



Università di Bologna - Dipartimento di Fisica
Via Irnerio 46, Aula Magna

Programma

Mercoledì 27 giugno

Ore 14:00 Apertura del Convegno: saluto delle Autorità

Ore 14:30 - 16:00 Sessione 1: Effetti Biologici 1 (Moderatore: Ruggero Cadossi)

Extremely low frequency pulsed magnetic field exposure affects LINE-1 retrotransposition activity

Brunella Del Re^{a,c}, Mariangela Lecciso^a, Entelè Gavocci^b, Miriam Capri^{c,d}, Stella Lukas^{c,d}, Ferdinando Bersani^{b,c}, Gianfranco Giorgi^{a,c}

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Extremely low frequency magnetic field-induced effects on cell biology and proteome expression of a human neuroblastoma cell line

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Role of Low Frequency Low Energy Pulsed Electromagnetic Fields and Adenosine Receptors in Regulating Inflammatory Responses on Human Synoviocytes

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Electromagnetic Fields Counteract IL-1beta Activity during Chondrogenesis of Bovine Mesenchymal Chondroprogenitor Cells

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Cytoprotective Response Induced by Electromagnetic Stimulation on SH-SY5Y Human Neuroblastoma Cell Line

Cecilia Osera^{1,*}, Lorenzo Fassina^{2,3,*}, Marialaura Amadio¹, Letizia Venturini^{4,5}, Nicoletta Marchesi¹, Giovanni Magenes^{2,3}, Stefano Govoni¹, Giovanni Ricevuti^{4,5}, Alessia Pascale¹

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Pausa caffè

Ore 16:30 - 18.30 Sessione 2: Effetti Biologici 2 (Moderatore: Maria Rosaria Scarfi)

LF electric fields exposure of bone cultured cells. Effects on gene expression

Mariella Caputo*, Hylde Zirpoli*, Maria Caterina De Rosa*, Tania Rescigno*, Francesco Chiadini⁺, Antonio Scaglione⁺, Claudia Stellato[#], Giorgio Giurato[#], Alessandro Weisz[#], Mario Felice Tecce* and Bruno Bisceglia⁺

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Cell miRNAs molecular pathway: the role of EMFs

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Effect of Repetitive Transcranial Magnetic Stimulation on Serum Brain Derived Neurotrophic Factor in Drug Resistant Depressed Patients

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Exposure of Two Cell Lines to Intermittent 1.8 GHz Mobile Phone Signals: Evaluation of Different Biological Endpoints

Paola Valbonesi*, Silvia Franzellitti*, Ferdinando Bersani⁺, Andrea Contin*⁺, and Elena Fabbri*

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Radiofrequency-Induced Adaptive Response in Human Lymphocytes cultured *in vitro*

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Effect of acute exposure to low-level CW and GSM-modulated 900 MHz radiofrequency on synaptic transmission and plasticity in the rat perirhinal cortex

Daniela Platano¹, Costanza Burattini¹, Pietro Mesirca², Entelè Gavoçi², Alessandra Paffi³, Francesca Apollonio³, Micaela Liberti³, Ferdinando Bersani^{2,4} and Giorgio Aicardi^{1,4}.

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Effect of a pulsed radiofrequency electromagnetic field on in vitro cell-free nitric oxide synthesis

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Giovedì 28 giugno

Ore 9:00 – 10:15 Sessione 3: Modellistica e meccanismi d'azione (Moderatore: Guglielmo D'Inzeo)

FEM modeling of the Pore dynamics induced by an experimental nsPEF

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Modeling Electromagnetic Field Effects in a Biochemical Reaction: Understanding Reactivity Inhibition Due to the Magnetic Field

Laura Zanetti-Polzi^{*}, Paolo Marracino[§], Isabella Daidone^{*}, Massimiliano Aschi^{*}, Francesca Apollonio[§], Guglielmo D'Inzeo[§], Micaela Liberti[§] and Andrea Amadei[†]

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The Importance of Dielectric Dispersion for nsPEFs: a Cell Circuit Model

A. Denzi^{*}, C. Merla[†], A. Paffi^{*}, F. Apollonio^{*}, G. d'Inzeo^{*} and M. Liberti^{*}

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Compartmental model for the estimation of temperature increase in fetus due to RFID exposure

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Ore 10:15 – 10:50 Sessione 4: Dosimetria numerica e sperimentale 1 (Moderatore: Paolo Ravazzani)

Dosimetric Assessment of an *in Vitro* Exposure Setup for Complex Magnetic Field Reproduction at Intermediate Frequencies

Caterina Merla, Rossella Lodato, Rosanna Pinto, Vanni Lopresto, Giorgio A. Lovisolo

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Current density in the heart during transcranial direct current stimulation

Marta Parazzini¹, Elena Rossi², Serena Fiocchi^{1,3}, Ilaria Liorni¹, Lorenzo Rossi⁴, Alberto Priori^{2,5}, Paolo Ravazzani¹

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Pausa caffè

Ore 11:15 – 11:50 Sessione 5: Dosimetria numerica e sperimentale 2 (Moderatore: Paolo Ravazzani)

Children's Personal Exposure to Extremely Low Frequency Magnetic Fields: study protocol and pilot data

Iliaria Liorni*, Benjamin Struchent†, Marta Parazzini*, Serena Fiocchi*[#], Martin Rööslit, Paolo Ravazzani*

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Exposure to Extremely Low Frequency Magnetic Fields: a Personal Monitoring Study in a Large Group of Workers

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Ore 11:50 – 12:45 Sessione 6: Applicazioni biomedicali 1 (Moderatore: Graziano Cerri)

In vitro Identification of Electroporation Equivalent Pulse Protocols

Alessia Ongaro*, Agnese Pellati*, Angelo Caruso*, Michela Battista+, Ruggero Cadossi+, Monica De Mattei*

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Electromagnetic Aids for Visually Impaired Users

L. Scalise[#], V. Mariani Primiani*, D. Shahu*, A. De Leo*, P. Russo*, V. Di Mattia*, G. Cerri*

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Experimental Investigation of a 434 MHz Wireless Energy Link for Medical Applications

Giuseppina Monti and Luciano Tarricone

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Intervallo pranzo

Ore 14:30 - 16:00 Sessione 7: Studi epidemiologici (Moderatore: Ferdinando Bersani)

TransExpo feasibility in Italy

Susanna Lagorio *, Alessandro Polichetti⁺, Luigi Bisanti[§]

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Is ELF-EMF exposure a risk factor for cancer and neurodegenerative diseases?

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Does mobile phone use imply an increased risk of brain cancer?

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Discussione generale

Pausa caffè

Ore 16:30 – 17:00 Consiglio di Amministrazione ICEmB
Ore 17:00 -17:30 Prospettive di Finanziamento alla Ricerca
Ore 17:30 – 19:00 Assemblea ICEmB

Ore 20:30 Cena sociale

Venerdì 29 giugno

Ore 9:00 -10:30 Sessione 8: Effetti biologici 3 (Moderatore: Bruno Bianco)

Effects of Radiofrequencies on the Immune System: from in Utero through Childhood to Adult life exposure

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Non-thermal electromagnetic fields increase rate of hemoglobin deoxygenation in a cell-free preparation

David Muehsam^{1,3}, Parviz Lalezari², Rukmani Lekhraj¹, Arthur Pilla⁴, Provvidenza M. Abruzzo⁵, Alessandra Bolotta⁵, Marina Marini⁵, Ferdinando Bersani^{6,7}, Giorgio Aicardi^{3,7} and Diana Casper¹

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Effect of radiofrequency electromagnetic field exposure on in vitro models of neurodegenerative disease

Giovanna Del Vecchio¹, Alessandro Giuliani¹, Mercedes Fernandez¹, Pietro Mesirca², Ferdinando Bersani², Rosanna Pinto³, Lucia Ardoino³, Giorgio A. Lovisolo³, Luciana Giardino^{1,4}, Laura Calzà^{1,4}

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Electric vs. Electromagnetic ultrashort pulses: search for a unifying view

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The effects of millimetre waves on lipid membrane

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Millimeter waves affects hydration and structure of phosphatidylcholine biomimetic membranes

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Pausa caffè

Ore 11:00 - 12:30 Sessione 9: Applicazioni biomedicali 2 (Moderatore: Piero Tognolatti)

An Advanced Numerical Model for Human Brain Activity Investigation

Guido Ala*, Elisa Francomano+

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Improved Antennas for Microwave Radiometry

Fernando Bardati⁺, Veronica Di Bello⁺, Ilaria Paliotta⁺, Piero Tognolatti[#]

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Preliminary Assessment of ANN Potentialities in Breast Cancer Detection through E.M. Diagnostic techniques

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Recent results on a novel microwave breast cancer imaging approach based on magnetic nanoparticle as contrast agent

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Industrial Applications of Microwaves: Cultural Heritage Conservation

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Ore 12:30 Chiusura del Convegno

Comitato Tecnico-Scientifico e Organizzativo

Presidente: Ferdinando Bersani

Componenti: Giorgio Aicardi, Bruno Bianco, Salvatore Caorsi, Graziano Cerri, Guglielmo D'Inzeo

