**Schedule of Presentations: Poster Session**

**Biomechanics**

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| **Nov. 1 (Friday) 12:30~14:00 1F Lobby of the Dept. Chemical** | | | |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG1-1 | G1-011 | **Yung-Chang Lu**  ​MacKay Memorial Hospital | Mechanical Performance of Auxetic Tubular Structures in Stent Applications |
| PG1-2 | G1-014 | **Cheng-Yang Lu**  Fu Jen Catholic University | Generation of pseudo-computed tomography of the knee using dual network architecture with feature blending |
| PG1-3 | G1-016 | **Szu-Ting Liu**  Fu Jen Catholic University | 2D-3D Reconstruction of Femoral Shape Using Pseudo-DRR Translated from Biplane X-ray Fluoroscopic Images |
| PG1-4 | G1-017 | **Guan-Jou Tzeng**  National Taiwan University of Sport | Effect of Neuromuscular Electrical Stimulation on the Isokinetic Strength of Shoulder External Rotation in Athletes and Non-Athletes |
| PG1-5 | G1-021 | **Hao-Yuan Hsiao**  National Sun Yat-sen University | Biomechanical Effect of Coupler Stiffness of Hybrid Performance Stabilization (HPS) System on the Intrinsic Degenerated Adjacent Segments in Lumbar Spine |
| PG1-6 | G1-028 | **Wen-Tzu Chen**  National Taiwan University | Analysis of the Motion Mechanics of Freestyle Swimmers |
| PG1-7 | G1-029 | **Yu-Wen Chen**  National Taiwan University | Corneal Vibration Characteristics in the Auxiliary Diagnosis of Glaucoma |
| PG1-8 | G1-032 | **Yen Cheng**  National Yang Ming Chiao Tung University | Development of Cervical spine Implant Designs and Mechanical Testing for Integrated Fusion Devices |
| PG1-9 | G1-056 | **Yun Zen Wu**  National Cheng Kung University | Using a tapering vessel-on-a-chip model to study how different physiological flow types impact endothelium angiogenesis |
| PG1-10 | G1-058 | **Kuan-Lun Huang**  National Taiwan University | From Biological Inspiration to Mechanical Innovation: Designing Microstructures with Deep Learning |
| PG1-11 | G1-075 | **Ju Yang Tiong**  National Taiwan University | Effects of Shoes Heel Heights on Lower Limb Inter-Joint Coordination During Walking in Young Females |
| PG1-12 | G1-076 | **Hsuan-Lun Lu**  Da-Yeh University | Effects of Belt Speed on Whole Body Dynamic Stability During Treadmill Walking |

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| **Nov. 2 (Saturday) 9:40~11:10 1F Lobby of the Dept. Chemical** | | | |
| **Poster No.** | **Paper NO.** | **Presenter** | **Title** |
| PG1-1 | G1-004 | **Pin-Yu Chen**  China Medical University | Determining The Most Effective Clear Aligner Attachment Positions For Lower Canine Tipping And Bodily Movement |
| PG1-2 | G1-010 | **Wei-Cheng Huang**  China Medical University | Effect of headless compression screw fixation for Weber Type B lateral malleolar fracture: a biomechanical in vitro study |
| PG1-3 | G1-012 | **Muhammad Nouman**  Mahidol University, Thailand. | Impact of Customized Insoles on Gait Parameters in Individuals with Flatfoot Using IMU Sensor: A Pilot Study |
| PG1-4 | G1-013 | **Kuan-Lin Lai**  National Cheng Kung University, Tainan | Average response of piezomagnetic hybrid composites |
| PG1-5 | G1-024 | **Pu-Chun Mo**  National Cheng Kung University | Deep Regression Model for HbA1c in Diabetes through Sensorimotor Function Assessment |
| PG1-6 | G1-027 | **You-Cheng Yu**  China Medical University | A Computational Approach to Customizing Earplugs for Occupational Noise-Induced Hearing Loss Prevention: A Pilot Study |
| PG1-7 | G1-038 | **Chi-An Chen**  Tamkang University | The Design of Customized Implants to Enhance Ankle Joint Stabilization and Bone Healing Effectiveness |
| PG1-8 | G1-042 | **Tung Yu Chueh**  National Yang Ming Chiao Tung University | The Effects of Calcium Compound Mixed Bone Cements on Thermo-mechanical Properties for Percutaneous Kyphoplasty Application |
| PG1-9 | G1-054 | **Li-Fong Lin**  Taipei Medical University | Dual-task balance paradigm on postural stability and sensory integration in patients with mild traumatic brain injury |
| PG1-10 | G1-059 | **Hao-Ling Chen**  National Taiwan University | Handwriting Performance as Predictors of Cognitive Decline in Older Adults |
| PG1-11 | G1-061 | **Kuo-Chih Su**  Taichung Veterans General Hospital | Evaluation of Design Angles and Biomechanical Analysis of Cages Used in Oblique Lateral Interbody Fusion |
| PG1-12 | G1-063 | **Shou-I Chen**  National Formosa University | Biomechanical Analysis of Occlusal Forces on the Porous Structure Types and Porous Sizes of Dental Implants |

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| **Nov. 2 (Saturday) 14:10~15:40 1F Lobby of the Dept. Chemical** | | | |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG1-1 | G1-008 | **Zi-Han Chen**  Chang Gung University | Effects of backward walking on the mechanical properties of the gastrocnemius-Achilles tendon complex in sarcopenia |
| PG1-2 | G1-039 | **Hsin-Yi Kathy Cheng**  Chang Gung University | 身心障礙智能球動作評量輔具系統研發與驗證 |
| PG1-3 | G1-041 | **Yen-Wei Chiu**  National Sun Yet-Sen University | Biomechanical Stability Assessment of Osteoporotic Proximal Humerus Fractures Using a Locking Plate Combined with 3D-Printed Titanium Intramedullary Nails |
| PG1-4 | G1-045 | **Hao Zhang**  China Medical University | Biomechanical analysis of mandibular implants with different material properties through lattice designs of various shapes, sizes, and rod diameters. |
| PG1-5 | G1-046 | **Chieh-Hsiang Hsu**  Southern Taiwan University of Science and Technology | Preliminary Exploration of Markerless Pose Recognition Systems for Pen Grip Posture Identification |
| PG1-6 | G1-047 | **Yi-Ching Tsai**  Da-Yeh University | Postural Responses in Elderly Individuals During Unexpected Perturbations: A Study of Fallers Who Fail Forward versus Backward |
| PG1-7 | G1-053 | **I-Chieh Chiu**  National Taiwan University of Science and Technology | Investigating the Impact of Micropore Size and Geometry Between Cobalt-Chromium Dental Implant Threads on Implant Mechanical Performance Using Finite Element Analysis |
| PG1-8 | G1-057 | **Shih-Wun Hong**  Tzu Chi University | Biomechanical Adaptations during Uphill Walking in Patients with Unilateral Posterior Cruciate Ligament Deficiency |
| PG1-9 | G1-062 | **Yu Chih Lin**  National Taiwan Ocean University | 髖關節主動式外骨骼生物力學分析 |
| PG1-10 | G1-064 | **Shou-I Chen**  National Formosa University | Biomechanical Analysis of Dental Implants with Porous Structure |
| PG1-11 | G1-068 | **Ke Yi-Wun**  National Tsing Hua University | Exploring The Mechanisms Of Colorectal Cancer Metastasis Through Its Microenvironment Using Microfluidic Tumor On A Chip Array |
| PG1-12 | G1-070 | **Hsiang-Wei Liu**  National Tsing Hua University | CTC/CTM/EMT based Colorectal Cancer Prognosis on an Automatic High-Density Self-Assemble Cell Array (HD-SACA) Chip system |

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| **Nov. 3 (Sunday) 10:10~11:20 1F Lobby of the Dept. Chemical** | | | |
| **Poster No.** | **Paper No.** | **Presenter** | **Title** |
| PG1-1 | G1-006 | **Hung-Chih Chang**  Hungkuang University | An interface design of the resin bridge adhesive system: Finite element analysis |
| PG1-2 | G1-009 | **Tsao-Li Chuang**  National Taiwan University | Exploring the correlation between root canal treatment and the trigemino-cardiac reflex |
| PG1-3 | G1-020 | **Yen-Nine Chen**  Asia University | Role of Screws and Rods in Cage Loading During Lateral Lumbar Interbody Fusion |
| PG1-4 | G1-026 | **Yao-Tsung Yang**  I-Shou University | 電腦視覺分析棒球投球之肩關節動作形式 |
| PG1-5 | G1-048 | **Heng Chang**  National Tsing Hua University | Digital Scanning Lightsheet Microscopy (DSLM) for Drosophila Whole Brain Functional Imaging |
| PG1-6 | G1-049 | **Yu-Ci Mai**  China Medical University | Inspiration for 3D Tissue Engineering from Spherical Cell Culture |
| PG1-7 | G1-050 | **You-Sian Wang**  China Medical University | Biomechanical Analysis and Self-Restoring Properties of Feathers |
| PG1-8 | G1-051 | **Wan-Chi Liao**  China Medical University | Asymmetric Construction of the Flight Feather Shaft: Inspiration for Novel Biomedical Composites |
| PG1-9 | G1-055 | **Pei-Tzu Lan**  Asia University | In silico Design of DNA Aptamer Targeting Interleukin 17 (IL-17) and the Molecular Dynamics (MD) Analysis |
| PG1-10 | G1-071 | **Shiuan-Huei Lu**  National Taiwan University | Effects of Divided Attention on Whole-Body Balance Control Strategies During Obstacle-Crossing in Patients with Mild Cognitive Impairment |
| PG1-11 | G1-073 | **Ming-Ching Su**  I-Shou University | Topological Optimization for Wrist Orthosis Using Finite Element Analysis |
| PG1-12 | G1-074 | **Po-Tsun Chen**  Chang Gung University | Altered Trunk Movement Pattern During Spiking in Adolescent Volleyball Players With Shoulder Pain |
| PG1-13 | G1-080 | **Mohammad Nikkhoo**  Chang Gung University | Biomechanical Impact of Anterior Cervical Fusion vs. Artificial Disc Arthroplasty: Comprehensive Patient-Specific Finite Element Analyses of the Lower Cervical Spine |