NANO KOREA 2026 Conference TS11. CWNU G-LAMP Nanomaterials and Nanodevices for Digital Healthcare Outstanding Paper Award Winners

Presentation Code	Presentation Type	Prize	TITLE	AFFILIATION	AUTHOR
TS11T5_O_5	Oral	KRW 200,000	A Conserved Terpene Cyclase Gene in Sanghuangporus for Abscisic Acid-Related Sesquiterpenoid Biosynthesis	[1]Seoul National University, [2]Changwon National University, [3]Sokoine University of Agriculture	Chang Wan Seo[1], Yoonhee Cho[1], Hyeonjae Cho[1], Yeongwoon Jin[1], Abel Severin Lupala[1,3], Sang Hee Shim[1], and Young Woon Lim[1]
TS11F6_O_1	Oral	KRW 200,000	An Aging-Associated EV–miRNA Axis Enhances Susceptibility to $PM_{2.5}$-Induced Lung Injury	Changwon National University	Jun Go, Nayoung Lee, and Heedoo Lee
TS11F6_O_2	Oral	KRW 200,000	World-First Synthesis of AlCoCrFeNi High-Entropy Alloy by Self-Propagating High-Temperature Synthesis and Its Application to MoS_2-Reinforced Tribological Composites	Changwon National University	Dogyun Byeon, Tae-Hwan Jang, Joohan Jo, Jungwon Hur, Tae-Min Kim, Yurim Noh, Sungju Lee, Yong Suk Oh, and Sungmin Yoon
TS11F6_O_6	Oral	KRW 200,000	Facile and Scalable Strategy for Fabricating Dense Bulk Ag_2Se as a High-Performance Thermoelectric Material	[1]Changwon National University, [2]Korea Research Institute of Chemical Technology, [3]Korea Institute of Science and Technology	Myeong Hoon Jeong[1], Byoungwook Park[2], Jungwon Kim[3], Mijeong Han[2], and Young Hun Kang[2]
TS11F6_O_7	Oral	KRW 200,000	Cold Sintering of Se-Free $Bi_{1.8}Sb_{0.2}Te_3$: A Low-Temperature Route to Dense Thermoelectrics	Changwon National University	Pathan Sharief, Ninad B. Velhal, Muhammad Uzair, Ha-Jin Gu, Ah-Hyeon Park, YoungJae Kim, and Sang-Chae Jeon
TS11F6_O_8	Oral	KRW 200,000	Engineering Phase-Pure 2D Layered ZnSb Thermoelectrics via Alkali Metal Alloying	[1]Changwon National University, [2]Korea Institute of Science and Technology	Peyala Dharmaiah[1], Hea Jung Park[1], and Seung-Hyub Baek[2]

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TS11F6_O_9	Oral	KRW 200,000	Selection of Cysteine Protease Domain-Targeting Peptides Against Vibrio Vulnificus MARTX Toxin	[1]Changwon National University, [2]Cheongju University	Ga-Young Park[1], Sang-Oh Ha[2], Si-Eun Yu[2], Jae-Won Choi[2], and Gna Ahn[1]
TS11F6_O_10	Oral	KRW 200,000	Circulating EV-Derived miR-148a-3p Is Associated with Inflammatory Activity in Axial Spondyloarthritis	Changwon National University	Byeong Geun Seok, Suryeon Kim, and Heedoo Lee
TS11F7_O_1	Oral	KRW 200,000	Strategic Development of dsRNA-Based Bioagents to Optimize Crop Resilience under Climate Fluctuation	Changwon National University	Byung Jun Jin and Inkyu Park

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TS11W_BP_4	Poster	KRW 50,000	Influence of Contrasting Inland and Island Environments on the Armadillidium Vulgare Fungal Microbiome in South Korea	Changwon National University	Yehyeon Cha and Seun-Yoon Oh
TS11T_BP_2	Poster	KRW 50,000	Enhanced Densification and Mechanical–Optical Properties of Freeze-Cast Porous LAS (Li_2O–Al_2O_3–SiO_2) Ceramics via TiO_2 Addition	Changwon National University	Ha-Jin Gu, Young-Jae Kim, Ah-Hyeon Park, and Sang-Chae Jeon
TS11T_BP_3	Poster	KRW 50,000	Comparative Analysis of the Complete Chloroplast Genomes of Dioscorea Species with Sequence Variation, Mutational Hotspots, and Divergence History	Changwon National University	Cu Thi Tuyen, Sumin Jeong, Yeseul Kim, Bumjin Jang, Byung Jun Jin, Yun Ji Park, and Inkyu Park
TS11T_BP_5	Poster	KRW 50,000	Linear Polarization Dependent Photoresponse of $ReSe_2$ Schottky Diode	Changwon National University	Jiwon Ha, Seok Hyun Byun, and Jongtae Ahn
TS11T_P_6	Poster	KRW 50,000	Wearable Multiplexed Colorimetric Band for Wound Monitoring based on pH and Temperature	Changwon National University	Goeun Choi, Sangwon Kim, Taehwan Jang, Seongju Lee, and Yongsuk Oh
TS11T_P_7	Poster	KRW 50,000	Design and Finite Element Analysis of a Pressure-Insensitive Shear Force Sensor for Pressure Injury Prevention	1Changwon National University, [2]Korea Advanced Institute of Science and Technology	Sangbin Lee1, Yonghee Lee1, Hyeonseok Han2, Younghan Kim1, Seungjoon Ha1, and Yong Suk Oh1
TS11T_P_8	Poster	KRW 50,000	Development of an FPCB-Based Flexible Sensor Patch for Real-Time Posture and Pressure Monitoring	Changwon National University	Ha-Kyoung Lee, Nam-Hyeong Lee, Seng-ju Han, Young-han Kim, Jeong-A Han, Sang-bin Lee, and Yong-Suk Oh
TS11T_P_9	Poster	KRW 50,000	Flexible Triboelectric SCG Sensor with Coil Architecture for Cuff-Less Blood Pressure Monitoring	1Changwon National University, [2]University of California	Jeong A Han[1], Young Han Kim[1], Seng Ju Han[2], and Yong Suk Oh[1]

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TS11T_P_10	Poster	KRW 50,000	Sintering Behavior of Al_2O_3–Gd_2O_3 Composites for Burnable Absorber Rods in SMRs	1Changwon University, [2]KEPCO Nuclear Fuel Co., Ltd	Ah-Hyeon Park[1], Ha-Jin Gu[1], Young-Jae Kim[1], Sung-Woo Ha[2], Kwang-Young Lim[2], Yeon-Soo Na[2], and Sang-Chae Jeon[1]
TS11T_P_12	Poster	KRW 50,000	Morphological and Genome-Wide InDel Marker Analysis for Cultivar Discrimination in Rehmannia glutinosa	1Changwon National University, [2]Rural Development Administration	Sumin Jeong[1], Yun Ji Park[1], Yunjoo Kang[1], Yeseul Kim[1], Byung Jun Jin[1], Yong-Goo Kim[2], Jong Won Han[2], and Inkyu Park[1]
TS11T_P_13	Poster	KRW 50,000	Comparative Analysis of Chloroplast–Mitochondrial Genome Interactions in 11 Salix Species	Changwon National University	Yeseul Kim, Sumin Jeong, Shukherdorj Baasanmunkh, Youngmoon Kim, Hyeok Jae Choi, and Inkyu Park
TS11T_P_14	Poster	KRW 50,000	The Effects of Tanshinone I on Memory Consolidation in Mice	Changwon National University	Minseo Seo, Sun Woo Park, Huiyoung Kwon, and Ho Jung Bae
TS11T_P_16	Poster	KRW 50,000	Intergration of MOF/TEG for Hydrolysis and Detection of Nerve Agents	Changwon National University	Eojin Oh, Myeonghun Jung, and Hea Jung Park
TS11T_P_17	Poster	KRW 50,000	Ascorbic Acid-Driven Sustainable Recovery of Manganese from Waste Mn Dust	Changwon National University	Yeonseo Jang and Haesung Jung
TS11T_P_18	Poster	KRW 50,000	Synthesis of Phosphorescent Pt(II) Complexes with Sterically Rigid Indolocarboline Ligands	Changwon National University	Geon Woo Park and Hea Jung Park
TS11T_P_19	Poster	KRW 50,000	Design and Photophysical Study of Chiral-Structure-Based Pt(II) Emitters for Circularly Polarized Luminescence	Changwon National University	Ho jun Lee and Hae jung Park
TS11T_P_20	Poster	KRW 50,000	Cryogenic Electrical Characterization of Graphene Field Effect Transistor	Changwon National University	Seok Hyun Byun, Jiwon Ha, and Jongtae Ahn

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TS11T_P_21	Poster	KRW 50,000	Emission Modulation of Blue Phosphorescent Pt(II) and Pd(II) Complexes through Ligand Conjugation Control and Metal-Center Variation	Changwon National University	Phil Lip Lee and Hea Jung Park
TS11F_P_2	Poster	KRW 50,000	Development of MOF-Derived Catalysts for Hydrogen Production from Combustible Waste	1Changwon National University, [2]Dongseo University	Beomsu-Cheon[1], Juyeon Kim[1], Hak Min Kim[2], and Dae-Woon Jeong[1]
TS11F_P_8	Poster	KRW 50,000	Isolation and Characterization of Pulmonary-Specific Extracellular Vesicles from Mouse Bronchoalveolar Lavage Fluid	Changwon National University	Nayoung Lee, Huijae Cho, Gyeongmin Jeong, Jun Go, and Heedoo Lee
TS11F_P_9	Poster	KRW 50,000	Development of Surface-Engineered Extracellular Vesicles for Lung Epithelial Cell Targeting	Changwon National University	Jihye Park, Budjav Jadamba, Jooseong Jeong, Seoyun Lee, Byeonggeun Seok, and Heedoo Lee
TS11F_P_10	Poster	KRW 50,000	Optimization of the Support Composition of Ni–Ce(x)Zr(1−x)O_2 Catalysts for Hydrogen Production from Waste Plastic-Derived Pyrolysis Oil	1Changwon National University, [2]Dongseo University	Ju-Yeon Kim[1], Jin-Sik Bang[1], Beom-Su Cheon[1], Hak-Min Kim[2], and Dae-Woon Jeong[1]
TS11F_P_12	Poster	KRW 50,000	Comparative Study on the Densification Behavior of $BaTiO_3$ during Cold Sintering	Changwon National University	Muhammad Uzair, Pathan Sharief, Ninad Velhal, Ha-Jin Gu, Young-Jae Kim, Ah-Hyeon Park, and Sang-Chae Jeon
TS11F_P_16	Poster	KRW 50,000	Ketone Metabolism Mediates Enhanced Thermogenesis in Brown Adipose Tissue under a Ketogenic Diet	Changwon National University	Junhyeok Lee, Jeongwoo Yoo, Yusra Ahmad, Wanjun Kim, Siwoo Lee, Dongsoo Seo, Huiyoung Kwon, Ho Jung Bae, and Younghoon Jang

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TS11F_P_17	Poster	KRW 50,000	Adipose Tissue Macrophage Remodeling in HFD-Induced Obesity Models	Changwon National University	Wanjun Kim, Dongsoo Seo, Yusra Ahmad, Junhyeok Lee, Jeongwoo Yoo, Siwoo Lee, Huiyoung Kwon, Ho Jung Bae, and Younghoon Jang
TS11F_P_18	Poster	KRW 50,000	BCAA Diet Modulates Macrophage Populations in Adipose Tissue during Aging-Associated Fibrosis	Changwon National University	Siwoo Lee, Dongsoo Seo, Yusra Ahmad, Junhyeok Lee, Jeongwoo Yoo, Wanjun Kim, Huiyoung Kwon, Ho Jung Bae, and Younghoon Jang
TS11F_P_25	Poster	KRW 50,000	Superconducting Properties of SHS-Synthesized $CoZr_2$	1Changwon National University, [2]Sungkyunkwan University	Junhyeong Park[1], Dogyun Byeon[1], Yunha Kim[1], Jaegu Song[2], Han Yoon[2], Tuson Park[2], and Soonbeom Seo[1]
TS11F_P_26	Poster	KRW 50,000	Biological Role of Cytochrome P450 Family 1 Subfamily A Member 1 (CYP1A1) in Ketogenic Diet-Induced Modulation of Lung Cancer	Changwon National University	Yusra Ahmad, Jungwoo Yu, Junhyeok Lee, Wanjun Kim, Siwoo Lee, Dong Soo Seo, Huiyoung Kwon, Ho Jung Bae, and Younghoon Jang