

Index

TALK.....	7
Biomimetic nanoparticles for tumor targeting in cancer therapy.....	9
<i>Clara Baldari, Gabriele Maiorano, Giuseppe Gigli, Ilaria Elena Palamà</i>	
Miniaturized microfluidic platforms (Lab-on-chip/Organ-on-chip) for medical diagnostics, monitoring and drug screening.....	10
<i>Giusi Caragnano, Anas Munir, Alessandra Inguscio, Noemi Petese, Silvia Rizzato, Annagrazia Monteduro, Michele Maffia, Giuseppe Maruccio</i>	
Inquire the tumor microenvironment through <i>in vitro</i> 3D models with integrated sensing tools.....	13
<i>Federica Carnevali, Valentina Onesto, Stefania Forciniti, Helena Iuele, Francesco Colella, Anna Chiara Siciliano, Giuliana Grasso, Ilaria Serra, Eliana D'Amone, Giuseppe Gigli, Loretta L. del Mercato</i>	
Diffuse large B cell lymphoma (DLBCL) <i>in vitro</i> model based on A newly synthesized chitosan/gelatin hydrogel	14
<i>Gaia Corallo, Alessandro Polini, Susanna Anita Pappagallo, Giuseppa Gigli, Antonella Stanzione, Francesca Scalera, Maria Carmela Vegliante, Sabino Ciavarella, Attilio Guarino, Francesca Gervaso</i>	
Reduction of biofouling on aquatic moss-based biofilters using Mediterranean crustaceans.....	15
<i>Irma Del Piano, Francesca Letizia, Lorenzo Doria, Chiara Anglana, Fabrizio Barozzi, Francesco Mancini, Giorgio Mancinelli, Gian Pietro Di Sansebastiano</i>	
Optical detection of human hemoglobin by a molecularly imprinted polymer prepared by a novel vapor-phase synthesis	16
<i>Tiziano Di Giulio, Stefano Mariani, Martina Corsi, Cosimino Malitesta, Giuseppe Barillaro, Elisabetta Mazzotta</i>	
Innovative biotechnological filter based on aquatic moss to be applied in aquaculture	18
<i>Francesca Letizia, Irma Del Piano, Chiara Anglana, Fabrizio Barozzi, Federica Esposito, Matteo Calcagnile, Pietro Alifano, Gian Pietro Di Sansebastiano</i>	
Saturated and monounsaturated fatty acids differently regulate lipid droplet metabolism, energetics, and autophagy in hepatic cells	19
<i>Serena Longo, Francesco Vari, Francesco Loparco, Giancarlo Tramacere, Daniele Vergara, Anna Maria Giudetti</i>	

Shrimp processing waste as a source of antioxidant molecules for the pharma industry: a focus on green extraction strategies.....	20
<u>Federica Mancarella</u> , Francesco Milano, Paola Semeraro, Serena Perrone, Francesco Messa, Gabriella Chieffo, Maria Giulia Lionetto, Maria Elena Giordano, Ludovico Valli, Livia Giotta	
Establishment of an <i>in vitro</i> gastrointestinal barrier model to study nano and microplastics pollution	21
<u>Stefania Mariano</u> , Elisabetta Carata, Simona Di Giulio, Marco Muci, Elisa Panzarini	
Influence of the targeted brain structures on spatial behavior of fiber photometry signals.....	22
<u>Cinzia Montinaro</u> , Barbara Spagnolo, Maria Samuela Andriani, Marco Bianco, Marco Pisanello, Antonio Balena, Filippo Pisano, Francesco De Nuccio, Dario Domenico Lofrumento, Massimo De Vittorio, Ferruccio Pisanello	
NSC-34 cells as model to study extracellular vesicles release-based cell-to-cell communication in amyotrophic lateral sclerosis	23
<u>Marco Muci</u> , Stefania Mariano, Simona Di Giulio, Elisa Panzarini, Elisabetta Carata	
Biotechnological approach to the evaluation of the short-term response to stress in plant cells	24
<u>Maria Paulla Oliveira Dos Santos</u> , Francesco Ruoti, Gian Pietro Di Sansebastiano, Fabrizio Barozzi	
Advances in biosensing: electrochemical impedance spectroscopy (EIS) to Localized Surface Plasmon Resonance (LSPR), surface acoustic waves (SAW) and beyond.....	25
<u>Noemi Petese</u> , Emanuele Piccinno, Ilaria Bujia, Angelo Milone, Anna Grazia Monteduro, Francesco Dituri, Silvia Rizzato, Angelo Leo, Gianluigi Giannelli, Giuseppe Maruccio	
Epicardial adipose tissue (EAT) and pericardial adipose tissue (PAT) as cell models to assess patient responsiveness to therapeutics.....	27
<u>Stefano Quarta</u> , Giuseppe Santarpino, Nadia Calabriso, Egeria Scoditti, Luisa Siculella, Fabrizio Damiano, Maria Annunziata Carluccio, Marika Massaro	
Le biotecnologie microbiche al servizio dell'economia circolare: strategie per la valorizzazione di sottoprodotti agroalimentari.....	28
<u>Francesca Anna Ramires</u> , Annamaria Tarantini, Giuseppe Romano, Leone D'Amico, Antonia Gallo, Gianluca Bleve	
Sintesi su misura e funzionalizzazione della biotina di nanosistemi di silice bicolore e loro potenziale per applicazioni biomediche	29
<u>Maria Antonietta Ramirez-Morales</u> , Elisa De Luca, Chiara Coricciati, Alberto Rainer, Giuseppe Gigli, Giuseppe Mele, Pier Paolo Pompa and Maria Ada Malvindi	

Harnessing the potential of Genome Editing in Wheat	30
<i>Andrea Tafuri, Samuel Palombieri, Francesco Sestili, Angelo Santino, Giovanni Mita and Ermelinda Botticella</i>	
Oleylethanolamide (OEA) restores skeletal muscle insulin signaling and mitochondrial energetics in rats fed on a high-fat diet	31
<i>Giordano Sorge, <u>Francesco Vari</u>, Marzia Friuli, Adele Romano, Silvana Gaetani, Daniele Vergara, Anna M. Giudetti</i>	
POSTER	33
Bio-production of natural phytostimulants and their application under abiotic stress conditions	35
<i>Chiara Anglana, Piergiorgio Capaci, Fabrizio Barozzi, Lucia Petrozza, Stephan Summerer, Angelo Petrozza, Gian Pietro Di Sansebastiano</i>	
Multifaceted carbon nanoparticles from spent coffee grounds for photo-induced and electrochemical applications	36
<i>Pagano R., Coccimiglio M, <u>Bettini S.</u>, Ottolini M., Giancane G., Valli L</i>	
Recovering inorganic biomaterials from seafood industry wastes: properties and applications of soft calcite extracted from mussel shells.....	37
<i>Martina <u>Carcagni</u>, Paola Semeraro, Francesco Milano, Maura Cesaria, Alessandra Zizzari, Francesca Lionetto, Gabriella Chieffo, Ludovico Valli, Livia Giotta</i>	
Protein Kinase C activation regulates NDRG1 expression	38
<i>Saponaro C., Damato M., Stanca E., <u>Cavallo V.</u>, Aboulouard S., Zito F.A., De Summa S., Schirosi L., Bravaccini S., Pirini F., Fonzi E., Tebaldi M., Puccetti M., Gaballo A., Pantalone L., Magnani L., Sergi D., Tinelli A., Tacconi S., Giudetti A.M., Siculella L., Fournier I., Salzet M., Trerotola M., Vergara D.</i>	
Extracellular vesicles derived from <i>Citrus limon</i>, <i>Punica granatum</i>, and <i>Actinidia deliciosa</i> modulate inflammation in Caco-2 cells	40
<i>Simona <u>Di Giulio</u>, Stefania Mariano, Elisabetta Carata, Elisa Panzarini</i>	
Acute toxicity of nanoplastics on <i>Artemia franciscana</i>: study of the effects of polyethylene terephthalate (PET) nanoplastics on the swimming behavior	41
<i>Antonella <u>Giacovelli</u>, Silvia Rizzato, Anna Grazia Monteduro, Francesca Lionetto, Carola Esposito Corcione, Alfonso Maffezzoli, Gayatri Udayan, Giuseppe Maruccio, Maria Giulia Lionetto</i>	
Lab-on-chip for phytopathogen monitoring.....	43
<i>Eleonora <u>Giannotta</u>, Erika Sabella, Anna Grazia Monteduro, Silvia Rizzato, Angelo Leo, Lilia Formica, Luigi de Bellis, Andrea Luvisi, Giuseppe Maruccio</i>	
Extraction and Valorization of Antioxidant Polyphenols from Olive Leaves Using Environmentally Friendly Solvents.....	45
<i>Francesco <u>Messa</u>, Serena Perrone, Francesco Milano, Antonio Salomone</i>	

Effetti dei metalli pesanti sullo stress del reticolo in Arabidopsis thaliana47

Pitardi S., De Benedictis M., Santino A.

**microRNA come biomarcatori di dolore muscolo scheletrico nei runners:
il protocollo dello studio MiMuS48**

Maria Rosaria Tumolo, Tiziana Grassi, Carlo Giacomo Leo, Pierpaolo Mincarone,
Francesco Bagordo, Antonella Bodini, Egeria Scoditti, Alessandra Panico, Antonella De Donno,
Elisabetta De Matteis, Vincenzo Canali, Saverio Sabina