**CURRICULUM VITAE**

**Lan-Yuen (Timothy) Guo**

PT, PhD

## http://www.hpcd-kmu.com/ponet/ezcatfiles/rb29/img/img/13239/Guo1.jpg

## INSTITUTIONAL ADDRESS

Kaohsiung Medical University, Kaohsiung

Department of Sports Medicine, College of Medicine,

100, Shi-Chuan 1st Rd., Kaohsiung City 807, Taiwan, R.O.C.

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## PERSONAL

*Date of Birth*: June 22, 1970

*Married Status*: Married, Three Children

*Home Address*: 7, Al 9, Ln 788, Sin-Chuang-Ji Rd, Kaohsiung 813, TAIWAN

## EDUCATION

|  |  |  |
| --- | --- | --- |
| Ph.D. | 1998/09 ~ 2003/01 | National Cheng-Kung University, Taiwan, ROC, Biomedical Engineering |
| M.S. | 1994/09 ~ 1996/06 | National Cheng-Kung University, Taiwan, ROC, Biomedical Engineering |
| B.S. | 1988/09 ~ 1992/06 | National Yang-Ming University, Taiwan, ROC, Physical Therapy |

## ACADEMIC EXPERIENCE

|  |  |
| --- | --- |
| 2022/02~present | Dean, College of  Health Sciences, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2012/08 ~present | Professor, Department of Sports Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2018/08~2019/07 | Leader, Office of Research and Development, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2010/08~2018/07 | Director, Department of Sports Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2017/08~2018/07 | Director, Ph.D. Program in Biomedical Engineering, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2017/01~present | Adjunct Research Fellow, Department of Medical Research, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan |
| 2016/08~present | Director of the Preparatory Office, Ph.D. Program for Biomedical Engineering, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2016/08~present | Joint Appointment Professor, Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2016/08~present | Joint Appointment Professor, Department of Public Health, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2015/08~present | Joint Appointment Professor, Institute of Medical Science and Technology, National Sun Yat-sen University, Kaohsiung, Taiwan |
| 2015/08~present | Joint Appointment Professor, Master Degree Program in Aging and Long-Term Care, College of Nursing, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2015/08~present | Joint Appointment Professor, Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2006/02~2012/07 | Associate Professor, Department of Sports Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2004/08~ 2006/01 | Assistant Professor, Department of Sports Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan |
| 2003/02 ~ 2004/07 | Associate Professor, Department of Physical Therapy, Tzu-Chi College of Technology, Hualien, Taiwan |
| 1996/08 ~ 2003/01 | Instructor, Department of Physical Therapy, Tzu-Chi College of Technology, Hualien, Taiwan |

## OTHER PROFESSIONAL EXPERIENCE

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| --- | --- |
| 2001/03 ~ 2002/03 | Special Project Associate, Orthopedic Biomechanics Laboratory, Mayo Clinic, Rochester, MN, USA |
| 1992/07 ~ 1994/05 | Physical Therapist (Military Service), Hsin-Chu Base, Chinese Air Force, Hsin-Chu, Taiwan |

## HONORS AND AWARDS

|  |  |
| --- | --- |
| 2024 | European College of Sport Science, Fellow |
| 2023 | Kaohsiung Medical University, 2023 Excellent Patent Certification Award |
| 2023 | Kaohsiung Medical University, 2023 Excellent Industry-Academia Collaboration Award |
| 2022 | Kaohsiung Medical University, 2022 Excellent Patent Certification Award |
| 2021 | Kaohsiung Medical University, 2021 Outstanding Industry-Academia Collaboration Award |
| 2020 | FROM IP TO IPO PROGRAM (top 20) |
| 2020 | Innovation and Entrepreneurship Competition (Entrepreneurship Concept Category-Place in Technology Application Group-1st) |
| 2020 | Kaohsiung Medical University, Award of National Innovation Competition 2019 |
| 2018 | The 15th National Innovation Award in the Academic Research Category(Innovative Smart Diagnostic Device for Vestibular Function )  |
| 2018 | The 15th National Innovation Award in the Academic Research Category(An eco-friendly peasonal mobility device with somatic full-balance control) |
| 2017 | Future Technology Exhibition Future Technology Innovation Award(Smart Diagnostic and Rehabilitation Device for Vestibular Function) |
| 2017 | 2017 Sports Technology and Health Experience Industry Innovation Design Product Award |
| 2016 | Students’ Paper competition Award, 2016 Annual Meeting and Sports Technology Conference |
| 2015 | Students’ Oral Paper competition winner, 2015 The Annual Scientific Symposium of Taiwan Society of Biomechanics |
| 2013 | Kaohsiung Medical University, 2012 Excellence Award for Academic Cooperation  |
| 2013 | Kaohsiung Medical University, 2012 Outstanding Research Award |
| 2013 | Kaohsiung Medical University, 2012 Excellent Teaching Award |
| 2012 | Kaohsiung Medical University, Technology Transfer Award for Outstanding Contribution |
| 2012 | Students’ Oral Paper competition winner, 2012 Annual Meeting and Sports Technology Conference |
| 2012 | Students’ Paper competition Award, 2012 Annual Meeting and Sports Technology Conference |
| 2012 | CJSB Oral paper Award , 2012 International Sports Biomechanics Conference and Annual Meeting of Taiwan Society of Biomechanics in Sports |
| 2011 | Kaohsiung Medical University, Outstanding Merit Awards Annual Academic Cooperation |
| 2011 | Kaohsiung Medical University, Technology Transfer Award for Outstanding Contribution |
| 2011 | Students’ Paper competition Award, 2011 Annual Meeting and Sports Technology Conference |
| 2011 | Poster paper competition winner, 2011 International Sports Biomechanics Conference and Annual Meeting of Taiwan Society of Biomechanics in Sports |
| 2010 | Poster paper competition winner, Annual Meeting of Taiwanese Society of Biomechanics in Sports |
| 2010 | Oral paper Award, Annual Meeting of Taiwanese Society of Biomechanics |
| 2010 | Marquis Who's Who in Science and Engineering |
| 2010 | Best Poster Paper, The 2nd Asia-Oceanian Conference of Physical and Rehabilitation Medicine |
| 2010 | Kaohsiung Medical University, 2009 Technology Transfer Award for Outstanding Contribution |
| 2009 | Kaohsiung Medical University, 2008 Outstanding Merit Awards Annual Academic Cooperation |
| 2009 | Kaohsiung Medical University, 2008 Technology Transfer Award for Outstanding Merit |
| 2008 | Kaohsiung Medical University, Award-Winning Fine Teaching Materials |
| 2008 | Kaohsiung Medical University,2007 Technology Transfer Award for Outstanding Merit |
| 2008 | Winning Career Development Grant from the National Institutes of Health Research and Development  |
| 2008 | Asian Admirable Achievers |
| 2008 | Asia American Who's Who  |
| 2007 | Asia Pacific Who's Who  |
| 2006 | Oral paper competition winner, Annual Meeting of Taiwanese Society of Biomechanics  |
| 2006 | Oral paper Award, Annual Meeting of Taiwanese Society of Biomechanics  |
| 2006 | Funding provided by NSC 2006 International Society of Electrophysiology and Kinesiology, Torino, Italy  |
| 2005 | Funding provided by NSC Combined XXth International Society of Biomechanics and 29th American Society of Biomechanics meetings, Cleveland, USA  |
| 2004 | Funding provided by NSC 2004 Pre-Olympic Congress, Thessaloniki, Greece  |
| 2002 | Funding provided by Ministry of Education IV World Congress Of Biomechanics, Calgary, AB, Canada  |
| 2001 | Funding provided by Ministry of Education 25th Annual Meeting of the American Society of Biomechanics, San Diego, CA, USA  |
| 2000 | Li Foundation Fellowship, USA  |
| 2000 | Rotary Scholarship Award  |
| 2000 | Poster paper competition winner, Annual Meeting of Chinese Society of Biomedical Engineering  |
| 2000 | Best Orthopedic Biomechanics paper award, Annual Meeting of Taiwanese Society of Biomechanics  |
| 2000 | Funding provided by NSC 5th Scientific Congress, Sydney 2000 Paralympic Games, Sydney, Australia  |
| 1999 | Shan-Shin Scholarship, Taiwan |
| 1997 | National Science Council Research Award  |
| 1997 | Funding provided by NSC XVIth Congress of the International Society of Biomechanics, Tokyo, Japan  |
| 1996 | Member Phi‑Tau‑Phi Scholastic Honorary Society  |
| 1996 | Certified Professional Physical Therapist, Taiwan  |

## GENERAL RESEARCH INTERESTS

Sports Medicine, Biomechanics of Human Movement, Physical Therapy, Rehabilitation Engineering

## Editorial Board

**International Journal of Environmental Research and Public Health (special issue)[SSCI]**,The Scientific Pages of Sports Medicine, Journal of Musculoskeletal Disorders, Chinese Journal of Sports Biomechanics, Journal of Sports Medicine, International Journal of Physical Therapy and Rehabilitation

## REFEREE/REVIEWER

Journal of Neuro Engineering and Rehabilitation (SCI), American Journal of Physical Medicine & Rehabilitation (SCI), Journal of Sports Science (SCI), Journal of Magnetic Resonance Imaging (SCI), Journal of Multi-body Dynamics (SCI), Journal of the American Podiatric Medical Association (SCI), Lasers in Medical Science (SCI), BMC Medical Imaging (SCI), Journal of Mechanics in Medicine and Biology (SCI), Journal of Medical and Biological Engineering (SCI), Proceedings of the Institution of Mechanical Engineers, Part C (SCI), Journal of Mechanical Engineering Science (SCI), African Journal of Biotechnology (SCI), BMC Sports Science, Medicine and Rehabilitation, Journal of Musculoskeletal Research, Sports and Exercise Research (TSSCI), Physical Education Journal (TSSCI), Taiwan Journal of Sports Scholarly Research, Journal of National Cheng Kung University Physical Education Research, Chinese Journal of Sports Biomechanics

**Institution/Association Title**

 Taiwan Sport Technology Association, Taiwan Elderly Care and Health Promotion Association (TECHPA), International Chinese Holistic Society, Taiwan Rehabilitation Engineering and Assistive Technology Society, Taiwanese Society of Biomedical Engineering, Taiwan Society of Biomechanics in Sports **RECORD OF SERVING AS PRINCIPAL INVESTIGATOR- FUNDED**

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| --- | --- | --- | --- | --- |
| Title of Support | Role on Project | Funding(NTD) | Source of Support | Duration of Support |
| Training Program for Interdisciplinary Talents of Precision Health | Principal Investigator | 5,500,000 | Ministry of Education | 2024/02/01~2025/01/31 |
| Novel Evaluation of Vestibular Functions for Clients with Cervicogenic Dizziness  (NHRI-EX113-11227EI) | Principal Investigator | 1,800,000 | National Health Research Institutes | 2024/01/01~2024/12/31 |
| Construction of multi-faceted intelligent gymnasium environment system for the elderly and with integrated development and verification of precise training: safety, comfortable, interaction and efficiency (SCIE)(III) | Principal Investigator | 1,840,000 | NSYSU-KMU Joint Research Project | 2024/01/01~2024/12/31 |
| Training Program for Interdisciplinary Talents of Precision Health | Principal Investigator | 4,550,000 | Ministry of Education | 2023/02/01~2024/01/31 |
| University Social Responsibility on issues of Air Pollution-Sustainable Development Project of Environmental Education and Health Promotion | Principal Investigator | 16,500,000 | Ministry of Education | 2023/01/01~2024/12/31 |
| Novel Evaluation of Vestibular Functions for Clients with Cervicogenic Dizziness (NHRI-EX112-11227EI) | Principal Investigator | 5,708,000 | National Health Research Institutes | 2023/01/01~2025/12/31 |
| Construction of multi-faceted intelligent gymnasium environment system for the elderly and with integrated development and verification of precise training: safety, comfortable, interaction and efficiency (SCIE)(II) | Principal Investigator | 1,900,000 | NSYSU-KMU Joint Research Project | 2023/01/01~2023/12/31 |
| Development and the Effectiveness Evaluation of a PersonalizedBlood Flow Restriction Training Device (NSTC 111-2622-E-037 -002) | Principal Investigator | 930,000 | National Science and Technology Council | 2022/11/01~2023/10/31 |
| Development and Implementation of Jump Shot Movement FeedbackSystem (NSTC111-3114-8-037 -001) | Principal Investigator | 964,708 | National Science and Technology Council | 2022/09/01~2023/07/31 |
| The Effects of a Novel Neuromuscular Function Feedback TrainingSystem on the Muscular Strength and Power of the Lower Extremityfor Individual with Chronic Kidney Disease (NSTC 111-2410-H-037-025-MY2) | Principal Investigator | 1,480,000  | National Science and Technology Council | 2022/08/01~2024/07/31 |
| Verification and application of development of low-intensity resistance training which combined with innovative equipment with blood flow restriction :Discussion on the benefits of muscle strength training for the sarcopenia elderly and patients with tendinopathy | Principal Investigator | 1,900,000 | NYCU-KMU Joint Research Project | 2022/02/15~2022/07/31 |
| Training Program for Interdisciplinary Talents of Precision Health | Principal Investigator | 4,450,000 | Ministry of Education | 2022/02/01~2023/01/31 |
| LOHAS Kaohsiung • Healthy City - Project of Sustainable Development for Siaogang District Environmental Education and Health Promotion | Principal Investigator | 10,500,000 | Ministry of Education | 2020/01/01~2022/12/31 |
| Construction of multi-faceted intelligent gymnasium environment system for the elderly and with integrated development and verification of precise training: safety, comfortable, interaction and efficiency (SCIE) | Principal Investigator | 1,900,000 | NSYSU-KMU Joint Research Project | 2022/01/01~2022/12/31 |
| Investigation of the Relationship Between Vestibular Function andExercise Training and the Effects after Concussion (II)(NSTC 110-2221-E-037-001) | Principal Investigator | 1,053,000 | Ministry of Science and Technology | 2021/08/01~ 2022/07/31 |
| Development of Intelligent Resistance Training System DuringDialysis(NSTC 110-2622-E-037-001) | Principal Investigator | 770,000 | Ministry of Science and Technology | 2021/06/01~ 2022/05/31 |
| Nasal Positive End-expiratory Pressure Device (nPEEP)-Prototype Effect Verification | Principal Investigator | 500,000 | NSYSU-KMU Joint Research Project | 2021/04/01~2022/03/31 |
| Bio-signal-based Thermal Comfort Modeling and Wearable Bio-signal Sensing Device Development | CO- Investigator | 260,000 | Industrial Technology ResearchInstitute | 2021/03/15~2021/11/30 |
| Biomedical industry and new agricultural cross-disciplinary talent cultivation plan | Principal Investigator | 1,700,000 | Ministry of Education | 2021/02/01~2022/01/31 |
| Development of the Wearable EEG Device for Clients with Dementia in eHealth Application: Monitoring the Early Cognitive Impairment and Investigating the Effect of the Resistance Training on Cognitive Fuction Improvement | Principal Investigator | 800,000 | NSYSU-KMU Joint Research Project | 2021/01/01~2021/12/31 |
| Investigation of the Relationship Between Vestibular Function andExercise Training and the Effects after Concussion(NSTC109-2221-E-037 -003) | Principal Investigator | 1,099,000 | Ministry of Science and Technology | 2020/08/01~ 2021/07/31 |
| Science Park Training Program for Talents | Principal Investigator | 727,000 | Ministry of Science and Technology | 2020/07/01~2021/08/31 |
| Bio-signal-based Thermal Comfort Modeling and Wearable Bio-signal Sensing Device Development | CO- Investigator | 200,000 | NSYSU-KMU Joint Research Project | 2020/06/15~2021/06/14 |
| Intelligent magnetic field induction meditation brain wave induction cushion(NSTC109-2622-H-037 -001 -CC3) | Principal Investigator | 400,000 | Ministry of Science and Technology | 2020/06/01~ 2021/05/31 |
| Bio-signal-based Thermal Comfort Modeling and Wearable Bio-signal Sensing Device Development | CO- Investigator | 260,000 | Industrial Technology ResearchInstitute | 2020/03/15-2020/11/30 |
| Biomedical industry and new agricultural cross-disciplinary talent cultivation plan | Principal Investigator | 1,900,000 | Ministry of Education | 2020/02/01~2021/01/31 |
| The innovative value-added service platform construction anddiffusion for the elderly welfare industry(NSTC108-2745-8-037 -010) | Principal Investigator | 1,445,963 | Ministry of Science and Technology | 2019/11/01~2020/10/31 |
| Science Park Training Program for Talents | Principal Investigator | 960,000 | Ministry of Science and Technology | 2019/07/01~2020/08/31 |
| Drowsy warning detection device based on heart rate variability | CO- Investigator | 200,000 | NSYSU-KMU Joint Research Project | 2019/06/01~2020/05/31 |
| Technology-Oriented Optimization of Counseling Plans for the Aged's Health Industry | Principal Investigator | 912,000 | Ministry of Economic Affairs, R.O.C. | 2019/06/01~2019/11/30 |
| Biomedical industry and new agricultural cross-disciplinary talent cultivation plan | Principal Investigator | 2,200,000 | Ministry of Education | 2019/02/01~2020/01/31 |
| Development of smart-health oriented wearable somatosensory and physiological sensors for rehabilitation aids | Principal Investigator | 1,440,000 | NSYSU-KMU Joint Research Project | 2019/01/01~2019/12/31 |
| Smart multifunctional vibration foam roller development plan | Principal Investigator | 600,000 | Ministry of Economic Affairs, R.O.C. | 2018/08/01~2019/07/31 |
| Characteristics of Electrophysiological Property of NeuromuscularMotor Unit and its Adaptive Strategy Responding to DifferentExercise Modalities in Limb Muscles for Seniors with Sarcopenia(NSTC 107-2410-H-037 -008) | Principal Investigator | 810,000 | Ministry of Science and Technology | 2018/08/01~2019/11/31 |
| The Effects of Cooperative Learning merged with Team-Based Learning Applying to the Sports Medicine Practice Courses | Principal Investigator | 279,000 | Ministry of Education | 2018/08/01~2019/07/31 |
| A Piezo and bio-potential sensing SoC with intelligent real-time computing, compressing andbuffer management support | CO- Investigator | 150,000 | NSYSU-KMU Joint Research Project | 2018/06/11~2019/06/10 |
| Development of Software for Pressure Feedback Using in Core Stability Ball Exercise | Principal Investigator | 200,000 | Kaohsiung Medical University | 2018/03/15~2019/03/14 |
| Biomedical industry and new agricultural cross-disciplinary talent cultivation plan | Principal Investigator | 2,310,000 | Ministry of Education | 2018/03/14~2019/01/31 |
| Effectiveness of implementing individual exercise prescription for elderly | Principal Investigator | 400,000 | Metal Industries Research and Development Centrer | 2018/01/01~2018/12/31 |
| Develop a new balanced measurement method with Kinect image sensor | Principal Investigator | 220,000 | NSYSU-KMU Joint Research Project | 2018/01/01~2018/12/31 |
| The Development of Low-Cost Force Platforms | Principal Investigator | 200,000 | NSYSU-KMU Joint Research Project | 2017/08/15~ 2018/08/14 |
| Effects of Exercise in Community with Pre-Dialysis Chronic KidneyDisease Patient and Intradialytic Exercise Intervention with EndStage Renal Disease Patient: Using APP, Augmented Virtual Realityand Biofeedback(NSTC106-2410-H-037-013) | Principal Investigator | 753,000 | Ministry of Science and Technology | 2017/08/01~2018/07/31 |
| Comparing the Effects of Treadmill Forward Walking and BackwardWalking on Electroencephalography Rhythms(NSTC106-2221-E-110 -044) | CO- Investigator | 911,000 | Ministry of Science and Technology | 2017/08/01~2018/07/31 |
| Comparison of the Effects of Thermal Stimulation and Transcutaneous Electrical Nerve Stimulation on Extremity Sensory and Motor Function in Stroke Patients | Principal Investigator | 500,000 | CHI MEI MEDICAL CENTER-KMU Joint Research Project | 2017/05/01~2018/04/30 |
| Application of innovation and service for Interdisciplinary technology in industry-academic of Heath care device(NSTC106-2622-8-037-001-TB1) | Principal Investigator | 2,400,000 | Ministry of Science and Technology | 2017/02/01~2018/07/31 |
| Validation Study for Novel Designed Tri-axis Force Plate with Accelerometer of power assessment (106-P022) | Principal Investigator | 200,000 | NSYSU-KMU Joint Research Project | 2017/01/01~2017/12/31 |
| The development of controllable rotary chair on the evaluation of the vestibular system. | Principal Investigator | 200,000 | Kaohsiung Medical University | 2016/12/01~2017/12/31 |
| The Development of Apparatus of Muscular Strength and Power for Training Elders’ Lower Extremities | Principal Investigator | 1,200,000 | Industrial Technology Research Institute | 2016/10/01~2017/12/31 |
| The Effect of Power Feedback Training for Clients with the Locomotive Syndrome(NSTC105-2410-H037-008) | Principal Investigator | 811,000 | Ministry of Science and Technology | 2016/08/01~2017/07/31 |
| Developing an Adjustable Elastomer Inside and Forming by One-Piece Mattress for Long Term Care (NSTC105-2812-8-037-001) | Principal Investigator | 260,000 | Ministry of Science and Technology | 2016/03/01~2016/11/30 |
| The Draft of Smart Healthy Exercise Equipment for Common Applicative Interface Standard | Principal Investigator | 150,000 | Industrial Technology Research Institute | 2016/01/05~2016/02/05 |
| A gait feature biofeedback system for walking rehabilitation of stroke patients(105-P009) | Principal Investigator | 200,000 | NSYSU-KMU Joint Research Project | 2016/01/01~2016/12/31 |
| The Effect of Backward Walking Treadmill Training on Gait Performance and Balance Ability for Clients with Chronic Stroke(105-CCH-KMU-004) | Principal Investigator | 500,000 | Changhua Christian Hospital & Kaohsiung Medical University | 2015/11/01~2016/10/31 |
| The Study Planning for the Service of Exercise Management and the Field Validation for the Special Population | CO- Investigator | 900,000 | Industrial Technology Research Institute | 2015/09/01~2015/11/10 |
| Development of Smart Diagnostic and Rehabilitation Device for Vestibular Function(BZ-17-08-29-104) | Principal Investigator | 1,500,000 | Southern Taiwan Medical Device Industry Cluster | 2015/07/01~2016/06/30 |
| Functional Verification of the Supporting Nickel-Titanium Kneepad | Principal Investigator | 230,000 | Metal Industries Research &Development Centre | 2015/07/01~2016/06/30 |
| Monitoring the Rehabilitation Effects of Body Weight Support Backward Walking Treadmill Training on Patients with Chronic Stroke(NSTC103-2221-E-110-050) | CO- Investigator | 646,000 | Ministry of Science and Technology | 2015/06/01~2016/08/31 |
| Explore the Landing Patterns and the Effects of Brooks Pure Drift on Different Slope and Speed(104CM-KMU-09) | Principal Investigator | 500,000 | CHI MEI MEDICAL CENTER-KMU Joint Research Project | 2015/05/01~2016/04/30 |
| SPARK Taiwan- Portable Proprioception Measuring Instrument | CO- Investigator | 18,000,000 | Ministry of Science and Technology | 2015/04~now |
| Smart Living | CO- Investigator | 8,000,000 | Ministry of Education | 2015/02~2016/02 |
| Mechanism and Treatment for Mechanical Neck Disorder: From Peripheral to Central Perspectives (NHRI-EX104-10204EI) | Principal Investigator | 1,074,000 | National Health Research Institutes | 2015/01/01~2015/12/31 |
| Validation Study for Novel Designed Tri-axis Force Plate and Development of Algorithm for Decomposing Ground Reaction Force on a Single Force Plate(NSYSUKMU104-P022) | Principal Investigator | 400,000 | NSYSU-KMU Joint Research Project | 2015/01/01~2015/12/31 |
| Investigation of Sling Exercise Training Combined with Novel Feedback System for Patients with Low Back Pain | Principal Investigator | 275,000 | Ten Chan General Hospital and KMU Joint Research Project | 2014/09/01~2015/08/31 |
| The acceptance and its effect of novel exercise intervention for chronic kidney disease patients in Taiwan(NSTC103-2410-H-037-013-MY2) | Principal Investigator | 1,699,000 | Ministry of Science and Technology | 2014/08/01~2016/07/31 |
| Applying the Force Plate to Track the Effects on Backward Walking Training with Body-weight Support Treadmill for Chronic Stroke Patients(NSTC103-2221-E-110-050) | CO- Investigator | 646,000 | Ministry of Science and Technology | 2014/08/01~2015/07/31 |
| Development and Evaluation of an Evidence-Based Intervention Protocol of the Wheelchair-Bound Senior Elastic Band (WSEB) Exercise Program for the Demented Seniors in Long-Term Care Facilities (NSC102-2314-B037-054-MY2) | CO- Investigator | 2,353,000 | National Science Council | 2013/8/1~2015/7/31 |
| Develop an Innovative Measuring Platform on the Balance of Wheel-Chair and the Distribution of Weights(CZ-05-04-10-103) | Principal Investigator | 2,223,000 | Southern Taiwan Medical Device Industry Cluster | 2014/06/01~2015/05/31 |
| The Novel Fall Risk Assessment Tool which Integrated of Foot Pressure, Gait and Ankle Proprioception (103-CCH-KMU-001) | Principal Investigator | 500,000 | Changhua Christian Hospital & Kaohsiung Medical University | 2014/06/01~2015/05/31 |
| Core Techniques of Functional Movement Assessment and Signal Processing Applied in Industry (NSC103-2622-B-037-002) | Principal Investigator | 2,300,000 | National Science Council | 2014/02/01~2015/01/31 |
| Developing the Training Facilities of Preventing Fallings of the Elders : A Pilot Study | Principal Investigator | 300,000 | Cycling & Health R&D Center | 2014/08/01~2014/12/31 |
| Mechanism and Treatment for Mechanical Neck Disorder: From Peripheral to Central Perspectives (NHRI-EX103-10204EI) | Principal Investigator | 1,000,000 | National Health Research Institutes | 2014/01/01~2014/12/31 |
| The Homodynamic Impacts of Leg Elevation and Stretch Motion and Its Potential Applications (NSYSUKMU103- P034) | Principal Investigator | 280,000 | NSYSU-KMU Joint Research Project | 2014/1/1~2014/12/31 |
| Assistive Platform Related to Sports Protective Instruments and Health Management | Principal Investigator | 840,000 | Ministry of Economic Affairs, R.O.C. | 2014/05/01~2014/10/31 |
| Effectiveness Assessment and Innovative Research of Assistive for Assist Defecation | Principal Investigator | 190,000 | Wei Bao Biotech Co., Ltd | 2013/09/01~2014/08/31 |
| The Comparisons of Effects of Core Stability Exercise and Tai Chi on Core Muscle Performances, Core Stability and Balance in Community-Living Elderly (NSC102-2314-B037-018) | CO- Investigator | 833,000 | National Science Council | 2013/08/01~2014/07/31 |
| The Investigation of Novel Recycle Mattress Applied in Relieved Pressure Effect and Distal Blood Flow Circulation Effect | Principal Investigator | 840,000 | Lian Hong Shing Yeh Co., Ltd | 2013/04/01~2014/03/31 |
| Core Techniques of Functional Movement Assessment and Signal Processing Applied in Industry（NSC102-2622-B-037-001） | Principal Investigator | 2,300,000 | National Science Council | 2013/02/01~2014/01/31 |
| Model Construction of Plantar Pressure Parameters for the Soldiers and Development of the Computer Aided Analysis System for the Insole Design (NSC102-2623-E037-001-D) | Principal Investigator | 832,000 | National Science Council | 2013/01/01~2013/12/31 |
| Mechanism and Treatment for Mechanical Neck Disorder: From Peripheral to Central Perspectives（NHRI-EX102-10204EI） | Principal Investigator | 1,510,000 | National Health Research Institutes | 2013/01/01~2013/12/31 |
| Development of Multiple Channels Peripheral Tissue Micro-Circulation Measurement System and Validation with Clinical Assessment Parameters(NSYSUKMU102-P032) | Principal Investigator | 258,000 | NSYSU-KMU Joint Research Project | 2013/01/01~2013/12/31 |
| Effect of Novel Nerve Gliding Exercise on Neurobiomechanical Characteristics in Athletes with Carpal Tunnel Syndrome (NSC101-2410-H-320-009) | CO- Investigator | 753,000 | National Science Council | 2012/08/01~2013/07/31 |
| Combined with Motion-Sensing Module in the Wireless Zigbee Development and Its Application Falls among the Elderly Positioning and Monitoring (NSC101-2622-E-269-012-CC3) | CO- Investigator | 439,000 | National Science Council | 2012/06/01~2013/05/31 |
| Development of Pressure Feedback System for Lumbar Stabilization and Software for Real-Time Visual and Auditory Feedback on Pressure (NSC101-2622-B-037-003-CC3) | CO- Investigator | 450,000 | National Science Council | 2012/06/01~2013/05/31 |
| Development of Novel Designed Force Plate Combined with Computing Algorithm and Investigating its Reliability and Validity for Measuring the Balance Ability for the Elders(NSYSUKMU 101-017) | Principal Investigator | 300,000 | NSYSU-KMU Joint Research Project | 2012/04/16~2012/12/31 |
| Development and Clinical Trial of Postural Assessment System (NSC101-2321-B-037-002) | Principal Investigator | 1,000,000 | National Science Council | 2012/01/01~2012/12/31 |
| The Effects of Electrical Stimulation on Improving Fatigability and Drowsiness for Drivers | Principal Investigator | 750,000 | Humanbio Instrument, Inc. | 2011/10/01~2012/09/30 |
| The specific application in evaluating and training system of Proprioception in rehabilitation (NSC 100-2321-B- 037 -005) | Principal Investigator | 1,110,000 | National Science Council | 2011/01/01~2011/12/31 |
| Balance improving shoe insoles exploitation and application | Principal Investigator | 200,000 | Hong Guan International Co., Ltd. | 2010/10/01~2011/06/30 |
| Quantification of Trunk Position, Efficacy of Different Stabilizing Exercise Affected, and Interactive E-Book Intervention for Elementary-School-Aged Children(NSC99-2410-H-037-009-MY2) | Principal Investigator | 1,691,000 | National Science Council | 2010/08/01~2012/07/31 |
| Development of the Software for Symmetry Feedback Using in Suspension Training System(NSC99-2622-B-037-001-CC3) | Principal Investigator | 481,000 | National Science Council | 2010/06/01~2011/05/31 |
| Motor Control Characteristics and Effects of Physical Therapy Intervention in Young Athletes with Patellofemoral Pain Syndrome(NSC99-2410-H-277-004) | CO- Investigator | 692,000 | National Science Council | 2010/08/01~2011/07/31 |
| The Effect of Different Backpack Carrying Weights and Exercise Training for Elementary-School-Aged Children---Study of the Characteristics of Pelvic and Lumbar Sacrum Movement and Muscles Contraction (NSC98-2410-H-037-013) | Principal Investigator | 873,000 | National Science Council | 2009/08/01~2010/07/31 |
| Improvement Design of Workplace Tools---Easy Recline Chair and Wrist Supporter for Keyboard and Mouse Users (NSC98-2622-B-037-003-CC3) | Principal Investigator | 969,000 | National Science Council | 2009/07/01~2010/06/30 |
| Biomechanical Analysis of a Wheelchair Wheelie Activity and the Development of New Anti-Tip Device as Well as Its Clinical Application (NSC98-2320-B-037-006-MY3) | CO- Investigator | 3,463,000 | National Science Council | 2009/08/01~2012/07/31 |
| Post-Mastectomy Women Underwent Transverse Rectus Abdominis Musculocutaneous Flap (Tram) Surgery: Its Influence on Abdominal Muscle Function and the Effects of Therapeutic Exercises (NSC98-2314-B-037-008-MY2) | CO- Investigator | 1,628,000 | National Science Council | 2009/08/01~2011/07/31 |
| Force Energy Optimization of Wheelchair Propulsion (NHRI-EX98-9617EI) | CO- Investigator | 1,483,000 | National Health Research Institutes | 2009/1/1 ~2009/12/31 |
| Multi-functional Coordination Assessment and Training Equipment for Upper and Lower Extremities (NSC97-2622-B-037-003-CC3) | Principal Investigator | 457,000 | National Science Council | 2008/08/01~2009/07/31 |
| A Survey of Design Considerations to Promoting Comfortable for Female Worker Wearing High-Heel Shoes and Acceptability in Public (NSC97-2629-E-037-001) | Principal Investigator | 897,000 | National Science Council | 2008/08/01~2009/07/31 |
| The Application of Walking Step Width Variability in Physical Medicine and Rehabilitation | CO- Investigator | 240,000 | Chi Mei Medical Center | 2008/10/01~2009/09/30 |
| The muscle activation patterns for different spinal stabilization movements and support surfaces: Investigated by their unilateral selectivity (CMFHR9757) | CO- Investigator | 315,200 | Chi Mei Medical Center | 2008/10/01~2009/09/30 |
| The Movement Analysis in Baseball Game and its Application in Sports Instruction (7301XSY20) | Principal Investigator | 550,000 | Industrial Technology Research Institute | 2008/05/01 ~2008/12/31 |
| Motor Control Effects of  Traditional Exercise for the Elderly Subjects and Its Possible Underlying Mechanisms (97-CCH-KMU-006) | Principal Investigator | 494,760 | Changhua Christian Hospital & Kaohsiung Medical University | 2008/01/01 ~2008/12/31 |
| Biomechanical and Neurophysiology Investigation of Mechanical Neck Disorder (NHRI-EX97-9713EC) | Principal Investigator | 4,776,000 | National Health Research Institutes | 2008/01/01~2011/12/31 |
| Effect of Tai-Chi Chuan Training on Ankle Proprioception for the Elderly Subjects (NSC96-2314-B-037-060-) | CO- Investigator | 580,000 | National Science Council | 2007/08/01~2008/07/31 |
| Effects of Multimodal Exercise Therapy on Neuro-Mechanical Characteristics of Functional Activity in People with Functional Ankle Instability (NSC96-2314-B277-001) | CO- Investigator | 670,000 | National Science Council | 2007/08/01~2008/07/31 |
| Biomechanical Analysis of Kinetic Chain Exercise on Elbow Joint Loading (NSC96-2221-E-037-002-MY3) | CO- Investigator | 1,906,000 | National Science Council | 2007/08/01~2010/07/31 |
| Biomechanical Analysis of the Influence of Seat Inclination, and an Innovative Rigid Backrest Design during Wheelchair Propulsion (NSC96-2320-B-037-020-MY2) | CO- Investigator | 1,792,000 | National Science Council | 2007/08/01~2009/07/31 |
| Effect of robot-aided bilateral resistive arm movement training on U/E functional recovery in stroke (NSC96-2314-B037-029-MY3) | CO- Investigator | 2,270,000 | National Science Council | 2007/08/01~2010/07/31 |
| Design of Two Novel and Home-Used Proprioception and Resistance Training Equipments (NSC96-2622-B-037-002-CC3) | Principal Investigator | 300,000 | National Science Council | 2007/05/01~2008/04/30 |
| The Development and Design of Exercise Prescription Computer Software (NSC96-2524-S-037-001-EC3) | Principal Investigator | 542,000 | National Science Council | 2007/05/01~2008/04/30 |
| Force Energy Optimization of Wheelchair Propulsion (NHRI-EX96-9617EI) | CO- Investigator | 1.515.000 | National Health Research Institutes | 2007/1/1 ~ 2007/12/31 |
| Postural Control Effect of Middle and Short-Term Continuous Tai-Chi Chuan Training for the Elderly Subjects---Investigated by Obstacle Crossing and Pants Wearing Tasks (NSC95-2314-B037-066) | CO- Investigator | 783,000 | National Science Council | 2006/08/01 ~ 2007/07/31 |
| Muscle Endurance and Fatigue Characteristics in Internal/External Rotators for Patients with Shoulder Instability (NSC95-2314-B037-104) | CO- Investigator | 684,000 | National Science Council | 2006/08/01 ~ 2007/07/31 |
| Position Power Screw of 3 Sections Type Applied on Powered Wheelchairs (NSC95-2622-B037-001-CC3) | CO- Investigator | 400,000 | National Science Council | 2006/05/01 ~ 2007/04/31 |
| Effect and Safety Evaluation of Different Tradition Exercise Item (DOH95-TD-M-113-019-(1/2)) | Principal Investigator | 1,400,000 | Department of Health | 2006/01/01 ~2007/12/31 |
| Design of a new proprioception balance training equipment (NSC 94-2622-B-037-001-CC3) | Principal Investigator | 400,000 | National Science Council | 2005/11/01~2006/10/31 |
| Effects on Foot Kinematics and Plantar Pressure for Different Incline and Speed Jogging (NSC 94-2320-B-037-017) | Principal Investigator | 470,000 | National Science Council | 2005/08/01 ~2006/07/31 |
| Investigation for Muscle Fatigue Characteristics in Shoulder Internal/external Rotators (NSC 93-2320-B-037-055- ) | Principal Investigator | 500,000 | National Science Council | 2004/08/01 ~2005/07/31 |
| Biomechanical Investigation of Jogging (NSC92-2320-B-277-003- ) | Principal Investigator | 386,000 | National Science Council | 2003/08/01 ~2004/07/31 |
| Biomechanics effects during different incline running (TCCT-91A22) | Principal Investigator | 180,000 | Tzu-Chi College of Technology | 2003/01/01 ~2003/12/31 |

**Patent**

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| [Classification](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?80:102569599:10:::@@168179) | Title | Country | Publication number | Inventor | Period |
| Inventions Patent | Positive Pressure Breathing Apparatus | R.O.C. | I797660 | Yu,Yu-Jhih[**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609) | 2023/04/01~2041/06/29 |
| Inventions Patent | Diagnostic Device for Vestibular Function  | U.S | 11369307 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Yen, Chen-WenLiaw, Lih-JiunHuang,Chin-I Chen, Cheng Chun | 2022/06/28~2038/12/29 |
| Inventions Patent | Drowsy Analytical Method | R.O.C. | I744017 | Yi, Horng-Lai[**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Jau-Woei PerngChia-Chi YangWei-Yuan Su | 2021/10/21~2040/09/29 |
| Inventions Patent | Three-Axis Rotational Platform | R.O.C. | I702029 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Chen, Cheng Chun | 2020/08/21~2039/01/16 |
| Inventions Patent | Diagnostic Device for Vestibular Function  | R.O.C. | I698220 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Yen, Chen-WenLiaw, Lih-JiunHuang,Chin-I Chen, Cheng Chun | 2020/07/11~2038/01/28 |
| Inventions Patent | Multi-Axis Measurement Device for Loading Force and Centre of Gravity | U.S | 10506967 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Yen, Chen-WenLiaw, Lih-JiunChen, Cheng Chun | 2019/12/17~2036/01/25 |
| Inventions Patent | Multi-Axis Measurement Device for Loading Force and Centre of Gravity | EU | 3342341 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Yen, Chen-WenLiaw, Lih-JiunChen, Cheng Chun | 2019/12/18~2035/08/27 |
| Inventions Patent | Piezoelectric Stimulation Element, Piezoelectric Stimulator and Insole Having Piezoelectric Stimulation Element | R.O.C. | I569742 | [Yang, Chich-Haung](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1059414E472C2043484943482D4841554E47@@658329)Chen, Shin YuanLin, Kwan Hwa[**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Chen, Cheng-Chun | 2017/02/11~2035/10/07 |
| Inventions Patent | Multi-Axis Measurement Device for Loading Force and Centre of Gravity | R.O.C. | I530275 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Yen, Chen-WenLiaw, Lih-JiunChen, Cheng Chun | 2016/04/21~2035/08/27 |
| Inventions Patent | Multi-Axis Measurement Device for Loading Force and Centre of Gravity | PCT | PCT/CN2015/088390 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Yen, Chen-WenLiaw, Lih-JiunChen, Cheng Chun | 2015/08/28~2018/02/28 |
| Inventions Patent | Isometric Dynamometer Device for Truck Muscles | R.O.C. | I468151 | Liaw, Lih-JiunTsai, Yung-ShenHsu, Ar-Tyan[**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Liao, Chien-FenChen, Cheng-Chun | 2015/01/11~2032/04/16 |
| Inventions Patent | A Sensing Clamp for Ultrasonic Probe | R.O.C. | I389673 | [Yang, Chich-Haung](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1059414E472C2043484943482D4841554E47@@658329)[Su, Fong-Chin](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1053552C20464F4E472D4348494E@@312444)[**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Li, Wen-Li[Chang, Jyh-Jong](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e104348414E472C204A59482D4A4F4E472B@@251089)Liang, Zhong-Shao[Chen, Cheng-Chun](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e104348454E2C204348454E472D4348554E@@863731) | 2013/03/21~2029/11/26 |
| Inventions Patent | Dual-axle load-bearing typed proprioception evaluation apparatus for ankle joint | R.O.C. | I287977 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@845731)[Su, Fong-Chin](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1053552C20464F4E472D4348494E@@312444)[Yang, Chich-Haung](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1059414E472C2043484943482D4841554E47@@658329)Wu, Wen Lan[Chang, Jyh-Jong](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e104348414E472C204A59482D4A4F4E472B@@251089)Lin, Hwai TingChen, Cheng Chun | 2007/10/11~ 2026/06/13 |
| Inventions Patent | Controllable sensing and balancing device for lower limbs | R.O.C. | I283571 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@845731)[Su, Fong-Chin](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1053552C20464F4E472D4348494E@@312444)[Yang, Chich-Haung](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1059414E472C2043484943482D4841554E47@@658329)Wu, Wen Lan[Chang, Jyh-Jong](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e104348414E472C204A59482D4A4F4E472B@@251089)Lin, Hwai TingChen, Cheng Chun | 2007/07/11~ 2025/10/11 |
| NewPatent | The Pressure Feedback system of Human Muscles Stability | R.O.C. | M453139 | Liaw, Lih-JiunHou Yi-Yu[**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)Tsai, Te-Shin | 2013/05/11~2022/12/27 |
| NewPatent | Wheel chair hard backrest capable of being disassembled quickly | R.O.C. | M335278 | [Yang, Yu-Sheng](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1059414E472C2059552D5348454E47@@366570)[Chang, Jyh-Jong](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e104348414E472C204A59482D4A4F4E47@@360495)[**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@244609)[Chen, Cheng-Chun](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e104348454E2C204348454E472D4348554E@@863731) | 2008/07/01~2018/01/06 |
| NewPatent | Apparatus for pulling with capability of adjusting resistance | R.O.C. | M322268 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@845731)[Su, Fong-Chin](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1053552C20464F4E472D4348494E@@312444)[Yang, Chich-Haung](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1059414E472C2043484943482D4841554E47@@658329)[Chen, Shen-Kai](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e104348454E2C205348454E2D4B4149@@278359)[Chang, Jyh-Jong](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e104348414E472C204A59482D4A4F4E472B@@251089)Wu, Wen LanLin, Hwai TingChen, Cheng Chun | 2007/11/21~ 2017/05/03 |
| NewPatent | Arm-swinging flaxibility test apparatus | R.O.C. | M312337 | [Shih, Pang-Ying](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e10534849482C2050414E472D59494E47@@553027)[**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@342684) | 2007/05/21~ 2016/12/06 |
| NewPatent | Balance training equipment | R.O.C. | M311444 | [**Guo, Lan-Yuen**](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1047554F2C204C414E2D5955454E@@422219)[Shih, Pang-Ying](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e10534849482C2050414E472D59494E47@@380349)[Su, Fong-Chin](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1053552C20464F4E472D4348494E@@820594)[Yang, Chich-Haung](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1059414E472C2043484943482D4841554E47@@544405)[Wu, Wen-Lan](http://twpat1.tipo.gov.tw/twcgi/twpat2_e?@80%5e102569599%5e34%5e1%5e%5e1057552C2057454E2D4C414E2B@@366660)Chang, Jyh JongLin, Hwai TingChen, Cheng Chun | 2007/05/11~ 2016/11/29 |

Technology Transfer

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| --- | --- | --- | --- | --- | --- |
| Name of the Technology | Name of the Patent | Authorized Organization | Be Authorized Organization | The Date of Contract Signing | Number of the Project  |
| Smart Diagnostic and Rehabilitation Device for Vestibular Function  | Smart Diagnostic and Rehabilitation Device for Vestibular Function | Kaohsiung Medical University | Jie Shih Mei Co., Ltd | 2016/11~2019/11 | BZ-17-08-29-104 |
| Development of Novel Measurement Platform with Considerations of Axle Balance and Weight Distribution | Development of Novel Measurement Platform with Considerations of Axle Balance and Weight Distribution | Kaohsiung Medical University | Jie Shih Mei Co., Ltd | 2015/05~2020/05 | CZ-05-04-10-103 |
| Improvement Design of Workplace Tools---Easy Recline Chair and Wrist Supporter for Keyboard and Mouse Users | Improvement Design of Workplace Tools---Easy Recline Chair and Wrist Supporter for Keyboard and Mouse Users | Kaohsiung Medical University | Ho Min Co., Ltd | 2009/08~2012/08 | NSC98-2622-B-037 -003 -CC3 |
| Development of the Software for Symmetry Feedback Using in Suspension Training System | Development of the Software for Symmetry Feedback Using in Suspension Training System | Kaohsiung Medical University | Ho Min Co., Ltd | 2010/08~2013/08 | NSC99-2622-B-037 -001 -CC3 |
| Design of a New Proprioception Balance Training Equipment | Design of a New Proprioception Balance Training Equipment | Kaohsiung Medical University | Bai Fong Equipment Co., Ltd | 2011/09～2014/08 | NSC94-2622-B-037-001NSC96-2622-B-037-002 |

**PUBLICATION LISTS**

1. JOURNAL
2. Pao S.L, Wu S.Y, Liang J.M, Huang I.J\*, **Guo L.Y**\*, Wu W.L, Liu Y.G, Nian S.H, Jun 2022 “A Physiological-Signal-Based Thermal Sensation Model for Indoor Environment Thermal Comfort Evaluation” International Journal of Environmental Research and Public Health, 18: 2376**(SSCI**,PUBLIC,ENVIRONMENTAL& OCCUPATIONAL HEALTH, **IF: 4.614**, 45/182= **24.73%**)
3. Lo P.Y, Su B.L, You Y.L, Yen C.W, Wang S.T, **Guo L.Y\***, May 2022“Measuring the Reliability of Postural Sway Measurements for a Static Standing Task The Effect of Age” Frontiers in Physiology, 13:850707 (**SCI**, PHYSIOLOGY, **IF:4.566**, 14/81=**17.28%**, *NSTC110-2221-E-037-001 and NSTC110-2622-E-037-001*)
4. Chen G.Y, †, **Guo L.Y**, Tsai Y.C, Chuang I.C, Kuo H.C, Liu S.F \*,†, Mar 2022“Effect of music intervention on lung expansion exercises after cardiothoracic surgery” Journal of Clinical Medicine, 11(6), 1589 (**SCI**,MEDICINE, GENERAL & INTERNAL, **IF:4.241**, 39/169=**23.08%**)
5. Chu I .H\*, Chen Y.L, Wu P.T, Wu W.L, **Guo L.Y**,Jul 2021“The Associations between Self-Determined Motivation,Multidimensional Self-Efficacy, and Device-Measured Physical Activity” International Journal of Environmental Research and Public Health,18:8002 **(SSCI**,PUBLIC,ENVIRONMENTAL& OCCUPATIONAL HEALTH, **IF: 2.849**, 32/171= **18.71%**, *NSTC109-2410-H-037-015***)**
6. Sung J.L, Hong C.Y, Liu C.H, Lee P, **Guo L.Y**, Lin N.H,Yen C.W\*, Liaw L.J\*,Jun 2021 “Characterizing the Validity of the Inverted Pendulum Model for Quiet Standing” Journal of Healthcare Engineering,2021:1-6(**SCI,** HEALTH CARE SCIENCES & SERVICES,**IF: 1.803**, 67/102= **65.69%**, *NSTC-106-2221-E-110-044* and *NSTC-108-2221-E-027-066*)
7. Sung J.L, **Guo L.Y**, Liu C.H, Lee P, Yen C.W\*, Liaw L.J\*,May 2021, “Characterizing Human Postural Stability by Using Features Extracted from the Correlation Structure of Ground Reaction Force Components” IEEE Access,2017(**SCI**, ENGINEERING, ELECTRICAL & ELECTRONIC,**IF: 3.745**, 61/266= **22.93%,***NSTC 107-2221-E-110-073*)
8. Hu C.H,†, Yang C.C,†, Tu S.F, Huang I.J,Danaa Ganbat,**Guo L.Y**\*, Mar 2021, “Characteristics of the Electrophysiological Properties of Neuromuscular Motor Units and Its Adaptive Strategy Response in Lower Extremity Muscles for Seniors with Pre-Sarcopenia: A Preliminary Study” International Journal of Environmental Research and Public Health, 18:3063(Correspondence Author,**SSCI**,PUBLIC,ENVIRONMENTAL& OCCUPATIONAL HEALTH, **IF: 2.849**, 32/171= **18.71%,** *NSTC 107-2410-H-037 -008*& *NSTC 109-2221-E-037-003*)
9. Chang K.W, Lin C.M, Yen C.W, Yang C.C, Toshiaki Tanaka, **Guo L.Y**\*, Mar 2021,“The Effect of Walking Backward on a Treadmill on Balance,Speed of Walking and Cardiopulmonary Fitness for Patients with Chronic Stroke: A Pilot Study” International Journal of Environmental Research and Public Health, 18: 2376 (Correspondence Author, **SSCI**, PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH, **IF: 2.849**, 32/171= **18.71%** *,NSTC 109-2221-E-037-003*)
10. Lin N.H, Liu C.H, Lee P, **Guo L.Y**, Sung J.L, Yen C.W\*, Liaw L.J\*,Dec 2020, “Backward Walking Induces Signiﬁcantly Larger Upper-Mu-Rhythm Suppression Eﬀects than Forward Walking Does”, SENSORS ,20(24)：7250 ( **SCI**, INSTRUMENTS & INSTRUMENTATION, 3.275, 15/64=23.44)
11. Lai Y.H, Wang A.Y, Yang C.C, **Guo L.Y**\*, Dec 2020, “The Recovery Benefit on Skin Blood Flow Using Vibrating Foam Rollers for Postexercise Muscle Fatigue in Runners”, International Journal of Environmental Research and Public Health,17,9118 ( **SSCI**, 2.849, PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH, 32/171= 18.71%)
12. Sung J.L**, Guo L.Y,** Liu C.H, Posen Lee, Yen C.W \*, Liaw L.J\*,Nov 2020, “Assessing Postural Stability Using Coupling Strengths between Center of Pressure and Its Ground Reaction Force Components”, APPLIED SCIENCES,10,8077(**SCI**, ENGINEER MULTIDICIPLIVE, IF: 2.474, 32/91=35.16%, NSTC 107-2221-E-110-073)
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70. **CONFERENCE**

**(Overseas)**

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2. **Guo L.Y,** “Developing and Verification of the Innovative Blood Flow Restriction Training Device”, International Society of Biomechanics, Fukuoka, Japan. (Poster, NYCUKMU-111-I006 & MOST111-2410-H-037-025-MY2 and NSTC 111-2622-E-037-002)
3. C-C Wu, Y-L You, C-C Yang, **Guo L.Y\*,** “The clinical effectiveness of the complex upper extremity low-intensity resistance training combined with blood flow restriction in the treatment of tennis elbow”, European College of Sport Science, Paris, France. (Poster)
4. Hu C.H., Bui L., Tu S.J., **Guo L.Y ,2019,** “Neuromuscular Motor Unit Adaptive Strategy In The Vastus Medialis Muscle Of Young And Old Adult”, The 24 th European College of Sport Science, Prague, Czech, July 3-6.(Poster) (NSTC 107-2410-H-037 -008)
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**(Domestic)**

1. **Guo L.Y**, Hu C.H, Yang C.C, Tu S.F,2022, “Characteristics of the Electrophysiological Properties of Neuromuscular Motor Units and its Adaptive Strategy Response in Lower Extremity Muscles for Seniors with Pre-Sarcopenia: A Preliminary Study”, 9th World Congress of Biomechanics (WCB), Jul 10-14, Taipei, Taiwan.
2. Pao S.L, Huang I.J, Nian S.H, Liu Y.G, **Guo L.Y**, 2022, “A Thermal Sensation Model Adopting Physiological Signals for Indoor Occupants’ Thermal Comfort Evaluation”, 9th World Congress of Biomechanics (WCB), Jul 10-14, Taipei, Taiwan.
3. **Guo L.Y**, Hung C.Y, 2022, “The effects of gluteal close chain exercise with flossband on lower extremity biomechanics”, 9th World Congress of Biomechanics (WCB), Jul 10-14, Taipei, Taiwan.
4. Huang I.J, Pao S.L, **Guo L.Y**, Hsu C.H, Liu Y.G, 2021 “Thermal Comfort Modelling Based on Bio-signals and Thermal Sensation”, 2021 International Conference on Hierarchical Green Energy Materials (2021HIGEM), Jan. 14-15, Tainan, Taiwan.
5. Hu C.H, Huang Y.X, Tu S.F, Liang J.M, Wu W.L, **Guo L.Y**,2019 “Measurement reliability of muscle-fascia junction position in VIVO transversus abdominis using ultrasound”, The 9th WACBE World Congress on Bioengineering, Aug 16-19, Taipei, Taiwan. (Oral)
6. Tu S.F, Dylan Morrissey, **Guo L.Y**, 2019,“The validity of ultrasound based soft tissue dynamics tracking using normalised cross-correlation method” The 9th WACBE World Congress on Bioengineering, Aug 16-19, Taipei , Taiwan.(Oral)
7. Yu Y.J \*, **Guo L.Y**, Chen S.S , 2019, “Easily Carried Device for Patients with Obstructive Sleep Apnea Syndrome(OSAS): Nasal Positive End-expiratory Pressure Device(n-PEEP)”, The 9th WACBE World Congress on Bioengineering, Aug 16-19, Taipei , Taiwan.(Oral)
8. Muhammad Usama Qamar, Tu S.F, **Guo L.Y** ,2019, “Can Early Unprotected Weight-bearing and Mobilization Change Functional Outcomes Following Bi-malleolar Fracture Fixation?” The 10th Asian-Pacific Conference on Biomechanics, Jul 31, Taipei, Taiwan. (Poster)
9. Muhammad Usama Qamar, Tu S.F, **Guo L.Y** ,2019, “Locomotive Syndrome can be predicted from Spinal Disorders and Trunk Muscle Strength in Elderly: A Systematic Review” The 10th Asian-Pacific Conference on Biomechanics, Jul 31, Taipei, Taiwan. (Poster)
10. Yang C.C, **Guo L.Y**,2018, “Combining Multi-factorial Assessment Tools and Dimensionality Reduction Analysis for Fall-Risk Classification in Community-Dwelling Elderly”, 3rd Global Conference on Biomedical Engineering, 30 November-December 2, Taoyuan, Taiwan. (Oral)
11. Hu C.H, Young B.C, Chen C.A, **Guo L.Y**,2018, “Effects of Manual Therapy and Muscle Strength Exercise on Mechanical Neck Pain Disorder: Randomized Controlled Trial”, 21th International Conference on Mechanics in Medicine and Biology, November 22-24. (Oral)
12. Lin C.T \*, Lai Y.H, Li J.Y, **Guo L.Y**,2018, “A Pilot Study To Investigate The Effect Of Different Mattress Design By Measuring Blood Perfusion, Skin Temperature And Interface Pressure”, 21th International Conference on Mechanics in Medicine and Biology, November 22-24. (Oral)
13. Chung, W.C., **Guo L.Y**., Yang B.C., Wu, S.H., Chang, N.J.\*, 2015, “A Comparison of Ankle Proprioception between Ballet Dancers and Normal Subjects”, 2015 Annual Symposium on Biomedical Engineering and Technology, Taipei, Taiwan, Nov 13-14. (Poster)
14. Wu L.Y., Lai Y.H., Su W.Y., Young B.C., Yen C.W., **Guo L.Y.\***, 2015, “A Decomposition Algorithm of the Vertical Ground Reaction Forces for the Single Force Plate”, 2015 Annual Symposium on Biomedical Engineering and Technology, Taipei, Taiwan, Nov. 13-14. (Oral)
15. Lin Y.J, **Guo L.Y\***, 2015, “The Association of Physical Activity and Physical Function with Clinical Outcomes in Adults with Chronic Kidney Disease”, 3rd International Conference on Health Literacy and Healthcare Efficiency, Tainan, Taiwan, Nov 9-11. (Poster, NSTC103-2410-H-037-013-MY2)
16. Lin Y.J, **Guo L.Y**, Feng Y.C, Lai Y.H, Yen C.W, 2015, “Comparison pulse wave velocity and pulse transit time of artery between diabetic and no diabetic subjects”, The International Conference on Health Literacy and Healthcare Efficiency, Tainan, Taiwan, Nov. 9-11. (Oral)
17. Wang S.M., Wu C.Z., Lin Y.J., **Guo L.Y.\***, 2015, “Muscle Activation of Using a Suspension Training System During the Rectus Femoris Training”, The Annual Scientific Symposium if Taiwan Society of Biomechanics, Kaohsiung, Taiwan, Oct. 16. (Oral)
18. Wu C.C., Lin Y.J., **Guo L.Y.\***, 2015, “Comparison of Validation between ActiGraph and Oserio Pedometer”, the Annual Scientific Symposium if Taiwan Society of Biomechanics, Kaohsiung, Taiwan, Oct. 16. (Poster)
19. Chao T.T., Wang S.M., Lin Y.J., **Guo L.Y.\***, 2015, “The EMG Signal of Different Thumb Movements on Smartphone Touch Screen”, the Annual Scientific Symposium if Taiwan Society of Biomechanics, Kaohsiung, Taiwan, Oct. 16. (Oral)
20. Hu C.H., Young B.C., Chang Y., **Guo L.Y.\***, 2015, “Comparing the Effect of Stretching and Massage Therapy on Chronic Neck Pain Disorder In Terms of Oxygen Concentration Change”, the Annual Scientific Symposium if Taiwan Society of Biomechanics, Kaohsiung, Taiwan, Oct. 16. (Poster)
21. Chen C.J., Young B.C., Chang Y., **Guo L.Y.\***, 2015, “Investigate Sternocleidomastoid Oxyhemoglobin for Mechanical Neck Disorder and Smartphone Addicts with NIRS”, the Annual Scientific Symposium of Taiwan Society of Biomechanics, Kaohsiung, Taiwan, Oct. 16. (Poster)
22. Wang H.C., **Guo L.Y.\***, 2015, “Comparison of the Effects of Thermal Stimulation and Transcutaneous Electrical Nerve Stimulation on Upper Extremity Sensory and Motor Function in Acute Stroke Patients”, Taiwan Physical Therapy Association, Taipei, Taiwan, Sep. 6.
23. Yang C.C, Yang B.C, Chen T.H, Su F.C, **Guo L.Y\***, 2015, “Investigation of Motor Unit Short-term Synchronization in Sternocleidomastoid Muscles in Asymptomatic Individuals and Clients with Mechanical Neck Disorder”, 2015 Biomedical Research Symposium of National Health Research Institutes, Hsinchu, Taiwan, Aug 10-11. (Poster, ***NHRI-EX104-10204EI***)
24. Lee Y.C, Guo L.Y\*, 2013, “Application of Postural Correction Biofeedback Training for Clients with Mechanical Neck Pain”, 2013 Sport Technology Application Contest, Taichung, Taiwan, Dec 05, 2013. (**Paper Award**, ***NHRI-EX102-10204EI***)
25. Lin Y.J, Feng Y.C, Lai Y.H, **Guo L.Y\***, 2013, “Development of Peripheral Tissue Micro-Circulation Measurement System and Validation with Clinical Assessment Parameters”, 2013 Annual Symposium on Biomedical Engineering and Technology, Hsinchu, Taiwan, Nov 15-16, 2013. (Poster , **Paper Award**)
26. Sue M.W, Lai Y.H, **Guo L.Y\***, 2013, “An Investigation of a Novel Recyclable Mattress: Pressure Relief Capabilities and Effects on the Peripheral Circulation’s Physiological Signals”, 2013 Annual Symposium on Biomedical Engineering and Technology, Hsinchu, Taiwan, Nov 15-16, 2013. (Poster)
27. Wang S.T, Lung Y.R, **Guo L.Y\***,2013, “Validity Investigation of Custom-Made Postural Assessment System”, 2013 Annual Symposium of Taiwan Rehabilitation Engineering and Assistive Technology Society(TREATS), Tainan, Taiwan, Feb 23, 2013. (Oral)
28. Wu C.Y, Wang S.T, **Guo L.Y\***, 2012, “Effect the Spinal Stability Improvement and Exercise Performance by Respiratory‐Muscle Training: A Pilot Study”, 2012 Sport Technology Application Contest, Taichung, Taiwan, Dec 06, 2012. **(Paper Award)**
29. Lo P.Y, Su B.L, Hong C.H, Lin N.H, Wang S.T, Yen C.W, **Guo L.Y\***, 2012, “Using the Novel Designed Force Plate in Investigating its Reliability for Measuring the Balance Ability among the Young Adults”, 2012 Sport Technology Application Contest, Taichung, Taiwan, Dec 06, 2012. (**Paper Award**, ***NSYSUKMU 101-017***)
30. Lee Y.C, **Guo L.Y\***, 2012, “The Effects of Wobble Board Training on Ankle Proprioception in Healthy Subjects”, 2012 Sport Technology Application Contest, Taichung, Taiwan, Dec 06, 2012. (**Oral Paper Competition Winner**, ***NSC100-2321-B- 037-005***)
31. Chien C.K, Lee H.Y, Huang S.C, **Guo L.Y**, Yang, C.H\*, 2012, “Can Foot Plantar Vibration Improve Postural Control With One-Leg Standing?”, 2012 Annual Symposium on Biomedical Engineering and Technology, Taoyuan, Taiwan, Nov 17-18, 2012. (Poster)
32. Lo P.Y, Su B.L, Hong C.H, Lin N.H, Wang S.T, Yen C.W, **Guo L.Y\***, 2012, “Using the Novel Designed Force Plate in Investigating its Reliability for Measuring the Balance Ability among the Young Adults”, 2012 Annual Symposium on Biomedical Engineering and Technology, Taoyuan, Taiwan, Nov 17-18, 2012. (Poster, ***NSYSUKMU 101-017***)
33. Chiu C.N, Lee Y.C, **Guo L.Y\***, 2012, “The Effects of Kinesio Taping on Muscular Endurance of Deep Neck Flexors for Subjects with Forward Head Posture”, 2012 Annual Symposium on Biomedical Engineering and Technology, Taoyuan, Taiwan, Nov 17-18, 2012. (Poster)
34. Wang S.T, Lung Y.R, **Guo L.Y\***, 2012, “Validity Investigation of Custom-made Postural Assessment System”, 2012 Annual Symposium on Biomedical Engineering and Technology, Taoyuan, Taiwan, Nov 17-18, 2012. (Poster, ***NSC101-2321-B-037-002***)
35. Jasmine Fan, Lee Y.C, **Guo L.Y\***, 2012, “The Effects of Wobble Board Training on Ankle Proprioception in Healthy Subjects: A Pilot Study”, 2012 Annual Symposium on Biomedical Engineering and Technology, Taoyuan, Taiwan, Nov 17-18, 2012. (Oral, ***NSC100-2321-B-037-005***)
36. Lin Y.J, Chen S.W, Huang C.C, **Guo L.Y\***, 2012, “Investigation of the Relationship Between Inter‐Limbs Coordination Abilities for Young Adult Drop Shot Viration Analysis”, 2012 International Symposium on Sports Biomechanics and TSBS Annual Meeting, Changhua, Taiwan, Oct 27, 2012. (Poster, ***NSC97-2622-B-037-003-CC3***)
37. Ji M.Y, Guo J.U, Huang J.J, **Guo L.Y**, Yang, C.H\*, 2012, “Effects of Vastus Lateralis Inhibition Taping on Lower Limb Proximal Muscle Activation During Dynamic Activities: A Preliminary Study”, 2012 International Symposium on Sports Biomechanics and TSBS Annual Meeting, Changhua, Taiwan, Oct 27, 2012. (Oral)
38. Chiu C.N, Lee Y.C, **Guo L.Y\***, 2012, “The Effects of Kinesio Taping on Muscular Endurance of Deep Neck Flexors for Subjects with Forward Head Posture”, 2012 International Symposium on Sports Biomechanics and TSBS Annual Meeting, Changhua, Taiwan, Oct 27, 2012. (Oral)
39. Wu C.Y, Wang S.T, **Guo L.Y\***, 2012, “Effect the Spinal Stability Improvement and Exercise Performance by Respiratory‐Muscle Training: A Pilot Study”, 2012 International Symposium on Sports Biomechanics and TSBS Annual Meeting, Changhua, Taiwan, Oct 27, 2012. (Oral)
40. Lin Y.Y, **Guo L.Y\***, 2012, “Reliability of Electromagnetic Tracking System (ETS) Analysis of Cervical Coupled Motion”, 2012 International Symposium on Sports Biomechanics and TSBS Annual Meeting, Changhua, Taiwan, Oct 27, 2012. (Oral)
41. Wang S.T, Yu Y.L, **Guo L.Y\***, 2011, “The Effects of Suspension Exercise Training on Low Back Pain using Bilateral Symmetry Biofeedback Software”, 2011 International Sports Biomechanics Conference and Annual Meeting of Taiwan Society of Biomechanics in Sports, Taoyuan, Taiwan, Oct 29, 2011. (Poster, ***NSC99-2622-B-037- 001-CC3***)
42. Chen S.W, Philip Chen, **Guo L.Y\***, 2011, “A Study of Peripheral Autonomic Features of Younger Populations with Family History of Hypertension”, 2011 International Sports Biomechanics Conference and Annual Meeting of Taiwan Society of Biomechanics in Sports, Taoyuan, Taiwan, Oct 29, 2011. (Poster)
43. Lo P.Y, Evelyn Yang, Yu Y.L, **Guo L.Y\***, 2011, “Monitoring a Whole Night Sleep Oximetry Level and Heart Rate Activity to Test the Effect of Exercise on Quality of Sleep”, 2011 International Sports Biomechanics Conference and Annual Meeting of Taiwan Society of Biomechanics in Sports, Taoyuan, Taiwan, Oct 29, 2011. (Poster , **Paper Competition Winner**, ***NSC100-2815-C-037-017-B***)
44. Hsu Y.C, Yeh Y.H, Wang S.T, **Guo L.Y\***, 2011, “Reliability of Evaluation of Lateral Posture and Spinal Curve of the Custom-designed Body Posture Assessment Evaluating System”, 2011 International Sports Biomechanics Conference and Annual Meeting of Taiwan Society of Biomechanics in Sports, Taoyuan, Taiwan, Oct 29, 2011. (Oral, ***NSC99-2410-H-037-009-MY2***)
45. Wu C.Y, Yu Y.L, **Guo L.Y\***, 2011, “Reliability of Suspension Training Force Sensory System”, 2011 International Sports Biomechanics Conference and Annual Meeting of Taiwan Society of Biomechanics in Sports, Taoyuan, Taiwan, Oct 29, 2011. (Oral, ***NSC99-2622-B-037-001-CC3***)
46. Lee Y.C, **Guo L.Y\***, 2011, “The Effects of Kinesio Taping on Neck Flexor Muscles Endurance: A Pilot Study”, 2011 International Sports Biomechanics Conference and Annual Meeting of Taiwan Society of Biomechanics in Sports, Taoyuan, Taiwan, Oct 29, 2011. (Oral, ***NHRI-EX100-9713EC***)
47. Wu T.Y, Dai Y.S, Chen H.M, Huang P.C, **Guo L.Y**, Yang C.H, 2011, “Delayed Activation of Vasti and Glutues Medius Muscles During Dynamic Activitiesin Individuals with Patellofemoral Pain Syndrome”, 2011 International Biomechanics Conference & Annual Meeting of Taiwanese Society of Biomechanics, Tainan, Taiwan, Oct 20-21, 2011. (Oral)
48. Tu K.H, **Guo L.Y\***, 2011, “Table Tennis Play's Posture Change After Long Term Train”, 2011 International Biomechanics Conference & Annual Meeting of Taiwanese Society of Biomechanics, Tainan, Taiwan, Oct 20-21, 2011. (Oral, ***NSC99-2815-C-037-026-H***)
49. **Guo L.Y\***, Chen S.K, Chao G.H, Su F.C, Chou S.L, Yang C.H, 2011, “Effect of the Different Distance between the Trunk and Backpack on Children’s Gait Patterns”, 2011 Annual Symposium on Biomedical Engineering and Technology, Tainan, Taiwan, Aug 19-20, 2011. (Poster)
50. Lin C.F, Yang C.H, **Guo L.Y\***, 2011, “Effects of Different Kinesio Taping Methods for Subjects with Mechanical Neck Disorder”, 2011 Annual Symposium on Biomedical Engineering and Technology, Tainan, Taiwan, Aug 19-20, 2011. (Oral, ***NHRI-EX100-9713EC***)
51. **Guo L.Y\***, Chen S.K, Chao G.H, Su F.C, Chou S.L, Yang C.H, 2011, “Knee Proprioception Ability and Coordination in Ballet Dancers”, 2011 Annual Symposium on Biomedical Engineering and Technology, Tainan, Taiwan, Aug 19-20, 2011. (Poster)
52. Chen C.Y, Chang C.J, **Guo L.Y\***, Chiu Y.C, 2010, “Multi-functional Coordination Assessment Application”, 2010 Annual Conference Biomedical Engineering, 10-11 Dec, 2010. (Poster, ***NSC97-2622-B-037-003-CC3***)
53. Wu C.L, Chen C.Y, Hsieh Y.L, Lo R, **Guo L.Y\***, 2010, “A Study of Skin Temperature and Microcirculation by Using Different Commercial Mouse Pads”, 2010 Annual Conference Biomedical Engineering, 10-11 Dec, 2010. (Poster, ***NSC98-2622-B- 037-003-CC3***)
54. Chang C.H, Huang C.C, Hou Y.Y, Chao K.H, Li Y.C, **Guo L.Y\***, 2010, “The Effect of Different Hotpack on Skin Surface Temperature and Blood Flow of The Knee”, 2010 Annual Conference Biomedical Engineering, 10-11 Dec, 2010. (Poster)
55. Wu T.Y, Dai Y.S, Chen H.M, Huang P.C, **Guo L.Y**, Yang C.H, 2010, “Patellofemoral Joint Mobilization Altered Activation of Vasti Muscles During Dynamic Activities”, 2010 Taiwanese Society of Biomechanics and Taiwan Society of Biomechanics in Sports, 29-30 Oct, 2010. (Oral)
56. Shiu J.Y, Deng T.W, Chen J, Chang K.C, Lin H.T, **Guo L.Y**, Yang C.H, 2010, “Effects of Vastus Lateralis Inhibition Taping on Lower Limb Biomechanics During Single Drop Landing”, 2010 Taiwanese Society of Biomechanics and Taiwan Society of Biomechanics in Sports, 29-30 Oct, 2010. (Oral)
57. Chen Y.Y, Liaw L.J, Liang J.M, Hung W.T, **Guo L.Y**, Wu, W.L, 2010, “Influence of Sensory Systems and Working Memory Task on Postural Control in Children with Attention Deficit Hyperactivity Disorder”, 2010 Taiwanese Society of Biomechanics and Taiwan Society of Biomechanics in Sports, 29-30 Oct, 2010. (Oral)
58. Chen S.W, Yang C.H, Wu W.L, **Guo L.Y\***, 2010, “A Study on Peripheral Autonomic Analysis Features for Younger with Familial History of Hypertension”, 2010 Taiwanese Society of Biomechanics and Taiwan Society of Biomechanics in Sports, 29-30 Oct, 2010. (Oral)
59. Tu K.H, Wang S.T, Kelechi Anudokem, Hsu Y.C, Lu Y.C, Liaw L.J, Hou Y.Y, **Guo L.Y\***, 2010, “Reliability of Ultrasound Measurements for the Muscle Pattern Children’s’ Transverse Abdominal and Lumbar Multifidus”, 2010 Taiwanese Society of Biomechanics and Taiwan Society of Biomechanics in Sports, 29-30 Oct, 2010. (Oral, ***NSC98-2410-H-037-013***)
60. Wang S.T, Tu K.H, Kelechi Anudokem, Hsu Y.C, Lu Y.C, **Guo L.Y\***, 2010, “Effect of Backpack Load Position on Gait Patterns”, 2010 Taiwanese Society of Biomechanics and Taiwan Society of Biomechanics in Sports, 29-30 Oct, 2010. (**Oral Paper Award**, ***NSC98-2410-H-037-013***)
61. Chang C.H, Huang C.C, Hou Y.Y, Chao K.H, Li Y.C, **Guo L.Y\***, 2010, “The Effect of Different Hotpack on Skin Surface Temperature of the Knee”, 2010 Taiwanese Society of Biomechanics and Taiwan Society of Biomechanics in Sports, 29-30 Oct, 2010. (Poster)
62. Ting Y.T, **Guo L.Y**, Su F.C, 2010, “Effects of Ball Size and Ground Contact Area in Core Stability Ball”, 2010 Taiwanese Society of Biomechanics and Taiwan Society of Biomechanics in Sports, 29-30 Oct, 2010. (**Poster Paper Competition Winner**)
63. Lin C.F, Chang Y, Liu T.J, **Guo L.Y\***, 2010, “Cranial-Cervical Muscular Strength Measurement in subject with Mechanical Neck Disorder”, 2010 Taiwanese Society of Biomechanics and Taiwan Society of Biomechanics in Sports, 29-30 Oct, 2010. (Oral, ***NHRI-EX99-9713EC***)
64. Huang J.S, Yang C.H, Lee W.L, Chang J.J, **Guo L.Y**, 2009, “Effect of Diagnostic Ultrasound Probe Pressure and Head and Neck Position on Measurement of Human Median Nerve”, The Biomedical Engineering Society 2009 Annual Symposium, Taipei, Taiwan, 11-12 Dec, 2009. (Oral)
65. Lin C.F, Lin W.Y, Cheng P.F, Yang C.H, **Guo L.Y\***, 2009, “Bilateral Symmetric Assessment of Pushing Force While Using Suspended Trainer - A Pilot Study”, The Biomedical Engineering Society 2009 Annual Symposium, Taipei, Taiwan, Dec 11-12.( Oral)
66. Ting Y.T, Wang Y.L, Su F.C, **Guo L.Y\***, 2009, “The Muscle Activation and Body Balance Patterns for Different Spinal Stabilization Movements and Leg Supports”, The Biomedical Engineering Society 2009 Annual Symposium, Taipei, Taiwan, Dec 11-12.( Poster)
67. **Guo L.Y\***, Chao G.H, Chou S.L, Chen S.K, Yang C.H, 2009, “Ankle Proprioception Characteristics of Ballet Dancers During Functional Standing Position”, The Biomedical Engineering Society 2009 Annual Symposium, Taipei, Taiwan, Dec 11-12.( Poster, ***NSC98-2815-C-037-016-B***)
68. Lee S.Y, Yang C.H, Hou Y.Y, Chen S.K, **Guo L.Y\***, 2009, “Neck Movements characteristics for Subjects with Mechanical Neck Disorder”, The Biomedical Engineering Society 2009 Annual Symposium, Taipei, Taiwan, Dec 11-12.( Poster, ***NHRI-EX98-9713EC***)
69. Yang C.C, Lee S.Y, Yang C.H, **Guo L.Y\***, 2009, “Application of Electromagnetic Tracking Device on Neck Mobility Measurement—Focus on Coupled Motion”, The Biomedical Engineering Society 2009 Annual Symposium, Taipei, Taiwan, Dec 11-12.( Poster, ***NHRI-EX98-9713EC***)
70. Lin F.R, Chen P.R, Lou T, Lai Y.H, Hsieh Y.Z, Chen Y.F, Hu Y.T, Huang C.H, **Guo L.Y**, Yang C.H, 2009, “Changes in Kinematics of Temporomandibular Joints at Different Head and Neck Postures in Young Healthy Individuals”, 2009 International Symposium on Biomechanics combined with the Annual Scientific Meeting of Taiwanese Society of Biomechanics, Taipei, Taiwan Dec 10-11, 2009 (Oral).
71. Chao G.H, Chou S.L, Chen S.K, Yang C.H, **Guo L.Y\***, 2009, “Knee Proprioception Ability and Coordination in Ballet Dancers”, 2009 International Symposium on Biomechanics Combined with the Annual Scientific Meeting of Taiwanese Society of Biomechanics, Taipei, Taiwan, Dec 10-11.( Oral, ***NSC98-2815-C-037-016-B***)
72. Ho Y.F, Hou Y.Y, Yang C.H, **Guo L.Y\***, 2009, “Multi-functional Coordination Assessment and Training Equipment For Upper and Lower Extremities”, 2009 International Symposium on Biomechanics Combined with the Annual Scientific Meeting of Taiwanese Society of Biomechanics, Taipei, Taiwan, Dec 10-11.( Poster, ***NSC97-2622-B-037-003-CC3***)
73. Yu Y.L, Lin C.F, Wang S.T, Yang C.H, **Guo L.Y\***, 2009, “Biomechanics Analysis of Lower Extremity When Wearing High-heeled Shoes”, 2009 International Symposium on Biomechanics Combined with the Annual Scientific Meeting of Taiwanese Society of Biomechanics, Taipei, Taiwan, Dec 10-11.( Poster, ***NSC97-2629-E-037-001***)
74. Chen R.P, Hsu K.J, Wu Y.J, Lin Y.Y, Huang J.Y, Yang C.H, **Guo L.Y\***, 2009, “Distribution Difference of Foot Plantar Pressure during Level Walking in Young Obese and Non-obese Individuals”, 58th Scientific Conference of Association of Physical Therapy R.O.C, Taipei, Taiwan, 7 March, 2009.( Poster)
75. Lin W.Y, Liu Y.H, Tsai Y.J, Huang C.C, Chen C.C, Yang C.H, **Guo L.Y\***, 2009, ”Different Kinematic Patterns of Upper Extremity during Pitching Movement between Amateur and Professional Baseball Players”, 58th Scientific Conference of Association of Physical Therapy R.O.C, Taipei, Taiwan, March 7.( Poster)
76. Yang J.B, Tsai Y.J, Leong I.T, Wu W.L, Lin H.T, **Guo L.Y\*,** 2009, ”Motor Control Effects of Traditional Exercise for the Elderly Subjects and Its Possible Underlying Mechanisms”, 58th Scientific Conference of Association of Physical Therapy R.O.C, Taipei, Taiwan, March 7.( Poster)
77. Tsai Y.J, Liu Y.Y, Lee S.Y, Fu Y.C, Chang W.N, **Guo L.Y.**, 2008, “Effect of Postural Control from Continuous Tai-Chi Chuan Training in the Elderly Subjects”, Congress of Taiwanese Society of Biomechanics, R.O.C, Nov 1. (Oral)
78. Lee S.Y, Cheng C.L, Yang C.H, Wu W.L, Lin H.T, **Guo L.Y.**, 2008, “Effect on the Shoulder-Neck Muscles Activities at Different Computer Mouse Operation Positions”, Congress of Taiwanese Society of Biomechanics, R.O.C, Nov 1. (Oral)
79. Lee S.Y, Lo W, Yang C.H, Wu W.L, Lin H.T, **Guo L.Y.**, 2008, “Initial Effects on Plantar Pressure Pattern Wearing High-heel Shoe during Slow Running”, Congress of Taiwanese Society of Biomechanics, R.O.C, Nov 1. (Poster)
80. Lee S.Y, Li K.H, Chou H.C, Yang C.H, **Guo L.Y.**, 2008, “Effects of Different Head Positions on Heart Rate Variability and Blood Flow in Young Healthy Subjects”, Congress of Taiwanese Society of Biomechanics, R.O.C, Nov 1. (Oral)
81. Cheng C.L, Lee S.Y, Yang C.H, **Guo L.Y.**, 2008, “The Effect on the Shoulder-Neck Muscles Activity on Different Mouse Operation Positions”, 56th Scientific Conference of Association of Physical Therapy R.O.C, Taipei, Taiwan, March 30. (Poster)
82. Lo W, Lee S.Y, Yang C.H, **Guo L.Y.**, 2008, “The Initial Influence on the Plantar Pressure Pattern during Slow Running”, 56th Scientific Conference of Association of Physical Therapy R.O.C, Taipei, Taiwan, March 30. (Poster)
83. Yang C.C, Yang C.H, Lee S.Y, Yang C.H, **Guo L.Y.**, 2008, “Neck Mobility Difference between Different Genders”, 56th Scientific Conference of Association of Physical Therapy R.O.C, Taipei, Taiwan, March 30. (Poster)
84. Huang J.J, **Guo L.Y**, Yang C.H\*, Liang C.C, Yu T.C, 2008, “Do Self-reported Foot and Ankle Outcome Score, Sensorimotor and Functional Impairments Change in People with Acute Lateral Ankle Sprains? A Six-month Follow-up Investigation”, 56th Scientific Conference of Association of Physical Therapy R.O.C (Taiwan), Taipei, Taiwan, 30 March.(Poster, ***NSC 94-2314-B-277-003***)
85. Tseng K.L., Lin H.T., Wang L.H., Wu W.L., **Guo L.Y.**, 2007, “The Dynamic Balance in Different Skill Level Players in Tennis Forehand Stroke”, Congress of Taiwanese Society of Biomechanics, R.O.C, Tainan, Taiwan, Dec 21. (Oral)
86. Lai S.Q, Lee W.L, Shi J.Y, **Guo L.Y**, Yang C.H\*, 2007, “Is Reduction of Blood Flow around Patella with Different Seat Postures?”, Congress of Taiwanese Society of Biomechanics, R.O.C, Tainan, Taiwan, Dec 21. (Poster, ***NSC 96-2524-S- 037-001-EC3*** )
87. Leong I.T, Tsai Y.J, Yang C.H, **Guo L.Y\***, 2007, “Spectrum Distribution of Skin Blood Flow after Chinese Traditional Exercise”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 21. (**Poster paper Award**, ***DOH96-TD-M-113-004-(2/2)***)
88. Leong I.T, Tsai Y.J, Yang C.H, **Guo L.Y\***, 2007, “Wai Tan Kung and Yuan Chi Dance Can Strengthen the Lower Extremity Muscles”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 21. (**Poster Paper Competition Winner**, ***DOH96-TD-M-113- 004-(2/2)***)
89. Liu Y.Y, Lee S.Y, Ho I.J, Fu Y.C, Chang W.N, **Guo L.Y\***, 2007, “Postural Control Effect of Tai-Chi Chuan Practice Years for the Elders While Obstacle Crossing and Pants Wearing”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 21. (Poster)
90. Lee S.Y, Liu H.L, Yang C.H, **Guo L.Y\***, 2007, “Dynamic Plantar Pressure Patterns During Level Walking with Wearing Different Base Sizes of High-heel Shoes”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 21. (Poster)
91. Tsai Y.J, Leong I.T, Chen C.C, Cheng C.M, **Guo L.Y\***, 2007, “The Initial Effects of Chinese Traditional Exercise on Heart Rate Variability”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 21. (**Poster Paper Award**, ***DOH96-TD-M-113-004-(2/2)***)
92. Yang L.C, Lee S.Y, Yang C.H, **Guo L.Y\***, 2007, “Alterations in Plantar Pressure Patterns after Ankle Taping during Landing”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 21. (Poster)
93. Ting Y.T, Lin H.T, Wu W.L, **Guo L.Y**, 2007, “Effect of Different Ankle Taping and Cadence in Muscle Activation During Gait”, 2007 Annual Symposium on Biomedical Engineering and Technology, Dec 14-15. (Poster)
94. Yang C.C, Yang C.H, Yang C.H, **Guo L.Y\***, 2007, “Measurement of Cervical Mobility and its Combined Motion Using Electromagnetic Tracking Device”, 2007 Annual Symposium on Biomedical Engineering and Technology, Dec 14-15. (Poster)
95. Yang L.C, Lee S.Y, Yang C.H, **Guo L.Y\***, 2007, “Alterations in Plantar Pressure Patterns after Ankle Taping during Landing”, 2007 Annual Symposium on Biomedical Engineering and Technology, Dec 14-15. (Poster)
96. Lee S.Y, Liu H.L, Yang C.H, **Guo L.Y\***, 2007, “Dynamic Plantar Pressure Patterns During Level Walking with Wearing Different Base Sizes of High-heel Shoes”, 2007 Annual Symposium on Biomedical Engineering and Technology, Dec 14-15. (Poster)
97. Gong W.Y, Jenp W.Z, You Q.Y, Chen Y.Y, **Guo L.Y**, Yang C.H\*, 2007, “Effects of Fibular Repositioning Taping on Spatial-temporal Characteristics during Level Walking in Individuals with Functional Ankle Instability”, 55th Scientific Conference of Association of Physical Therapy R.O.C, Kaohsiung, Taiwan, October 20.
98. Lai S.Q, Lee W.L, Shi J.Y, **Guo L.Y**, Yang C.H, 2007, “Initial Effect on Changes in Blood Flow around Patella with Different Seat Postures in Young Healthy Subjects”, 55th Scientific Conference of Association of Physical Therapy R.O.C, Kaohsiung, Taiwan, October 20.
99. Yang L.C, Lee S.Y, Yang C.H, **Guo L.Y\***, 2007, “Plantar Pressure Pattern after Ankle Taping during Hopping”, The 55th Academic Conference of The Physical Therapy Association of R.O.C, Oct 20. (Poster)
100. Li K.H, Chou H.C, Shih P.Y, **Guo L.Y\***, 2007, “Reliability of Automatic Coordination Measurement System for Upper Extremity”, the 55th Academic Conference of The Physical Therapy Association of R.O.C, Oct 20. (Poster)
101. Lee S.Y, Liu H.L, Yang C.H, **Guo L.Y\***, 2007, “Dynamic Plantar Pressure Patterns During Level Walking with Wearing Different Base Sizes of High-heel Shoes”, The 55th Academic Conference of The Physical Therapy Association of R.O.C, Oct 20. (Poster)
102. Tsai Y.J, Leong I.T, Chen C.C, Cheng C.M, **Guo L.Y\***, 2007, “The Effects of Chinese Traditional Exercise on Heart Rate Variability”, The 55th Academic Conference of The Physical Therapy Association of R.O.C, Oct 20. (Oral, ***DOH96-TD-M-113-004-(2/2)***)
103. Tsai Y.J,Leong I.T,Wu W.L, Lin H.T, Yang C.H , **Guo L.Y\***, 2007, “The Effect of Brain Activity Modulation after Chinese Traditional Exercise”, The 55th Academic Conference of The Physical Therapy Association of R.O.C, Oct 20. (Oral, ***DOH96-TD-M-113-004-(2/2)***)
104. Leong I.T, Tsai Y.J, Yang C.H, **Guo L.Y\***, 2007, “Spectrum Distribution of Skin Blood Flow after Chinese Traditional Exercise”, the 55th Academic Conference of The Physical Therapy Association of R.O.C, Oct 20. (Oral, ***DOH96-TD-M-113-004-(2/2)***)
105. Gong W.Y, Deng H.L, Hsu H.M, Tsao H, **\*Guo L.Y**, Yang C.H, 2007, “Visual Effect On Saptio-Temporal Characteristics of Level Walking In Young Healthy Subjects”, XXIth International Society Of Biomechanics, Taipei, Taiwan, July1-5.
106. Gong W.Y, Deng H.R, Hsu H.M, Tsao H, **Guo L.Y**,Yang C.H, “Visual Effect On Saptio-Temporal Characteristics of Level Walking In Young Healthy Subjects”, 54th Scientific Conference of Association of Physical Therapy R.O.C (Taiwan), Taipei, Taiwan, April 22, 2007.
107. Deng H.L,Gong W.Y, Tsao H, **Guo L.Y**, Yang C.H, “Is High Repeatability of Scapular Rotation across Shoulder Elevation at Scapular Plane with and Without External Load?”, The 54th Academic Conference of The Physical Therapy Association of R.O.C (Taiwan), Taipei, Taiwan, April 22.
108. Li K.H, Yang C.H, Chou H.C, Cheng C.M, Chen C.C, **Guo L.Y\***, 2007, “Effect of Different Head Position on Heart Rate Variability and Skin Blood Flow”, The 54th Academic Conference of The Physical Therapy Association of R.O.C, April 22. (***NSC96-2815-C-037-014-B***)
109. Yang C.C,Yang C.H, Yang C.H, **Guo L.Y\***, 2007, “Application of Electromagnetic Tracking Device on Neck Mobility Measurement”, the 54th Academic Conference of The Physical Therapy Association of R.O.C, April 22. (***NSC96-2815-C-037-013-B***)
110. Leong I.T, Tsai Y.J, Yang C.H, **Guo L.Y\***, 2007, “Changes of Spectrum Distribution of the Laser Doppler Perfusion Signal in Human Skin after Chinese Traditional Exercise”, The 22nd Academic Combined Conference of The Biomedical Science, Mar 17-18. (Oral, ***DOH96-TD-M-113-004-(2/2)***)
111. Tsai Y.J, Leong I.T, Chen C.C, Cheng C.M, **Guo L.Y\***, 2007, “The Initial Effects of Chinese Traditional Exercise on Heart Rate Variability”, The 22nd Academic Combined Conference of The Biomedical Science, Mar 17-18. (Oral, ***DOH96-TD-M-113-004-(2/2)***)
112. Tsai Y.J,Leong I.T,Wu W.L, Lin H.T, Yang C.H , **Guo L.Y\***, 2007, “The Effect of Chinese Traditional Exercise on Brain Activity Modulation Using Electroencephalography (EEG)”, The 22nd Academic Combined Conference of The Biomedical Science, Mar 17-18. (***DOH96-TD-M-113-004-(2/2)***)
113. Huang C.J, Chang J.J, Wu J.H, **Guo L.Y**, Lin H.T, and Wu W.L, 2006, “Kinematic Wrist and Thumb Posture Analysis of School Children during the Manipulation of the Mouse”, Annual Meeting of Society of Biomedical Engineering, R.O.C, Dec 14-16.
114. Ho I.J, Lee S.Y, Yang C.H, and **Guo L.**Y, 2006, “Investigation on Plantar Pressure Pattern While Jogging in Different Speed and Incline Conditions”, Annual Meeting of Society of Biomedical Engineering, R.O.C, Dec 14-16.
115. Lin W.Y, Lee S.Y, Yang C.H, and **Guo L.Y**, 2006, “The Initial Influence on the Plantar Pressure Pattern during Different Step Width Walking”, Annual Meeting of Society of Biomedical Engineering, R.O.C, Dec 14-16.
116. Lee S.Y, Chen C.H, and **Guo L.Y**, 2006, “The Effect of Plantarflexor Dynamic Stretch on Pressure Distribution in People with Stroke”, Annual Meeting of Society of Biomedical Engineering, R.O.C, Dec 14-16.
117. Yang C.H, **Guo L.Y**, Tsao H, Deng H.R, Gong W.Y, 2006, “ Lower Limb Muscle Activation in Patients with Functional Ankle Instability during Drop Landings”, Congress of Taiwanese Society of Biomechanics, Tainan, Taiwan, Dec 9. (Oral)
118. Leong I.T, Tsai Y.J, Yang C.H, and **Guo L.Y**, 2006, “Spectral Analysis of the Laser Doppler Perfusion Signal in Human Skin after 20-Minute Light Aerobic Exercise”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 9. (Oral, **DOH95-TD-M-113-019- (1/2)**)
119. Ho I.J, Lee S.Y, Yang C.H, and **Guo L.Y**, 2006, “Effects on Plantar Pressure for Different Incline and Speed Jogging”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 9. (Oral**,** ***NSC94-2320-B-037-017***)
120. Tsai Y.J, Leong I.T, Chen C.C, Cheng C.M, and **Guo L.Y**, 2006, “The Immediate Effects on the Heart Rate Variability after 20-minute Aerobic Exercise”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 9. (**Oral Paper Competition Winner**)
121. Lin W.Y, Lee S.Y, Yang C.H, and **Guo L.Y**, 2006, “The Initial Effects of Controlled Step Width on the Plantar Pressure Pattern During Level Walking”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 9. (**Oral Paper Award**)
122. Huang Y.H, Harn Hans I.C, Yang C.H, and **Guo L.Y**, 2006, “The EMG Activation Comparison and Selectivity of Unilateral Spinal Extensor”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 9.
123. Yung C.H, Cia J.E, Tian J.W, Xiao X.X, Lou L.Q, Hong C.Q, and **Guo L.Y**, 2006, “Dose Backward Walking Change Lower Limb Strength and Balance in young Normal Health Subjects?”, The 53th Acadmic Conference of The Physical Therapy Association of R.O.C (Taiwan), Taipei, Taiwan, Sep 24.
124. Yang C.H,**Guo L.Y**, Tsao H, Hodges P.W., Gong W.Y., Deng, H.R, 2006, “Visual Effects on Muscle Activation of Lower Limb in Young Healthy Subjects During Drop Landings”, 52nd Scientific Conference of Association of Physical Therapy R.O.C (Taiwan), Taipei, Taiwan, Mar 26.
125. Huang J.J, Yang C.H, **Guo L.Y,** Yu T.C, Liang C.C, 2006, “Comparisons of Hip Strength Deficits in Patients with Unilateral and Bilateral Patellofemoral Pain”, 52nd Scientific Conference of Association of Physical Therapy R.O.C (Taiwan), Taipei, Taiwan, Mar 26.
126. **Guo L.Y**,Su F.C, Yang C.H, Wang S.H, Chang J.J, Wu W.L, Lin H.T, 2006, “Effects Of Speed And Incline On Lower Extremity Kinematics During Treadmill Jogging”, 52nd Scientific Conference of Association of Physical Therapy R.O.C (Taiwan), Taipei, Taiwan, Mar 26. **(*NSC92-2320-B-277-003*)**
127. Huang J.J, Yang C.H, **Guo L.Y**, 2005, “A Comparison of Hip Strength In Patients With Unilateral Patellofemoral Pain – A Preliminary Report”, 51st Scientific Conference of Association of Physical Therapy R.O.C (Taiwan), Taipei, Taiwan, Sep 25.
128. Yang C.H, **Guo L.Y**, 2005, “Initial Effects of Dorsiflexion Mobilization with Movements of Ankle Joints on Range of Motion and Temporal-spatial Parameters of Level Walking in Young Healthy Subjects”, 51st Scientific Conference of Association of Physical Therapy R.O.C (Taiwan), Taipei, Taiwan, Sep 25.
129. Lin C.F, Yang C.H, **Guo L.Y** , Wang C.Y, 2005, “Ankle Kinematics and Balance Performance after Ankle Taping” 51st Scientific Conference of Physical Therapy Association Of R.O.C (Taiwan), Taipei, Taiwan, Sep 25 (***NSC93-2815-C-277-001–B***)
130. **Guo L.Y**, Wang S.H, Wu W.L, Yang C.H, Su F.C, 2004, “Biomechanical Investigation of Jogging”, 2004 Annual Conf. of Chinese Bio Med Eng, Tainan, Taiwan, Dec 17-18. (Poster)(***NSC92-2320-B-277-003***)
131. **Guo L.Y**, Su F.C, An K.N, 2000, “Optimum Analysis in Different Wheelchair Handrim Diameter”, 2000 Annual Conf of Chinese Bio Med Eng. Taipei, Taiwan, Dec 15-16. **(Poster Paper Competition Winner)**
132. **Guo L.Y**, Su F.C, Wu H.W, 2000, “Mechanical Energy and Power Balance of the Upper Extremity in Manual Wheelchair Propulsion ", 2000 Annual Conf. of Taiwanese Society of Biomechanics, Kaohsiung, Taiwan, Nov. 25. **(Best Orthopaedic Biomechanics Paper Award)**
133. **Guo L.Y**, Su F.C, Chou Y.L, Lin C.J, Cherng R.J, 1996, "Gait Analysis for Children with Cerebral Palsy", 1996 Annual Conf. of Formosan Society of Biomechanics, Taipei, Taiwan, Dec. 21.
134. **Guo L.Y**, Su F.C, Chou Y.L , Lin C.J, Lai K.A, 1996, "Gait Analysis of Cerebral Palsy Children ", 1996 Annual Conf. of Orthopedic Association, ROC, Taipei, Taiwan, Oct. 18-19.

(C) BOOK

1. **Guo L.Y**, 2007, "Joint", practical anatomy and physiology, Jong-Shyan Wang General Review, Taichung: Wagner.
2. **Guo L.Y**, " Load Optimization in Wheelchair Propulsion”, 2003, PhD dissertation, Institute of Biomedical Engineering, National Cheng-Kung University, Taiwan
3. **Guo L.Y**, "Gait Analysis for Children with Cerebral Palsy", 1996, Master dissertation, Institute of Biomedical Engineering, National Cheng-Kung University, Taiwan

**TEACHING EXPERIENCES**

COURSES CURRENTLY TAUGHT

Kaohsiung Medical University

Graduate school

MSTM3 Special Topics in Sports Medicine

MEBI0 Evidence Based Medicine in Sports

MSTA4 Special Topics in Athletic Training

MEBT2 Exercise Physiology Instrumental Analysis and Application

MEHP0 Special Topics in health promotion of elder people

MSGA1 Special Topics in Gait Analysis

MABA4 Special Topics in Biostatistics

MMCP3 Medical Computer Programming

MEOS0 Special Topics in Advanced Environmental and Occupational Health and Safety

MSZA4 Seminar (IV)

University courses

ASMP3 Sport Medicine Practice (I)

ASSM0 Seminar on Sports Medicine

ARSS0 Research Methods in Sports Science

ASWS1 Papers Writing in Sports Science

ATMP1 Therapeutic Modalities

ATMP2 Therapeutic Modalities Practice

ASED0 Sports and Fitness Equipment Design

ASIP0 Sport-Specific Injuries Prevention and Care

PMES0 Prevention and Management of Sports Injury

ASBD1 Sports Biomechanics

AHMG1 Health Management

AFHP0 Workplace Fitness and Health Promotion

AEPF0 Testing & Evaluation of Physical Fitness

APER1 Physical examination and Sports Injury Rehabilitation

AHSG0 Health and Sports for Geriatric

ASPM1 Introduction of sports Injury prevention and Management

AKIN1 Kinesiology

AISC0 Introduction to Sports Science

COURSES PREVIOUSLY TAUGHT

Kaohsiung Medical University from 2007 (Listed)

AEPP1 Exercise Prescription

AEPP 2 Exercise Prescription Practice

AFAL0 First-Aid and Laboratory

AFHP0 Workplace Fitness and Health Promotion

AGPS0 General Psychology

AHCP0 Exercise and Health Science Management Practice

APER1 Physical examination and Sports Injury Rehabilitation

ARSS0 Research Methods in Sports Science

ASPM1 Introduction of sports Injury prevention and Management

ASWS1 Papers Writing in Sports Science

ATMP1 Therapeutic Modalities

ATMP2 Therapeutic Modalities Practice

PMES0 Prevention and Management of Sports Injury

**Guide Students**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Year | Name | School | Department | Degree | Title |
| 2008 | Su-Ya Lee | Kaohsiung Medical University | Department of sports Medicine | Master | Neck Movements and Autonomic Function Alternation for Subjects with Mechanical Neck Disorder |
| 2011 | Chien-Fen Lin | Kaohsiung Medical University | Department of sports Medicine | Master | Application of Dual Axis Cervical Torque Measurement for Clients with Mechanical Neck Disorders |
| 2011 | Yu-Lin You | Kaohsiung Medical University | Department of sports Medicine | Master | The effects of sling exercise training for clients with low back pain |
| 2012 | Shih-Ting Wang | Kaohsiung Medical University | Department of sports Medicine | Master | Effect of Core Stability Training on Abilities Related to Jumping and Changing-Of-Direction in Female Basketball Players |
| 2012 | Yen-Cheng Lee | Kaohsiung Medical University | Department of sports Medicine | Master | The Application of Postural Correction Biofeedback Training for Clients with Mechanical Neck Pain |
| 2013 | Hsin-Yi Kao | Kaohsiung Medical University | Department of sports Medicine | Master | Effects of Rock Climbing Training for Sedentary Workers Population: an Investigation into the Effectiveness of Core Muscles Strengthening |
| 2013 | Ying-Jen Lai | Kaohsiung Medical University | Department of sports Medicine | Master | Analysis of the different running speeds on foot strike patterns and the effect of shoes |
| 2013 | Ken-Wei Chang | Kaohsiung Medical University | Department of sports Medicine | Master | The Effect of Backward Walking Treadmill Training on Balance Ability, Gait Performance and Cardiopulmonary Fitness for Patient with Chronic Strok |
| 2013 | Ying-I Huang | Kaohsiung Medical University | Department of sports Medicine | Master | Investigating the Affect Factor of Male Firefighters'' Ability to Use SCBA in the Fire Rescue Mission |
| 2013 | Shih-Wei Chen | Kaohsiung Medical University | Department of sports Medicine | Master | Characteristics of Plantar Pressure Distribution While Walking with Different Army-Issue Shoes and the Effect of Custom Made Insoles for the Soldiers |
| 2014 | Chun-Hung Chen | Kaohsiung Medical University | Department of sports Medicine | Master | Effect of Slings Exercise on Agility and Jumping Performance in Badminton Players |
| 2014 | Wei-Yuan Su | Kaohsiung Medical University | Department of sports Medicine | Master | Validation Study for Novel Designed Tri-axis Force Plate and Development of Algorithm for Decomposing Ground Reaction Force on a Single Force Plate |
| 2014 | Chin-jui Wen | Kaohsiung Medical University | Department of sports Medicine | Master | Effects of Extracorporeal Shock Wave Therapy on Shoulder and Neck Pain |
| 2014 | Hong-Chi Wang | Kaohsiung Medical University | Department of sports Medicine | Master | Comparison of the Effects of Thermal Stimulation and Transcutaneous Electrical Nerve Stimulation on Upper Extremity Sensory and Motor Function in Acute Stroke Patients |
| 2014 | Chia-Chi Yang | National Cheng Kung University | Department of Biomedical Engineering | Ph.D. | Characteristics of Biomechanical Kinematics and Neuromuscular Adaptation for Patients with Mechanical Neck Disorder |
| 2015 | Po-Ching Yang | Kaohsiung Medical University | Department of sports Medicine | Master | Investigate Tissue Oxygenation of Sternocleidomastoid for Patient with Mechanical Neck Disorder |
| 2015 | Yi-Jing Lin | Kaohsiung Medical University | Department of sports Medicine | Master | The Investigation of Clinical Outcome, Exercise Motivations and Exercise Intervention Effect with Chronic Kidney Disease Patients in Taiwan |
| 2016 | Jun-Yi Li | Kaohsiung Medical University | Department of sports Medicine | Master | The Immediate Effects of Using Different Supportable Elastic Knee Braces on Knee Biomechanics of Athletes |
| 2016 | Yu-Ting Chen | Kaohsiung Medical University | Department of sports Medicine | Master | To investigate the initial contact pattern of male runners with barefoot shoes at different speed on several slopes |
| 2016 | Po-Chih Chang | Kaohsiung Medical University | Department of sports Medicine | Master | Cardiopulmonary Fitness, Anthropometric Changes, and Weight Loss Effect of “Semi-Supervised Exercise Program” after Sleeve Gastrectomy among Southern Taiwanese Morbidly-Obese Patients: One-Year Result |
| 2016 | Chien-Yu Chen | Kaohsiung Medical University | Department of sports Medicine | Master | The Relationship Between Exercise Behavior and Coronary Risk Factors among Taiwan Seafarers |
| 2017 | Hsuao- yun Kuo | Kaohsiung Medical University | Department of sports Medicine | Master | Differential Effect of 30 V.S 60-second Dynamic Muscle Stretching combined Warm-up on Explosiveness of Lower Limbs and Agility Performance in Adults. |
| 2017 | Shih-Chi Tseng | Kaohsiung Medical University | Department of sports Medicine | Master | The Effect of Core Stability Exercises Using Redcord on Trunk Function, Balance Ability, Walking Performance and Daily Living Activities in Hemiparesis Patients |
| 2017 | Han-Chou Wu | Kaohsiung Medical University | Department of sports Medicine | Master | The immediate effects on the muscle tone of male upper trapezius by using kinesiology tape to adjust rounded shoulder. |
| 2017 | Chia-Chia Yeh | Kaohsiung Medical University | Department of sports Medicine | Master | Relationships among osteopenia, osteoporosis and locomotive syndrome in menoposal women. |
| 2017 | Siyu Chen | Kaohsiung Medical University | Department of sports Medicine | Master | The benefits of using the foam roller massage on thesit reach toe test: compare the difference betweenanatomical trains and traditional forms |
| 2017 | Tzu-Tang Huang | Kaohsiung Medical University | Department of Long-term Care in Aging | Master | The Effects of Circuit Exercise Training on Physical Fitness and Bone Mineral Density in Community Elderly |
| 2018 | Lu-Lun Chuang | Kaohsiung Medical University | Department of sports Medicine | Master | Albuminuria As Predictor of Physical Impairment Of Lower Extremities For Predialysis Chronic Kidney Disease |
| 2018 | Ai-Yi Wang | Kaohsiung Medical University | Department of sports Medicine | Master | The recovery benefit of using vibrating foam rollers for the post-exercise muscle fatigue in runners |
| 2018 | Hsiu Ying Tai | Kaohsiung Medical University | Department of Long-term Care in Aging | Master | Training repetitions and resistance characteristics of hydraulic resistance circuit exercise for the community silver-haired people |
| 2019 | Guan-Yi Chen | Kaohsiung Medical University | Department of sports Medicine | Master | The effect of music intervention on lung expansion after cardiothoracic surgery. |
| 2019 | Chia-Yi Hung | Kaohsiung Medical University | Department of sports Medicine | Master | The effects of gluteal close chain exercise with flossband on lower extremity biomechanics |
| 2020 | Muhammad Usama Qamar | Kaohsiung Medical University | Department of sports Medicine | Master | A systematic review and meta-analysis of risk-benefit balance between physical activity or exercise and exposure to air pollution |
| 2020 | Wan-Yin Lu | Kaohsiung Medical University | Department of sports Medicine | Master | Compare of dynamic muscle contraction with Foam rolling and Vibration Foam Rolling on Performance of Women Basketball Player |
| 2020 | Zi-Zhan Zhou | Kaohsiung Medical University | Department of sports Medicine | Master | Comparing the effectiveness of spinal manipulation and spinal manipulation combined with pelvic manipulation in patient with chronic low back pain |
| 2020 | Wei-Han Chen | Kaohsiung Medical University | Department of sports Medicine | Master | The effect of kinesiotaping on patients with carpal tunnel syndrome |
| 2021 | Yu-Chun Sui | Kaohsiung Medical University | Department of Long-term Care in Aging | Master | The Satisfaction of Elders and Caregivers for Elders on Using Shower Chairs |
| 2021 | Jen-Cheng Liu | Kaohsiung Medical University | Department of Long-term Care in Aging | Master | Discussion of 8-week Circuit Resistance Training on Neuromuscular Adaptation in the Elderly |
| 2021 | Bing-Cheng Jhuang | Kaohsiung Medical University | Department of sports Medicine | Master | Investigating characteristics of electromyography signal during leg press at different velocities and resistances in elders and young adults |
| 2021 | Hsiu-Yun Hou | Kaohsiung Medical University | Department of sports Medicine | Master | Discussion on the Benefit of Adjustable Low Frequency Alternating Magnetic Field for Meditation |
| 2021 | Ying-Ying Chen  | Kaohsiung Medical University | Department of sports Medicine | Master | A Comparison of electromyographic activity during the lateral step-up, lunge and single leg squat exercises with various bars |
| 2021 |  Hung-Yi Chung | Kaohsiung Medical University | Department of sports Medicine | Master | A Retrospective Study of the Effectiveness and Characteristics for the Elders Using Hydraulic Resistance Exercise Equipments with Visual Biofeedback Function |
| 2021 | Mei-Chen Chen | Kaohsiung Medical University | Department of sports Medicine | Master | The effectiveness of 12- weeks resistance and toe grasping exercise to pre-frail and frail elderly |
| 2022 |  [Hui-Y](https://ndltd.ncl.edu.tw/cgi-bin/gs32/gsweb.cgi/ccd%3DwXXHlU/search?q=aue=%22YEN%2C%20HUI-YI%22.&searchmode=basic)i Yen | Kaohsiung Medical University | Department of sports Medicine | Master | A study on the correlation between physical activity, stress and sleep quality of criminal police officers-taking Kaohsiung as an example |
| 2022 |  [Chung-Chien](https://ndltd.ncl.edu.tw/cgi-bin/gs32/gsweb.cgi/ccd%3DwXXHlU/search?q=aue=%22WU%2C%20CHUNG-CHIENG%22.&searchmode=basic)g Wu | Kaohsiung Medical University | Department of sports Medicine | Master | The clinical effectiveness of the complex upper extremity low-intensity resistance training combined with blood flow restriction in the treatment of tennis elbow |
| 2023 | [Chen-F](https://ndltd.ncl.edu.tw/cgi-bin/gs32/gsweb.cgi/ccd%3DwXXHlU/search?q=aue=%22HUNG%2C%20CHEN-FU%22.&searchmode=basic)u Hung | Kaohsiung Medical University | Department of Long-term Care in Aging | Master | Exploring the correlation between mandibular movement and Diadochokinetic Rate through non-contact imaging analysis of dysphagia in the elderly |
| 2023 | [Jie-S](https://ndltd.ncl.edu.tw/cgi-bin/gs32/gsweb.cgi/ccd%3DwXXHlU/search?q=aue=%22YANG%2C%20JIE-SI%22.&searchmode=basic)i Yang | Kaohsiung Medical University | Department of sports Medicine | Master | Effect of acute lower limb resistance exercise on neurophysiological signal and cognitive performance in older adults |
| 2023 | [Tai-Cheng](https://ndltd.ncl.edu.tw/cgi-bin/gs32/gsweb.cgi/ccd%3DwXXHlU/search?q=aue=%22SU%2C%20TAI-CHENG%22.&searchmode=basic) Su | Kaohsiung Medical University | Department of sports Medicine | Master | Effects of synchronous music during early evening low volume high intensity interval training on heart rate variability and sleep quality |
| 2023 | [Nai-Chia](https://ndltd.ncl.edu.tw/cgi-bin/gs32/gsweb.cgi/ccd%3DwXXHlU/search?q=aue=%22KUO%2C%20NAI-CHIA%22.&searchmode=basic) Kuo | Kaohsiung Medical University | Department of sports Medicine | Master | Comparison of the Effects of Lateral and Backward Walking Training on Balance Ability and Gait Performance in Patients with Post-acute Stroke Hemiplegia |
| 2023 | [Chih-Ping](https://ndltd.ncl.edu.tw/cgi-bin/gs32/gsweb.cgi/ccd%3DwXXHlU/search?q=aue=%22LIN%2C%20CHIH-PING%22.&searchmode=basic) Lin | Kaohsiung Medical University | Department of sports Medicine | Master | Glucagon-like peptide-1 receptor agonists attenuate risk of knee osteoarthritis in type 2 diabetes and rate of joint replacement in knee osteoarthritis with type 2 diabetes: A nationwide, retrospective, matched-cohort study in Taiwan |