**Schedule of Presentations: Oral Session**

**Biomechanics**

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| **Nov. 1 (Friday) 15:10 – 16 :30 2F Room 36204**  **Chair：Prof. Hsiang-Ho Chen 陳祥和教授**  (Department of Biomedical Engineering, Chang Gung University) | | |
| **Paper NO.** | **Presenter** | **Title** |
| G1-019 | **Thi Kim Ngan Ngo** National Cheng Kung University | Melanoma Microenvironment Model For Mechanistic Insights Into Thrombomodulin-Plasminogen Interaction In Tumor Invasion |
| G1-022 | **Yu-Wei Chiang**  National Taiwan University | Probing 3D Lung Cancer Invasion Through Dynamic Optical Coherence Tomography Imaging |
| G1-065 | **Yen-Lin Chen**  National Taiwan University | Lethality Prediction Of Osteogenesis Imperfecta With Molecular Dynamics-Based Mutant Structure Database |
| G1-023 | **Yu-ting Jou**  National Taiwan University | 力學環境對角膜間質細胞的影響 |
| G1-033 | **Heng-Hua Hsu**  Academia Sinica | Studying Stiffness Of Lung Fibroblast-Embedded Matrix Under Various Oxygen Tensions And Gradient Using An In Vitro Microfluidic Cell Culture Model |
| G1-025 | **Bo-Yi Yao**  National Tsing Hua University | Establishment Of A Functional Organ-On-Chip Platform For Studying Hypertensive Podocytopathy \*P |

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| **Nov. 2 (Saturday) 11:10 – 12 :30 1F Room 36169**  **Chair：Prof. Heng-Li Huang 黃恆立教授**  (School of Dentistry, China Medical University) | | |
| **Paper NO.** | **Presenter** | **Title** |
| G1-072 | **Ching-Hsuan Chiu**  National Cheng Kung University | Real-Time Peri-Implant Stress Prediction For All-On-4 Treatment Using Finite Element-Based Machine Learning - A Clinical Case Study |
| G1-007 | **Wei-Lun Chen**  National Taiwan University of Science and Technology | Biomechanical Investigation Of Customized Continuous Positive Airway Pressure Mask For Obstructive Sleep Apnea Using Computational Simulation |
| G1-035 | **Yu-Cheng Wang**  National Taipei University of Technology | Biomechanical Evaluation Of Artificial Cervical Intervertebral Disc In Different Placement Positions-Finite Element Analysis |
| G1-044 | **Wei-Chen Chao** National Taipei University of Technology | Biomechanical Analysis Of Novel Dental Implant Under Impact Loading On The Alveolar Bone Stress Distributions |
| G1-037 | **Guan-Lun Lu**  National Taipei University of Technology | Mechanical Evaluations Of Different Curved Root Canal Preparations- Finite Element Analysis |
| G1-067 | **Yun-Da Li**  New Taipei City Municipal Tucheng Hospital | Biomechanical Study Of Pedicle Screw Fixation Strength: Influence Of Various Pilot Hole Profiles In Minimally Invasive And Traditional Spinal Surgery |
| **Nov. 2 (Saturday) 15:40 – 17 :30 1F Room 36169**  **Chair：Prof.** **Bing-Shiang Yang楊秉祥教授**  (Department of Mechanical Engineering, National Yang Ming Chiao Tung University) | | |
| **Paper NO.** | **Presenter** | **Title** |
| G1-040 | **Ali Mehdi** Kaohsiung Medical University | Modeling Basketball Shot Prediction With LSTM And Mediapipe Integraton |
| G1-066 | **Yi-Chan Ding**  National Cheng Kung University | Toward Quantifying Hand Movements Using Channel State Information Ratio Model |
| G1-005 | **Chi-Hua Yang**  National Taiwan University of Science and Technology | Biomechanical Study Of Joint Movement In The Index Finger Using Patient Specific Finite Element Modeling And Video-Based Measurement |
| G1-069 | **Cheng-Hao Yu**  National Taiwan University | Maturation Of Trade-Off Strategies Between Mechanical Energy Expenditure And Foot Clearances For Obstacle Negotiation |
| G1-052 | **Arnaldo David**  National Cheng Kung University | Stretch-Mediated Hypertrophy Of Monoarticular Muscles Of The Shoulder Joint |
| G1-077 | **Kao-Shang Shih**  Shin Kong Wu Ho-Su Memorial Hospital | Three-Dimensional Radio-Density Statistical Shape Modeling For Subjectspecific Knee Joint With Fluoroscopy Images |

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| **Nov. 3 (Sunday)** **11:20~12:40 1F Room 36169**  **Chair：Prof. Ting-Sheng Lin 林鼎勝教授**  (Department of Biomedical Engineering, I-Shou University) | | |
| **Paper NO.** | **Presenter** | **Title** |
| G1-030 | **Ching-Yueh Chang**  National Yang Ming Chiao Tung University | Functional Testing Of A Novel Platelet Plasma Separation System For Application In Diabetic Wounds \*P |
| G1-043 | **Erh-Yi Huang** I-Shou University | Investigation Of Oropharyngeal Collapses In Obstructive Sleep Apnea |
| G1-060 | **Kitthida Riabroi**  Prince of Songkla University, Thailand | Using Image Analysis To Quantify 3D Printed Structures With Different Infill Pattern And Infill Density For Medical Applications |
| G1-079 | **Po-Yen Hsiao**  Chung Yuan Christian university | Analysis Of Lower Back Surface Electromyography And Musculoskeletal Model Simulation For A Passive Back Exoskeleton |
| G1-031 | **Rong-Chen Lin**  National Yang Ming Chiao Tung University | Biomechanical Design And Analysis Method Of The Patient-Specific Distal Femur Reconstructive Implant For Large Bone Defects |
| G1-078 | **Yi-Te Chang**  National Taiwan University | A Modified Beam Theory For Bending Testing Of Bone |