

CURRICULUM VITAE di:

Nominativo	FUSCO SABATO
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Posizione accademica

Macrosettore:	09/G - INGEGNERIA DEI SISTEMI E BIOINGEGNERIA
Settore Concorsuale:	09/G2 - BIOINGEGNERIA
Settore Scientifico Disciplinare:	ING-IND/34 - BIOINGEGNERIA INDUSTRIALE
Qualifica:	PROFESSORE ASSOCIATO (II FASCIA)
Anzianità nel ruolo:	1 ANNO
Sede Universitaria:	UNIVERSITÀ DEGLI STUDI DEL MOLISE
Struttura di appartenenza (dipartimento o altro)	DIPARTIMENTO DI MEDICINA E SCIENZE DELLA SALUTE "V. TIBERIO"

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

Periodo	Fascia	Ateneo
2020 – oggi	Professore di II fascia	Università degli Studi del Molise
2019 – 2020	Tecnico E.P.	Università degli Studi di Napoli "Federico II"
2017 – 2019	Assegnista di ricerca	Università degli Studi di Napoli "Federico II"

Pubblicazioni Scientifiche

n. progr.	anno	Descr z one pubb caz one
1	2022	ECM Mechanoregulation in Malignant Pleural Mesothelioma; V Panzetta, I Musella, S Fusco, PA Netti; <i>Frontiers in bioengineering and biotechnology</i> 10, 797900
2	2022	Toxic effects of SiO ₂ NPs in early embryogenesis of <i>Xenopus laevis</i> ; Rosa Carotenuto, Margherita Tussellino, Raffaele Ronca, Giovanna Benvenuto, Chiara Fogliano, Sabato Fusco, Paolo Antonio Netti; <i>Chemosphere</i> 289, 133233
3	2022	PIP4K2B is a mechanosensor and induces heterochromatin-driven nuclear softening through UHRF1; Alessandro Poli, Fabrizio A

		Pennacchio, Paulina Nastaly, Andrea Ghisleni, Michele Crestani, Francesca M Pramotton, Fabio Iannelli, Galina Beznusenko, Alexander A Mironov, Valeria Panzetta, Sabato Fusco, Bhavwanti Sheth, Paolo A Netti, Dimos Poulidakos, Aldo Ferrari, Nils Gauthier, Nullin Divecha, Paolo Maiuri; bioRxiv
4	2021	Cytoskeleton Response to Ionizing Radiation: A Brief Review on Adhesion and Migration Effects; G La Verde, V Artiola, V Panzetta, M Pugliese, PA Netti, S Fusco; Biomedicines 9 (9), 1102
5	2021	Morphological and Rheological Guided Design for the Microencapsulation Process of Lactobacillus paracasei CBA L74 in Calcium Alginate Microspheres; Concetta Di Natale, Elena Lagreca, Valeria Panzetta, Marianna Gallo, Francesca Passannanti, Michele Vitale, Sabato Fusco, Raffaele Vecchione, Roberto Nigro, Paolo Netti; Frontiers in bioengineering and biotechnology 9, 660691
6	2020	Reprogramming normal cells into tumour precursors requires ECM stiffness and oncogene-mediated changes of cell mechanical properties; Tito Panciera, Anna Citron, Daniele Di Biagio, Giusy Battilana, Alessandro Gandin, Stefano Giulitti, Mattia Forcato, Silvio Biciato, Valeria Panzetta, Sabato Fusco, Luca Azzolin, Antonio Totaro, Angelo Paolo Dei Tos, Matteo Fassan, Vincenzo Vindigni, Franco Bassetto, Antonio Rosato, Giovanna Brusatin, Michelangelo Cordenonsi, Stefano Piccolo; Nature materials 19 (7), 797-806
7	2020	Adhesion and migration response to radiation therapy of mammary epithelial and adenocarcinoma cells interacting with different stiffness substrates; Valeria Panzetta, Giuseppe La Verde, Mariagabriella Pugliese, Valeria Artiola, Cecilia Arrichiello, Paolo Muto, Marco La Commara, Paolo A Netti, Sabato Fusco; Cancers 12 (5), 1170
8	2020	Investigation of biophysical migration parameters for normal tissue and metastatic cancer cells after radiotherapy treatment; Valeria Panzetta, Giuseppe La Verde, Mariagabriella Pugliese, Cecilia Arrichiello, Paolo Muto, Marco La Commara, Vittoria D'Avino, Paolo A Netti, Sabato Fusco; Frontiers in Physics, 414
9	2019	Cell mechanosensing is regulated by substrate strain energy rather than stiffness; V Panzetta, S Fusco, PA Netti; Proceedings of the National Academy of Sciences 116 (44), 22004-22013
10	2019	Drug micro-carriers with a hyaluronic acid corona toward a diffusion-limited aggregation within the vitreous body; L Mayol, T Silvestri, S Fusco, A Borzacchiello, G De Rosa, M Biondi; Carbohydrate polymers 220, 185-190
11	2019	A biophysical analysis to assess X-ray sensitivity of healthy and tumour cells; V Panzetta, MG Pugliese, I Musella, M De Menna, PA Netti, S Fusco; Radiation protection dosimetry 183 (1-2), 116-120
12	2019	Combination therapy for the treatment of pancreatic cancer through hyaluronic acid-decorated nanoparticles loaded with quercetin and gemcitabine: A preliminary in vitro study; C Serri, V Quagliariello, RV Iaffaioli, S Fusco, G Botti, L Mayol, M Biondi; Journal of Cellular Physiology 234 (4), 4959-4969
13	2018	X-rays affect cytoskeleton assembly and nanoparticle uptake: Preliminary results; Valeria Panzetta, Mariagabriella Pugliese, Gioia di Gennaro, Costabile Federico, Cecilia Arrichiello, Paolo Muto, Paolo A. Netti, Sabato Fusco; Il nuovo cemento C 41 (6), 1-8
14	2017	Mechanosensing of substrate stiffness regulates focal adhesions dynamics in cell; S Fusco, V Panzetta, PA Netti; Meccanica 52 (14), 3389-3398

15	2017	ECM mechano-sensing regulates cytoskeleton assembly and receptor-mediated endocytosis of nanoparticles; Valeria Panzetta, Daniela Guarnieri, Antonio Paciello, Francesca Della Sala, Ornella Muscetti, Luca Raiola, Paolo Netti, Sabato Fusco; ACS Biomaterials Science & Engineering 3 (8), 1586-1594
16	2017	Mechanical phenotyping of cells and extracellular matrix as grade and stage markers of lung tumor tissues; V Panzetta, I Musella, I Rapa, M Volante, PA Netti, S Fusco; Acta Biomaterialia 57, 334-341
17	2017	3D is not enough: Building up a cell instructive microenvironment for tumoral stroma microtissues; Virginia Brancato, Alessandro Garziano, Filomena Gioiella, Francesco Urciuolo, Giorgia Imparato, Valeria Panzetta, Sabato Fusco, Paolo A Netti; Acta biomaterialia 47, 1-13
18	2016	Stimuli-responsive chitosan/poly (N-isopropylacrylamide) semi-interpenetrating polymer networks: effect of pH and temperature on their rheological and swelling properties; Mar Fernández-Gutiérrez, Sabato Fusco, Laura Mayol, Julio San Román, Assunta Borzacchiello, Luigi Ambrosio; Journal of Materials Science: Materials in Medicine 27 (6), 1-8
19	2016	Biophysical properties of dermal building-blocks affect extra cellular matrix assembly in 3D endogenous microtissue; F Urciuolo, A Garziano, G Imparato, V Panzetta, S Fusco, C Casale, PA Netti; Biofabrication 8 (1), 015010
20	2016	Nanomechanics of a fibroblast suspended using point-like anchors reveal cytoskeleton formation; Sabato Fusco, Pasquale Memmolo, Lisa Miccio, Francesco Merola, Martina Mugnano, Antonio Paciello, Pietro Ferraro, Paolo A Netti; RSC advances 6 (29), 24245-24249
21	2015	Surface decoration with gH625-membranotropic peptides as a method to escape the endo-lysosomal compartment and reduce nanoparticle toxicity; D Guarnieri, O Muscetti, A Falanga, S Fusco, V Belli, E Perillo, E Battista, V Panzetta, S Galdiero, PA Netti; Nanotechnology 26 (41), 415101
22	2015	Crosstalk between focal adhesions and material mechanical properties governs cell mechanics and functions; S Fusco, V Panzetta, V Embrione, PA Netti; Acta biomaterialia 23, 63-71
23	2015	Y-box Binding Protein-1 Is Part of a Complex Molecular Network Linking Δ Np63 α to the PI3K/akt Pathway in Cutaneous Squamous Cell Carcinoma; Annaelena Troiano, Irene Schiano Lomoriello, Orsola Di Martino, Sabato Fusco, Alessandra Pollice, Maria Vivo, Girolama La Mantia, Viola Calabro; Journal of cellular physiology 230 (9), 2067-2074
24	2015	X-ray irradiation affects morphology, proliferation and migration rate of healthy and cancer cells; Valeria Panzetta, Marta De Menna, Debora Bucci, Vittoria Giovannini, Mariagabriella Pugliese, Maria Quarto, Sabato Fusco, Paolo Netti; Journal of Mechanics in Medicine and Biology 15 (02), 1540022
25	2015	Ligand engagement on material surfaces is discriminated by cell mechanosensing; Edmondo Battista, Filippo Causa, Vincenzo Lettera, Valeria Panzetta, Daniela Guarnieri, Sabato Fusco, Francesco Gentile, Paolo A Netti; Biomaterials 45, 72-80
26	2015	Polystyrene nanoparticles affect Xenopus laevis development; Margherita Tussellino, Raffaele Ronca, Fabio Formiggini, Nadia De Marco, Sabato Fusco, Paolo Antonio Netti, Rosa Carotenuto; Journal of Nanoparticle Research 17 (2), 1-17

27	2015	Energy independent uptake and release of polystyrene nanoparticles in primary mammalian cell cultures; Ilaria Fiorentino, Roberto Gualtieri, Vincenza Barbato, Valentina Mollo, Sabrina Braun, Alberto Angrisani, Mimmo Turano, Maria Furia, Paolo A Netti, Daniela Guarnieri, Sabato Fusco, Riccardo Talevi; Experimental cell research 330 (2), 240-247
28	2015	Biocompatibility, uptake and endocytosis pathways of polystyrene nanoparticles in primary human renal epithelial cells; Daria Maria Monti, Daniela Guarnieri, Giuliana Napolitano, Renata Piccoli, Paolo Netti, Sabato Fusco, Angela Arciello; Journal of biotechnology 193, 3-10
29	2014	Particle tracking by full-field complex wavefront subtraction in digital holography microscopy; L Miccio, P Memmolo, F Merola, S Fusco, V Embrione, A Paciello, M Ventre, PA Netti, P Ferraro; Lab on a Chip 14 (6), 1129-1134
30	2014	Transport across the cell-membrane dictates nanoparticle fate and toxicity: a new paradigm in nanotoxicology; Daniela Guarnieri, Stefania Sabella, Ornella Muscetti, Valentina Belli, Maria Ada Malvindi, Sabato Fusco, Elisa De Luca, Pier Paolo Pompa, Paolo A Netti; Nanoscale 6 (17), 10264-10273
31	2014	Investigation on specific solutions of Gerchberg–Saxton algorithm; Pasquale Memmolo, Lisa Miccio, Francesco Merola, Antonio Paciello, Valerio Embrione, Sabato Fusco, Pietro Ferraro, Paolo Antonio Netti; Optics and Lasers in Engineering 52, 206-211
32	2013	Ribonuclease/angiogenin inhibitor 1 regulates stress-induced subcellular localization of angiogenin to control growth and survival; Elio Pizzo, Carmen Sarcinelli, Jinghao Sheng, Sabato Fusco, Fabio Formiggini, Paolo Netti, Wenhao Yu, Giuseppe D'Alessio, Guo-fu Hu Journal of cell science 126 (18), 4308-4319
33	2013	Shuttle-Mediated Nanoparticle Delivery to the Blood–Brain Barrier; Daniela Guarnieri, Annarita Falanga, Ornella Muscetti, Rossella Tarallo, Sabato Fusco, Massimiliano Galdiero, Stefania Galdiero, Paolo A Netti; Small 9 (6), 853-862
34	2012	New insights into the mechanisms of the interactions between doxorubicin and the ion-exchange hydrogel DC Bead™ for use in transarterial chemoembolization (TACE); M Biondi, S Fusco, AL Lewis, PA Netti; Journal of Biomaterials Science, Polymer Edition 23 (1-4), 333-354
35	2011	Effect of serum proteins on polystyrene nanoparticle uptake and intracellular trafficking in endothelial cells; D Guarnieri, A Guaccio, S Fusco, PA Netti; Journal of Nanoparticle Research 13 (9), 4295-4309
36	2011	Injectable thermally responsive mucoadhesive gel for sustained protein delivery; Laura Mayol, Marco Biondi, Fabiana Quaglia, Sabato Fusco, Assunta Borzacchiello, Luigi Ambrosio, Maria I La Rotonda; Biomacromolecules 12 (1), 28-33
37	2009	Preliminary studies on noncovalent hyperbranched polymers based on PNA and DNA building blocks; Maria Moccia, Domenica Musumeci, Giovanni N Roviello, Sabato Fusco, Margherita Valente, Enrico M Bucci, Roberto Sapio, Carlo Pedone, Paolo A Netti; Journal of Peptide Science: An Official Publication of the European Peptide Society, 10, 647-653
38	2009	Microrheology of complex fluids using optical tweezers: a comparison with macrorheological measurements; G Pesce, AC De Luca, G Rusciano, PA Netti, S Fusco, A Sasso; Journal of Optics A: Pure and Applied Optics 11 (3), 034016

39	2008	Micro and Macro Characterization of PEO-PPO-PEO Triblocks Hydrogels; S Fusco, A Borzacchiello, D Cohn, PA Netti; Macromolecular symposia 266 (1), 92-95
40	2008	Structural and Mechanical Properties of UV-Photo-Cross-Linked Poly(N-vinyl-2-pyrrolidone) Hydrogels; Gerardino D'Errico, Marco De Lellis, Gaetano Mangiapia, Annamaria Tedeschi, Ornella Ortona, Sabato Fusco, Assunta Borzacchiello, Luigi Ambrosio; Biomacromolecules 9 (1), 231-240
41	2007	High frequency viscoelastic behaviour of low molecular weight hyaluronic acid water solutions; Sabato Fusco, Assunta Borzacchiello, Lisa Miccio, Giuseppe Pesce, Giulia Rusciano, Antonio Sasso, Paolo A Netti; Biorheology 44 (5-6), 403-418
42	2006	Perspectives on: PEO-PPO-PEO triblock copolymers and their biomedical applications; S Fusco, A Borzacchiello, PA Netti; Journal of Bioactive and Compatible Polymers 21 (2), 149-164
43	2005	Viscosity measurements on micron-size scale using optical tweezers; G Pesce, A Sasso, S Fusco; Review of scientific instruments 76 (11), 115105

Titoli

- D rez one o partec paz one a com tat d d rez one d r v ste Scopus/WOS o c ass f cate da ANVUR, nonché d co ane ed tor a , enc c oped e e trattat d r conosc uto prest g o ne settore:
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 - Rev ewer per numerose r v ste sc ent f che d r conosc uto prest g o ne settore (PNAS, B omater a s, Acta B omater a, ecc.)
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– Pres dente de Corso d Laurea Mag stra e Interateneo n Ingegner a B omed ca presso
'Un vers tà de Mo se, 'Un vers tà de Sann o e 'Un vers tà d Cass no e de Laz o Mer d ona e

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