

POSTER PROGRAM

We remind that for safety reason, there will not be a dedicated “Poster Session”, the posters will be available on the screen indicated below the whole day. In the case of 2 posters on the same screen, priority will be given to the first poster in the morning and to the second poster in the afternoon, unless otherwise agreed by the presenters.

April 19:

Screen 1

- Combined effects of curcumin and photon beam irradiation on cultured glioblastoma cells studied by 1H Magnetic Resonance Spectroscopy

Testa D., Anello P., Colone M., Dupuis M. L., Stringaro A., Fuggetta M. P., Rosi A., Grande S., Palma A.

Screen 2

- Synergic Effects of Biochar, Bioactivators and Plants on PH-Contaminated Soil

Mazzurco Miritana, V., Passatore, L., Zacchini, M., Pietrini, F., Carloni, S., Peruzzi, E., Marinari, S., Massaccessi, L., Barra Caracciolo, A., Rolan

Screen 3

- Stamping and Patterning of conjugated polymers for artificial retina devices with special and spectral selectivity

Joseph E.,Leonardi C.,Ciocca M.,Vesce L.,Marinani P.,Reddy S. H.,Podpangi S. K.,Castriotta L. A.,Giacamo D. F.,Carlo A. D.,Camaioni A.,Brown T. M.

- Semiconducting polymer bio-hybrid interfaces: a comprehensive bioelectrical characterization and evaluation

G.Gentile, M.Ciocca, A.Zanon,I.Pichler,A.Rossini,L.Petti

Screen 4

- An FT-IR investigation on the X ray radiation effects on lipids extracts from HepG2 cells: preliminary results.

Famarzi B, Moggio M., Cardamuro V., Portaccio M., Diano N., Manti L., Lepore M.

Screen 5

- Colorimetric sensors based on poly(acrylic acid)/TiO2 nanocomposite hydrogels for monitoring UV radiation exposure

S. Botti, F. Bonfigli, R. D'Amato, J. Rodesi, M.G. Santonicola

- Fabrication and characterization of collagen/ κ -carrageenan 3D scaffolds as model systems for in vitro studies of microcalcifications in breast cancer

Corti G., Nogueira L.F. B., Caroleo F., Magrini A., Melino S., Paolesse R., Ciancaglini P., Dinarelli S., Ramos A.P., Bottini M.

Screen 6

- Comparison of vibrational spectra of healthy and diseased cell lines to detect spectral biomarkers of pathology

Lasalvia, M., Capozzi, V., Perna, G.

- Clinical use of Raman Spectroscopy Improves Diagnostic Accuracy for Indeterminate Thyroid Nodules

Verri M., DI Gioacchino M., Palermo A., Naciu A.M., Paolucci A., DI Masi A., Maggi D, Perrella E, Taffon C, Ricci M.A., Crescenzi A, Sodo A.

Screen 7

- Fabrication of ZnO nanorods / reduced graphene oxide low-impedance electrodes for glial cell signalling recording

Del Rio De Vicente J. I., Salvó D., Maiolo L. , Lucarini I., Maita F.

- Recording the electrical activity of electrogenic cells with low amplitude signals through disordered silicon nanowires based electrodes

Maita F., Maiolo L., Lucarini I., Del Rio I., Sciortino A., Ledda M., Mussi V., Lisi A., Convertino A.

Screen 8

- Microfluidic technology for liposome production: a Design of Experiment approach

Buttitta G., Bonacorsi S., Savioli M., Raimondi S.

Screen 9

- Characterizing Cu-Amyloid Beta Peptide Complexes: A Multi-Scale Computational Approach to Understanding Alzheimer's Disease

Alleva S., Minicozzi V., Stellato F.

- Investigation of 5-Fluorouracil Anticancer Drug by DFT calculations and Car-Parrinello Molecular Dynamics simulations

Muroni A., Pulci O., Minicozzi V.

Screen 10

- MicroSystemQ: a label-free system for active cell sorting

Brandi C., Spanò S., Cardarilli G.C., Verona E., Businaro L., Bisegna P., De Ninno A., Caselli F

- On the compatibility of nanovials with microfluidic impedance cytometry

Petitta F., Brandi C., De Ninno A., Bisegna P., Caselli F.

Screen 11

- Head or tail? A molecular dynamic approach to the complex structure of TNF-associated factor TRAF2

Erba, F., Di Paola, L., Di Venere, A., Mei, G., Minicozzi, V.

- Computational insights into FMRP KH1-G266E structure (in)stability

De Sciscio M.L., Catalano F., Giardina G., Di Matteo A., Travaglini C., D'Abramo, M.

Screen 13

- Enhancing gFET Biosensor Sensitivity with DNA Linkers: a computational approach for bioreceptor orientation

Perta N., Rexha J., Motta S., Romagnoli A., Di Marino D.

- gFET for extracellular vesicles detection: a new rapid tool for cancer diagnosis

Rexha J., Perta N., Romagnoli A., Guescini M., Di Marino

Screen 14

- Microalgal-based systems for sustainable wastewater upcycling, bioprocess optimization by mechanical stress

Ortenzi F., Montereali F., Contaldo A., Buccarello L., Stoica L., Di Marco A., Della Rocca B. M., Bruno L.

Screen 15

- Dissecting FMRP Domains to Restor the Synaptic Function in Fragile X Syndrome

Venturini G., Cirilli I., Roscini A., Romagnoli A., La Teana A., Di Marino D.

Screen 16

- Zein protein microcapsules prepared through ultrasound-assisted emulsification

Quarta A., Venanzi M., Cavalieri F.

- Modelling connectivity in functional brain networks for clinical and phenotypical characterizations

Parente F., Colosimo A.

April 20

Screen 1

- TiO₂ nanostructured array for optical ultrasensitive biosensing

Mancini T., D'Arco A., Macis S., Mosetti R., Della Ventura G., Marcelli A., Paolocci C., Chronopoulou L., Comini E., Galstyan V., Lupi S.

Screen 2

- Development of spectroscopic non-destructive method for food adulteration: preliminary fluorescence test of saffron and its adulterants.

Imparato, G., Nucara, A., Gerardino, A., Ordoudi, S., Bertani, F. R.

Screen 3

- Machine learning-assisted FTIR analysis of circulating extracellular vesicles for cancer liquid biopsy.

Di Santo R., Vaccaro M., Romanò S., Di Giacinto F., Papi M., Rapaccini G.L., De Spirito M., Miele L., Basile U., Ciasca G.

- Portable optical spectroscopy in combination with machine learning techniques for quantification of wheat protein content

Ricci C., Giammarino A., Gadaleta A., Gerardino A., Ferrara G., Bertani F. R.

Screen 4

- Conformational Dynamics of Ago-RNA complex in mixed water/methanol solvent.

Porcelli F., Casavola A.R., Grottesi A., Schiumarini D., Avaldi L.

Screen 5

- Structural Controllability to Unveil Hidden Regulation Mechanisms in Unfolded Protein Response: the Role of Network Models

Luchetti, N., Loppini, A., Matarrese, M. A. G., Chiodo, L., Filippi, S.

- Multidisciplinary Platform for Neuro-degenerative Diseases: the PERSEO Project

Mencattini A., Dabbagh Moghaddam F., Bertani F.R., Casti P., D'Orazio M., Pastore D., Pacifici F., Della Morte D., Martinelli E.

Screen 6

- Photoluminescent lithium fluoride proton detectors for clinical dosimetry

Piccinini M., Nichelatti E., Nigro V., Vincenti M.A., Ronsivalle C., Ampollini A., Trinca E., Nenzi P., Bazzano G., Montereali R.M.

Screen 7

- Ultrasound as a "green" abiotic stress to improve the fermentation process: an application to beer production

C Chicarella G., Ortenzi F., Buccarello L., Contaldo A., Stoica L., Di Marco A., Morozzo della Rocca B.

- Effect of the hop extract and of bioactive compounds from hop plant on the aggregation of human insulin in amyloid aggregation

Mari E., Ortore M.G.

Screen 8

- Diagnostic potential of disorder: Low cost and label-free Raman biosensors based on Ag-coated nanostructures for the detection of biological fluids

Fiorentini E., Durastanti C., Cirillo E.N.M., Sciortino A., Ledda M., Lisi A., Convertino A., Maiolo L., Mussi V.

- Exploiting the Diagnostic potential of disorder: novel Nanostructured platform for rapid, label-free and low-cost analysis of genomic DNA

Sciortino A., Lancia G. Durastanti C., Spitoni C., De Benedictis I., Cirillo E.N.M., Ledda M., Lisi A., Convertino A., and Mussi V.

Screen 9

- Atomic force microscopy characterization of extracellular vesicles and cellular budding

Sbarigia, C. Dinarelli, S. Mura, F. Buccini, L. Vari, F. Passeri, D. Rossi, M. Tacconi, S. Dini, L.

- AFM topographical mapping of budding of extracellular vesicles in temozolomide treated glioblastoma cells

F. Vari, D. Vardanyan, S. Dinarelli, D. Passeri, S. Tacconi, L. Dini

Screen 10

- Optimization of SH2 domain inhibitors to target oncogenic protein tyrosine phosphatase SHP2

Fulci C., Calligari P., Innamorati C., Storti C., Bobone S., Peggion C., Biondi B., Bocchinfuso G., Stella L.

- Exploring the Allosteric Regulation of Transmembrane Channels by External Coiled-Coil Helices

Di Muccio G., Guardiani C., Tinti A., Giacomello A.

Screen 11

- Different approaches for the scalable manufacturing of niosomes: a focus on microfluidics and thin layer evaporation method

Forte J., Fabiano M.G., Rinaldi F., Marianecci C., Carafa M.

- Optimization of oil in water Nanoemulsions by different surfactants/oils

Fabiano M. G., Forte J., Rinaldi F., Garzoli S., Marianecci C., Carafa M.

Screen 13

- The EuPRAXIA photon beams: ultra-bright light pulses for imaging and spectroscopy

Stellato F

Screen 14

- N-Myristoylation increases the antifungal activity of three newly designed short peptides.

Massaro F., Toma F., Pandolfi F., Bombelli C., Ceccacci F., Bugli F., Saraceni P.R., Buonocore F., Borocci S., Porcelli F.

Screen 15

- Kinetics of interaction between an antimicrobial peptide and bacterial cells

Troiano C., Franci E., Toto A., Fulci C., Casciaro B., Loffredo M.R., Mangoni M.L., Gianni S., Stella L.

Screen 16

- An experiment of Active Learning: a combined Molecular Dynamics and SAXS study on Cytochrome structure

Angelucci A., Calì C., Cattivera F., Comparini E., Di Tolla A., Gesuale E., Luciani E., Murano G., Del Giudice A., D'Abramo M.