





## INFORMAZIONI PERSONALI



## Paolo Antonio Netti

-  Università degli Studi di Napoli Federico II, Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale (DICMAPI) Piazzale Tecchio, 80, 80125 Napoli
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ESPERIENZA  
PROFESSIONALE

- 
- 2015 - oggi

**Ricerca/Insegnamento**  
**Professore Ordinario settore disciplinare ING-IND/34 presso il**  
Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale dell'Università Federico II di Napoli, Italia
  - 2010 - 2015

**Ricerca/Insegnamento**  
**Professore Ordinario settore disciplinare ING-IND/22 presso il**  
Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale dell'Università Federico II di Napoli, Italia
  - 2009 - oggi

**Ricerca**  
**Direttore del Centre for Advanced Biomaterials for Health Care dell'Istituto Italiano di Tecnologia (IIT).**  
Fondazione Istituto Italiano di Tecnologia CABHC@CRIB Napoli, Italia
  - 2008-2011

**Insegnamento**  
**Presidente del corso di Laurea in Ingegneria dei Materiali**  
Università Federico II di Napoli, Italia
  - 2004 - 2013

**Ricerca**  
**Direttore del Centro di Ricerca Interdipartimentale sui Biomateriali (CRIB)**  
Università Federico II di Napoli, Italia
  - nov. '02 - ott'10

**Ricerca/Insegnamento**  
**Professore Associato settore disciplinare ING-IND/22**  
Dipartimento di Ingegneria dei Materiali e della Produzione dell'Università Federico II di Napoli, Italia
  - nov. '99 - ott. '02

**Ricerca/Insegnamento**  
**Ricercatore Universitario settore scientifico-disciplinare ING-IND/22**  
Dipartimento di Ingegneria dei Materiali e della Produzione dell'Università Federico II di Napoli, Italia

- gen.' 97 - ott. '99 **Ricerca**  
**Assegnista di ricerca**  
 Università degli Studi di Napoli, Federico II, Napoli, Italia
- nov. '94 - dic. '96 **Ricerca**  
**Post-doctoral Fellow**  
 Dipartimento di Health Science & Technology (Edwin Steele laboratory) dell'Università di Harvard e M.I.T. Boston, USA
- sett. '90 - ott. '91 **Ricerca**  
**Borsa di studio presso il Dipartimento di Ingegneria dei Materiali e della Produzione.**  
 Università degli Studi di Napoli, Federico II, Napoli, Italia
- ett. '90 - ott. '91 **Ricerca**  
**Borsa di studio presso il Dipartimento di Ingegneria dei Materiali e della Produzione.**  
 Università degli Studi di Napoli, Federico II, Napoli, Italia

**ISTRUZIONE E FORMAZIONE**

- 1990 **Laurea in Ingegneria Chimica conseguita con lode**  
 Università degli Studi di Napoli, Federico II, Napoli, Italia
- nov. '91 - ott. '94 **Dottorato di ricerca in Ingegneria Chimica.**  
 Università degli Studi di Napoli, Federico II, Napoli, Italia

**COMPETENZE PERSONALI**

Lingua madre Italiano

	COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
Inglese	C1	C1	C1	C1	C1

Patente di guida A/B

## ULTERIORI INFORMAZIONI

Pubblicazioni  
 Presentazioni  
 Progetti  
 Conferenze  
 Seminari  
 Riconoscimenti e premi  
 Appartenenza a gruppi /  
 associazioni  
 Referenze  
 Menzioni  
 Corsi  
 Certificazioni

**Riconoscimenti e premi**

- 1998 European Society for Biomaterials: *The Jean Leray Award*
- 2007 Insignito *motu-proprio* dal Presidente della Repubblica Italiana del titolo di Commendatore all'ordine del merito della Repubblica Italiana per meriti scientifici
- 2008 International Union of Societies for Biomaterials: *Fellow, Biomaterials Science and Engineering (FBSE)*

**Componente dell'editorial board delle riviste scientifiche**

Journal of Biomaterials Applications  
 Journal of Material Science: Materials in Medicine  
 Journal of Bioactive and Compatible Polymers  
 Journal of Applied Biomaterials and Biomechanics

**Coordinamento, organizzazione e direzione di progetti di ricerca**
**Progetti di ricerca nazionali**

**Responsabile Scientifico** del progetto di ricerca "*Ingegnerizzazione di una tecnica sperimentale innovativa per la determinazione dell'efficienza di penetrazione di farmaci macromolecolari in tessuti neoplastici*", Regione Campania Legge 41, annualità 1999.

**Responsabile Scientifico** di un contratto di ricerca con la Mapei S.p.A. su "*Ottimizzazione del comportamento reologico di laticci polimerici*", annualità 2000-2003.

**Coordinatore locale** del WP3 del Progetto di Ricerca P1 "*Biomateriali in funzione applicativa*", progetto CLUSTER del Ministero dell'Università e della Ricerca Scientifica (MIUR), annualità 2000-2005.

**Coordinatore nazionale** del Progetto di Ricerca "*Studio degli effetti gravitazionali sulla crescita e rimodellazione dei tessuti: realizzazione di un modello sperimentale per l'analisi della risposta a sollecitazioni meccaniche*", Agenzia Spaziale Italiana (ASI) annualità 2000-2003.

**Coordinatore locale** del progetto di ricerca "*Trasporto di Macromolecole in fluidi complessi*", Coordinatore Nazionale Prof. V. Vitagliano, Agenzia Spaziale Italiana (ASI) annualità 2000.

**Responsabile Scientifico** del progetto di ricerca "*Matrici Bioattive per il Controllo della Migrazione Cellulare*", Regione Campania Legge 41, annualità 2000.

**Coordinatore** del Work Package 1c '*Biomateriali*', del Centro Regionale di Competenza (CRdC) 'Nuove Tecnologie', Regione Campania, annualità 2002-2005.

**Coordinatore locale** del progetto di ricerca "*Novel Biotechnological and Postgenomic Tools for Tissue Revascularization*", Coordinatore Nazionale Prof. F. Bussolino, progetto FIRB, MIUR annualità 2002-2005.

**Coordinatore locale** del progetto di ricerca "*Rivestimenti bioattivi di stent cardiovascolari*", Coordinatore Nazionale Prof. C. Indolfi, progetto FIRB, MIUR annualità 2002-2005.

**Coordinatore nazionale** del Progetto di Ricerca di Interesse Nazionale PRIN "*Nuovi materiali sintetici per il controllo dell'attività cellulare*" MIUR, annualità 2003-2005.

**Coordinatore** del Progetto di Ricerca "*Ingegnerizzazione di matrici polimeriche attivate geneticamente GAM*" Legge 5, Regione Campania, annualità 2003-2004.

**Responsabile Scientifico** del progetto di ricerca "*Ingegnerizzazione di matrici polimeriche micro e nanoporose*", Regione Campania Legge 41, annualità 2005.

**Responsabile Scientifico** del progetto di ricerca "*Sviluppo di una superficie di impianto che possa migliorare l'integrazione tra impianto e osso mediante l'impiego di cellule staminali autologhe*", MIUR, progetto PIA, annualità 2005-2007.

**Responsabile Scientifico** del progetto di ricerca “*Ingegnerizzazione di pellame innovativo attraverso la manipolazione e la biosintesi del network macromolecolare costituente il derma*”, Legge 297, MIUR, annualità 2005-2009.

**Responsabile Scientifico** del progetto di ricerca “TRIPODE”, Legge 297, MIUR, annualità 2006-2009.

**Coordinatore locale** del progetto di ricerca “*Tissuenet*”, Coordinatore nazionale Prof. L. Ambrosio, progetto FIRB, MIUR annualità 2007-2010.

**Coordinatore locale** del progetto di ricerca “*Modelli innovativi per il riparo e la rigenerazione di tessuti ortopedici danneggiati*” progetto FIRB, MIUR (2011).

**Coordinatore nazionale** del progetto “Ingegnerizzazione e biofunzionalizzazione di scaffold per ingegneria dei tessuti”, progetto PRIN del Ministero dell’Università e della Ricerca Scientifica (MIUR), 2010-2012

**Coordinatore locale** Implementazione di bio-nanotecnologie per la produzione manufatti innovativi in pellame. MIUR - Programma Operativo Nazionale Ricerca e Competitività 2007-2013

**Coordinatore locale** del progetto "Development of a technological platform, portable and automated, for molecular diagnostics purposes, based on a Lab-on-a Chip technology and performing multiparametric infectivological applications" MIUR - Programma Operativo Nazionale Ricerca e Competitività 2007-2013

**Responsabile di ricerca** del progetto Nuovo Centro Studi di Medicina Molecolare (CeSMemo) MIUR Avviso (254/Ric 18/05/2011) – I Azione – “Rafforzamento strutturale”

**Coordinatore locale** del progetto Infrastruttura per Tecnologie BioMEMS di Sensing Avanzato per Monitoraggio e Diagnostica Ambientale e Alimentare MIUR Avviso (254/Ric 18/05/2011) – I Azione – “Rafforzamento strutturale”

**Coordinatore locale** del progetto “NewTON (Nanosistemi avanzati per una nuova oncologia molecolare)” progetto FIRB, MIUR (2011-2016).

**Coordinatore locale del progetto PON03PE\_00146\_1** Title: “Biomarker, Biomateriali e Farmaci Innovativi per la Diagnosi e per la Terapia dell’ischemia Cerebrale e dei Tumori Plurifarmacoresistenti della Testa, del Collo e della Mammella Attraverso la Realizzazione di una Rete di Biobanche”

**Coordinatore locale del progetto MICROMAP (PON01\_02589)** Title “Sviluppo di una piattaforma tecnologica multiplex per diagnostica molecolare, portatile ed automatizzata, basata sulla logica strumentale del Lab-on-chip, in grado di consentire applicazioni multiparametriche in campo infettivologico” – National project –

**Coordinatore locale del progetto ITEM (PONa3\_00077)** Title: “Infrastruttura per Tecnologie BioMEMS di Sensing Avanzato per Monitoraggio e Diagnostica Ambientale e Alimentare” – funds 8.74 M€. Project in partnership with IIT CBN center in Lecce.

**Coordinatore locale del progetto MERIT (RBNE08HM7T)** Title: "Modelli innovativi di riparazione e rigenerazione di tessuti in traumi ortopedici", FIRB Program; funds 147k€

**Coordinatore locale del progetto CeSMemo (PONa3\_000173)** Title: Centro sperimentale di medicina moelcolare.

#### Progetti di Ricerca internazionali

**Coordinatore** locale del progetto di ricerca europeo ‘*IMBIOTOR*’ Intelligent Mini Bioreactor for Tissue Processing, **G1RD-CT2000-00293**, **V Framework Programme**, annualità 2001-2004.

**Coordinatore** locale del progetto di ricerca europeo ‘*DERMAGENESIS*’ *Bio-engineering of leather: structure design, biosynthesis - Towards zero emission production*, n° **COLL-CT-2003-500224**, **VI Framework Programme**, annualità 2003-2008.

**Coordinatore** locale del progetto di ricerca europeo “Tissue in host engineering guided

regeneration of the arterial intimal layer" (The Grail) **VII Framework Programme**, annualità 2012-2017

**Responsabile** di WP nel progetto di ricerca europeo "AirGreen 2" Horizon 2020, annualità 2015-2017.

### Monitoraggio e tutoraggio di progetti di ricerca

Componente del comitato scientifico della stazione sperimentale per l'industria delle pelli e delle materie concianti – NAPOLI- dal nov. 2006 ad oggi.

Incarico della Regione Campania quel membro della commissione di valutazione delle attività di ricerca del Distretto IMAST, annualità 2007-2010.

Incarico del Ministero dell'Università e Ricerca Scientifica per la valutazione in itinere ed *ex-post* di 4 progetti FIRB in Nanobioteconologie, annualità 2005-2012.

Incarico dal governo portoghese (FTP) come membro del pannello 'P5 material science' di valutazione dei progetti nazionali di ricerca, annualità 2007-2011.

Incarico dal presidente dell'European Research Council (ERC) come componente di valutazione dei progetti ERC Advanced Grant nel pannello PE5- Materials, annualità 2011-2014.

### Organizzazione di conferenze e simposia scientifici internazionali

**Co-Chairman** della conferenza internazionale 'International Conference on Advances of Biomaterials for Reconstructive Medicine' giugno 9-14, 2002, Capri, Italia.

**Organizzatore** del simposio 'Transport in tissue engineering' nell'ambito della conferenza della European Society of Biomechanics Annual Meeting, luglio 4-7, 2004, 's-Hertogenbosch, Olanda.

**Organizzatore** del simposio 'Angiogenesis in biomaterials' nell'ambito della conferenza 7<sup>th</sup> World Biomaterial Conference, 17-21 maggio, 2004, Sydney, Australia.

**Co-Chairman** della conferenza internazionale della Società Europea dei Biomateriali '19<sup>th</sup> European Conference on Biomaterials', 11-15 Settembre, 2005, Sorrento, Italia.

**Co-Chairman** della conferenza internazionale 'International Conference on Advances in Biomaterials for Drug Delivery and Regenerative Medicine', giugno 11-16, 2006, Capri, (Na), Italia.

**Co-Chairman** e organizzatore della conferenza internazionale "Advances in Polymer based Materials and Related Technologies", 20 maggio-1 giugno 2011, Centro Congressi Capri (Na), Italia.

**Chairman** del Simposio "Nano-Engineered Bioactive Interfaces" nell'ambito della conferenza della Società Europea dei Materiali, 27-31 maggio, 2013, Strasburgo, Francia.

### Pubblicazioni

1. "C. Carfagna; P.A. Netti; L. Nicolais; A. T. DiBenedetto" In-Situ Composites: Evaluation of the Adhesion Between the Thermoplastic Matrix and the Fibers of Liquid Crystalline Polymer POLYMER COMPOSITES 13 3 1992
2. "Amendola, E; Carfagna, C; Netti, PA; Nicolais, L; Saiello, S" The Influence of a Copolymer as Adhesion Promoter for Polycarbonate and Liquid Crystalline Polymer Blends JOURNAL OF APPLIED POLYMER SCIENCE 50 1 1992
3. "Netti, P.A.; Shelton, J.C; Revell, P.A.; Pirie, G.; Smith, S.; Ambrosio, L.; Nicolais, L.; Bonfield, W." Hydrogels as an interface between bone and an implant BIOMATERIALS 14 14 1993
4. "E. Amendola;C. Carfagna;P. Netti;L. Nicolais;S. Saiello" Influence of a copolymer as adhesion promoter for polycarbonate and liquid crystalline polymer blends JOURNAL OF APPLIED POLYMER SCIENCE 50 1993
5. "A. D'Amore; A. Pompo; P. A. Netti; E. Masi and L. Nicolais" Non-Linear Viscoelastic Behavior of Poly-Ether-Ether-Ketone (PEEK) and PEEK-Based Composites JOURNAL OF REINFORCED PLASTICS AND COMPOSITES 12 3 1993
6. "P. A. Netti; J. C. Shelton; P. A. Revell; C. Pirie; S. Smith; L. Ambrosio; L. Nicolais and W. Bonfield"Hydrogel as an Interface Between Bone and an Implant BIOMATERIALS 1993
7. "M.A. DEL NOBILE; G. MENSITIERI; P.A. NETTI; L. NICOLAIS" Anomalous Diffusion in Poly-ether-ether-ketone (PEEK) CHEMICAL ENGINEERING SCIENCE 49

- (5) 1994
8. "M. A. Del Nobile; G. Mensitieri; P. A. Netti; L. Nicolais" Anomalous Diffusion in Poly-Ether-Ether-Ketone CHEMICAL ENGINEERING SCIENCE 49 5 1994
  9. "Netti, Paolo A.; Baxter, Laurence T.; Boucher, Yves; Jain, Rakesh K.; Skalak, Richard" Time-dependent Behavior of Interstitial Fluid Pressure in Solid Tumors: Implications for Drug Delivery CANCER RESEARCH 55 22 1995
  10. "P. NETTI; BAXTER L.T; BOUCHER Y.; SKALA R.; JAIN R.K." Time-Dependent Behavior of Interstitial Fluid Pressure in Solid Tumors: Implication for Drug Delivery CANCER RESEARCH 55 1995
  11. "R. Skalak; S. Zargaryan; R. K. Jain; P. A. Netti; A. Hoger" Compatibility and Genesis of Residual Stress by Volumetric Growth JOURNAL OF MATHEMATICAL BIOLOGY 34 8 1996
  12. "P. A. Netti; S. Roberge; Y. Boucher; L. T. Baxter; R. K. Jain" Effect of Transvascular Fluid Exchange on Pressure - Flow Relationship in Tumors: A Proposed Mechanism for Tumor Blood Flow Heterogeneity MICROVASCULAR RESEARCH 52 1 1996
  13. "NETTI, PA; AMBROSIO, L; DEL NOBILE, MA; MENSITIERI, G; NICOLAIS, L." Water Transport in Hyaluronic Acid Ester JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS 11 4 1996
  14. "Ambrosio, L.; Netti, P. A.; Iannace, S.; Huang, S. J.; Nicolais, L." Composite hydrogels for intervertebral disc prostheses JOURNAL OF MATERIALS SCIENCE. MATERIALS IN MEDICINE 7 5 1996
  15. "AMBROSIO L.; P. NETTI; IANNACE S.; HUANG S.J.; NICOLAIS L." Composite Hydrogel for Intervertebral Disc Prostheses JOURNAL OF MATERIALS SCIENCE. MATERIALS IN MEDICINE 7 1996
  16. "P. A. Netti; A. D'Amore; D. Ronca; L. Ambrosio; L. Nicolais" Structure-Mechanical Properties Relationship of Natural Tendons and Ligaments JOURNAL OF MATERIALS SCIENCE. MATERIALS IN MEDICINE 7 9 1996
  17. "HELMINGER G.; P. NETTI; LICHTENBELD H.; MELDER R.; JAIN R.K." Solid Stress Inhibits the Growth of Multicellular Spheroids NATURE BIOTECHNOLOGY 15 1997
  18. "Helmlinger, G; Netti, P A; Lichtenbeld, H C; Melder, R J; Jain, R K" Solid stress inhibits the growth of multicellular tumor spheroids NATURE BIOTECHNOLOGY 15 8 1997
  19. "BAISH J.W.; P. NETTI; JAIN R.K." Transmural Coupling of Fluid Flow in Microcirculatory Network and Interstitium in Tumors MICROVASCULAR RESEARCH 53 2 1997
  20. "P. NETTI; BAXTER L.T.; BOUCHER Y.; SKALAK R.; JAIN R.K." Macro and Microscopic Fluid Transport in Living Tissues: Application to Solid Tumors AICHE JOURNAL 43 3 1997
  21. "De Santis, R; Iannace, S.; Netti, P.A.; Ambrosio, L." Composite structures for tendon and ligament prostheses ANALES DE QUIMICA 93 1 SUPPL. 1 1997
  22. "BOUCHER Y.; BREKKEN C.; P. NETTI; BAXTER L.T; JAIN R.K." Intratumoral Infusion of Fluid: Estimation of Hydraulic Conductivity and Implications for the Delivery of Therapeutic Agents BRITISH JOURNAL OF CANCER 78 11 1998
  23. "Ambrosio; R. De Santis; S. Iannace; P. A. Netti; L. Nicolais" Viscoelastic behavior of composite ligament prostheses JOURNAL OF BIOMEDICAL MATERIALS RESEARCH 42 1 1998
  24. "P. NETTI; HAMBERG L.M; BACICH J.M.; KIERSTEAD D.; GRAHAM W.; HUNTER J.; WOLF G.L.; BOUCHER Y.; FISCHMAN A.; JAIN R.K." Enhancement of fluid filtration across tumor vessels: Implication for delivery of macromolecules PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 96 6 1999
  25. "AMBROSIO L.; BORZACCHIELLO A.; P. NETTI; NICOLAIS L." Rheological Study on Hyaluronic acid and its Derivatives Solutions JOURNAL OF MACROMOLECULAR SCIENCE. PURE AND APPLIED CHEMISTRY A36 7-8 1999
  26. "PLUEN A.; P. NETTI; JAIN R.K.; BERK D.A." Diffusion of Macromolecules in Agarose Gels: Comparison of Linear and Globular Configurations BIOPHYSICAL JOURNAL 77 1 1999
  27. "SWARTZ M.A.; KAIPAINEN A.; P. NETTI; BREKKEN C.; BOUCHER Y.; GRODZINSKY AJ.; JAIN R.K." Mechanics of Interstitial-lymphatic Fluid Transport: Theoretical Foundation and Experimental Validation JOURNAL OF BIOMECHANICS 32 12 1999
  28. "Micco, Giovanni; Netti, Paolo A.; Nicolais, Luigi; Collina, Amilcare; Astarita, Gianni" A novel approach for grinding operation scale-up CHEMICAL ENGINEERING SCIENCE

- 55 8 2000
29. "P. NETTI; BERK D.A.; SWARTZ M.A.; GRODZINSKY A.J.; JAIN R.K." Role of Extracellular Matrix Assembly in Interstitial Transport in Solid Tumors CANCER RESEARCH 60 9 2000
  30. "G. Micco; P. A. Netti; L. Nicolais; A. Collina; G. Astarita" A Novel Approach to Grinding Operation Scale-up CHEMICAL ENGINEERING SCIENCE 2000
  31. "L. LANOTTE; G. AUSANIO; V. IANNOTTI; G. PEPE; G. CAROTENUTO; P. NETTI; L. NICOLAIS" Magnetic and magnetoelastic effects in a composite material of Ni microparticles in a silicone matrix PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS 63 5 2001
  32. "BORZACCHIELLO A; AMBROSIO L; NETTI P. A.; L. NICOLAIS; PENICHE C; GALLARDO A; SAN ROMAN J" Chitosan-based hydrogels: Synthesis and characterization JOURNAL OF MATERIALS SCIENCE. MATERIALS IN MEDICINE 12 10-12 2001
  33. "F. CAUSA; L. MANTO; P. NETTI; L. NICOLAIS; BORZACCHIELLO A.; DESANTIS R.; AMBROSIO L." SPATIAL AND STRUCTURAL DEPENDENCE OF MECHANICAL PROPERTIES OF PORCINE INTERVERTEBRAL DISC JOURNAL OF MATERIALS SCIENCE. MATERIALS IN MEDICINE 2002
  34. "Causa, F; Manto, L.; Borzacchiello, A.; De Santis, R.; Netti, P.A.; Ambrosio, L.; Nicolais, L." Spatial and structural dependence of mechanical properties of porcine intervertebral disc JOURNAL OF MATERIALS SCIENCE. MATERIALS IN MEDICINE 13 12 2002
  35. "P. NETTI; F. TRAVASCIO; R.K. JAIN" Coupled macromolecular transport and gel mechanics: Poroviscoelastic approach AICHE JOURNAL 49 6 2003
  36. "ROOSE T; NETTI PA; MUNN LL; BOUCHER Y; JAIN RK" Solid stress generated by spheroid growth estimated using a linear poroelasticity model MICROVASCULAR RESEARCH 66 3 2003
  37. "A. SANNINO; A.; P. NETTI; G. MENSITIERI; L. NICOLAIS." Designing microporous macromolecular hydrogels for biomedical applications: a comparison between two techniques. COMPOSITES SCIENCE AND TECHNOLOGY 63 16 2003
  38. "MOLLICA F.; P. NETTI; JAIN R" A model for temporal heterogeneities of tumor blood flow MICROVASCULAR RESEARCH 65 1 2003
  39. "SANNINO A; NETTI P. A; G. MENSITIERI; NICOLAIS L" Designing microporous macromolecular hydrogels for biomedical applications: a comparison between two techniques. COMPOSITES SCIENCE AND TECHNOLOGY 63 (16) 2003
  40. "Ambrosio, L; Battista, S.; Borzacchiello, A.; Borselli, C.; Causa, F.; De Santis, R.; Netti, P.A.; Zeppetelli, S." Biomimetic structures for implants and tissue engineering scaffolds MEDICAL JOURNAL OF MALAYSIA 59 2004
  41. "X. XUEJUN; A. BORZACCHIELLO; P. NETTI; L. AMBROSIO AND L. NICOLAIS; A. SANNINO" Preparation and Characterization of a Hydrogel from low-molecular weight hyaluronic acid JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS 19 2004
  42. "R. De Santis; F. Sarracino; F. Mollica; P.A. Netti; L. Ambrosio; L. Nicolais" Continuous fibre reinforced polymers as connective tissue replacement COMPOSITES SCIENCE AND TECHNOLOGY 64 2004
  43. "R. De Santis; F. Causa; F. Sarracino; P.A. Netti; L. Ambrosio" Biomimetic composite hydrogel for tissue reconstruction ANNALS OF TRANSPLANTATION 9 2004
  44. "G. Leone; R. Barbucci; A. Borzacchiello; L. Ambrosio; P.A. Netti; C. Migliaresi" Preparation and physio-chemical characterisation of microporous polysaccharidic hydrogels JOURNAL OF MATERIALS SCIENCE. MATERIALS IN MEDICINE 15 2004
  45. "A. SANNINO; M. MADAGHIELE; F. CONVERSANO; G. MELE; A. MAFFEZZOLI; P. NETTI; L. AMBROSIO; L. NICOLAIS" Cellulose derivative-hyaluronic acid-based microporous hydrogels crosslinked through divinyl sulfone (DVS) to modulate equilibrium sorption capacity and network stability BIOMACROMOLECULES 5 2004
  46. "X. Xin; A. Borzacchiello; P.A. Netti; L. Ambrosio; L. Nicolais" Hyaluronic-acid-based semi-interpenetrating materials JOURNAL OF BIOMATERIALS SCIENCE POLYMER EDITION 15 9 2004
  47. "BATTISTA S; GUARNIERI D; BORSELLI C; ZEPPELELLI S; BORZACCHIELLO A; MAYOL L; GERBASIO D; KEENE DR; AMBROSIO L; P. NETTI" The effect of matrix composition of 3D constructs on embryonic stem cell differentiation BIOMATERIALS 26 31 2005
  48. "DECUZZI P; CAUSA F; FERRARI M; P. NETTI" The effective dispersion of nanovectors within the tumor microvasculature ANNALS OF BIOMEDICAL

- ENGINEERING 34 2006
49. "Causa, Filippo; Sarracino, F.; De Santis, R.; Netti, P.A.; Ambrosio, L.; Nicolais, L." Basic structural parameters for the design of composite structures as ligament augmentation devices JOURNAL OF APPLIED BIOMATERIALS & BIOMECHANICS 4 1 2006
  50. "FUSCO S; BORZACCHIELLO A; P. NETTI" Perspectives on: PEO-PPO-PEO triblock copolymers and their biomedical applications JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS 21 2 2006
  51. "Ungaro, F.; Biondi, M.; D'Angelo, I.; Indolfi, L.; Quaglia, F.; Netti, P. A.; La Rotonda, M. I." Microsphere-integrated collagen scaffolds for tissue engineering: effect of microsphere formulation and scaffold properties on protein release kinetics. JOURNAL OF CONTROLLED RELEASE 113 2006
  52. "SANNINO A; P. NETTI; MADAGHIELE M; COCCOLI V; LUCIANI A; MAFFEZZOLI A; NICOLAIS L" Synthesis and characterization of macroporous poly(ethylene glycol)-based hydrogels for tissue engineering application JOURNAL OF BIOMEDICAL MATERIALS RESEARCH. PART A 79 2 2006
  53. "DE ROSA E; URCIUOLO F; BORSELLI C; GERBASIO D; IMPARATO G; P. NETTI" Time and space evolution of transport properties in agarose-chondrocyte constructs TISSUE ENGINEERING 26 2006
  54. "CAUSA F; P. NETTI; AMBROSIO L; CIAPETTI G; BALDINI N; PAGANI S; MARTINI D; GIUNTI A" Poly-epsilon-caprolactone/hydroxyapatite composites for bone regeneration: in vitro characterization and human osteoblast response JOURNAL OF BIOMEDICAL MATERIALS RESEARCH. PART A 76 1 2006
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44. P.A. Netti, "Multifunctional scaffolds and novel processes for engineering biological tissues in vitro", 5th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC5), maggio 24-29, 2008, Cetraro (CS), Italia.
45. P.A. Netti, keynote address "Engineering of foamed structure for biomedical application", 24th meeting of the polymer processing society (PPS), giugno 15-19, 2008, Salerno, Italia.
46. P.A. Netti, keynote address "Novel materials and processes to better control tissue development in vitro and in vivo", TERMIS-EU meeting, giugno 13-17, 2010, Galway, Irlanda.
47. P.A. Netti et al., "Novel materials and processes to engineering biological tissues in vitro", Advances in Polymer based Materials and Related Technologies, maggio 29-giugno 1, 2011, Congress Centre Capri (Na), Italia.
48. A. Salerno, P.A. Netti, "Solid-state supercritical CO<sub>2</sub> foaming of PCL and PCL-HA nanocomposite: effect of composition, thermal history and foaming process on foam pore structure", Biofoams 2011 Third International Conference on Biofoams, settembre 21-23, 2011, Capri (NA), Italia.
49. P.A. Netti, "Bioactive materials for cell and tissue guidance", LIFE-MED2011 the International life-sciences event, ottobre 5-7, 2011, Fiera Milanocity, Italia.
50. P.A. Netti, "Mastering cell-material crosstalking at the nano scale: molecular cues and news", Italian-Swedish Workshop on Nanoscience and Medical Technology YKI, settembre 29-30, 2011, Stoccolma, Svezia.
51. P.A. Netti, "Novel materials and processes to engineering biological tissues in vitro", Advances in Polymer based Materials and Related Technologies, a workshop in honour of Mimmo Acierno's 70th birthday, maggio 29 - giugno 1, 2011, Congress Centre Capri, NA, Italia.
52. P.A. Netti, "Presenting effective signals at cell-material interface to engineering cell instructive materials" E-MRS (European Materials Research Society) 2012 SPRING MEETING, maggio 14-18, 2012, Congress Centre, Strasburgo, Francia.
53. P.A. Netti, "Guiding tissue growth in 3D matrices by spatial and temporal control of signal presentation", 3rd International Conference Strategies in Tissue Engineering, maggio 23-25, 2012, Wurzburg, Germania.
54. P.A. Netti, "Cell-material crosstalking at the nanoscale: cues and news", School in Advanced



- and Optical Technologies (SAOT), Erlangen, Friedrich-Alexander Universität, maggio 25, 2012, Erlangen-Nürnberg (FAU), Germania.
55. P.A. Netti, "Biomateriali nanostrutturati per la guida ed il controllo di processi cellulari", Bioforum, giugno 7-8, Napoli, Italia.
56. P.A. Netti, "Nanostructured biomaterials for cell and tissue guidance", School on New and Old Polymers for Sustainable Chemistry, Università di Salerno, settembre 7, 2012, Salerno, Italia.
57. P.A. Netti, "Cell-material crosstalk at the nanoscale: cues and news", Nanoforum, Università di Roma, settembre 26, 2012, Roma, Italia.
58. P.A. Netti, "On the engineering of cell instructive materials", NanoEngineering for Medicine and Biology (NEMB) Congress, ottobre 11-12, 2012, Venezia, Italia.
59. P.A. Netti, "Mechanosensing and mechanotransduction: cell's sense of stress", BIOMICS, novembre 5, 2012, Università di Napoli "Federico II", Napoli, Italia.
60. P.A. Netti, "La sperimentazione delle nuove tecnologie applicate alla medicina", V convegno Comitato Etico per le attività biomediche, Facoltà di medicina e Chirurgia, Federico II Napoli, novembre 23, 2012, Napoli, Italia.
61. P.A. Netti, "Novel materials and processes to engineering biological tissues in vitro", Scuola Interpolitecnica di dottorato, Fall school, dicembre 3-6, 2012, Bari, Italia.
62. P.A. Netti, "Mastering material-cytoskeleton crosstalk to engineering a new generation of cell instructive biomaterials", Third International Conference on Multifunctional, Hybrid and Nanomaterials, marzo 3-7, 2013 Sorrento (Na), Italia.
63. P.A. Netti, "Cell instructive materials as scaffolds for building functional tissue in vitro", ASBTE 2013, 2-5 aprile, 2013, Adelaide, Australia.
64. P.A. Netti, "Deciphering the dialogues at the cell-material interface", SPIE Optical Metrology, 2-5 maggio, 2013, Monaco, Germania.
65. P.A. Netti, "Cell instructive materials to engineering biological tissues in vitro", ESB 2013, 8-12 settembre, 2013, Madrid, Spagna.
66. P.A. Netti, "Nanoengineered scaffolds to build functional tissue in vitro", International School of Physics and Technology of Matter, 15-17 settembre, 2013, Otranto, Italia.
67. P.A. Netti, "Cell instructive materials to guide controlled cell fate", BioNanoMaterials 2013, 18 ottobre, 2013, Salerno, Italia.

**Dati personali** Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".