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| 137 | Robotic platform for Focused Ultrasound Surgery   | Andrea Cafarelli     | Alessandro Di Dato, Andrea Schiappacasse, Selene Tognarelli, Gastone Ciuti, Arianna Mencassi  |
| 138 | Automatic Features selection in BCI-supported Motor Imagery practice for stroke Rehabilitation  | Mara Martinoia       | Francesca Schettini, Floriana Pichiorri, Emma Colamarino, Donatella Mattia, Febo Cincotti   |
| 139 | An ICT platform for independent living and remote health monitoring   | Silvia Macis         | Danilo Pani, Daniela Loi, Andrea Uligheri, Luigi Raffo  |
| 140 | Statistical evaluation of changes in brain connectivity at the single subject level   | Manuela Petti        | Jlenia Toppi, Floriana Pichiorri, Fabio Babiloni, Febo Cincotti, Donatella Mattia, Laura Astolfi  |
| 141 | Dyadic learning of motor control strategies in complex tasks  | Jacopo Zenzeri       | Edwin Johnathan Avila Mireles, Pietro Morasso, Dalia De Santis  |
| 142 | 3D bioprinting of aligned hydrogel fibers for the fabrication of artificial myo-structures with a microfluidic printing head            | MARCO COSTANTINI     | Cesare Gargioli, Pamela Mozetic, Marcella Trombetta, Stefano Cannata, Alberto Rainer  |
| 143 | Concentric-ring electrodes reduce crosstalk in surface EMG  | Emma Colamarino      | Enrico Merlo, Gennaro Boccia, Jlenia Toppi, Donatella Mattia, Febo Cincotti   |
| 144 | Stability over Finite Domains of 2D-Systems   | Francesco Amato      | Carlo Cosentino, Alessio Merola, Maria Romano, Mario Cesarelli  |
| 145 | First application of digital volume correlation to study the efficacy of prophylactic augmentation                                      | Valentina Danesi     | Gianluca Tozzi, Luca Cristofolini   |
| 146 | Experimental framework for human hand biomechanical analysis  | Francesca Cordella   | R.A. Romeo, A.G. Cutti, R. Sacchetti, A. Davalli, E. Guglielmelli, L. Zollo   |
| 147 | Relation between velocity and curvature of the trajectory in cursive handwriting  | Pierluigi D'Antrassi | Agostino Accardo  |
| 148 | Tendon tissue engineering: decellularization protocol for equine-derived tendon matrix  | Marco Ferroni        | PELEGATA, BOTTAGISIO, MORETTI, LOVATI, BOSCHETTI  |
| 149 | Identification of multiple U-turns using gyroscopes: comparative assessment of two methods  | Matilde Bertoli      | Andrea Cereatti, Ugo Della Croce  |

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| 150 | Evaluation of the center of rotation with MIMUs: impact of the experimental conditions                                    | Michele Crabolu             | Danilo Pani, Luigi Raffo, Andrea Cereatti  |
| 151 | Effective interhemispheric connectivity and corticospinal tract integrity interdependency after unilateral stroke         | Stefano Caschera            | Floriana Pichiorri, Manuela Pettì, Febo Cincotti, Laura Astolfi, Donatella Mattia  |
| 152 | A correlational study between speech-related features and alexithymia trait   | Andrea Guidi                | C. Gentili, E.P. Scilingo, N. Vanello  |
| 153 | A microfluidic stretchable device for generation of multiaxial deformation patterns                                       | Sara Maria Giannitelli      | Alessio Gizzi, Christian Cherubini, Luca Businaro, Marcella Trombetta, Alberto Rainer  |
| 154 | A wearable embedded platform for real-time hand neuroprostheses control   | Gianluca Barabino           | Danilo Pani, Luigi Raffo   |
| 155 | Fully textile electrodes for wearable electrophysiological signal monitoring systems                                      | Danilo Pani                 | Gianluca Barabino, Andrea Achilli, Beatrice Fraboni, Annalisa Bonfiglio  |
| 156 | On a Zero-Retroactivity Subtraction Module for Embedded Molecular Feedback Controllers                                    | Mariaconcetta Bilotta       | Carlo Cosentino, Alessio Merola, Maria Romano, Francesco Amato   |
| 157 | A computational framework to study physical human-human interaction   | Vinil Thekkedath Chackochan | Vittorio Sanguineti  |
| 158 | A novel sensitive and selective mechano-stimulation technology on genetically modified cells                              | Roberto Raiteri             | Camilo Rojas, Enrico Defranchi, Michele Fiore, Michael Pusch, Shy Shoam  |
| 159 | AFM investigation of mesothelial cells and mechanosensing of ECM with different stiffness                                 | Ida Musella                 | S. Fusco, V. Panzetta, M. De Menna, M. Volante, I. Rapa, PA Netti  |
| 160 | Identifying Functional Unknown Elements in Ribosomal RNA by Digital Signal Processing                                     | Norbert Maggi               | Patrizio Arrigo, Carmelina Ruggiero  |
| 161 | 3D tumor microtissues as testing platform for nanoparticles responsive to MMP-2 for on-demand release of anticancer drugs | Virginia Brancato           | Fiomena Gioiella, Martina Profeta, Giorgia Imparato, Daniela Guarneri, Francesco Urciuolo and Paolo Antonio Netti  |
| 162 | Correlation of COP-COM sway in postural evaluation of elderly subjects  | Paolo Colagiogio            | Fausto Romano, Angelo Buizza, Stefano Ramat Giorgia Imparato, Francesco Urciuolo, Paolo  |
| 163 | Engineering of a novel organotypic model of the human intestinal mucosa   | Vincenza De Gregorio        | Antonio Netti  |
| 164 | Collagen gradient on 3D printed scaffolds for interface tissue engineering  | Ugo D'Amora                 | Matteo D'Este, David Eglin, Fatemeh Safari, Antonio Gloria, Roberto De Santis, Mauro Alini, Luigi Ambrosio   |
| 165 | Development of chitosane derived scaffold for 3D engineered neuronal cultures   | Laura Pastorino             | Mariateresa Tedesco, Nicolò Colistra, Paolo Massobrio, Sergio Martinho   |
| 166 | Curcumin-biodistribution through biocompatible nano capsules for orale release in intestinal epithelia in vitro           | Angela Langella             | Vincenzo Calcagno, Vincenza De Gregorio, Giorgia Imparato, Francesco Urciuolo, Raffaele Vecchione, PA Netti  |
| 167 | Assessing the role of material features on the structuring of cell derived matrix   | Valerio Coppola             | Maurizio Ventre, Paolo Antonio Netti   |
| 168 | A microfluidic device for evaluation of collagen remodelling during tumor progression                                     | Filomena Gioiella           | Virginia Brancato, Giorgia Imparato, Francesco Urciuolo, Paolo Antonio Netti   |
| 169 | Nanomechanical Characterization of Healthy and Tumor Liver Tissues at Cell and Extracellular Matrix Level                 | Valeria Panzetta            | Sabato Fusco, Paolo Antonio Netti  |
| 170 | Clinical Validation of an Artificial Pancreas: From Hospital to Home  | Simone Del Favero           | Lalo Magni, Claudio Cobelli  |
| 171 | Comparison between methods for gait events detection in Parkinson's disease   | Laura Pinna                 | Andrea Mannini, Angelo Maria Sabatini, C.Dolciotti, Paolo Bongioanni, F. Saponara, Gianluca De Petris  |
| 172 | Nanotopographical Control of Neural Cells Assembly into Complex Networks  | Valentina Onesto            | Enzo Di Fabrizio, Mario Cesarelli, Maria Laura Coluccio, Natalia Malara, Francesco Amato, Francesco Gentile  |
| 173 | A data driven automatization of a multi-compartmental physical model of electrolyte balances during dialysis              | Domenico Vito               | Giustina Casagrande, Camilla Bianchi, Maria Laura Costantino   |
| 174 | Multiple variant callers and amplicon target resequencing in clinical bioinformatics                                      | Valentina Favalli           | M. Di Giovannantonio, E. Disabella, E. Arbustini   |
| 175 | Impact of hydrogel structure on MRI contrast agents relaxometric properties   | Alfonso Maria Ponsiglione   | Paolo Antonio Netti, Enza Torino   |
| 176 | Core-Shell Nanoparticles obtained by complex coacervation for multimodal applications                                     | DONATELLA VECCHIONE         | PAOLO ANTONIO NETTI, ENZA TORINO   |
| 177 | Microfluidic approach to entrap Gd-DTPA in cross-linked Hyaluronic Acid nanoparticles for enhancing MRI sensitivity       | Maria Russo                 | Paolo Antonio Netti, Enza Torino   |
| 178 | Scale-up of 3D-skin equivalent production process for cosmetics testing   | Francesca Rescigno          | Costantino Casale, Francesco Urciuolo, Paolo Antonio Netti   |
| 179 | Development of organotypic and vascularized in vitro skin models  | Claudia Mazio               | Costantino Casale, Francesco Urciuolo, Giorgia Imparato, Paolo Antonio Netti   |
| 180 | A chip based system for studying liver specific functions and drug toxicity   | Brunella Corrado            | Vincenza De Gregorio, Chiara Attanasio, Francesco Urciuolo, Giorgia Imparato, Paolo Antonio Netti  |
| 181 | Characterization of transcriptional regulations in chronic leukemia: a network-based approach                             | Elisabetta Sauta            | Francesca Vitali, Andrea Demartini, Riccardo Bellazzi  |
| 182 | FROM GAIT TO WALK ANALYSIS  | CHIARA BASILE               | S. Magnani, A.E. Cifani, P. Galasso, S. Zucchi, A. Bray, R. Saggini  |
| 183 | Organosulfur compounds loaded poly(lactic) acid fibrous mats for tissue regeneration                                      | Ilaria Cacciotti            | Matteo Ciocci, Francesca Nanni, Sonia Melino Enzo Di Fabrizio, Mario Cesarelli, Maria Laura Coluccio, Natalia Malara, Francesco Amato, Francesco Gentile |
| 184 | Information in networks of nerve cells on nano-structured surfaces  | Valentina Onesto            | E.Battista, F.Causa, P.A.Netti   |
| 185 | Core-shell microgels: synthesis and structural characterization   | Alessia Mazzarotta          | Edmondo Battista, Pasqualina Scognamiglio, Filippo Causa, Paolo Antonio Netti  |
| 186 | Ligand recognition in complex media at material interface   | Vincenzo Lettera            | RAVICHANDRAN H. KOLLARIGOWDA, SILVIA CAVALLI, PAOLO A. NETTI   |
| 187 | Azopolymer brushes as tunable cell-instructive materials  | CHIARA FEDELE               | Annunziata Cummaro, Vincenzo Lettera, Edmondo Battista, Filippo Causa, Paolo A. Netti  |
| 188 | Microgel Assay for miRNA analysis   | Tania Mariastella Caputo    | Carmela Rianna, Maurizio Ventre, Silvia Cavalli, Paolo A. Netti  |
| 189 | Dynamic reversible substrates to control cell behavior  | Lucia Rossano               |  |

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| 190 | Titanium craniofacial prostheses manufacturing using non-conventional forming processes  | Tommaso Villa                 | M.V. Caruso, G. Ambrogio, L. De Napoli, L. La Barbera, G. Palumbo, D. Sorgente, A. Piccininni, P. Guglielmi, G. Fragomeni   |
| 191 | ToolConnect: A Functional Connectivity Toolbox for the Analysis of in vitro Neural Networks  | Vito Paolo Pastore            | Aleksandar Godjoski, Sergio Martinoia, Paolo Massobrio  |
| 192 | Affecting Stem Cell Nuclear Stiffness with Nanopatterned Substrates  | Maurizio Ventre               | Anna Panico, Paolo Antonio Netti  |
| 193 | Photocrosslinkable polycaprolactone for the preparation of porous scaffolds by stereolithography   | Alfredo Ronca                 | Sara Ronca, Giuseppe Forte, Antonio Gloria, Roberto De Santis, Luigi Ambrosio   |
| 194 | Effect of arginine and sodium tripolyphosphate on the stability of chitosan electrosprun mats for soft tissue regeneration                                 | Paola Nitti                   | F. De Pascali, L. Natta, F. Scalera, F.Gervaso, A. Sannino  |
| 195 | Engineered 3D-human dermis equivalent model to study in vitro tissue repair  | Bernadette Lombardi           | Costantino Casale, Giorgia Imparato, Francesco Urciuolo, Paolo Netti  |
| 196 | Matrix Metallo-proteinase 2 Activated Prodrug Nanoparticles for on-demand Release of Doxorubicin in 3D tumor Spheroids                                     | Martina Profeta               | M. Cantisani, D. Guarneri, M. Biondi, V. Belli, L. Raiola, P. A. Netti  |
| 197 | Multifunctional Particles for Diagnostic tools using a microfluidic flow-focusing device   | Pasqualina Liana Scognamiglio | A. Mazzarotta, E. Battista, F. Causa, P.A. Netti  |
| 198 | Non-invasive glucose sensor based on enzyme functionalized organic transistor  | MAURIZIO CELENTANO            | RAFFAELE VECCHIONE, aNSHUMAN JAKHMOLA, PAOLO ANTONIO NETTI  |
| 199 | Nanoengineered platforms for in vitro skeletal muscle self-assembly  | Maria Iannone                 | Maurizio Ventre, Ombretta Guardiola, Gabriella Minchietti, Paolo Antonio Netti  |
| 200 | Polymeric scaffolds for controlled neoangiogenesis in tissue engineering   | Maria De Gregorio             | Chiara Attanasio, Lucio Rossi, Massimiliano Porzio, Emanuela Vilardi, Paolo Netti   |
| 201 | Two different approaches to assess the chitosan scaffold bioactivation for bone tissue engineering   | Ines Fasolino                 | Alessandra Soriente   |
| 202 | Oil in Water Nanoemulsions as Stable Template for Controlled Deposition of Biodegradable Polymer Nanocapsules  | giulia iaccarino              | R. Vecchione, R. Marotta, P. A. Netti   |
| 203 | Receptor quantification on cell lines: a new methodology based on the energetics of interactions   | Teresa Fotticchia             | Ieresa Fotticchia, Iolanda Fotticchia, Daniela Guarneri, Andrea Patrizia Falanga, Raffaele Vecchione, Concetta Giancola, Paolo Antonio Netti  |
| 204 | Engineering of DAP (Dose Area Product) Information for the Medical Record  | Nicoletta Scotti              | Mariagabriella Pugliese, Feliciano Pezuso, Sergio Casarella   |
| 205 | Viscoelastic induced single particle/cell investigation in microfluidic flow   | David Dannhauser              | Domenico Rossi, Filippo Causa, Paolo Antonio Netti  |
| 206 | Spectral encoded microgel readout system inflow for miRNA bioassay characterizations   | Domenico Rossi                | David Dannhauser, Edmondo Battista, Filippo Causa, Paolo Antonio Netti<br>Adelaide Greco, Sandra Albanese, Peppino Mirabelli, Antonella Zannetti, Crescenzo D'Alterio, Gennaro Di Maro, Francesca Maria Orlandella, Giuliana Salvatore, Andrea Soricelli, Marco Salvatore |
| 207 | High Frequency Ultrasound-guided procedures for the three Rs concept application   | Luigi Auletta                 |   |
| 208 | pH-sensitive nanoparticles for colon-targeted drug delivery  | Massimiliano Porzio           | Filippo Causa, P.A. Netti   |
| 209 | Fibrous scaffolds obtained by electrospinning for tissue regeneration  | Marta Putzu                   | Filippo Causa, Paolo Antonio Netti  |
| 210 | Effect of SWCNTs in poly(butylene cyclohexanedicarboxylate/diglycolate) random copolymer based nanocomposites: material properties and biological response | FRANCESCA LUZI                | E. Fortunati, I. Armentano, M. Gigli, R. Trotta, I. Bicchi, N. Lotti, A. Munari, M. Soccio, S. Martino, M. Gazzano, J. M. Kenny, L. Torre   |
| 211 | Emulsion templated silica-biopolymer nanocapsules for theranostic and co-delivery  | Vincenzo Calcagno             | R. Vecchione, G. Luciani, A. Jakhmola, B. Silvestri, P. A. Netti  |
| 212 | Microgels as functional material for advanced label-free fiber optic biosensor   | Anna Aliberti                 | Ricciardi, M. Giaquinto, A. Micco, M. Ruvo, A. Cutolo, A. Cusano  |
| 213 | Comparison of standard and minimally invasive decompression techniques for lumbar spinal stenosis  | Claudia Ottardi               | Francesco Costa, Alessandro Ortolina, Tito Bassani, David Volkheimer, Hans-Joachim Wilke, Fabio Galbusera, Tomaso Villa   |
| 214 | Chitosan-based scaffolds exhibit modular features induced by magnetic nanoparticles and L-arginine amino acid  | Stefania Scialla              | Roberta Canoci, Amilcare Barca, Barbara Palazzo, Francesca Scalera, Tiziano Verri, Alessandro Sannino, Francesca Gervaso  |
| 215 | Detection of Sensor Artifacts by Using Continuous Glucose Monitoring, Meal and Insulin Delivery Information  | Yenny Leal                    | Luis Gonzalez-Abril, Simone Del Favero, Andrea Facchinetto, Giovanni Sparacino and Claudio Cobelli  |
| 216 | Comparison of mechanical properties of neat, decellularized and coated tracheal tissues  | Montesanto                    | O. Fici, M. Cammarata, V. Brucato, V. La Carrubba, G. Baratta and M. Zingales   |
| 217 | Microwave spectroscopy for biomarker detection   | Roberto Chignola              | Paola Donato, Rita Massa, Edoardo Milotti   |
| 218 | Investigating nonalcoholic fatty liver disease in a 3D liver-on-a-chip device  | Manuele Gori                  | Maria Chiara Simonelli, Luca Businaro, Marcella Trombetta, Alberto Rainer   |