

## Wu, Chih-Hsing, MD.

(Also named as Paulo Wu)

Associate Professor,

Obesity, Osteoporosis and Body Composition  
Research Center

Department of Family Medicine, College of  
Medicine, National Cheng Kung University

138 Sheng Li Road,  
Tainan, 70428, Taiwan



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### Academic Training

M.D.                      China Medical College, Tai-Chung, Taiwan    (1982-1989)

### Academic Course

**2002 - Present**      Associate Professor, National Cheng Kung University, Medical Center, Taiwan.

**2005 - 2006**      Visiting Scholar and Research Fellow, Obesity Research Center, Body  
Composition Unit, St Luke's Roosevelt Hospital Center, Columbia University,  
New York, USA

**2000 - 2000**      Clinical researchers, 2<sup>nd</sup> Department of Internal Medicine, National Kyoto  
University Graduate Medical School, Japan.

**1997 – 2002**      Clinical Teacher, National Cheng Kung University Medical Center, Taiwan.

**1996 – 2002**      Lecturer, Department of Family Medicine, National Cheng Kung University,  
Medical Center, Taiwan.

**1993 - Present**    Visiting Staff, Department of Family Medicine, National Cheng Kung University  
Hospital, Taiwan.

**1992 – 1993**      Chief Resident, Department of Family Medicine, National Cheng Kung  
University Hospital, Taiwan.

**1989 – 1992**      Resident, Department of Family Medicine, National Cheng Kung University  
Hospital, Taiwan.

### Professional Organizations, Societies and Board Certification

Start Year	Society	Present Status
1990	Taiwan Association of Family Medicine	Specialist board
1992	Taiwan Association for Sexuality Education	Active Member
1996	Taiwan Association of Gerontology and Geriatrics	Specialist board
1997	Taiwanese Osteoporosis Association	Council member (05~) President ( 15~17)
1999	Taiwan Diabetes Association	Active member-
1999	North American Association for the Study of Obesity	Active member

2000	Taiwan Medical Association for the Study of Obesity	Specialist board General Secretary (03-05) Council member (00~11)
2001	Taiwan College of Family Physicians	Specialist board Council member(12~)
2002	Taiwan Association of Diabetes Educators	Specialist board
2003	International Society of the Clinical Densitometry	CCD, CDT, Chair of Asia-Pacific Panel(11~) Faculty Committee(11~) Board member(12~15)
2004	Taiwan Society for Adolescent Medicine and Health	Council member(06~11)
2008	Taiwan Medical Association of Human Nutrition	Active member

### Recent Positions:

1. Associate Professor, Obesity, Osteoporosis and Body Composition Research Center, College of Medicine, National Cheng Kung University, Tainan, Taiwan (2002~)
2. Associate Professor, Department of Family Medicine, National Cheng Kung University Medical Center, Tainan, Taiwan (2002~)
3. Consultant of Advisor Board of Postgraduate Year One (PGY1) of Medical Education Task Force, Taiwan Joint Commission for the Hospital Accreditation (TJCHA), Executive Yuan, Taiwan (2003~2005)
4. Director, community training program of PGY1, National Cheng Kung University Medical Center, Tainan, Taiwan (2003~)
5. Co-Chair, Tainan Osteoporosis Prevention, Treatment and Evaluation Associated Membership (TOPTEAM) (2003~)
6. President (2015~2017) and Council member (2003~), Taiwanese Osteoporosis Association (TOA)
7. Director, ISCD committee of TOA(2006~).
8. Faculty of Asia-Pacific Panel and Foreigner Teacher in Asia, the International Society for Clinical Densitometry (ISCD)(2004~)
9. Panel Member of committee (Communications, Marketing, and PR, International Relations, Membership and Faculty Committee) of ISCD (2008~).
10. Editorial Board of Journal named as Recent Patents on Endocrine, Metabolic & Immune Drug Discovery (2008~) ;Journal of Taiwan Association of Gerontology and Geriatrics (2009~); ISRN Obesity (2012~); Journal of Bone Metabolism ( official journal of KSBMR)(2014~)
11. Director, Adult Health Examination Task Force, Health Preventive Medicine Affair of Taiwan Association of Family Medicine (2009~)
12. Chair of Asia-Pacific Panel, the International Society for Clinical Densitometry (ISCD)(2011~2015)
13. Board Member, the International Society for Clinical Densitometry (ISCD)(2012~2015)
14. Council member, Taiwan Family Medicine Research (2012~)
15. Panel, Position Development Conference for Body Composition Analysis, ISCD(2012~2013).
16. Scientific Committee, IOF Regionals 5th Asia-Pacific Osteoporosis Meeting, Taipei, Taiwan, Nov 14-16, 2014.(2014)
17. Scientific Committee, IOF Regionals 6th Asia-Pacific Osteoporosis Meeting, Singapore, Nov 03-06, 2016.(2016)
18. Scientific Committee, AFOS Asia-Pacific Osteoporosis Meeting, Kulalumpur, Malaysia, Oct 06-08, 2017.(2017)

**Grant Support – Academia (active and past)**

	Project Title	Position	Duration	Grant Institute	Grant/IRB number
1.	Analysis estrogenized protein adducts in serum by mass spectrometry method among abnormal weight or glucose metabolism, breast cancer and healthy subjects	Principle Investigator	2017.01-2017.12	NCKUH	NCKUH-10605021
2.	Association between hepatitis B or hepatitis C viral infection and the incidence of hip fracture: Cohort Analysis of National Health Insurance Data	Co-Investigator	2017.01-2017.12	NCKUH	NCKUH-10603042
3.	Associated Risk Factors and Effect of Nutritional Intervention for Sarcopenia and Constipation in Middle-Aged and Old People	Principle Investigator	2016.01-2016.12	WJY/TOA	/ Chi-Mei-10504-J01
4.	Interrelationships between Changes of Brown Adipose Tissue and Metabolism and Body Composition after Different Type of Bariatric Surgery	Principle Investigator	2015.08-2016.07	MOST	MOST 104-2314-B-006-058-/ B-BR-104-035
5.	Adult preventive health exam Training program and introduction of evidence-based medicine	Co-Investigator	2015.04-2016.12	BHP	BHP-D1031222
6.	Analysis processing and application research of the clinical medical image-II	Principle Investigator	2015.01-2015.12	MIRDC	NA
7.	Relationship among sarcopenia, adipokines and Vitamin D for the elderly dwelling in a rural community in southern Taiwan	Co-investigator	2015.01-2015.12	NCKUH	NCKUH-10406015
8.	Epidemiological survey of chronic kidney disease and its association with Falls in Tianliao old people study	Instructor	2014.07-2015.02	MOST	NSC 103-2815-C-006-107-B
9.	Analysis processing and application research of the clinical medical image-I	Principle Investigator	2014.01-2014.12	MIRDC	NA
10.	Innovative Comparative the Global Characterization of Glycosylated Hemoglobin in Non-Diabetic and Diabetic Patients Using Top-Down and Bottom-Up Approach of Proteomic	Principle Investigator	2014.01-2014.12	NCKUH	NCKUH-10306019 (B-ER-102-313)

	Project Title	Position	Duration	Grant Institute	Grant/IRB number
	Analysis				
11.	Pleiotrophic Mechanism of Metabolic Remission in Different Bariatric Surgery: From Gut Hormone and Adipokines to Proteomics Methodology	Principle Investigator	2013.08-2014.07	NSC	NSC 102-2314-B-006-078 -
12.	Adult preventive health exam Training program and introduction of evidence-based medicine	Co-Investigator	2012.04-2012.12	BHP	BHP-1010301A
13.	The incidence, prevalence and risk factors of fall in middle-aged and elder residents in community	Co-Investigator And Advisor	2012.01-2012.12	NCKUH	NCKUH-10102043(ER-100-347)
14.	Pleiotropic Effects of Different Bariatric Surgeries in Morbid Obese: From Pathophysiological Mechanism to Clinical Implications-2 <sup>nd</sup> year	Principle Investigator	2012.01-2012.12	NCKUH	NCKUH-10106001 (BR-99-112)
15.	Pathophysiological Comparison of Body Composition and Metabolic Changes in Surgical and Non-Surgical Intervention in Obese Adults	Principle Investigator	2011.08-2012.07	NSC	NSC 100-2314-B-006-062 (ER-100-419)
16.	Screening at Home and Point of Care for Diabetes Mellitus- Development of biodegradable chip for the detection of glycosylated hemoglobin (HbA1c)	Principle Investigator of substudy	2011.03-2012.02	NSC	NSC 100-2321-B-006-008 (ER-100-033)
17.	Pleiotropic Effects of Different Bariatric Surgeries in Morbid Obese: From Pathophysiological Mechanism to Clinical Implications	Principle Investigator	2011.01-2011.12	NCKUH	NCKUH-10006004 (BR-99-112)
18.	Prevalence of osteoporosis and associated risk factors in old male lived in rural community: the Tianliao Township survey	Co-Investigator And Advisor	2010.07-2010.12	NO	ER-99-111
19.	Prediction of successful weight and waist reduction by sibutramine therapy through genotyping of the GNB3 C825T, $\alpha$ 2A C1291G and 5-HTTLPR polymorphism in a body weight control clinic	Co-Investigator And Advisor	2010.08-2011.07	NSC	NSC 99-2314-B-006-051 (BR-99-056)
20.	Adult preventive health exam and oral screening: Quality Control Project	Co-Investigator	2010.01-2011.12	BHP	BHP-9907001A (
21.	From Body Composition and Glucose-Adipocytokine Axis to disclose the possible mechanism of metabolic differences and its therapeutic response in different weight and metabolic abnormalities subjects	Principle Investigator	2009.08-2011.07	NSC	NSC 98-2314-B-006-029 -MY2
22.	The influence of professional training and development system on the marriage and	Co-Investigator	2009.07-2010.06	Health Science	ER-98-117

	Project Title	Position	Duration	Grant Institute	Grant/IRB number
	reproductive planning: experiences of female physicians at a medical center in southern Taiwan			Foundation	
23.	Prevalence of senile osteoporosis and associated risk factors in rural community: the Tianliao Township survey	Co-Investigator	2009.07-2009.12	NCKUH	ER-98-125
24.	Community survey of the accuracy of osteoporotic screening and the attendee's osteoporotic knowledge, attitude and behavior	Co-Investigator	2009.03-2010.03	BHP	BHP-A9802-6
25.	Phenomic and genetic analyses of metabolic profiles and therapeutic response between metabolic normal (MNO) and abnormal obese (MAO) subjects	Principle Investigator	2009.01-2010.12	NCKUH	NCKUH-9801002
26.	Oral Fluid (Saliva) Based Molecular Diagnostics for central obesity and cardiovascular risk factors	Co-Investigator	2008.01-2008.12	NCKUH	ER-96-46
27.	Cohort study of the dose-response effect of betel-quid chewing on four-compartmental model of body composition-the impact on metabolic syndrome and bone mineral density	Principle Investigator	2007.08-2009.07	NSC	NSC 96-2314-B-006-071-MY2
28.	Using Body Composition Model to Validate the Percent Body Fat of Bioelectrical Impedance Analysis in Taiwanese	Principle Investigator	2006.08-2007.07	NSC	NSC 95-2314-B-006-047
29.	Effect of Different Weight Reduction Intervention and Level on the Changes of Obesity-Related Cytokins and Metabolic Syndrome in Morbid Obesity	Principle Investigator	2005.08-2006.07	NSC	NSC 94-2314-B-006-019
30.	Assessment of Effect of Raloxifene on bone quality by Quantitative Ultrasound in Postmenopausal Women with osteoporosis	Co-Investigator And Advisor	2005.01-2005.12	NCKUH (National Cheng Kung University Hospital)	NCKUH 94-033
31.	Questionnaire survey of the prevalence and associated factors of overactive bladder	Co-Investigator	2005.01-2005.12	NCKUH	NCKUH 94-088
32.	Serotonin Transporter Binding in Obesity Before and After Successful Body Weight Reduction-Obese vs Non-Obese Comparison study	Co-Investigator	2004.01-2005.08	National Science Council (NSC)	NSC 93-NU-7-006-003
33.	Effect of Different Weight Control Intervention on the Changes of Body Composition and Basal Metabolic Rate in Dieting Obese Outpatient.	Principle Investigator	2004.08-2005.07	NSC	NSC 93-2314-B-006-110

	Project Title	Position	Duration	Grant Institute	Grant/IRB number
34.	A Taiwan Isoflavone Multicenter Study (TIMS)-- The Effect of Isoflavone on Bone Mineral Density (BMD) in Taiwanese Women with Postmenopausal Osteopenia.	Co-Investigator, Regional Director	2004.07- 2007.12	National Health Research Institute (NHRI)	NHRI-GE-093-P P-02 (TIMS study)
35.	Obesity and Brain Dopamine	Co-Investigator	2002.08- 2005.07	NSC	NSC 91-2314-B006-15 3
36.	Socioeconomic assessment of obesity and dieting behavior -from the viewpoint of health fabrication product	Researcher	2004.08- 2005.07	NSC	NSC 93-2412-H-006 -002
37.	Effect of Physical Fitness Intervention on the Changes of Body Composition and Basal Metabolic Rate in Dieting Obese Outpatient.	Co-Investigator	2004.01- 2004.12	NCKUH	NCKUH 93-035
38.	Prevalence of Obesity, Associated Risk Factors and Weight Reduction Behaviors in Taiwan	Principle Investigator	2003.08- 2004.07	NSC	Failed
39.	Effect of Habitual Tea Drinking on Bone Mineral Density: A Longitudinal Follow-up Study.	Principle Investigator	2003.08- 2004.07	NSC	NSC 92-2314-B-006-1 13
40.	Differences of percent body fat and fat distribution measured by dual-energy X-ray absorptiometry between habitual and non-habitual tea drinkers	Principle Investigator	2002.08- 2003.07	NSC	NSC 91-2314-B-006-0 77
41.	Differences of percent body fat and fat distribution measured by dual-energy X-ray absorptiometry between habitual and non-habitual tea drinkers (Co-study)	Principle Investigator	2002.08- 2003.07	NCKUH	NCKUH 92-049
42.	The role of gait, physical activity and muscle strength in the development of osteoporosis	Co-Investigator	2001.08- 2002.07	NSC	NSC 90-2314-B006-11 5
43.	Epidemiological survey of the relationship between habitual tea consumption and bone mineral density in Chinese adult women	Principle Investigator	2001.08- 2002.07	NSC	NSC 90-2314-B006-10 4
44.	Epidemiological survey of the relationship between habitual tea consumption and bone mineral density in Chinese adult women (Co-study)	Principle Investigator	2001.08- 2002.07	NCKUH	NCKUH 91-039
45.	Comparison of Effectiveness of Three Different Waist Circumferences and Waist-to-Hip Ratios by Dual Energy X-ray Absorptiometry in Evaluating Body Fat Distribution and its Relationship to Cardiovascular Dysmetabolic Syndrome in Women.	Principle Investigator	1999.07- 2000.12	NCKUH	NCKUH 89-071

	Project Title	Position	Duration	Grant Institute	Grant/IRB number
46.	Comparison of Effectiveness of Three Different Waist Circumferences and Waist-to-Hip Ratios by Dual Energy X-ray Absorptiometry in Evaluating Body Fat Distribution and its Relationship to Cardiovascular Dysmetabolic Syndrome in Men.	Principle Investigator	1999.08-2000.07	NSC	NSC 89-2314-B006-044
47.	Comparison of Sex- and Menopause-Associated Changes in Body Fat Distribution Measured by Dual Energy X-ray Absorptiometry and the Impact on Insulin, Blood Pressure and Lipid Profiles.	Principle Investigator	1998.07-1999.06	NCKUH	NCKUH 88-051
48.	Epidemiological survey of the prevalence and cardiovascular risk factors of NIDDM	Researchers	1995.07-1998.06	DOH (Department of Health)	(DOH85-TD-043)
49.	Epidemiological study of the diabetes in the elderly in Tainan	Researcher	1999.08-2000.07	NSC	(NSC 89-2314-B-006-042)
50.	Effects of Non-steroidal Anti-Inflammatory Drugs on Thyroid Function Tests	Principle Investigator	1995.08-1996.07	NCKUH	NCKUH-85-51
51.	Relationship between body fat distribution and glucose tolerance, blood pressure, lipid and lipoprotein profiles	Principle Investigator	1993.07-1994.06	NCKUH	NCKUH-83-38
52.	Referral and consultation of first-visit patient in the Out-Patient Clinic of Family Medicine of a Medical Center	Principle Investigator	1994.07-1995.06	NCKUH	NCKUH-84-47
53.	Naltrexone and psychotherapy treatment model in alcoholism	Co-investigator		DOH	DOH 86-
54.	Effect of Parity on Glucose tolerance test in female adult	Co-investigator	1996.07-1997.06	NCKUH	NCKUH-86-043

### Clinical trials

	Project Title	Position	Duration	Grant Institute
1	Agreement Study of Hand Bioimpedance analysis (AVITA) and dual energy X-ray absorptiometry	Co-Investigator	2002.01-2002.12	Ho-Jang International Limited Company
2	A Multi-center Orlistat Post-Marketing Surveillance Study	Investigator	1999.07-2001.12	Roche
3	A Multi-Center Randomized Trial to Test the Efficacy and Safety of Two Different Very-Low-Calorie-Diet (800Kcal/day and	Co-Investigator	2004.01-2004.12	Novartis

	Project Title	Position	Duration	Grant Institute
	450Kcal/day) In Taiwan Obese Patients			
4	A multicentric, double-blind, randomized, placebo-controlled study to assess the efficacy and safety of one year administration of 2g per day of Strontium Ranelate (S12911) versus placebo in Taiwanese women with postmenopausal osteoporosis	Co-Investigator	2004.04-2005.10	Servier
5	A Multi-Center Randomized Trial to Test the Efficacy and Safety of Two Different Very-Low-Calorie-Diet (800Kcal/day and 450Kcal/day) In Taiwan Obese Patients-REFEEDING SUBSTUDY-	Principle Investigator	2005.01-2005.12	Novartis
6	A phase IIb/III randomized, placebo-controlled clinical trial to study the safety and efficacy of MK-0364 in overweight and obese patients with type 2 diabetes mellitus (T2DM)	Co-Investigator	2006.11-2009.07	MSD
7	A Multicenter, International, Randomized, Double-blind, Alendronate-controlled Study to Determine the Efficacy and Safety of Romosozumab in the Treatment of Postmenopausal Women With Osteoporosis (ARCH)	Principle Investigator (Taiwan)	2014.04-2018.12	Amgen

## Award

1. **1999: Best Paper of Year : The Gerontological Society of Taiwan**
2. **2000: Best Paper of Year : Taiwan Association of Family Medicine (corresponding author)**
3. **2000: Scholarship Grant : Fujisawa Company ( to Kyoto University)**
4. **2001: Best Paper of Year : The Gerontological Society of Taiwan**
5. **2002: Best Paper of Year : Taiwan Association of Family Medicine**
6. **2003: Best Paper of Year : Taiwan Association of Family Medicine (corresponding author)**
7. **2004: Best Paper of Year : Taiwan Diabetes Association**
8. **2005: Scholarship Grant : Ministry of Education ( Columbia University, NY)**
9. **2006: Best Paper of Year : Taiwan Association of Family Medicine (corresponding author)**
10. **2007: Best Paper of Year : Taiwan Association of Family Medicine (oral presentation)**
11. **2009: Poster Award: International Conference on Geriatric Syndrome Studies (Study director)**
12. **2010: Clinician of the Year: the International Society for Clinical Densitometry (ISCD)**
13. **2010: 2<sup>nd</sup> Award of Chart Writing Contest, Internist : National Cheng Kung University Hospital (Instructor)**
14. **2010: Top One of Summer Student Research Project: National Cheng Kung University, College of Medicine (Instructor)**
15. **2010: 3<sup>rd</sup> Award of Poster: The Gerontological Society of Taiwan (Instructor)**
16. **2010: Best Oral Presentation- The Taiwanese Osteoporosis Association (Instructor)**
17. **2010: Supreme Article of Student Clinical Study: The Foundation of Taiwan Medical Development Awards for Outstanding Writings (Instructor)**
18. **2010: 2<sup>nd</sup> Best Article of Student Clinical Study: The Foundation of Taiwan Medical Development Awards for Outstanding Writings (Instructor)**



19. 2011:Best Clinical Teacher, National Cheng Kung University Hospital.
20. 2011:Award of Student Mentor, College of Medicine, National Cheng Kung University.
21. 2011:3<sup>rd</sup> Best Paper of Year : The Gerontological Society of Taiwan. (Instructor)
22. 2011:Best Oral Presentation- The Taiwanese Osteoporosis Association (Instructor)
23. 2011:3<sup>rd</sup> Best Article of Student Clinical Study: The Foundation of Taiwan Medical Development Awards for Outstanding Writings (Instructor)
24. 2011: Top One of Summer Student Research Project: National Cheng Kung University, College of Medicine (Instructor)
25. 2011: Best Poster: The Taiwan Medical Association for the Study of Obesity(TMASO) (Instructor)
26. 2011: 3<sup>rd</sup> Best Oral Presentation: The Taiwan Medical Association for the Study of Obesity(TMASO)(Instructor)
27. 2012: Best Oral Presentation: Taiwan Association of Family Medicine (Instructor)
28. 2013: 2<sup>nd</sup> Best Poster Presentation: The Taiwanese Osteoporosis Association (Instructor)
29. 2013: Best Poster Presentation: The Taiwan Medical Association for the Study of Obesity(TMASO) (Instructor)
30. 2014:Best Clinical Teacher, National Cheng Kung University Hospital.
31. 2015:3<sup>rd</sup> Young Investigator Award, WONCA, AP Regional Meeting, Taiwan Association of Family Medicine (Instructor).
32. 2015: Best Poster: The Taiwan Medical Association for the Study of Obesity(TMASO) (Instructor)
33. 2015:Top Third of Summer Student Research Project: National Cheng Kung University, College of Medicine (Instructor)
34. 2016: Top One of Summer Student Research Project: National Cheng Kung University, College of Medicine (Instructor)
35. 2017: 2<sup>nd</sup> Best Paper of Year : Taiwan Association of Family Medicine (corresponding author)
36. 2017: 3<sup>rd</sup> Award of Oral Presentation: The Gerontological Society of Taiwan (Instructor)

## Thesis Advise ment

1. **Hei-Ching Kuo:** Emotion and health-related quality of life alter as the obese subjects fed with very low calorie diets. Master in Behavior Medicine, NCKU (2003-2006)
2. **Chin-Sung Chang :** Role of Adiponectin Gene Variants, Adipokines and Hydrometry-based Percent Body Fat in Metabolically Healthy and Abnormal Obese Phenotypes. Ph D in Clinical Medicine, NCKU (2005-2015).
3. **Se-Shin Wang :** Aesthetic, Health, and Body Experience : A Comparative Study of Weight Control Patients in Medical and Non-medical settings. Master in Behavior Medicine, NCKU (2004-2006).
4. **Cheng-Yi Chen:** Osteoporosis in institutionalized elderly: a non-pharmacological intervention. Master in Institute of Gerontology, NCKU (2007-2009).
5. **Peiyng Wu:** The frailty problem in the old male in rural community. Master in Institute of Gerontology, NCKU (2009-2011).
6. **Meng-Tzu Hou:**Relationship between physical function and laboratory findings in old male in rural community Master in Institute of Gerontology, NCKU (2009-2011).
7. **Pu-Shen Kuo:**Prevalence and management status of diabetes mellitus in old male lived in rural community. Master in Institute of Gerontology, NCKU (2010-2012).

8. **Shao-Yin Wu:** Disordered eating behavior in obese adult and the interventional effect of programmed weight control. Master in Behavior Medicine, NCKU (2011-2013)
9. **Pei-Chia Huang:** Evaluation of eating disorder by SCOFF during first visit in obese clinic. Master in Behavior Medicine, NCKU (2011-2014)
10. **Angelica Te-Hui Hao:** The effectiveness of health belief and bone turnover makers intervened by exercise with multimedia education in a high risk group of osteoporosis. KMU School of Nursing, PhD degree(2010~)
11. **Chien-Hui Pai:** Prevalence and associated risk factors of obesity defined by different indicators and cutoffs in old people living in rural community. Master in Institute of Gerontology, NCKU (2014-2016).
12. **Jo-Chi Chung:** The effect of integrated exercise on pain, functional performance and quality of life in middle aged and older patient with knee osteoarthritis. Master in Institute of Gerontology, NCKU (2014-2017).
13. **Chun-Hung Ko:** Associated Risk Factors and Effect of Nutritional Intervention for Sarcopenia and Constipation in Middle-Aged and Old People. Master in Institute of Gerontology, NCKU (2016-2018).

### Dissertation Committees

1. **Ru-Jye Chuang:** Health Fitness Test in a Community : Comparing Characteristics of Participants and Non-participants. Master in Public Health, NCKU (2002)
2. **Hao-Shiang Chang:** Pathway of Metabolic Syndrome among Taiwanese: A Structural Equation Model Approach. Master in the Institute of Preventive Medicine, College of Public Health, National Taiwan University (NTU, 2004)
3. **Han-Hung Wang:** Can Acupuncture Enhance the Effects of weight Reduction of Traditional Method? Master in Public Health, NCKU (2005, June)
4. **Dong-Hui Lin:** Comparison of DXA, BIA and skinfold thickness methods in measuring percent body fat in adolescent athletes, Master in the Institute of Exercise, NKNU (2008).
5. **Hei-Ching Kuo:** Effect of different programmed weight loss intervention and level on health-related quality of life in Chinese. Master in Behavior Medicine, NCKU (2008)
6. **Cheng-Cha Liu:** The prognosis of spinal stenosis in aged people with operation therapy. Master in Institute of Gerontology, NCKU (2009)
7. **Cheng-Yi Chen:** Osteoporosis in institutionalized elderly: a non-pharmacological intervention. Master in Institute of Gerontology, NCKU (2009).
8. **Chi-Ling Wu:** Sociodemographic Analysis of Smoking among Females in Taiwan. Master in Institute of Public Health, NCKU (2010)
9. **Chin-Kai Chang:** Compliance of Osteoporosis medication in OPD, Master in Institute of Gerontology, NCKU (2011)
10. **Peiying Wu:** The frailty problem in the old male in rural community. Master in Institute of Gerontology, NCKU (2011)
11. **Meng-Tzu Hou:** Relationship between physical function and laboratory findings in old male in rural community Master in Institute of Gerontology, NCKU (2011).
12. **Pu-Shen Kuo:** Prevalence and management status of diabetes mellitus in old male lived in rural community. Master in Institute of Gerontology, NCKU (2012)
13. **Shu-Han Chuang:** A Study of Factors Associated with Health Examination among Elderly Men Living in Suburban District—An Example from Tianliao District, in Kaohsiung, Taiwan. Master in Institute of Gerontology, NCKU (2013)
14. **Shao-Lin Lee:** BMI Change Trajectories Before Self-reported Diagnosed Diabetes in Middle-aged and Older Adults in Taiwan: An 18-years Follow-up Study. Master in Institute of Gerontology, NCKU (2013)

15. **Shao-Yin Wu:** Disordered Eating Behavior and Effect of Programmed Weight Loss on Obese Outpatients in Weight Management Clinic of a Medical Center. Master in Behavior Medicine, NCKU (2014)
16. **Pei-Chia Huang:** Using the SCOFF Questionnaires to Screen for Disordered Eating Behavior and Predict the Effect of Weight Reduction in First Visit Outpatients of a Weight Management Clinic. Master in Behavior Medicine, NCKU (2014)
17. **Shih-Hao Wang:** In-Depth Comparative Characterization of Hemoglobin Glycation in Normal and Diabetic Bloods by LC-MSMS Using Top-Down and Bottom-Up Approach. Master in Department of Chemistry, NCKU (2014)
18. **Chin-Sung Chang :** Role of Adiponectin Gene Variants, Adipokines and Hydrometry-based Percent Body Fat in Metabolically Healthy and Abnormal Obese Phenotypes. Ph D in Institute of Clinical Medicine, NCKU (2015).
19. **Hsing-Chun, Hsieh:** Balancing benefit and risk to select an optimal drug among a series of alternatives for patients: an evidence-based prescribing of statins. Institute of Clinical Pharmacy and Pharmaceutical Science, NCKU(2015).
20. **Yung-Chen Yu:** The effectiveness of mobile-based app to improve diabetes glycemic control and reduce diabetes-related distress in middle-aged and older adults. Master in Institute of Gerontology, NCKU (2015).
21. **Chien-Hui Pai:** Prevalence and associated risk factors of obesity defined by different indicators and cutoffs in old people living in rural community. Master in Institute of Gerontology, NCKU (2016).
22. **Chun-Ying Lee:** Association of Parental Overweight and Cardiometabolic Diseases and Pediatric Adiposity and Lifestyle Factors with Cardiovascular Risk Factor Clustering in Adolescents. Ph D in Department of Public Health, KMU (2017).
23. **Jo-Chi Chung:** The effect of integrated exercise on pain, functional performance and quality of life in middle aged and older patient with knee osteoarthritis. Master in Institute of Gerontology, NCKU (2017).

### **Reviewer for Peer Reviewed Journals**

1. International Journal of Obesity and Metabolic Disorder
2. Obesity
3. American Journal of Epidemiology
4. Primary Medical Care and Family Medicine
5. Chinese Journal of Family Medicine
6. Journal of Taiwan Association of Gerontology and Geriatrics (Editorial board)
7. The Open Nutrition Journal
8. Journal of Formosan Medical Association
9. Journal of Taiwan Public Health
10. Recent Patents on Endocrine, Metabolic & Immune Drug Discovery (Editorial board)
11. Obesity Surgery
12. Diabetes Research and Clinical Practice
13. The Indian Journal of Medical Research (IJMR)
14. Journal of Clinical Pathology and Forensic Medicine
15. Archives of Physical Medicine and Rehabilitation
16. European Journal of Clinical Investigation
17. ISRN Obesity (Editorial board)
18. Journal of Clinical Densitometry( JCD)

19. Journal of Osteoporosis
20. Endocrine Journal
21. Plos One
22. Journal of Nutrition, Health and Aging
23. Medical Education
24. Cardiovascular Diabetology
25. African Journal of Biochemistry Research
26. Clinica Chimica Acta
27. World Journal of Gastroenterology
28. Geriatrics & Gerontology International
29. Journal of Clinical Gerontology and Geriatrics
30. Archives of Gerontology and Geriatrics
31. International Scholarly Research Notices
32. International Research Journal of Biochemistry and Biotechnology
33. Nutrients
34. British Journal of Nutrition
35. Osteoporosis International

#### **Reviewer for Grants and Scholar Promotion**

1. Ministry of Science and Technology (MOST), Taiwan
2. National Cheng Kung University Hospital, Taiwan
3. Tzi-Chi Hospital, College of Medicine, Taiwan
4. E-Da Hospital, Kaohsiung, Taiwan
5. Tri-Service General Hospital, Taiwan
6. Kaohsiung Medical College, Taiwan
7. China Medical University, Taiwan
8. National Taiwan University, Taiwan
9. Cheng Shiu University, Taiwan
10. TransWorld University, Taiwan
11. Fu-Jen Catholic University School of Medicine, Taiwan
12. Chung Hwa University of Medical Technology (CUMT), Taiwan
13. Taiwan Biobank

#### **International Activities**

1. **Faculty of Asia-Pacific Panel, International Society of Clinical Densitometry (ISCD)(2004~)**
2. **Director of the Faculty of International Teacher in Taiwan branch, International Society of Clinical Densitometry (ISCD)(2004~)**
3. **Council Member, Asia-Oceania Association for the Study of Obesity (AOASO), (2005~7)**
4. **Committee member of International Relations, Membership, Faculty Committee of ISCD (2008~).**
5. **Chair of Asia-Pacific Panel, the International Society for Clinical Densitometry (ISCD)(2011~2015)**
6. **Editorial Board of ISRN Obesity (2012~)**
7. **Board Member, the International Society for Clinical Densitometry (ISCD)(2012~2015)**
8. **Scientific Committee, 5th IOF Regional Meeting, Taipei (2014)**
9. **Scientific Committee, 6th IOF Regional Meeting, Singapore (2016)**

## 10. Editorial Board of Osteoporosis & Sarcopenia (2016~)

## 11. Scientific Committee, AFOS Meeting, Malaysia (2017)

### Patent:

- I480553: A METHOD FOR DETECTING GLYCOSYLATED HEMOGLOBIN (糖化血紅素之偵測方法) /Taiwan/ 20150411-20310814

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### Technology Transfer:

- TC-105-018 : Know-how of Clinical Trial of ProNutro Complete Nutrition Food New Fiber Formula /Standard Foods Corporation, Taiwan/20160601-20370531

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### A. Original Peer Reviewed

1. Chih-Hsing Wu, Chin-Sung Chang, Yen Kuang Yang, Lie-Hang Shen, Wei-Jen Yao. Comparison of Brain Serotonin Transporter Using [I-123]-ADAM between Obese and non-Obese Young Adults without an Eating Disorder. PLoS ONE 2017;12(2): e0170886. ( 2015IF=3.057, 11/63, MULTIDISCIPLINARY SCIENCES)
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3. Wei-Ting Chang, Chih-Hsing Wu, Ling-Wei Hsu, Po-Wei Chen, Jia-Rong Yu, Chin-Sung Chang, Wei-Chuan Tsai, Ping-Yen Liu. Serum vitamin D, intact parathyroid hormone, and Fetuin A concentrations were associated with geriatric sarcopenia and cardiac hypertrophy. Scientific Reports 2017 Jan 23;7:40996. (2015 IF=5.228, 7/63, MULTIDISCIPLINARY SCIENCES)
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7. Chih-Hsing Wu, Chen-Jung Shen, Kun-Ling Wu, Zih-Jie Sun, Ming-Fong Chang, Jung-Fu Chen, Shih-Te Tu. Long-Term Use of Acarbose and CV Event: Confusing Finding from Mega Data Bank. Diabetic Med 2016 Dec;33(12):1749-1750.( 2015 IF= 3.152, 56/133, Endocrinology and Metabolism)
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- Catechol Estrogens to Serum Proteins in Human Blood. *Toxicological Sciences* 2015 Dec;148(2):433-42. (2014 IF=4.478) (cite=1)
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## **B. Senior Authored (Corresponding)**

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38. Meng-Tzu Hou, Pei-Ying Wu, Yin-Fan Chang, Chin-Sung Chang, Chuan-Yu Chen, Chih-Hsing Wu 2011. Relationship Between Anthropometric Parameters, Percent Body Fat and Physical Fitness Performance In Old Male Lived In Rural Community. *Int J Obes* 2011;35 (suppl 2): S52. (IBC 2011, Abstract Poster) (IF=4.343)
39. Chih-Hsing Wu, Zih-Jie Sun, Yin-Fan Chang, Ling-Jun Ou, Ruey-Mo Lin 2012. Knowledge, Attitude and Perception on Osteoporotic Prevention and Treatment in Middle-Aged and Old People in Taiwan. APHPE , Taipei, Taiwan, 2012.
40. Chih-Hsing Wu. Obesity and osteoporosis. IOF Regionals 3rd Asia-Pacific Osteoporosis Meeting, Kuala Lumpur, Malaysia, 2012. *Osteoporosis International* 2012;23 ( suppl 7): S746-7. ( IF=5.01)
41. Chang YF, Chang CS, Wu CF, Tu CW, Chen CY, Kuo PH, Wu CH. Role of Thoracic-lumbar spine X-ray in the osteoporotic diagnosis: Tianliao Old People Study (TOP4). IOF Regionals 3rd Asia-Pacific Osteoporosis Meeting, Kuala Lumpur, Malaysia, 2012. *Osteoporosis International* 2012;23 ( suppl 7): S7805-6. ( IF=5.01)
42. Ou LC, Chang YF, Chang CS, Chiu CJ, Chao TH, Lin RM, Sun ZJ, Wu CH. Association between FRAX without BMD and incidence of falls in middle-aged and old people: an epidemiological cohort survey. 20<sup>th</sup> Annual meeting of ISCD, Orlando, USA. *Osteoporosis International* 2014; 25 ( suppl 1): S41-2. ( IF=5.01)
43. Chan DC, Wu CH, Lim LC, Chen SL, Yang RS, Tsai KS. Comparison of chart-based and web-based estimations of 10-year probability of fractures among customers screened at pharmacy chain stores in Taiwan. 20<sup>th</sup> Annual meeting of ISCD, Orlando, USA. *Osteoporosis International* 2014; 25 ( suppl 1): S46-7. ( IF=5.01)
44. limited record, full paper only.

### **G. Invited Lecture – Local Society**

1. Taiwan Osteoporosis Guideline-diagnosis, prevention and treatment, Annual meeting of the Taiwan Medical Association, 2007
2. Changing concept of Guideline in the diagnosis and treatment of osteoporosis-from WHO to Taiwan, Annual meeting of the Taiwan Orthopedics Association, 2007
3. Osteoporosis diagnosis and treatment-from WHO to Taiwan, Annual meeting of the Taiwan Osteoporosis Association, 2007
4. Biochemistry marker in DM dyslipidemia, Spring conference of Taiwan Association of Family Medicine, March, 2009
5. Update osteoporosis management- old concept, new balance, Annual meeting of The Taiwan Menopause Society, April, 2009
6. The risk and prevention of influenza, Annual meeting of Taiwan Association of Family Medicine, July 2009
7. Caveats and pitfalls in osteoporosis. Autumn meeting of Taiwan Association of Family Medicine, Oct 2009
8. Practice usage of Statin-TOPS strategy. Autumn meeting of Taiwan Association of Family Medicine, Oct 2009
9. Anti-obesity Drug: an Update. Annual Symposium of TMASO-Tainan section, Aug 2010.
10. New pharmacological management of osteoporosis. Spring meeting Taiwan Orthopedic

Association, Mar 2010.

11. Metabolic syndrome in Taiwan-past, present and future. Annual Meeting of Taiwanese Association of Diabetes Educators, Taipei, 2015.
12. Limited record.....

#### **H. Invited Lecture –International Society**

1. Obesity and Bone (Meet Professor). IOF Regionals 6th Asia-Pacific Osteoporosis Meeting, Singapore, Nov 4-6, 2016.
2. Fracture Liaison Service in Taiwan (Taiwan representative). IOF Regionals 6th Asia-Pacific Osteoporosis Meeting, Singapore, Nov 4-6, 2016.
3. ISCD and FRAX development in Taiwan. Advance Educations Mammography and BMD, 20th Anniversary of BJC-Hologic, Bangkok, Thailand, Sep 3-4, 2015.
4. Tea and Bone Health (Meet Professor). IOF Regionals 5th Asia-Pacific Osteoporosis Meeting, Taipei, Taiwan, Nov 14-16, 2014.
5. Epidemiology of Osteoporosis in Asia. 2nd Asia-Pacific Bone and Mineral Research (APBMR), Seoul, Korea, May 30 – June 1, 2014.
6. How to expand the influence of ISCD in Asia-Pacific Regions- Experience of Taiwan. ISCD Annual Meeting, Orlando, USA, Feb 19-22, 2014.
7. Obesity and Osteoporosis, IOF Regionals 3rd Asia-Pacific Osteoporosis Meeting, Kuala Lumpur, Malaysia, Dec 13-16, 2012.
8. BMD measurement in Taiwan, 6th International Conference on Osteoporosis and Bone Research, Xi'an, China, Sep 20-23, 2012.
9. Consensus of IOF/ISCD FRAX INITIATIVES in Asia-Pacific Region. TOA Annual Meeting, Taipei, Taiwan, Aug 24-26, 2012.
10. Past, present and future of DXA body composition in Taiwan. ISCD Annual Meeting, LA, USA, March 7-10, 2012.
11. Metabolic surgery in non morbid obese type II DM-(Debate Cons). 2nd IEF for bariatric and metabolic surgery, Kaohsiung, Taiwan, Feb 26-27, 2012.
12. Body composition analysis in the elderly. ICFR, Taipei, Taiwan, Nov 25-27, 2011.
13. 1<sup>st</sup> ISCD Bone Course, MOS (Malaysian Osteoporosis Society), Kula Lumpur, Malaysia, Nov 13-14, 2011.
14. Overview of the clinical use of DXA examination. MOS (Malaysian Osteoporosis Society) Annual Meeting, Kula Lumpur, Malaysia, Nov 15-16, 2011.
15. Asia Pacific Consensus Meeting For ISCD Position Statement. IOF Regional-1<sup>st</sup> Asia-Pacific Osteoporosis Meeting, Singapore, Dec 2010.
16. Osteoporosis and sarcopenia in the elderly. International Conference on Geriatric Syndrome Studies. Taipei, Taiwan, Nov. 27-29, 2009.
17. How to improve the osteoporotic diagnosis ---The ISCD Course in Taiwan. The First Scientific Meeting of Asian Federation of Osteoporosis Societies, Guangzhou, China, Nov. 12-15, 2009.
18. Osteoporosis Management and ISCD course in Taiwan. Asia Pacific Consensus Meeting for ISCD Position. Taipei, Taiwan, July. 25-26, 2009.

#### **I. Books and Chapters**

1. Coauthor and Co-editor of National Guideline of Management of Osteoporosis in adult in Taiwan, 7th version, 2017.
2. Coauthor and Co-editor of National Guideline of Management of Osteoporosis in adult in Taiwan, 6th version, 2015.
3. Chap 3, National Guidance of Management of Obesity in Taiwan, 2013.
4. Coauthor and Co-editor of National Guideline of Management of Osteoporosis in adult in Taiwan, 5th

- version, 2012.
5. Editor of “ Adult Health Examination-An Operational Handbook”, 2012. (ISBN: 978-986-80371-9-9)
  6. Editor of “ Osteoporosis Prevention”, Traditional Chinese version, 2009 (ISBN 978-986-84565-6-3)
  7. Coauthor and Co-editor of National Guideline of Management of Osteoporosis in adult in Taiwan, 4<sup>th</sup> version, 2009
  8. Osteoporosis, the core curriculum of Taiwan Association of Geriatric and Gerontology, 1<sup>st</sup> version 2009.
  9. Body composition and obesity, the core curriculum of Taiwan Medical Association for the Study of Obesity, 2008.
  10. Editor of “ Human body composition”, traditional Chinese version, 2008 (ISBN 978-986-84565-5-6)
  11. Editor of “ Human body composition”, simplified Chinese version, 2008 (ISBN 978-7-04-023720-7)
  12. Osteoporosis, the core curriculum of Taiwan Association of Family Medicine, 2<sup>nd</sup> version 2007.
  13. Coauthor and Co-editor of National Guideline of Management of Osteoporosis in adult in Taiwan, 3<sup>rd</sup> version, 2007
  14. Osteoporosis in child and adolescent, the core curriculum of Taiwan Society for Adolescent Medicine and Health, 2007.
  15. Coauthor and Co-editor of National Guideline of Management of postmenopausal Osteoporosis in Taiwan, 2<sup>nd</sup> version, 2005
  16. Osteoporosis, the core curriculum of Taiwan Association of Family Medicine, 1<sup>st</sup> version 2005.