



PERSONAL INFORMATION

First name(s) / Surname(s) Marianna Nuti
Address Dept. Experimental Medicine Viale Regina Elena 324, 00136 Rome Italy
Telephone office +39 06 4997-3029/ 3025
Fax + 39 06 4997 3029
E-mail marianna.nuti@uniroma1.it nutimarianna@gmail.com
Nationality Italian
Gender Female
Occupational field General Pathology MED 04

WORK EXPERIENCE

- Dates (from – to) **2000-TODAY**
- Name and address of employer University Sapienza Rome, Italy
- Type of business or sector University, Medical School
- Occupation or position held Full Professor Pathology
- Main activities and responsibilities Teaching, Tutoring, Coordinator of III year Medical students
Scientific research, Laboratory Tumor Immunology , Director
Member of the Resource Committee of the Medical School Faculty
Appointed Member of the Scientific editorial board of Sapienza Press
Appointed Faculty Secretary (from 2001-2004)
Vicepresident elected of Nurse Academic programme (2000-2006)
Appointed Responsible of the Faculty Web Site (2005-2010)
Appointed Responsible of Erasmus Programme

- Dates (from – to) **2008-TODAY**
- Name and address of employer Azienda Policlinico Umberto I Hospital
- Type of business or sector Hospital
- Occupation or position held Director, GMP Facility, Cell Therapy
- Main activities and responsibilities Qualified Person for Human Cell Therapies GMP Facility

- Dates (from – to) **1992-2000**
- Name and address of employer University of Pisa, Italy
- Type of business or sector University, Medical School
- Occupation or position held Associate Professor Pathology
- Main activities and responsibilities Teaching, Tutoring, Coordinator of III year Medical students
Scientific research, Laboratory Tumor Immunology , Director

- Dates (from – to) **1982-1992**
- Name and address of employer University of Pisa, Italy
- Type of business or sector University, Medical School
- Occupation or position held Research Associate Pathology
- Main activities and responsibilities Teaching and Tutoring University Medical students

Scientific research, Laboratory Tumor Immunology

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

1980-1982

National Cancer Institute, National Institutes of Health, Bethesda, Washington DC, USA
Medical Research
Post-Doc Fogarthy Fellow
Scientific research, Laboratory Tumor Immunology

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

1979-80

University of Texas, MD Anderson Hospital, Houston Texas USA
University, Medical School
Fulbright Fellowship Scholar
Scientific research, Laboratory Tumor Immunology

EDUCATION AND TRAINING

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

1977-1978

University of Pisa

Biomedical Science

National Research Council Fellowship

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered

1978-1979

Graduate School of Biomedical science

Graduate Student in Biomedical science

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification (if appropriate)

1972-1976

University of Pisa

Biomedical science

Laurea in Scienze Biologiche

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

ORGANISATIONAL SKILLS AND COMPETENCES

COORDINATOR OF SEVERAL NATIONAL AND INTERNATIONAL PROJECTS
DIRECTOR OF RESEARCH LABORATORY
LEADER OF SCIENTIFIC PROJECTS WITH ADMINISTRATIVE RESPONSIBILITY
APPOINTED FOR COORDINATION OF ACADEMIC ORGANIZATION (STUDENTS MANAGEMENT, FACULTY WEB SITE, FACULTY ORGANIZATION)
APPOINTED COORDINATOR OF ERASMUS PROGRAMME

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

	ENGLISH
• Reading skills	excellent
• Writing skills	excellent
• Verbal skills	excellent
	FRENCH
• Reading skills	basic
• Writing skills	basic
• Verbal skills	good

Selected Scientific Publications

Colcher,D.,Hand,P.,NUTI,M.,Schlom,J.: A spectrum of monoclonal antibodies reactive with human mammary tumor cells. *Proc.Natl.Acad.Sci.USA* 78,3199-3203,1981.

NUTI,M.,Teramoto,Y.,Mariani-Costantini,R.,Horan Hand,P.,Colcher,D.,Schlom,J.:A monoclonal antibody (B72.3) defines pattern of distribution of a novel tumor associated antigen in human mammary carcinoma cell population. *Int.J.Cancer* 29,539-545,1982.

Colcher,D.,Horan Hand,P.,NUTI,M.,Schlom,J.: Differential binding to human mammary and non-mammary tumors of monoclonal antibodies reactive with carcinoembryonic antigen. *Cancer Invest.* 1,127-138,1983.

NUTI,M.,Castagna,M.,Squartini,F.: Morphological assessment of reactivity to monoclonal antibodies generated against breast cancer cells in mammary tissues removed for clinical dysplasia or cancer. *Applied Path. (Path. Res. Practice)* 2,117-127,1984.

NUTI,M.,Mottolese,M.,Viora,M.,Perrone Donnorso,R., Schlom,J.,Natali,P.G.: Use of monoclonal antibodies to human breast tumor associated antigens in fine needle aspirate cytology. *Int.J.Cancer* 37,493-498, 1986.

Castagna,M.,NUTI,M.,Squartini,F.: Mammary cancer antigen recognized by monoclonal antibody B72.3 in apocrine metaplasia of the human breast. *Cancer Res.* 47,902-906,1987.

Muraro,R., NUTI,M., Natali,P.G., Bigotti,A., Simpson,J.F., Primus,F.J., Colcher,D.,Greiner,J.,Schlom,J.:Generation and characterization of a monoclonal antibody D 612 with selective reactivity for malignant and normal gastrointestinal epithelium. *Int.J.Cancer*,43,589-607,1989.

Rughetti,A.,Turchi,V.,Apollonj Ghetti,C.,Scambia,G.,Benedetti Panici,P.L.,Roncucci,G.,Mancuso,S.,Fрати,L.,NUTI,M. Human B-cell immune response to the Polymorphic Mucin. *Cancer Res.*53,2457-2459,1993.

Petrarca,P., Rughetti,A., Rahimi,H., D'Agostini,F., Apollonj Ghetti,C., Scambia,G., Frati,L., NUTI,M.: Human antibodies against the Polymorphic Epithelial Mucin in ovarian cancer patients recognize a novel aminoacid sequence in the tandem repeat region. *Eur.J.Cancer*, 32A: 2155-2163,1996.

Petrarca,P., Casalino, B., von Mensdorff-Pouilly, Rughetti, A., Rahimi,H., Scambia,G., J., Hilgers, Frati, L., NUTI,M.: Isolation of MUC-1 primed B lymphocytes from tumour draining lymph nodes using immunomagnetic beads. *Cancer Imm.Immunother.* 47:272-7, 1999.

Rughetti,A., Biffoni, M., Sabbatucci, M., Rahimi, H., Pellicciotta, I., Fattorossi, A., Pierelli, L., Scambia, G., Lavitrano, ML., Frati, L.,NUTI, M.: Transfected human dendritic cells to induce antitumor immunity. *Gene Ther.* 7:1458-66, 2000.

Fattorossi, A., Battaglia, A., Pierelli, L., Malinconico,P., Andreocci,L., Perillo, A., Ferrandina,G., Martelli, O., Rughetti, A., NUTI, M., Cortesi, E., Scambia, G.. Effects of G-CSF and GM-CSF administration on T cell proliferation and phagocyte cell surface molecules during hematopoietic reconstitution after autologous peripheral blood progenitor cell transplantation. *Cancer Immunol Immunother.* 49:641-648, 2001.

Pierelli, L, Perillo, A, Ferrandina, G, Salerno, G, Fattorossi, A, Battaglia, A, Rughetti, A, NUTI, M, Cortesi, E, Leone, G, Mancuso, S, Scambia, G. The role of growth factor administration and T-cell recovery after peripheral blood progenitor cell transplantation in the treatment of solid tumors: results from a randomized comparison of G-CSF and GM-CSF. *Transfusion* 41: 1577-1585, 2001

Rughetti, A, Biffoni, M, Pierelli, L, Rahimi, H, Bonanno, G, Barachini, S, Ilenia Pellicciotta, Napoletano, C, Pescarmona, E, Del Nero, A, Pignoloni,P, Frati, L, NUTI, M. Regulated expression of MUC1 epithelial antigen in erythropoiesis. *British Journal of Haematology*, 120: 344-352, 2003.

- Rughetti A, Pellicciotta I, Biffoni M, Bäckström M, Link T, Bennet EP, Clausen H, Noll T, Hansson GC, Burchell JM, Frati L, Taylor-Papadimitriou J, and Nuti M. Recombinant tumor-associated MUC1 glycoprotein impairs the differentiation and function of Dendritic Cells. *J Immunology*, 174:7764-7772, 2005.
- Napoletano C, Pinto D, Bellati F, Taurino F, Rahimi H, Tomao F, Panici PB, Rughetti A, Frati L, Nuti M. 30. A comparative analysis of serum and serum-free media for generation of clinical grade DCs. *J Immunother*. 30(5):567-76, 2007.
- Napoletano C, Rughetti A, Tarp MP, Coleman J, Bennett EP, Picco G, Sale P, Denda-Nagai K, Irimura T, Mandel U, Clausen H, Luigi Frati, Joyce Taylor-Papadimitriou, Joy Burchell, Marianna Nuti. Tumor Associated Tn-MUC1 Glycoform is Internalized through the Macrophage Galactose-type C-type Lectin and delivered to the HLA Class I and II Compartments in Dendritic Cells. *Cancer Research*, 67:1-10, 2007.
- Napoletano C, Bellati F, Tarquini E, Palaia I, Landi R, Mancini N, Spagnoli G, Rughetti A, Benedetti Panici P, Nuti M. Cancer Testis Antigen expression in primary and recurrent vulvar cancer: association with prognostic factors. *Eur J Cancer* 2007 43:2621-2627.
- Napoletano C, Taurino F, Biffoni M, De Majo A, Coscarella G, Bellati F, Rahimi H, Pauselli S, Pellicciotta i, Burchell J, Gaspari LA, Ercoli L, Rossi P, Rughetti A. RFA strongly modulates immune system and the anti-tumor immune response in HCC and metastatic liver patients. *Int J Oncol* 2008;32:481-490.
- Napoletano C, Bellati F, Tarquini E, Tomao F, Taurino F, Spagnoli G, Rughetti A, Muzii L, Nuti M and Benedetti Panici P. MAGE-A and NY-ESO-1 expression in cervical cancer: investigation on prognostic factors and effect of chemotherapy. *Am J Obst Gynecol*, 2008 198:99e1-7.
- Bellati F, Visconti V, Napoletano C, Antonilli M, Benedetti-Panici P, Nuti M. Immunology of gynecologic neoplasms: analysis of the prognostic significance of the immune status. *Curr Cancer Drug Targets*, 2009;9:541-65.
- Rutella S, Bonanno G, Procoli A, Mariotti A, Corallo M, Prisco MG, Eramo A, Napoletano C, Gallo D, Perillo A, Nuti M, Pierelli L, Testa U, Scambia G, Ferrandina G. Cells with characteristics of cancer stem/progenitor cells express the CD133 antigen in human endometrial tumors. *Clin Cancer Res*. 2009; 15: 4299-311.
- Napoletano C, Rughetti A, Pinto D, Landi R, Rahimi H, Giusti I, Taurino F, Pauselli S, Dolo V, Frati L, Nuti M. Immunogenicity of allo-vesicle carrying ErbB2 tumor antigen for dendritic cell based antitumor immunotherapy. *Int J Immunopathol Pharmacol*. 2009; 22:647-58.
- Napoletano C, Bellati F, Landi R, Pauselli S, Marchetti C, Visconti V, Sale P, Rughetti A, Frati L, Benedetti Panici P, Nuti M. Ovarian Cancer Primary Cytoreduction as a Unique Chance to Reduce Tumor Immunosuppression. *J Cell Mol Med*. 2010, 14(12), 2748-59.
- Bellati F, Napoletano C, Ruscito I, Pastore M, Pernice M, Antonilli M, Nuti M, Benedetti Panici P. Complete Remission of Ovarian Cancer Induced Intractable Malignant Ascites with Intraperitoneal Bevacizumab. Immunological Observations and a Literature Review. *Investigational New Drugs*. 2010, 28(6), 887-994.
- Bellati F, Napoletano C, Ruscito I, Liberati M, Benedetti Panici P, Nuti M. Cellular Adaptive Immune System Plays a Crucial Role in Trastuzumab Clinical Efficacy. *J Clin Oncol*. 2010, 20;28(21), 369-70.
- Bellati F, Napoletano C, Gasparri ML, Benedetti Panici P, Nuti M. Immunological Systemic Effect of Neoadjuvant Chemotherapy Requires to be Investigated Before Tumor Associated Lymphocytes can be Introduced in Breast Cancer Treatment Algorithm. *J Clin Oncol*. 2010, 20;28(27)471-2.
- Zizzari IG, Veglia F, Taurino F, Rahimi H, Quaglino E, Belleudi F, Riccardo F, Antonilli M, Napoletano C, Bellati F, Benedetti-Panici P, Torrisi MR, Frati L, Nuti M, Rughetti A. HER2-based recombinant immunogen to target DCs through FcγRs for cancer immunotherapy. *J Mol Med (Berl)*. 2011 Dec;89(12):1231-40.
- Nuti M, Bellati F, Visconti V, Napoletano C, Domenici L, Caccetta J, Zizzari IG, Ruscito I, Rahimi H, Benedetti-Panici P, Rughetti A. Immune effects of trastuzumab. *J Cancer*. 2011;2:317-23.
- Bellati F, Napoletano C, Gasparri ML, Visconti V, Zizzari IG, Ruscito I, Caccetta J, Rughetti A, Benedetti Panici P, Nuti M. Monoclonal antibodies in gynecological cancer: a critical point of view. *Clin Dev Immunol. Epub* 2011 Dec 26.
- Pierelli L, Fioravanti D, Patti D, Iudicone P, Scocchera R, Pandolfi A, Nuti M. Counting of leukocytes in samples from G-CSF mobilized donors, leukapheresis products, and cord blood: the performances of analyzer with dedicated profiles. *Int J Lab Hematol*. 2012 Apr;34(2):154-63
- Bellati F, Napoletano C, Gasparri ML, Ruscito I, Marchetti C, Pignata S, Tomao F, Benedetti Panici P, Nuti M. Current knowledge and open issues regarding Bevacizumab in gynecological neoplasms. *Crit Rev Oncol Hematol*. 2012 Jul;83(1):35-46.

Marchetti C, Bellati F, Musella A, Napoletano C, Perniola G, Di Donato V, Pignata S, Nuti M, Panici PB. Thinking twice before abandoning first-line chemotherapy in ovarian cancer: report of two cases and literature review. Passing from tri-weekly to weekly regimens. *Int J Clin Oncol* 2012 Aug;17(4):385-9.

Napoletano C, Zizzari IG, Rughetti A, Rahimi H, Irimura T, Clausen H, Wandall HH, Belleudi F, Bellati F, Pierelli L, Frati L, Nuti M. Targeting of macrophage galactose-type C-type lectin (MGL) induces DC signaling and activation. *Eur J of Immunology*. 2012; 42: 1-11.

Rutella S, Iudicone P, Bonanno G, Fioravanti D, Procoli A, Lavorino C, Foddai ML, Lorusso D, Martinelli E, Vacca M, Ipsevich F, Nuti M, Scambia G, Pierelli L. Adoptive immunotherapy with cytokine-induced killer cells generated with a new good manufacturing practice-grade protocol. *Cytotherapy*. 2012 ;14(7):841-50.

Bellati F, Napoletano C, Ruscito I, Visconti V, Antonilli M, Gasparri ML, Zizzari IG, Rahimi H, Palaia I, Rughetti A, Benedetti Panici P, Nuti M. Past, Present and Future Strategies of Immunotherapy in Gynecological Malignancies. *Curr Mol Med*. 2013 ; 13(4)648-69.

Gasparri ML, Bellati F, Napoletano C, Panici PB, Nuti M. Interaction between Treg cells and angiogenesis: A dark double track. *Int J Cancer*. 2013 ; 15 132(10) 2469.

Paroli M, Bellati F, Videtta M, Focaccetti C, Mancone C, Donato T, Antonilli M, Perniola G, Accapezzato D, Napoletano C, Nuti M, Bartolazzi A, Panici PB, Tripodi M, Palombo F, Barnaba V. Discovery of chemotherapy-associated ovarian cancer antigens by interrogating memory T cells. *Int J Cancer*. 2014, 134(8):1823-34.

Rughetti A, Rahimi H, Belleudi F, Napoletano C, Battisti F, Zizzari IG, Antonilli M, Bellati F, Wandall H H, Benedetti Panici PG, Burchell JM, Torrisi MR, Nuti M Microvesicle cargo of TAA-MUC1 allows cross-presentation and specific carbohydrate processing. *Cancer Immunology Research*, 2014 2(2) 177-186.

Iudicone P, Fioravanti D, Bonanno G, Miceli M, Lavorino C, Totta P, Frati L, Nuti M, Pierelli L. Pathogen-free, plasma-poor platelet lysate and expansion of human mesenchymal stem cells. *J Transl Med*. 2014, 12:28

Carpino G, Cardinale V, Gentile R, Onori P, Semeraro R, Franchitto A, Wang Y, Bosco D, Iossa A, Napoletano C, Cantafora A, D'Argenio G, Nuti M, Caporaso N, Berloco P, Venere R, Oikawa T, Reid L, Alvaro D, Gaudio E. Evidence for multipotent endodermal stem/progenitor cell populations in human gallbladder. *J Hepatol*. 2014, S0168-8278(14)00102-0

Cardinale V, Carpino G, Gentile R, Napoletano C, Rahimi H, Franchitto A, Semeraro R, Nuti M, Onori P, Berloco PB, Rossi M, Bosco D, Brunelli R, Fraveto A, Napoli C, Torrice A, Gatto M, Venere R, Bastianelli C, Aliberti C, Salvatori FM, Bresadola L, Bezzi M, Attili AF, Reid L, Gaudio E, Alvaro D. Transplantation of human fetal biliary tree stem/progenitor cells into two patients with advanced liver cirrhosis. *BMC Gastroenterol*. 2014 Dec 4;14:204.

Zizzari IG, Martufi P, Battisti F, Rahimi H, Caponnetto S, Bellati F, Nuti M, Rughetti A, Napoletano C. The Macrophage Galactose- Type- C- Type Lectin (MGL) modulates T cell regulatory functions. *PLoS One* 2015 Jul 6; 10(7) doi: 10.1371/journal.pone.0132617. eCollection 2015.

Zizzari IG, Napoletano C, Battisti F, Rahim H, Caponnetto S, Pierelli L, Nuti M, Rughetti A. MGL receptor and immunity: when the ligand can make the difference. *Journal of Immunology Research*, 2015: 450695. doi:10.1155/2015/450695. Epub 2015 Dec 29 .

Antonilli M, Rahimi H, Visconti V, Napoletano C, Ruscito I, Zizzari IG, Caponnetto S, Barchiesi G, Iadarola R, Pierelli L, Rughetti A, Bellati F, Benedetti Panici P, Nuti M. Triple peptide vaccination as consolidation treatment in women affected by ovarian and breast cancer: clinical and immunological data of a phase I/II clinical trial. *International Journal of Oncology*, 2016;48:1369-78.

Napoletano C, Ruscito I, Bellati F, Pernice M, Zizzari IG, Caponnetto S, Tomao F, Caserta D, Frigerio L, Liberati M, Rughetti A, Benedetti Panici P, Nuti M. Immunological and clinical impact of Cancer Stem Cells in Vulvar Cancer: role of CD133/CD24/ABCG2-Expressing Cells. *Anticancer Research*., 2016 [In Press]

Botticelli A, Zizzari I, Mazzuca F, Ascierio PA, Putignani L, Marchetti L, Nuti M, Marchetti P. Cross-talk between microbiota and immune fitness to steer and control response to anti PD-1/PDL-1 treatment. *Oncotarget* 2016 Oct 28. doi: 10.18632/oncotarget.12985. [Epub ahead of print]

Textbooks (Chapters, etc.)

Schlom J., Colcher D., Teramoto Y., Horan Hand P., Nuti M., Austin F., Mariani R., Wunderlich D.: Generation and characterization of murine and human monoclonal antibodies reactive with human mammary tumor cells. "Hybridomas in cancer diagnosis and treatment" Mitchell M.S. and Oettgen H.F. editors, Raven Press New York, USA vol.21, 213-214, 1982.

Horan Hand P., Colcher D., Wunderlich D., Nuti M., Teramoto Y., Kufe D., Schlom J.: Rational basis for the diagnostic, prognostic and therapeutic utility of monoclonal antibodies in the management of human breast cancer. "Rational basis for chemotherapy" Alan Liss, New York, vol 1, pag.315-358, 1983.

Colcher,D.,Horan Hand,P.,Wunderlich,D.,NUTI,M.,Teramoto, Y.,Kufe,D.,Schlom,J.: Potential diagnostic and prognostic applications of monoclonal antibodies to human mammary carcinomas." *Monoclonal antibodies and cancer*" Wright ed. New York,Dekker.pag.121-159, 1983.

Schlom,J.,Colcher,D.,Horan Hand,P.,Wunderlich,D., NUTI,M.,Teramoto,Y. Kufe,D.: Potential of monoclonal antibody technology in the management of human mammary carcinoma. " *Current controversies in breast cancer*" Ames,Blumenshein and Montague eds.University of Texas Press,USA, pag.219-251,1984.

NUTI,M.,Turchi,V.,Cianfriglia,M.,Fрати,L.,Natali,P.G.: Generation of a monoclonal antibody recognizing a novel breast tumor associated antigen. " *Monoclonals and DNA probes in diagnostic and preventive medicine*" Gallo,Della Porta and Albertini eds. Raven Press,129-133,1987.

Works (PATENTS § AWARDS)

1- American Patent no.4,612,282 : Monoclonal Antibodies reactive with human breast cancer.

2- Inventor award from the American Department of Commerce in 1982.

3- Italian Patent "Anticorpi monoclonali contro la lipasi da *Candida rugosa*", nr. MI2001A000940, 8-05- 2001.

4- International Patent PCT : Monoclonal antibodies against lipase from *Candida rugosa*", October 2002

5- Italian Patent no. RM2011A000500 23 -09-2011, Lisato piastrinico, usi di esso e metodo per la sua preparazione.

6- International Patent PCT: 24/09/2012 PCT/IB2012/055062. Platelet Lysate, uses and methods of preparation.

Marianna Nuti

Firmato

5 Aprile 2017