

Topic: Bioimmagini - Sessione: Lunedì 20 giugno mattina			
Id. 1	Image enhancement in Digital Cytology: towards the design of a novel process	Daniele Giansanti	Giovagnoli MR, Pochini M, Boschetto A., , Giovanni Maccioni
Id. 2	Image Processing of Ultra-terabyte Microscopic 3D Images	Giulio Iannello	Ludovica Acciai, Pierangelo Afferni, Alessandro Bria, Massimiliano Guarrasi, Hanchuan Peng, Paolo Soda
Id. 3	Ultrasound plane-wave imaging using DMAS beamforming: first simulation results	Giulia Matrone	Alessandro Stuart Savoia, Giosuè Caliano, Giovanni Magenes
Id. 4	Feasibility of constrained spherical deconvolution and probabilistic tractography in the pediatric clinical setting	Benedetta Toselli	Domenico Tortora, Mariasavina Severino, Giovanni Morana, Andrea Rossi, Marco Fato
Id. 5	The added value of structured report in medical imaging. How to define standards for radiological and ultrasonographic investigations and the opinion of the Health Technology Assessment	Manuela Stroili	Bertolotto Michele, Serena Elena
Id. 6	An automatic method to detect unreliable BF values on CT images of lung cancers	Silvia Malavasi	Alessandro Bevilacqua
Id. 7	Quantifying complexity of the cerebral cortex in normal aging using fractal dimension	Chiara Marzi	Stefano Ciulli, Stefano Diciotti
Id. 8	Development of digital phantoms in CT imaging for simulation of pulmonary emphysema	Stefano Diciotti	Alessandro Nobis, Stefano Ciulli, Nikolas Landini, Mario Mascalchi, Nicola Sverzellati, Bernardo Innocenti
Id. 9	Visual-like classification of lung tumour heterogeneity in DCE-CT sequences	Serena Baiocco	Domenico Barone, Giampaolo Gavelli, Alessandro Bevilacqua
Id. 10	CT Femur Alignment Before and After Total Hip Arthroplasty	Luigi Iuppriello	Paolo Bifulco, Massimiliano Fraldi, Luca Esposito, Paolo Gargiulo, Maria Romano, Mario Cesarelli
Id. 11	Tracing single neurons from mice cerebellum clarified tissue	alejandro luis callara	C. Magliaro, V. Positano, N. Vanello, A. Ahluwalia
Id. 12	A Radiomic approach to soft tissues sarcoma	Eros Montin	Valentina Dina Anita, Antonella Messina, Luca Tommaso Mainardi
Id. 13	Predicting cognitive performance in MCI patients with small vessel disease using diffusion MRI	Stefano Ciulli	Emilia Salvadori, Raffaella Valenti, Anna Poggesi, Domenico Inzitari, Mario Mascalchi, Nicola Toschi, Leonardo Pantoni, Stefano Diciotti
Id. 14	High Frequency Ultrasound-guided procedures for the three Rs concept application	Luigi Auletta	Adele Greco, Sandra Albanese, Peppino Mirabelli, Antonella Zannetti, Crescenzo D'Alterio, Gennaro Di Maro, Francesca Maria Orlandella, Giuliana Salvatore, Andrea Soricelli, Marco Salvatore

Topic: Elaborazione di dati e segnali biomedici - Sessione: Lunedì 20 giugno mattina			
Id. 15	An adaptive BCI based on Motor Imagery	Valeria Mondini	Anna Lisa Mangia, Angelo Cappello
Id. 16	Contactless video-based tracking of heart rate	Claudia Manfredi	Andrea Bandini, Silvia Orlandi, Alessandro Capo, Claudia Manfredi
Id. 17	A targeted metabolomics approach for mortality risk stratification in septic shock patients	Alice Cambiaghi	Laura Brunelli, Roberta Pastorelli, Manuela Ferrario
Id. 18	Multiscale modelling of mortality risk in a septic shock population	Marta Carrara	Giuseppe Baselli, Manuela Ferrario
Id. 19	Software-based enhancement of microfluidic impedance cytometry	Federica Caselli	Paolo Bisegna
Id. 20	A semi-automatic image processing procedure for thermographic analysis	Sara Matteoli	Davide Coppini, Andrea Corvi
Id. 21	Objective assessment of the Manual Lymph Drainage technique in chronic leg ulceration	Michele Sorelli	Leonardo Cantasano, Laura Rasero, Leonardo Bocchi
Id. 22	Movement analysis of the upper limb during common daily actions in Multiple Sclerosis subjects	Laura Pellegrino	Giorgia Stranieri, Gavina Salis, Andrea Tacchino, Giampaolo Brichetto, Maura Casadio
Id. 23	Assessing minimum continuous glucose monitoring sensor accuracy needed for non-adjunctive use	Martina Vettoretti	Andrea Facchinetti, Giovanni Sparacino, Claudio Cobel
Id. 24	Smart calibration of Continuous Glucose Monitoring sensors: utility of Bayes estimation	Giada Acciaroli	Martina Vettoretti, Andrea Facchinetti, Giovanni Sparacino, Claudio Cobelli
Id. 25	Altered EEG state during induced hypoglycemia in type 1 diabetes	Maria Rubega	Giovanni Sparacino, Anne-Sophie Sejling, Christoph Michel, Markus Gschwind
Id. 26	Cardio-respiratory control in Full-term Newborn and Late-Preterm One-Month Infants	Maristella Lucchini	Maria G. Signorini, William P. Fifer
Id. 27	Generic interactions between EEG global field power and end-tidal carbon dioxide to study brain-respiratory coupling	Maria Sole Morelli	Gaetano Valenza, Alberto Greco, Alberto Giannoni, Claudio Passino, Michele Emdin, Enzo Pasquale Scilingo, Luigi Landini, Nicola Vanello
Id. 28	Association between Smartphone-based Activity Monitoring and Traditional Clinical Assessment Tools in Community-Dwelling Older People	Alice Coni	Sabato Mellone, Marco Colpo, Stefania Bandinelli, Lorenzo Chiari
Id. 29	Entropy and uniformity as CT perfusion measures may predict survival in lung cancer	Serena Baiocco	Domenico Barone, Giampaolo Gavelli, Alessandro Bevilacqua
Id. 30	Neuroelectrical Signatures of Attentional Network Task	Alessandra Anzolin	Donatella Mattia, Jlenia Toppi, Angela Riccio, Floriana Pichiorri, Febo Cincotti, Laura Astolfi
Id. 31	Effectiveness of a consumer grade EEG amplifier for P300-based Brain Computer Interface Applications	Francesca Schettini	Virginia Vulcano, Angela Riccio, Donatella Mattia, Febo Cincotti
Id. 32	Towards Real Time Connectivity Estimation: a New Approach Based on Ridge Regression	Jlenia Toppi	Y. Antonacci, D. Mattia, L. Astolfi
Id. 33	Automatic Features selection in BCI-supported Motor Imagery practice for stroke Rehabilitation	Mara Martinoia	Francesca Schettini, Floriana Pichiorri, Emma Colamarino, Donatella Mattia, Febo Cincotti
Id. 34	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
Id. 35	Concentric-ring electrodes reduce crosstalk in surface EMG	Emma Colamarino	Enrico Merlo, Gennaro Boccia, Jlenia Toppi, Donatella Mattia, Febo Cincotti
Id. 36	Stability over Finite Domains of 2D-Systems	Francesco Amato	Carlo Cosentino, Alessio Merola, Maria Romano, Mario Cesarelli
Id. 37	Effective interhemispheric connectivity and corticospinal tract integrity interdependency after unilateral stroke	Stefano Caschera	Floriana Pichiorri, Manuela Petti, Febo Cincotti, Laura Astolfi, Donatella Mattia
Id. 38	A correlational study between speech-related features and alexithymia trait	Andrea Guidi	C. Gentili, E.P. Scilingo, N. Vanello
Id. 39	A wearable embedded platform for real-time hand neuroprostheses control	Gianluca Barabino	Daniilo Pani, Luigi Raffo
Id. 40	Detection of Sensor Artifacts by Using Continuous Glucose Monitoring, Meal and Insulin Delivery Information	Yenny Leal	Luis Gonzalez-Abril, Simone Del Favero, Andrea Facchinetti, Giovanni Sparacino and Claudio Cobelli

Topic: Biomeccanica del movimento umano - Sessione: Lunedì 20 giugno pomeriggio			
Id. 41	Inter-foot distance measured during gait with wearable IMU and IRR sensors	Nicolò Valeri	Diana Trojaniello, Andrea Cereatti, Kamiar Aminian, Ugo Della Croce
Id. 42	Locomotion in patients with Hereditary Spastic Paraparesis	Martina Rinaldi	Mariano Serrao, Alberto Ranavolo, Giovanni Martino, Luca Leonardi, Tiwana Varrecchia, Francesco Draicchio, Francesco Lacquaniti, Giorgia Chini, Carlo Casali, Francesco Pierelli
Id. 43	A sEMG-based approach for biomechanical risk assessment derived from the NIOSH equation	Tiwana Varrecchia	Alberto Ranavolo, Agnese Marchesi, Martina Rinaldi, Mariano Serrao, Mario Cesarelli, Silvia Conforto, Simona Del Ferraro, Vincenzo Molinaro, Alessio Silveti, Giovanna Rotriquenz, Francesco Draicchio

Id. 44	Correlation between clinical scales and quantitative analysis of balance and gait	Luigi Iuppriello	G. D'addio, P. Bifulco, M. Romano, F. Gallo, B. Lanzillo, M. Cesarelli
Id. 45	The influence of filtering on spatio-temporal gait parameters estimation from inertial sensors	Carlotta Caramia	Ivan Bernabucci, Benish Fida, Antonino Proto, Maurizio Schmid
Id. 46	Validation of a real-time gait event detection algorithm across different walking speeds	Benish Fida	Ivan Bernabucci, Daniele Bibbo, Carlotta Caramia, Maurizio Schmid
Id. 47	Sonification of pre and post rehabilitation writing	Federica De Dea	Agostino Accardo, Laura Cerni, Flavia Costa
Id. 48	Experimental framework for human hand biomechanical analysis	Francesca Cordella	R.A. Romeo, A.G. Cutti, R. Sacchetti, A. Davalli, E. Guglielmelli, L. Zollo
Id. 49	Relation between velocity and curvature of the trajectory in cursive handwriting	Pierluigi D'Antrassi	Agostino Accardo
Id. 50	Identification of multiple U-turns using gyroscopes: comparative assessment of two methods	Matilde Bertoli	Andrea Cereatti, Ugo Della Croce
Id. 51	Evaluation of the center of rotation with MIMUs: impact of the experimental conditions	Michele Crabolu	Daniilo Pani, Luigi Raffo, Andrea Cereatti
Id. 52	FROM GAIT TO WALK ANALYSIS	CHIARA BASILE	S. Magnani, A.E. Cifani, P. Galasso, S. Zucchi, A. Bray, R. Saggini
Id. 53	NNSVD Based Method to Extract Muscle Synergies	Mumtaz Hussain Soomro	Cristiano De Marchis, Silvia Conforto and Gaetano Giunta
Id. 54	Describing the effect of different visual biofeedback presentations on postural strategies in quiet stance: a case study	Carmen D'Anna	Daniele Bibbo, Michela Goffredo, Maurizio Schmid, Silvia Conforto
Id. 55	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

Topic: Biomeccanica strutturale - Sessione: Lunedì 20 giugno pomeriggio

Id. 56	Methods and procedures in bariatric surgery: a biomechanical approach	Emanuele Luigi Carniel	Alessandro Frigo, Chiara Giulia Fontanella, Lino Polese, Giulia Maria De Benedictis, Alessandro Rubini, Stefano Merigliano, Arturo Natali
Id. 57	Biomechanical behaviour of Hoffa's fat pad	Chiara Giulia Fontanella	Emanuele Luigi Carniel, Veronica Macchi, Alessandro Frigo, Andrea Porzionato, Raffaele De Caro, Arturo Natali
Id. 58	Mechanics of urethral duct: tissue constitutive formulation and numerical modelling with regard to lumen occlusion	Arturo N. Natali	Emanuele L. Carniel, Piero G. Pavan, Chiara Giulia Fontanella, Silvia Todros, Alessandro Frigo, Paola Pachera, Walter Artibani, Maria Angela Cerruto, Raffaele De Caro, Veronica Macchi, Andrea Porzionato, Alessandro Rubini, Laura Cavicchioli, Giulia Maria De Benedictis
Id. 59	Biomechanical analysis of synthetic surgical meshes for hernia repair	Silvia Todros	Paola Pachera, Piero G. Pavan, Nicola Baldan, Stefano Merigliano, Arturo N. Natali
Id. 60	Canine anterior cruciate ligament rupture: evaluation of functional recovery with multibody analysis	Mara Terzini	M. Gandaglia, M. Frapiccini, A. L. Audenino, P. Costa, E. M. Zanetti, C. Bignardi
Id. 61	A numerical approach to abdominal hernia repair with surgical mesh	Paola Pachera	P.G. Pavan, S. Todros, C.G. Fontanella, N. Baldan, S. Merigliano, A.N. Natali
Id. 62	Numerical modelling of human diaphragm mechanics: from fibres to whole muscle	Piero Pavan	L. Marucci, L. Toniolo, L. Cancellara, C. Reggiani, A.N. Natali

Topic: Biorobotica - Sessione: Lunedì 20 giugno pomeriggio

Id. 63	A new cardioscopic device for paravalvular leak repair	Margherita Mencattelli	Chunwoo Kim, Zurab Machaidze, Ignacio Berra, Benoit Rosa, Cesare Stefanini, Pierre E. Dupont
Id. 64	Toward biomorphic central pattern generator system for controlling lamprey robot	Elisa Donati	Giacomo Indiveri, Cesare Stefanini
Id. 65	A novel strategy for assisting Sit-to-Stand and Stand-to-Sit tasks through a lower-limb exoskeleton	Dario Marconi	Andrea Parri, Tingfang Yan, Francesco Giovacchini, Matteo Fantozzi, Mario Cortese, Raffaele Molino Lova, Nicola Vitiello
Id. 66	A Multi-Degree-of-Freedom Arm Exoskeleton with Compliant Actuators	Emilio Trigili	Simona Crea, Marco Cempini, Matteo Moise, Andrea Baldoni, Dario Marconi, Mario Cortese, Francesco Giovacchini, Federico Posteraro, Nicola Vitiello
Id. 67	Gait segmentation with a wearable non contact capacitive sensory system	Silvia Manca	Andrea Parri, Tingfang Yan, Enhao Zheng, Mario Cortese, Raffaele Molino-Lova, Nicola Vitiello
Id. 68	Kinematic and muscles activity assessment of upper limb in stroke survivors during reaching tasks	Maddalena Mugnosso	Amel Cherif, Laura Pellegrino, Psiche Giannoni, Lucio Marinelli, Maura Casadio
Id. 69	Multilevel control of an anthropomorphic prosthetic hand for grasp and slip prevention	A.L. Ciancio	R.A. Romeo, A. Davalli, R. Sacchetti, E. Guglielmelli, L. Zollo, Roberto Barone
Id. 70	A novel soft manipulator for assistive robotics based on soft fluidic actuators	Mariangela Manti	Andrea Pratesi, Matteo Cianchetti, Cecilia Laschi
Id. 71	Visual tracking based on retinal colour-opponency implemented through spiking neural networks on a humanoid robot	Lorenzo Vannucci	Alessandro Ambrosano, Ugo Albanese, Murat Kirtay, Egidio Falotico, Cecilia Laschi
Id. 72	A novel positioning system for surgical cannulae insertion procedure in spine surgery	Iacopo Portaccio	Simona Valentini, Nevio Luigi Tagliamonte, Fabrizio Russo, Rocco Papalia, Vincenzo Denaro, Gianluca Vadalà, Dino Accoto
Id. 73	Prototypes design and fabrication of bio-inspired distributed actuation systems	Aurora De Acutis	Andrea Baù, Giovanni Vozzi
Id. 74	Relationship between Neural and Muscular Recordings during Hand Control	Emiliano Noce	Loredana Zollo, Angelo Davalli, Rinaldo Sacchetti, Eugenio Guglielmelli
Id. 75	Disassembly Robotic Tasks for Circular Economy: a Preliminary Study	Paolo Dario	Annagiulia Morachioli, Ilaria Strazzulla, Cecilia Laschi, Fabio Bonsignorio
Id. 76	Robotic platform for Focused Ultrasound Surgery	Andrea Cafarelli	Alessandro Diodato, Andrea Schiappacasse, Selene Tognarelli, Gastone Ciuti, Arianna Mencias
Id. 77	A computational framework to study physical human-human interaction	Vinil Thekkedath Chackochan	Vittorio Sanguineti
Id. 78	Artificial Neural Network for Grasp Learning in a Synergy-based Framework	Damiano Zaccara	F. Ficuciello, D. Zaccara, and B. Siciliano

Topic: Controllo motorio e sensoriale - Sessione: Lunedì 20 giugno pomeriggio

Id. 79	Effect of negative velocity-dependent forces on reaching movements at different speeds	Susanna Summa	Maura Casadio, Vittorio Sanguineti
Id. 80	An Android application to assess attention deficits in persons with multiple sclerosis	Vittorio Sanguineti	Francesca Florio, Martina Venturini, Andrea Tacchino, Giampaolo Bricchetto
Id. 81	Dyadic learning of motor control strategies in complex tasks	Jacopo Zenzeri	Edwin Johnathan Avila Mireles, Pietro Morasso, Dalia De Santis
Id. 82	Correlation of COP-COM sway in postural evaluation of elderly subjects	Paolo Colagiorgio	Fausto Romano, Angelo Buizza, Stefano Ramat
Id. 83	Visuomotor Behaviour in 3D Visual Exploration: Dominant and Non-Dominant Eye	Silvio Sabatini	A. Gibaldi, A. Canessa, and S.P. Sabatini

Topic: Ingegneria della riabilitazione - Sessione: Lunedì 20 giugno pomeriggio

Id. 84	Development of a wearable multi-channel sEMG acquisition system	Giacinto Luigi Cerone	Marco Gazzoni
Id. 85	A Modular Telerehabilitation Architecture for Upper-limb Robotic Therapy	Loredana Zollo	Luca Vollero, Giulio Iannello, Eugenio Guglielmelli, Davide Simonetti
Id. 86	M-IMU and EMG signals for the control of trans-humeral prostheses	Clemente Laurettili	Angelo Davalli, Rinaldo Sacchetti, Eugenio Guglielmelli, Loredana Zollo

Topic: Biomateriali - Sessione: Martedì 21 giugno mattina

Id. 87	Study of Ink-jet Printed Sensors for Monitoring Cell Cultures	Sarah Tonello	Nicola Francesco Lopomo, Mauro Serpelloni, Marialaura Serzanti, Patrizia Dell'Era, Emilio Sardini
Id. 88	Elastic properties of Glass-Ceramic scaffolds through nanoindentation tests and microCT-based finite element models	Pasquale Vena	D. Gastaldi, C. Vitale Brovarone, F. Bairo
Id. 89	Trypsin-Resistant Adhesive Sequences for Biomaterial Surfaces Grafting	ANNJ ZAMUNER	PAOLA BRUN, IGNAZIO CASTAGLIUOLO, MONICA DETTIN
Id. 90	Surface modification of chitosan-based hydrogels by interaction with Poly Lactic Acid	Elena Dellacasa	Paola Petrini, Orietta Monticelli, Laura Pastorino
Id. 91	The effect of initial pH on in-situ synthesis of alginate-brushite hydrogel composite	Seyed Mohammad Hossein Dabiri	ALBERTO LAGAZZO, FABRIZIO BARBERIS, ELISABETTA FINOCHIO, LAURA PASTORINO
Id. 92	Selective functionalisation of bioabsorbable stents to promote fast endothelialisation	Irene Carmagnola	V Chiono, R Ortiz, I Quintana, S Pacharra, J Salber, S McMahon, C Lovell, P Basnett, B Lukaszewicz, R Nigmatullin, I Roy, G Ciardelli
Id. 93	Activation of Titanium surface with carboxyl groups as anchoring for bioactive molecules	Monica Orsini	Sofia Concolato, Giovanni Sotgiu, Marco Urbini
Id. 94	Fluid Dynamic Assessment of New PHVs Prototypes under Pulsatile Flow Condition and using PIV	Francesco De Gaetano	Marta Serrani, Joanna Stasiak, Jacob Brubert, Geoff D. Moggridge, Maria Laura Costantino
Id. 95	Different collagen-based films can differentially influence Schwann cell development in a peripheral nervous tissue regeneration system	Elisa Storelli	Alessandro Romano, Luca Salvatore, Amilcare Barca, Marta Madaghiele, Anna Laura Aloisi, Tiziano Verri, Carlo Storelli, Angelo Quattrini, Alessandro Sannino
Id. 96	In vivo enhancement of arteriogenesis using human cell-seeded composite scaffolds	Michele Carrabba	Carmelo De Maria
Id. 97	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
Id. 98	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
Id. 99	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
Id. 100	Assessing the role of material features on the structuring of cell derived matrix	Valerio Coppola	Maurizio Ventre, Paolo Antonio Netti
Id. 101	A microfluidic device for evaluation of collagen remodelling during tumor progression	Filomena Gioiella	Virginia Brancato, Giorgia Imparato, Francesco Urciuolo, Paolo Antonio Netti
Id. 102	Nanomechanical Characterization of Healthy and Tumor Liver Tissues at Cell and Extracellular Matrix Level	Valeria Panzetta	Sabato Fusco, Paolo Antonio Netti
Id. 103	Impact of hydrogel structure on MRI contrast agents relaxometric properties	Alfonso Maria Ponsiglione	Paolo Antonio Netti, Enza Torino
Id. 104	Core-Shell Nanoparticles obtained by complex coacervation for multimodal applications	DONATELLA VECCHIONE	PAOLO ANTONIO NETTI, ENZA TORINO
Id. 105	Microfluidic approach to entrap Gd-DTPA in cross-linked Hyaluronic Acid nanoparticles for enhancing MRI sensitivity	Maria Russo	Paolo Antonio Netti, Enza Torino
Id. 106	Scale-up of 3D-skin equivalent production process for cosmetics testing	Francesca Rescigno	Costantino Casale, Francesco Urciuolo, Paolo Antonio Netti
Id. 107	Development of organotypic and vascularized in vitro skin models	Claudia Mazio	Costantino Casale, Francesco Urciuolo, Giorgia Imparato, Paolo Antonio Netti
Id. 108	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
Id. 109	Organosulfur compounds loaded poly(lactic) acid fibrous mats for tissue regeneration	Ilaria Cacciotti	Matteo Ciocci, Francesca Nanni, Sonia Melino
Id. 110	Core-shell microgels: synthesis and structural characterization	Alessia Mazzarotta	E. Battista, F. Causa, P.A. Netti
Id. 111	Ligand recognition in complex media at material interface	Vincenzo Lettera	Edmondo Battista, Pasqualina Scognamiglio, Filippo Causa, Paolo Antonio Netti
Id. 112	Azopolymer brushes as tunable cell-instructive materials	CHIARA FEDELE	RAVICHANDRAN H. KOLLARIGOWDA, SILVIA CAVALLI, PAOLO A. NETTI
Id. 113	Microgel Assay for miRNA analysis	Tania Mariastella Caputo	Annunziata Cummaro, Vincenzo Lettera, Edmondo Battista, Filippo Causa, Paolo A. Netti
Id. 114	Dynamic reversible substrates to control cell behavior	Lucia Rossano	Carmela Rianna, Maurizio Ventre, Silvia Cavalli, Paolo A. Netti
Id. 115	Affecting Stem Cell Nuclear Stiffness with Nanopatterned Substrates	Maurizio Ventre	Anna Panico, Paolo Antonio Netti
Id. 116	Photocrosslinkable polycaprolactone for the preparation of porous scaffolds by stereolithography	Alfredo Ronca	Sara Ronca, Giuseppe Forte, Antonio Gloria, Roberto De Santis, Luigi Ambrosio
Id. 117	Engineered 3D-human dermis equivalent model to study in vitro tissue repair	Bernadette Lombardi	Costantino Casale, Giorgia Imparato, Francesco Urciuolo, Paolo Netti
Id. 118	Matrix Metallo-proteinase 2 Activated Prodrug Nanoparticles for on-demand Release of Doxorubicin in 3D tumor Spheroids	Martina Profeta	M. Cantisani, D. Guarnieri, M. Biondi, V. Belli, L. Raiola, P. A. Netti
Id. 119	Nanoengineered platforms for in vitro skeletal muscle self-assembly	Maria Iannone	Maurizio Ventre, Ombretta Guardiola, Gabriella Minchiotti, Paolo Antonio Netti
Id. 120	Polymeric scaffolds for controlled neoangiogenesis in tissue engineering	Maria De Gregorio	Chiara Attanasio, Lucio Rossi, Massimiliano Porzio, Emanuela Vilardi, Paolo Netti
Id. 121	Two different approaches to assess the chitosan scaffold bioactivation for bone tissue engineering	Ines Fasolino	Alessandra Soriente
Id. 122	Oil in Water Nanoemulsions as Stable Template for Controlled Deposition of Biodegradable Polymer Nanocapsules	giulia iaccarino	R. Vecchione, R. Marotta, P. A. Netti
Id. 123	Receptor quantification on cell lines: a new methodology based on the energetics of interactions	Teresa Fotticchia	Teresa Fotticchia, Iolanda Fotticchia, Daniela Guarnieri, Andrea Patrizia Falanga, Raffaele Vecchione, Concetta Giancola, Paolo Antonio Netti
Id. 124	pH-sensitive nanoparticles for colon-targeted drug delivery	Massimiliano Porzio	Filippo Causa, P.A. Netti
Id. 125	Fibrous scaffolds obtained by electrospinning for tissue regeneration	Marta Putzu	Filippo Causa, Paolo Antonio Netti
Id. 126	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
Id. 127	Microgels as functional material for advanced label-free fiber optic biosensor	Anna Aliberti	Ricciardi, M. Giaquinto, A. Micco, M. Ruvo, A. Cutolo, A. Cusano
Id. 128	surface functionalization of polyurethane films with dendrons for stem cell culture	Nicola Contessi	Serena Bertoldi, Steve Meikle, Anna Guilford, Silvia Farè, Matteo Santin, Maria Cristina Tanzi
Id. 129	Design of Nanoparticle Probe for MRI Detection of Atherosclerotic Plaques	Franca De Sarno	P. A. Netti, E. Torino

Topic: Ingegneria tissutale e medicina rigenerativa - Sessione: Martedì 21 giugno pomeriggio			
Id. 130	The effect of physical constraints on the function of cultured embryonic stem cells	Michele Maria Nava	Alessio Piuma, Marina Figliuzzi, Barbara Bonandrini, Tommaso Zandrini, Giulio Cerullo, Roberto Osellame, Andrea Remuzzi, Manuela Teresa Raimondi
Id. 131	Cellular Impedance Monitoring in a Bioreactor for Biological Barrier In-Vitro Models	Ludovica Cacopardo	Giusti, Barros, Pego, Alhuwalia
Id. 132	Characterization and biofabrication of a pH-sensible hydrogel	Carmelo De Maria	I Chiesa, S Angeli, A De Acutis, F Montemurro, G Mattei, AM Smith, A Saiani, G Vozi
Id. 133	3D tumor microtissues as testing platform for nanoparticles responsive to MMP-2 for on-demand release of anticancer drugs	Virginia Brancato	Filomena Gioiella, Martina Profeta, Giorgia Imperato, Daniela Guarnieri, Francesco Urciuolo and Paolo Antonio Netti
Id. 134	Engineering of a novel organotypic model of the human intestinal mucosa	Vincenza De Gregorio	Giorgia Imperato, Francesco Urciuolo, Paolo Antonio Netti
Id. 135	Effect of arginine and sodium tripolyphosphate on the stability of chitosan electrospun mats for soft tissue regeneration	Paola Nitti	F. De Pascali, L. Natta, F. Scalera, F. Gervaso, A. Sannino
Id. 136	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
Id. 137	Investigating nonalcoholic fatty liver disease in a 3D liver-on-a-chip device	Manuele Gori	Maria Chiara Simonelli, Luca Businaro, Marcella Trombetta, Alberto Rainer

Topic: Dispositivi, sistemi e tecnologie diagnostiche e terapeutiche - Sessione: Martedì 21 giugno pomeriggio			
Id. 138	A procedure for the autonomic diagnosis of esophageal motility disorders	Alessandro Frigo	Emanuele Luigi Carniel, Mario Costantini, Renato Salvador, Stefano Merigliano, Arturo N Natali
Id. 139	Cognitive rehabilitation in multiple sclerosis: an app for attention and memory at-home interventions	Andrea Tacchino	Ludovico Pedullà, Giampaolo Bricchetto
Id. 140	CT study of the tissue shrinkage occurring during a microwave thermal ablation procedure	Laura Farina	Vanni Lopresto, Rosanna Pinto, Daniela D'Alessio, Silvia Minosse, Lidia Strigari, Marta Cavagnaro
Id. 141	Training in ultrasound: an hybrid simulator for diagnostic and interventistic procedure	Sara Sinceri	M. Carbone, C. Freschi, G. di Candio, V. Ferrari, M. Ferrari
Id. 142	Screen-Printed Biosensors for the Early Detection of Biomarkers Related to Alzheimer Disease	Sarah Tonello	Mauro Serpelloni, Nicola Francesco Lopomo, Giulia Abate, Daniela Letizia Uberti, Emilio Sardini
Id. 143	In situ laser fenestration of a standard stent graft	Roberta Piazza	Sara Condino, Francesca Rossi, Vincenzo Ferrari, Mauro Ferrari
Id. 144	CardioMon: an implantable catheter with a 3D gyro for continuous monitoring of cardiac rotation	Laura Cercenelli	Barbara Bortolani, Emanuela Marcelli
Id. 145	A portable device based on a custom IC for impedance measurement in neural interfaces	Caterina Carboni	Roberto Puddu, Lorenzo Bisoni, Luigi Raffo, Massimo Barbaro
Id. 146	Patient-specific modelling of multi-compartment fluid and mass exchange during dialysis	Camilla Bianchi	Giustina Casagrande, Maria Laura Costantino
Id. 147	Ocular surface temperature in healthy subjects: a preliminary study	Sara Matteoli	Federica Vannetti, Salome Tchuente, Andrea Corvi
Id. 148	Closed-Loop Control Benefits of A New Insulin Formulation: Assessment using the University of Virginia/Padova Type 1 Diabetes Simulator	Michele Schiavon	Mirko Messori, Chiara Dalla Man, Lalo Magni, Claudio Cobelli
Id. 149	The UVA/Padova Type 1 Diabetes Simulator for Optimizing the Dosing Regimen of Inhaled Insulin	Roberto Visentin	Thomas Klabunde, Marshall Grant, Chiara Dalla Man, Claudio Cobelli
Id. 150	Fully textile electrodes for wearable electrophysiological signal monitoring systems	Daniilo Pani	Gianluca Barabino, Andrea Achilli, Beatrice Fraboni, Annalisa Bonfiglio
Id. 151	Clinical Validation of an Artificial Pancreas: From Hospital to Home	Simone Del Favero	Lalo Magni, Claudio Cobelli
Id. 152	Multifunctional Particles for Diagnostic tools using a microfluidic flow-focusing device	Pasqualina Liana Scognamiglio	A. Mazzarotta, E. Battista, F. Causa, P.A. Netti
Id. 153	Non-invasive glucose sensor based on enzyme functionalized organic transistor	MAURIZIO CELENTANO	RAFFAELE VECCHIONE, ANSHUMAN JAKHMOLA, PAOLO ANTONIO NETTI
Id. 154	Viscoelastic induced single particle/cell investigation in microfluidic flow	David Dannhauser	Domenico Rossi, Filippo Causa, Paolo Antonio Netti
Id. 155	Spectral encoded microgel readout system inflow for miRNA bioassay characterizations	Domenico Rossi	David Dannhauser, Edmondo Battista, Filippo Causa, Paolo Antonio Netti
Id. 156	Emulsion templated silica-biopolymer nanocapsules for theranostic and co-delivery	Vincenzo Calcagno	R. Vecchione, G. Luciani, A. Jakhmola, B. Silvestri, P. A. Netti
Id. 157	Microwave spectroscopy for biomarker detection	Roberto Chignola	Paola Donato, Rita Massa, Edoardo Milotti
Id. 158	Soft-Rigid Collision Algorithm for Surgery Realistic Simulation in an Open-Source Engine	Francesco Fazioli	F. Ficuciello, G. A. Fontanelli, B. Siciliano and L. Villani

Topic: Tecnologie nano, micro e indossabili - Sessione: Martedì 21 giugno pomeriggio			
Id. 159	Measurement of the inter-foot distance using a Time-of-Flight proximity sensor: preliminary evaluation during leg oscillation exercises	Stefano Bertuletti	Andrea Cereatti, Michele Caldara, Ugo Della Croce
Id. 160	Reconfigurable optical setup for solution concentration detection in rectangular capillary	Giulia Rigamonti	Francesca Carpignano
Id. 161	A miniaturized in vitro 3D model to assess the neuroprotective effect of mesenchymal stromal cell secretome on neuroblastoma cells exposed to oxidative stress	Lucia Boeri	Marta Tunesi, Carmen Giordano, Diego Albani, Manuela Teresa Raimondi
Id. 162	Metal-enhanced fluorescence on gold nanoparticles clusters	Edmondo Battista	Maria Laura Coluccio, Marianna Barberio, Enzo Di Fabrizio, Paolo Antonio Netti, Francesco Gentile

Topic: Informatica medica - Sessione: Martedì 21 giugno pomeriggio			
Id. 163	Information Extraction from Italian medical reports: first steps towards clinical timelines development	Lucia Sacchi	Valentina Tibollo, Carlo Napolitano, Silvia G. Priori, Riccardo Bellazzi, Cristiana Larizza, Natalia Viani
Id. 164	Supporting utility coefficient elicitation in a shared-decision making context	Elisa Salvi	Enea Parimbelli, Silvana Quaglini, Lucia Sacchi
Id. 165	A decision support system for managing chemo-radiotherapy side effects in patients with head and neck cancer	Elisa Maria Zini	Giordano Lanzola, Paolo Bossi, Lisa Licitra, Silvana Quaglini
Id. 166	Using MetaMap to extract medical concepts from unstructured clinical notes written in Italian	Gabriella Tognola	Alessia Paglialonga, Francesco Pincirolì, Emma Chiaramello

Topic: Telemedicina - Sessione: Martedì 21 giugno pomeriggio			
Id. 167	Continuous glucose monitoring improves euglycemic range in preterm infants vs. conventional sparse sampling: necessity of a glucose telemonitoring service in neonatal intensive care units	Eleonora Losiouk	Giordano Lanzola, Alfonso Galderisi, Daniele Trevisanuto, Garry Steil, Andrea Facchinetti, Claudio Cobelli
Id. 168	An ICT platform for independent living and remote health monitoring	Silvia Macis	Daniilo Pani, Daniela Loi, Andrea Ulgheri, Luigi Raffo

Topic: Ingegneria clinica - Sessione: Martedì 21 giugno pomeriggio			
Id. 169	The innovation in the ICT and new Models of distance e-learning in the Health Sciences	Elia Campana	Maria Rosaria Giovagnoli, Daniele Giansanti
Id. 170	Towards the testing of Whatsapp for Digital Cytology Teleconsulting	Anna Maria Palozzi	Daniele Giansanti, Maria Rosaria Giovagnoli
Id. 171	Telemedicine: from technological experiment to a new cultural model and for the Welfare State	Antonietta Perrone	Alessandra Zannettone, Giuseppe Fuschino, Mauro Ferola, Aniello Leonardo Caracciolo
Id. 172	Medical - IT Network: il progetto di incorporazione di un'innovativa apparecchiatura per radioterapia oncologica	Antonietta Perrone	Alessandra Zannettone, Giuseppe Fuschino, Roberto Pacelli
Id. 173	Engineerization of DAP (Dose Area Product) Information for the Medical Record	Nicoletta Scotti	Mariagabriella Pugliese, Feliciano Pezioso, Sergio Casarella

Topic: Biologia computazionale - Sessione: Mercoledì 22 giugno mattina			
Id. 174	Synthesis and activity of computer-designed nanovectors for gene and drug delivery	Sabrina Pricl	Erik Laurini, Domenico Marson, Paola Posocco, Maurizio Fermeglia
Id. 175	Bursting and Spiking Effectiveness in Evoking Pituitary Hormone Secretion: a Spatiotemporal Simulation Study of Calcium Diffusion and Exocytosis	Alessia Tagliavini	Joel Tabak, Richard Bertram, Morten Gram Pedersen
Id. 176	Control of gene expression for the study of neurodegenerative disorders	Giansimone Perrino	Cathal Wilson, Marco Santorelli, Diego di Bernardo
Id. 177	Microfluidic-based automatic control of gene expression in mammalian cells	Lorena Postiglione	Diego di Bernardo
Id. 178	Modeling HPV early promoter gene expression	Alberto Giaretta	Elena Bergamo, Barbara Di Camillo, Luisa Barzon, Gianna Maria Toffolo
Id. 179	Two-domain peptides to promote surface bio-activation of gold: a molecular dynamics study	Chiara Cosenza	F. Causa and P.A. Netti

Topic: Biologia sintetica - Sessione: Mercoledì 22 giugno mattina			
Id. 180	Study of a genetic negative feedback controller via bottom-up approach and mathematical modelling	Massimo Bellato	L. Pasotti, F. Castronuovo, N. Politi, M. Casanova, I. Massaiu, S. Zucca, M.G. Cusella De Angelis, P.Magni

Topic: System biology - Sessione: Mercoledì 22 giugno mattina			
Id. 181	Mechanically-tuned alginate gels as new 3D breast cancer models	Marta Cavo	Marco Fato, Francesco Beltrame, Silvia Scaglione
Id. 182	On a Zero-Retroactivity Subtraction Module for Embedded Molecular Feedback Controllers	Mariaconcetta Bilotta	Carlo Cosentino, Alessio Merola, Maria Romano, Francesco Amato
Id. 183	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

Topic: Neuroinformatica - Sessione: Mercoledì 22 giugno mattina			
Id. 184	ToolConnect: A Functional Connectivity Toolbox for the Analysis of in vitro Neural Networks	Vito Paolo Pastore	Aleksandar Godjoski, Sergio Martinoia, Paolo Massobrio

Topic: Neuroingegneria - Sessione: Mercoledì 22 giugno mattina			
Id. 185	Neurometric Evaluation of Effective and Ineffective Antismoking PSAs	Dario Rossi	Giulia Cartocci, Enrica Modica, Anton Giulio Maglione, Isotta Venuti, Giulia Rossi, Elena Corsi, Fabio Babiloni
Id. 186	Evaluation of the Emotional Index elicited by the listening of Dante's Divine Comedy	Enrica Modica	Giulia Cartocci, Dario Rossi, Anton Giulio Maglione, Paolo Canettieri, Mariella Combi, Roberto Rea, Luca Gatti, Carmen Silvia Perrotta, Roberto Verdirosa, Roberta Bernaudo, Elena Lerosé, Fabio Babiloni
Id. 187	A DTW-based Method for Detecting Electrically Evoked Auditory Brainstem Responses	Michela Goffredo	Cecilia Di Nardi, Sara Giannantonio, Alessandro Scorpecci, Angelo Ingrosso, Paolo Malerba, Silvia Conforto, Pasquale Marsella
Id. 188	A novel sensitive and selective mechano-stimulation technology on genetically modified cells	Roberto Raiteri	Camilo Rojas, Enrico Defranchi, Michele Fiore, Michael Pusch, Shy Shoam
Id. 189	Development of chitosane derived scaffold for 3D engineered neuronal cultures	Laura Pastorino	Mariateresa Tedesco, Nicolò Colistra, Paolo Massobrio, Sergio Martinoia
Id. 190	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
Id. 191	Information in networks of nerve cells on nano-structured surfaces	Valentina Onesto	Enzo Di Fabrizio, Mario Cesarelli, Maria Laura Coluccio, Natalia Malara, Francesco Amato, Francesco Gentile

Topic: Bioinformatica - Sessione: Mercoledì 22 giugno mattina			
Id. 192	Integrated network analysis for studying human lung squamous cell carcinoma	Giulia Fiscon	Federica Conte, Teresa Colombo, Lorenzo Farina, Paola Paci
Id. 193	A Neural Network Approach to Human Posture Classification using RGB-D Camera	Alessandro Manzi	Filippo Cavallo, Paolo Dario
Id. 194	GeenaR: a flexible approach to pre-process, analyse and compare MALDI-ToF mass spectra	Eugenio Del Prete	Angelo Facchiano, Aldo Profumo, Claudia Angelini, Paolo Romano
Id. 195	Molecular Modelling to Investigate Protein Misfolding and Aggregation in Neurodegenerative Spinocerebellar Ataxia	Gianvito Grasso	Marco Agostino Deriu, Jack Adam Tuszynski, Andrea Danani, Umberto Morbiducci
Id. 196	Identifying Functional Unknown Elements in Ribosomal RNA by Digital Signal Processing	Norbert Maggi	Patrizio Arrigo, Carmelina Ruggiero
Id. 197	A data driven automatization of a multi-compartmental physical model of electrolyte balances during dialysis	Domenico Vito	Giustina Casagrande, Camilla Bianchi, Maria Laura Costantino
Id. 198	Multiple variant callers and amplicon target resequencing in clinical bioinformatics	Valentina Favalli	M. Di Giovannantonio, E. Disabella, E. Arbustini
Id. 199	Characterization of transcriptional regulations in chronic leukemia: a network-based approach	Elisabetta Sauta	Francesca Vitali, Andrea Demartini, Riccardo Bellazzi

Topic: Modellistica matematica - Sessione: Mercoledì 22 giugno mattina			
Id. 200	Evaluation of a tumor growth inhibition (TGI) model integrating dynamic energy budget (DEB) theory	Elena Maria Tosca	Elisa Borella, Nadia Terranova, Maurizio Rocchetti, Paolo Magni
Id. 201	SIMULATING THE ELECTROMECHANICAL RESPONSE OF A CARDIAC VENTRICULAR WEDGE AFFECTED FROM CONCENTRIC HYPERTROPHY: EFFECTS OF GROWTH AND FIBER DISPERSION	FABRIZIO DEL BIANCO	PIERO COLLI FRANZONE, SIMONE SCACCHI, LORENZO FASSINA
Id. 202	Simulation Framework to Optimize Parameters of Open-Loop Insulin Therapy in Type 1 Diabetes Patients	Giacomo Cappon	Martina Vettoretti, Andrea Facchinetti, Giovanni Sparacino, Claudio Cobelli
Id. 203	Exploiting mathematical modelling to address the enigmas of glucagon secretion	Francesco Montefusco	Morten Gram Pedersen
Id. 204	Viscoelasticity-assisted particle manipulation in microfluidics	Gaetano D'avino	F. Del Giudice, M. Trofa, M.M. Villone, M. De Corato, F. Greco, and P.L. Maffettone
Id. 205	Manipulation of soft particles in microfluidics	Massimiliano Villone	F. Del Giudice, M. Trofa, M. De Corato, G. D'Avino, F. Greco, and P.L. Maffettone

SESSIONE POSTER ESB 22 giugno pomeriggio

ESB 1	Modelling Right Heart Failure in Patients with Pulmonary Hypertension	Francesco Scardulla	Mercadante P., Pasta S., Bellavia D., Scardulla C.
ESB 2	Enzymatically Stiffenable Gelatin Hydrogels for Engineering Pathophysiological Organ Models	Ludovica Cacopardo	Mattei, Ahluwalia
ESB 3	Numerical comparison of fatigue criteria for NiTi cardiovascular devices	Migliavacca	Petrini, Wu, Pennati, Dario Allegretti
ESB 4	Biomechanical evaluation of skin lesions: a combined approach.	Elena Cutri	Crippa, Franzetti, Mortin, Spadola, Testori, Mainardi, Pennati
ESB 5	Mechanical characterization of polymeric microspheres through micro-compression testing	Gianpaolo Serino	Valentina Crognale, Costantino Del Gaudio, Umberto Morbiducci, Alberto L. Audenino
ESB 6	Tendon tissue engineering: decellularization protocol for equine-derived tendon matrix	Marco Ferroni	PELLEGATA, BOTTAGISIO, MORETTI, LOVATI, BOSCHETTI
ESB 7	Comparison of mechanical properties of neat, decellularized and coated thacheal tissues	Giuseppe Baratta	Salvatore Montesanto, Ornella Fici, Marcello Cammarata, Valerio Brucato, Vincenzo La Carruba, Massimiliano Zingales