

GNB2014 sessione poster Ingegneria delle cellule e tessuti, Biomateriali, Neuroingegneria

T-1 Luisa Mancuso, Alice Gualerzi, Federica Boschetti, Francesco Loy and Giacomo Cao. Analysis of the Decellularization Process of Ovine Carotids as Small-diameter Vascular Grafts
T-2 Fabrizio Del Bianco, Piero Colli Franzone, Simone Scacchi and Lorenzo Fassina. Electromechanical modelling and in silico analysis of a rat cardiac syncytium
T-3 Vanessa Guadagnin, Marta Parazzini, Ilaria Liorni, Serena Fiocchi and Paolo Ravazzani. Deep Transcranial Magnetic Stimulation: Estimation of the Electric Field Induced by Different Coil Configurations in a Realistic Human Head Model
T-4 Annj Zamuner, Sabrina Facciolo, Laura Iop, Michele Spina, Roberta Danesin, Monica Dettin and Gino Gerosa. Towards self-seeding heart valve formulation: integration between biological matrix and synthetic bio-inspired hydrogels
T-5 Elena Dellacasa, Laura Pastorino, Silvia Scaglione, Massimo Giulianelli, Francesca Sbrana, Massimo Vassalli and Carmelina Ruggiero. Oriented collagen thin films for biomedical applications
T-6 Laura Pastorino, Paola Petrini, Fabiola Munarin, Elena Dellacasa and Carmelina Ruggiero. Polysaccharide-based nanostructured micro-capsules for mucosal drug delivery
T-7 Alessia Patrucco, Marina Zoccola, Livia Visai, Lorenzo Fassina and Claudio Tonin. Keratin Biomaterials for tissue engineering
T-8 Paola Occhetta, Matteo Centola, Beatrice Tonnarelli, Alberto Redaelli, Ivan Martin and Marco Rasponi. High-Throughput Microfluidic Platform for the In Vitro Recapitulation of the Endochondral Development Pathway
T-9 Paola Occhetta, Chiara Malloggi, Andrea Gazaneo, Alberto Redaelli, Gabriele Candiani and Marco Rasponi. High-Throughput Microfluidic Platform for Adherent Single Cell Screening
T-10 Monica Frega, Mariateresa Tedesco, Paolo Massobrio and Sergio Martinoia. 3D neural networks coupled to Micro Electrode Arrays: a new experimental model for neuro-electronic interfaces
T-11 Daniele Poli , Vito Paolo Pastore, Paolo Massobrio and Sergio Martinoia . Partial correlation analysis for functional connectivity studies in cortical networks
T-12 Giorgio Mattei, Annalisa Tirella, Margherita La Marca, Daniela Giacobelli, Nicola Tirelli and Arti Ahluwalia. Enzyme-responsive scaffolds for engineering pathophysiological 3D in-vitro organ models
T-13 Serena Bertoldi, Davide Cilli, Silvia Farè, Maria Cristina Tanzi and Justin Cooper-White. Biomimetically-functionalized polyurethane-gelatin scaffold for meniscal tissue engineering
T-14 Simona Marzorati, Serena Bertoldi, Rita Nano, Lorenzo Piemonti and Silvia Farè. A novel gelatin-based hydrogel to enhance viability and functionality of pancreatic islet
T-15 Francesca Maria Carla Carpignano, Gloria Silva, Salvatore Surdo, Francesca Aredia, Anna Ivana Scovassi, Giuseppe Barillaro, Giuliano Mazzini and Sabina Merlo. Label-free reconstruction of cell extension grown in a 3D environment
T-16 Valentina Di Patria, Mariano Troncone, Annalisa Tirella and Arti Ahluwalia. Micro- and porous-physiopathological liver replica
T-17 Gianni Orsi , Carmelo De Maria, Francesca Montemurro, Chiara Andreoni and Giovanni Vozzi. Making hydrogels with 3D stiffness gradients with a novel 3D concentration gradient bioreactor
T-18 Francesca Gattazzo, Gianni Orsi and Giovanni Vozzi. Micro-patterned gelatin-genepin hydrogel for skeletal muscle tissue engineering

T-19 Daniele Cei, Arti Devi Ahluwalia and Otmar Schmid. Development of a dynamic model of the alveolar interface for the study of aerosol deposition
T-20 Carmelo De Maria, Aurora De Acutis, Michele Carrabba, Giuseppe Criscenti and Giovanni Vozzi. Machine design for multi-material processing
T-21 Anna Lapomarda, Francesca Montemurro, Carmelo De Maria, Marta Giussani, Tiziana Triulzi, Elda Tagliabue and Giovanni Vozzi. Mechanical characterization of ECM3 tumour and polymeric scaffolds for their modelling in vitro
T-22 Emilia Gioffredi, Monica Boffito, Valeria Chiono, Susanna Sartori, Sara Maria Giannitelli, Pamela Mozetic, Alberto Rainer and Gianluca Ciardelli. Biomimetic scaffolds for the regeneration of myocardial tissue: mechanical characterization
T-23 Simone Micalizzi, Aurora De Acutis, Carmelo De Maria and Giovanni Vozzi. Finite element modelling of temperature dependent microextrusion
T-24 Guido Caluori, Roberto Raiteri, Mariateresa Tedesco and Henry Hermel Andrade Caicedo. A novel AFM-based technique for measuring coupled phenomena in cardiac myocytes
T-25 Francesco Petrini, Stanisa Raspopovic, Marco Bonizzato, Federica Giambattistelli, Loredana Zollo, Eugenio Guglielmelli and Silvestro Micera. Analysis of efferent microneurography recordings for applications of ENG-driven neuroprosthesis
T-26 Giulia Regalia, Emilia Biffi, Silvia Achilli, Andrea Menegon, Giancarlo Ferrigno and Alessandra Pedrocchi . A platform for long-term neuronal recordings guaranteeing incubator-like conditions
T-27 Marco Rasponi, Andrea Gazaneo, Arianna Bonomi, Paola Occhetta, Loredana Cavicchini, Valentina Coccé, Francesca Sisto, Gianfranco B. Fiore, Augusto Pessina and Alberto Redaelli. Lab-on-Chip for testing myelotoxic effect of drugs and chemicals
T-28 Giuseppe Pisani , Diana Massai , Andres Rodriguez , Federica Logrand , Giuseppe Falvo D'Urso Labate , Xiao Yun Xu , Cristina Bignardi , Guido Tarone and Umberto Morbiducci . A Bioreactor-based Model System for Culturing and Investigating Engineered Cardiac Tissue
T-29 Marco Piola, Francesca Prandi, Maria Cristina Vinci, Eleonora Penza, Marco Agrifoglio, Gianluca Polvani, Maurizio Pesce, Gianfranco Beniamino Fiore and Monica Soncini. A mechanobiology approach aimed at understanding the role of pulsatile pressure on human saphenous vein after coronary artery bypass grafting
T-30 Diana Massai, Giuseppe Isu, Denise Madeddu, Giulia Cerino, Caterina Frati, Angela Falco, Diego Gallo, Alberto Audenino, Federico Quaini and Umberto Morbiducci. A suspension bioreactor for culturing and investigating tumor cell clusters
T-31 Giovanni Stefano Ugolini, Monica Soncini, Andrea Pavesi, Roger Kamm, Rosaria Santoro, Gianluca Polvani, Maurizio Pesce, Gianfranco Beniamino Fiore and Marco Rasponi. Application of uniaxial mechanical stretch to cardiac cells with a novel microbioreactor
T-32 Filippo Consolo , Rosaria Santoro, Marco Spiccia, Francesca Prandi, Marco Piola , Maria Cristina Vinci, Maurizio Pesce and Monica Soncini . Fixative-free cellularized pericardium for bio-prosthetic cardiac valve leaflets
T-33 Nina Bono, Monica Soncini, Marco Piola, Filippo Consolo and Gianfranco Beniamino Fiore. A novel in vitro culture system for the stimulation and biomechanical assessment of tubular structures
T-34 Maria Teresa Francomano, Dino Accoto, Rosa Goffredo and Eugenio Guglielmelli. Peripheral neural interface for in situ electromagnetic stimulation
T-35 Roberta Gentilini , Fabiola Munarin, Livia Visai, Paola Petrini and Maria Cristina Tanzi. Rheological properties of injectable pectin-based hydrogels for tissue regeneration

T-36 Natalia Becerra, Mariateresa Tedesco, Barbara Salis, Gabriele Fredinani, Pasquale Vena, Federico Carpi and Roberto Raiteri. AFM and fluorescent microscopy of single cells with simultaneous mechanical stimulation via electrically stretchable soft substrates

T-37 [Marco Franzoni](#), [Irene Cattaneo](#), [Bogdan Ene-Iordache](#) and [Andrea Remuzzi](#). In vitro exposure of endothelial cells to shear stress derived from hemodialysis vascular access

T-38 Andrea Spanu, Stefano Lai, Piero Cosseddu, Mariateresa Tedesco, Sergio Martinoia and Annalisa Bonfiglio. An Organic Thin Film Transistor for in-vitro Monitoring of Electrogenic Cells