



# BioEM 2025

## Tuesday 24 June 2025

### Poster Session B - Halle 1 (11:00 - 12:30)

[id] title	presenter	board
[226] PB/FB-03 Far-field Environmental and Auto-Induced RF-EMF Human Absorption Simulations in Different Phantoms	WYDAEGHE, Robin	
[227] PB/FB-04 A whole-transcriptome approach to determine the effects of 5G-modulated RF-EMF exposure in keratinocytes	SEGERS, Seppe	
[228] PB/FB-05 Evaluation of multi-frequency electromagnetic exposure using an anatomically realistic computational human model	FUJITA, Homei	
[224] PB/FB-01 Feasibility study of a microwave surgical energy device composed of a waveguide	NISHIDATE, Tsugumi	
[225] PB/FB-02 A mmWave RF-EMF exposure sensor for 5G FR2: concept and design	VAN DER STRAETEN, Jeroen	
[229] PB/FB-06 Electro-thermal coupled analysis during Electro-Magnetic Apical Treatment reflecting phase transition of saline solution and blood coagulation	USHIO, Kanta	
[230] PB/FB-07 Measurement of microwave-induced thermoelastic waves using laser Doppler vibrometer ~Surface Vibrations of Dielectric Phantom and Application to Microwave Auditory Effects~.	INAMORI, Shotaro	
[231] PB/FB-08 The Relationship between Interoception and Response Bias in Electric Field Detection	PAPSTEIN, Louis	
[232] PB/FB-09 Radio Frequency Electromagnetic Exposure of Insects at 10 cm from a Dipole Antenna	TORIBIO, David	
[233] PB/FB-10 Analysis of Auditory Characteristics of Repetitive Pulsed Sounds Induced by Microwave Exposure on Microwave Auditory Effect	HADI, Salam	
[234] PB/FB-11 Assessing the Physiological Effects of 2.45 GHz Radio-frequency Radiation on the Human Skin Bacterium <i>S. epidermidis</i>	TOMAR, Anuj	
[235] PB/FB-12 Magnetoelectric nanorods enabling wireless peripheral nerve recording: a computational study	GALLETTA, Valentina	
[236] PB-13 Effect of Blood Flow on Skin Temperature Rise During Local 6 GHz RF-EMF Exposure	MCGARR, Gregory	
[237] PB-14 Reliable Numerical Characterization of Rodent Exposure Imbalances in Large Reverberation Chambers	FARAONE, Antonio	
[238] PB-15 The study on the Evaluation Method of EMF Human Exposure from 3.5 GHz 5G Base Station using a Drone	CHOI, Donggeun	
[240] PB-17 Detection of Cell Membrane Hydration Changes Induced by Pulsed Electric Fields Using Wide-Field CARS Microspectroscopy	CAMERA, Francesca	
[241] PB-18 COMPACT INFRARED IMAGING SYSTEM FOR FAST APD EVALUATION ABOVE 6 GHz	ZIANE, Massinissa	
[242] PB-19 Temporal variation of radiofrequency electromagnetic exposure assessment of wireless cellular communications	VERMEEREN, Günter	

<b>[243] PB-20 The Limit Info Tool for Electromagnetic Fields (EMF-LIT): A User-Friendly Website for Calculating Permissible Values from Selected EMF Regulations</b>	SOYKA, Florian	
<b>[244] PB-21 EXPOSURE TO RADIOFREQUENCY ELECTROMAGNETIC FIELDS FROM AM RADIO BROADCAST STATIONS AMONG CHILDREN IN METROPOLITAN FRANCE IN THE PERIOD 2002-2013</b>	ZUPUNSKI, Ljubica	
<b>[246] PB-22 Feasibility assessment of a real-time SAR calculation method in the HF to the low-UHF bands</b>	LIBERTI, Micaela	
<b>[247] PB-23 Deep Learning-Based Head Models for Thermal Dosimetry: Comparison Between Segmentation-Based and Segmentation-Free Approaches</b>	KODERA, Sachiko	
<b>[248] PB-24 Whole-body Exposure Assessment from 28 GHz Band Beamforming Antennas</b>	KUSHIYAMA, Yujiro	
<b>[249] PB-25 The role of the reciprocal regulation between BDNF and NMDAR in microwave radiation-induced abnormal synaptic transmission in hippocampal neurons</b>	HU, Xiangjun	
<b>[250] PB-26 Low Frequency Magnetic Field Induction Factors for the Hand</b>	SCHNEEWEISS, Pia	
<b>[251] PB-27 Simulation Study on the Rapid Cranial Contour Measurement Algorithm to Improve the Focusing of Transcranial Magneto-Acoustic Stimulation</b>	MA, Ren	
<b>[252] PB-28 Evaluation of the acute effects of a 50 Hz magnetic field on ischemic skin blood flow in the sole induced by compression fixation</b>	OKANO, Hideyuki	
<b>[253] PB-29 Measurement and assessment of magnetic field exposure during conductive charging of electric vehicles</b>	SCHMID, Gernot	
<b>[254] PB-30 EMF Exposure assessment in logistic industrial sector due to Private 5G Networks</b>	VALIČ, Blaž	
<b>[255] PB-31 Design and Measurement of a 265 GHz Sub-terahertz Optical System for Exposure Experiments Using a Gyrotron</b>	FUKUNARI, Masafumi	
<b>[256] PB-32 Effects of 5G RF-EMF exposure on DNA damage of skin cells following UV exposure</b>	RIM KIM, Hak	
<b>[258] PB-34 Study of the effects of co-exposure to a 5G modulated signal and ultraviolet radiation on human lens epithelial cells</b>	PELUSO, Valentina	
<b>[259] PB-35 Moderating effect of sensory processing sensitivity on the relationship of electrohypersensitivity on anxiety and depressive disorders</b>	LEDENT, Maryse	
<b>[260] PB-36 Measurement of Exposure Levels to RF Electromagnetic Fields Emitted by Smart Meters</b>	MINAMI, Norihiro	
<b>[261] PB-37 Comparative Assessment of SAR Values in 4G LTE and 5G Sub-6GHz Bands Using Scanning and Array SAR Systems</b>	NAGAOKA, Tomoaki	
<b>[262] PB-38 Toward Accurate Dosimetry in Epidemiological Studies: Realistic 5G Smartphone Usage Modelling for Children and Adolescents</b>	HIKAGE, Takashi	
<b>[263] PB-39 Analysis of RF-EMF Measurement Results in High-occupancy Facilities</b>	JI HYE, KANG	
<b>[264] PB-40 Effects of 28 GHz quasi-millimeter wave on warm sensation in the human back skin of volunteers</b>	ISHITAKE, Tatsuya	
<b>[265] PB-41 E-field probe calibration method using the <math>\mu</math>-EO probe above 6 GHz</b>	JU, Youngjun	
<b>[223] PB-67(3) INTERNATIONAL QUESTIONNAIRE SURVEY ON RISK PERCEPTION OF EMF AMONG THE GENERAL PUBLIC IN JAPAN, POLAND, AND GERMANY</b>	OHKUBO, Chiyoji	

<b>[239] PB-16 CHALLENGES IN ENHANCING PULSED ELECTRIC FIELDS (PEF) ELECTROPORATION USING CONDUCTIVE NANOPARTICLES: FROM THEORY TO PRACTICE</b>	ORLACCHIO, Rosa	
<b>[257] PB-33 Radiofrequency, LTE signal exposure does not alter cancer-related endpoints in human neuroblastoma cell model either alone, or in combination with WiFi signal or menadione.</b>	ZENI, Olga	
<b>[266] PB-42 Weak radiofrequency field effects on biological systems mediated through the radical pair mechanism – A review</b>	DESER, Andreas	
<b>[267] PB-44 IN-SITU MEASUREMENTS OF ELECTROMAGNETIC FIELD LEVELS ON ROOFTOPS IN GREECE: A 2022-2024 ANALYSIS OF THE 5G NR FR1 CONTRIBUTION</b>	CHRISTOPOULOU, MARIA	
<b>[268] PB-45 Reduction of body effect RF EMF sensor with back reflector</b>	SPIRITO, Marco	
<b>[269] PB-46 Microwave radiation ameliorates cognitive deficits and brain pathological changes in 5×FAD mice by enhancing gamma oscillations</b>	WANG, Lifeng	
<b>[270] PB-47 COMBINED WLAN AND WWAN EXPOSURE SCENARIO FOR DEVICES USED IN CLOSE PROXIMITY TO THE HUMAN BODY</b>	MEHDI, Ramdani	
<b>[271] PB-48 Exploring RF-EMF Exposure in 5G Networks: Instantaneous vs Theoretical Maximum Analysis in Valencia</b>	NAJERA, Alberto	
<b>[272] PB-49 Exposure Assessment Study in 6G RIS-Equipped Indoor Scenario</b>	GALLUCCI, Silvia	
<b>[273] PB-50 The prevention and treatment effect of Ginkgo biloba flower extract on brain injury of rats induced by microwave radiation</b>	LIU, Shuchen	
<b>[274] PB-51 Comparison of Body Temperature Dynamics under Continuous and Intermittent Radiofrequency Radiation Exposure in Rats</b>	SUN KIM, Hye	
<b>[275] PB-52 Aspects related to the integration of RF-EMF artificial intelligence applications into a comprehensive information system</b>	GYULAI, Balázs	
<b>[277] PB-54 EFFECT OF 5G SIGNALS AT THE MOLECULAR AND CELLULAR LEVEL</b>	CAYRON, Coralie	
<b>[278] PB-55 The impact of the human body on the parameters of emission from wireless body-worn communication antenna used in various locations</b>	ZRADZIŃSKI, Patryk	
<b>[279] PB-56 Exposure to 50 Hz magnetic fields prevents DNA damage induced by human cytomegalovirus infection in human fetal lung fibroblasts</b>	ZHU, Ying	
<b>[280] PB-57 A Simulation-Based Study to Investigate Antenna Input Voltage Effects on Skin Temperature Rise from Localized 6 GHz RF-EMF Exposure</b>	ALZAHED, Abdelelah	
<b>[281] PB-58 Evaluation of stimulus response and induced electric fields inside three-dimensional neuronal networks by power-frequency magnetic field exposure</b>	SAITO, Atsushi	
<b>[282] PB-59 RF-EMF</b>	CHOI, Seunggho	
<b>[283] PB-60 Co-exposure to air pollution and non-ionising radiation from high-voltage power lines: a case study on environmental inequalities in Belgium</b>	DE CLERCQ, Eva	
<b>[284] PB-61 Is Exposure to Non-Ionizing Radiation (Electromagnetic Radiation) Generated from Cellphones Carried Below the Waist Contributing to the Rapid Rise in Early-Onset Colorectal Cancer?</b>	LI, De-Kun	
<b>[285] PB-62 Overview of a Project to Improve the Quality of Experimental Research Used in Assessing the Health Risks of Exposure to Electromagnetic Fields</b>	USHIYAMA, Akira	
<b>[286] PB-63 Field Reconstruction for High-Frequency Electromagnetic Exposure Assessment Based on Deep Learning</b>	LIU, Zicheng	

<b>[287] PB-64 THE EFFECT OF RADIOFREQUENCY EXPOSURE COMBINED WITH BLEOMYCIN TREATMENT ON SEIZURES IN MAMMARY CANCER ANIMAL MODELS</b>	ALKAN, Hacer	
<b>[288] PB-65 Mitigating Recurrent Cystitis and reducing antibiotic resistance development through early Immune Activation with LF-EMF, thereby counteracting immune delay.</b>	CUPPEN, Jan	
<b>[289] PB-66 RAY TRACING MODELING OF 5G NON-PUBLIC NETWORKS OPERATING AT 26 GHZ IN HEALTHCARE ENVIROMENTS</b>	LODATO, Francesca	