations of limb segments after seven to fourteen months below elbow and below knee amputations. *Bull. Health Sci. & Tech*. 2002;5(1):65-75.(TCI 2)

INTERNATIONAL JOURNAL ARTICLES

Ajimaporn, A., Ramyarangsi¹, P., Siripornpanich, V. (2020) Effects of a 20-min Nap after Sleep Deprivation on Brain Activity and Soccer Performance. *Int. J Sports Med*. (Articles in Press) Q1 (IF 2.132)

Khobkhun F, Hollands MA, Richards J, **Ajimaporn A.** (2020) Can We Accurately Measure Axial Segment Coordination during Turning Using Inertial Measurement Units (IMUs)?. *Sensors (Basel)*. 2020;20(9): E2518. Published 2020 Apr 29. doi:10.3390/s20092518 Q2 (IF 3.031)

Siripornpanich, V., Rachiwong, S., **Ajimaporn, A.** (2019) A pilot study on salivary cortisol secretion and auditory P300 event-related potential in patients with physical disability-related stress. *Int J Neurosci*. 2019 Oct 2:1-6. doi: 10.1080/00207454.2019.1667786. Q2 (IF1.852)

Ajimaporn A., Khemtong C, Widjaja W. (2019) Effect of 4 -Week HICTBW Training on Cardiorespiratory Fitness in Sedentary Women, *Asian Journal of Sports Medicine* Sept 25:1-7. doi: 10.5812/asjasm.86951.Q3

Widjaja W., Jitvimolnimit K., **Ajimaporn A.**, Laskin J. Effect of modified Thai yoga on energy cost and metabolic intensity in obese older adult Thai women, *Postepy Rehabilitacji* (2019) 33(3) 47-54. Q4

Ajimaporn A., Pitsamai S, Chauchaiyakul R, Widjaja W. (2019) Effect of Cold shower on recovery from high intensity cycling in the heat, *Journal of Strength and Conditioning Research* 33(8):2233-2240. DOI:10.1519/JSC.0000000000003017. Q1 (IF 2.325)

Willems MET, Parkin N, Widjaja W, **Ajimaporn A.** (2018) Effect of New Zealand Blackcurrant Extract on Physiological Responses at Rest and during Brisk Walking in Southeast Asian Men: A Randomized, Double-Blind, Placebo-Controlled, Crossover Study, *Nutrients*, Volume 10, Issue 11, 1732 (<https://doi.org/10.3390/nu10111732>) Q1 (IF 4.196)

PUBLICATION (CONT.)

Ajjimaporn A, Rachiwong S, Siripornpanich V. (2018) Effects of 8 weeks of modified hatha yoga training on resting-state brain activity and the P300 ERP in patients with physical disability-related stress. *J. Phys. Ther. Sci.*30(9):1187-1192. DOI: 10.1589/jpts.30.1187 Q2

Chauchaiyakul, R., Pinthong, M, **Ajjimaporn, A.** (2018) Acute physiological responses in pregnant women during exercises in different positions. *Physiotherapy Theory and Practice*. Mar 20:1-7. doi: 10.1080/09593985.2018.1449276. [Epub ahead ofprint] Q2 (IF 1.129)

Rachiwong S, Panasiriwong P, Saosomphop J, Widjaja W, **Ajjimaporn A** (2015) Effects of Modified Hatha Yoga in Industrial Rehabilitation on Physical Fitness and Stress of Injured Workers. *Journal of Occupational Rehabilitation*. 25(3):669-74; DOI: 10.1007/s10926-015-9574-5. Q1 (IF 1.644)

Amornpan Ajjimaporn, Charintip Somprasit, Rungchai Chauchaiyakul (2014) A Cross-sectional Study of Resting Cardiorespiratory and Metabolic Changes in Pregnant Women. *J. Phys. Ther. Sci.* 26 (5): 779–782. Q2

Amornpan Ajjimaporn, Tom Botsford, Scott H Garrett, Mary A Sens, Xu Dong Zhou, Jane R Dunlevy, Donald A Sens and Seema Somji (2012) ZIP8 expression in human proximal tubule cells, human urothelial cells transformed by Cd+2 and As+3 and in specimens of normal human urothelium and urothelial cancer. *Cancer Cell International*, 12:16. Q2

Somji S, Garrett SH, Toni C, Zhou XD, Zheng Y, **Ajjimaporn A**, Sens MA, Sens DA (2011) Differences in the epigenetic regulation of MT-3 gene expression between parental and Cd+2 or As+3 transformed human urothelial cells. *Cancer Cell International* 2011, 11:2. Q2

Ajjimaporn A., Gienger HM, Rosenberger TA (2009) Dose-dependent activation of neuroglia results in a dose-independent loss of chAT positive cells. Poster sessions. Special Issue: Abstracts of the American Society for Neurochemistry 40th Annual Meeting, 7–11 March, Charleston, SC, USA. *J. Neurochem.*, 108 (Suppl. 1), 128–129. doi:10.1111/j.1471-4159.2009.05818.x

Ajjimaporn A, Phansuwan-Pujito P, Ebadi M, Govitrapong P (2008) Zinc rescues dopaminergic SK-N-SH cell lines from methamphetamine-induced toxicity. *Brain Res Bull* 77; 361-366. Q2

Ajjimaporn A, Phansuwan-Pujito P, Ebadi M, Govitrapong P (2007) Zinc protects SK-N-SH cells from methamphetamine-induced alpha-synuclein expression. *Neurosci Lett* 23; 419(1):59-63. Q2

Ajjimaporn A, Swinscoe J, Shavali S, Govitrapong P, Ebadi M (2005) Metallothionein provides zinc-mediated protective effects against methamphetamine toxicity in SK-N-SH cells. *Brain Res Bull* 67:466-475. Q2

Shavali S, Ho B, Govitrapong P, Sawlom S, **Ajjimaporn A**, Klongpanichapak S, Ebadi M (2005) Melatonin exerts its analgesic actions not by binding to opioid receptor subtypes but by increasing the release of beta-endorphin an endogenous opioid. *Brain Res Bull* 64 (6): 471-479. Q2

Ebadi M, Shama SK., Wanpan S., **Ajjimaporn A** (2004) Coenzyme Q10 inhibits mitochondrial complex-1 down-regulation and nuclear factor-kappa B activation. *J Cell Mol Med*. 8 (2):213-222. Q2

BOOK CHAPTER

Manuchair Ebadi, Sushil Sharma, **Amornpan Ajjimaporn**, and Scott Maanum. *Weaver Mutant Mouse in Progression of Neurodegeneration in Parkinson's Disease*, In: *Parkinson's Disease*, Manuchair Ebadi; Ronald F. Pfeiffer; J. Smolowitz (eds), Routledge, USA, pp537-556, 2004.

RESEARCH INTERESTS

My research interests include in both areas; human exercise physiology and neuroscience, both of which involve studying the interplay between physiological processes, neuromotor control, and stress response following various events. I always use various physiological methods, i.e., Physical Fitness Test, VO2 max, Reaction time, Electroencephalogram (EEG), and molecular methods, i.e., ELISA technique to explore my work.

TEACHING COURSES

SPSS 286 Sports Physiology 1(Undergraduate Course, MU)

SPEX 286 Exercise Physiology 1(Undergraduate Course, MU)

SPSS 317 Statistics and Research Methodology (Undergraduate Course, MU)

SPSS 164 Motor Learning (Undergraduate Course, MU)

SPSS 283 Science and Arts of Healthy Eating (Undergraduate Course, MU)

SPSS 374 Physiology of Exercise (Undergraduate Course, MU)

SPSS 378 Sports for the Special Groups (Undergraduate Course, MU)

SPEX 371 Exercise for Health Promotion (Undergraduate Course, MU)

SPSS 601 Trends in Sports Science and technology (Graduate Course, MU)

SPSS 531: Exercise Physiology (Graduate Course, MU)

SPSS 541: Sports Physiology (Graduate Course, MU)

SPSS 544: Applied Sports Physiology (Graduate Course, MU)

SPSS 511 Advanced Sports Science and Human Performance (Graduate Course, MU)

SPSS 622: Advanced Physiology for Sports and Exercise Training (Graduate Course, MU)

SPSS 512 Health Sciences in Sports and Exercise (Graduate Course, MU)

SPSS 501 Assessment and analysis of physical fitness in sports (Graduate Course, MU)

SPSS 632 Research Methodology in Sports Science (Graduate Course, MU)