

Renato Mariani-Costantini

CURRICULUM VITAE

Personal information

Family name, First name: Mariani-Costantini, Renato

Researcher unique identifier (ORCID):

<https://orcid.org/0000-0002-4440-1848>

Date of birth: 22.02.1951

Place of birth: Rome, Italy

Nationality: Italian

Work Address

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Education and Qualifications

1976: Graduated in Medicine and Surgery with honors, University “La Sapienza”, Rome, Italy

1977: Italian Medical Licensing Examination passed (Rome, Italy)

1977: Post-graduate internship in Neurosurgery, University “La Sapienza”, Rome, Italy

1977: Educational Commission Foreign Medical Graduates (ECFMG) passed

1978: Visa Qualifying Examination passed

1979: United States Medical Licensing Examination passed (District of Columbia)

1981: Certification of Residency Training in Pathology, George Washington University and Affiliated Hospitals, Washington, DC, USA

1982: Italian Board certification in Anatomic Pathology, University “La Sapienza”, Rome, Italy

Employment and Academic Ranks

1978–1981: Resident in Anatomic Pathology, George Washington University Medical Center and Affiliated Hospitals, Washington, D.C., USA



1981: Guest Worker, Laboratory of Cellular and Molecular Biology, National Cancer Institute, NIH Bethesda, Maryland, USA

1981-1982: Fellow, Division of Anatomic Pathology, Istituto Nazionale per lo Studio e la Cura dei Tumori, Milan, Italy

1983: Associate Researcher, Division of Experimental Oncology A, Istituto Nazionale per lo Studio e la Cura dei Tumori, Milan, Italy

1983-1987: Staff Researcher, Institute of General Histology and Embriology, Faculty of Medicine and Surgery, University of Rome "La Sapienza"

1984-1987: John Fogarty Visiting Associate, Laboratory of Tumor Immunology and Biology, Oncogenetics Section, National Cancer Institute, NIH, Bethesda, Maryland, USA

1987-1994: Associate Professor of General Pathology, University "G. d'Annunzio", Chieti, Italy

July-October 1989: Visiting Scientist, Department of Immunology, Karolinska Institutet, Stockholm, Sweden

1994-1997: Extraordinary Professor of General Pathology, University "G. d'Annunzio", Chieti, Italy

1997-current: Full Professor of General Pathology, University "G. d'Annunzio", Chieti, Italy

Institutional Responsibilities

1996-current: Committee member for the PhD student track, Scuola Superiore di Dottorato, G. d'Annunzio University, Chieti, Italy.

2003-current: Head, Unit of General Pathology, Aging Research Center, G. d'Annunzio University Foundation, Chieti, Italy.

2008-2011: Head, Department of Oncology and Experimental Medicine, G. d'Annunzio University, Chieti Italy.

2008-current: President, Interinstitutional Ethical Committee for Animal Experimentation of the Universities of Chieti, L'Aquila, Teramo and of the Zooprophyllactic Institute Abruzzo-Molise

2008-current: Delegate of the Rector to Animal Experimentation, G. d'Annunzio University, Chieti, Italy.

2018-current: Coordinator, Organism Superintending Animal Experimentation and Welfare (*Organismo preposto al benessere animale*, OpBA), G. d'Annunzio University, Chieti, Italy.

2020-current: Director, Center of Advanced Studies and Technology (CAST), G. d'Annunzio University, Chieti, Italy.

Teaching Activities

1988-current: General Pathology and Physiopathology, Course of Medicine and Surgery, G. d'Annunzio University, Chieti, Italy.

1996-current: teacher, PhD student track, Scuola Superiore di Dottorato, G. d'Annunzio University, Chieti, Italy.

1996-current: Graduate Student Advisor, Scuola Superiore di Dottorato, G. d'Annunzio University, Chieti, Italy.

2014-current: General Pathology and Physiopathology, Course of Dentistry and Dental Prosthesis, G. d'Annunzio University, Chieti, Italy.

Websites:

ORCID iD: <https://orcid.org/0000-0002-4440-1848>

Google Scholar Citations: <https://scholar.google.com/citations?user=80KOz4MAAAAJ&hl=it>

Scopus parameters (March 4, 2020): Renato Mariani-Costantini Author ID: 7004654530

H-Index: 36 - citations: 4535

Memberships of Scientific Societies

- European Network for the Study of Adrenal Tumours (ENS@T)

Former member of:

- International Society of International Society of Nutrigenetics/Nutrigenomics (ISNN)
www.nutritionandgenetics.org/

- The African Society of Human Genetics (AfSHG) <https://www.afshg.org/>

- Società Italiana di Cancerologia <https://www.cancerologia.it/>

- Paleopathology Association (PPA) <https://paleopathology-association.wildapricot.org/>

Reviewing Activities

- FUNDACIÓ LA MARATÓ DE TV3 (<http://www.ccfundacions.cat/fundacions/fundacio-la-marato-de-tv3>)
- The French National Cancer Institute (INCa) (<https://en.e-cancer.fr/>)
- Several scientific journals

Scientific Achievements

Prof. Mariani-Costantini's lab developed some of the first in vitro and in vivo models for the study of head and neck paraganglioma that served for the study of tumor development and for preclinical therapies, built an extensive head and neck paraganglioma biobank and provided original data on global genetic alterations in head and neck paraganglioma and on the role of the NOTCH1 pathway (refs A7, A8, A10, A12, A25).

Achievements in other areas of molecular oncology regard: a) the analysis of gene-environment interactions in pre-menopausal breast cancer patients from Central Sudan (refs. A6, A24, A15, A29, A32, A34, A39, A57, A60, A64), Argentina (refs A30, 45) and Italy (refs A87, A93, A95, A97, A99, A102, A113, A122, A129); b) the molecular epidemiology of gastric cancer in Italy (refs A56, A58, A72, A90, A91, A98, A103, A124, A127, A130); c) the genetic characterization of the heterogeneity of hereditary colorectal cancer and related syndromic tumors in Italy (refs A35, A38, A79, A83, A86, A88, A112, A117, A123, A125, A126, A136) and in Iran (ref A77); d) the global correlation between food patterns and p53 mutational signatures in colorectal cancer (refs A53, A59). Other achievements include seminal studies on the biological and toxicological implications of exposure to heavy metal-based nano/microparticulates (refs A17, A19, A20, A22, A54, A55). Early career achievements include the development of monoclonal antibodies for immunohistochemical diagnosis of breast, lung and colorectal cancer (refs A160, A161, A162, A170, A171, A172, A173, A174, A176, A177, A179, A180), the first description of the evolutionary relationships of human endogenous retroviruses (ref A163), early studies on the role of oncogenes in breast and colorectal cancer (refs A164, A167, A168, A169). Achievements in the area of paleopathology and paleoanthropology include: i) discovery of the Middle Pleistocene Hominid site of Castel di Guido near Rome and publication of its human fossils (refs A108, A178); ii) new discoveries on the paleopathology of ancient Rome and on surgical approaches and healing rituals in classical medicine (refs A94, A105, A115, A131); paleogenetic analysis of the origin of the dogs (refs A73, A84). Finally, early career achievements as a practicing pathologist include the publication of illustrative autopsy cases of noteworthy clinical relevance (refs A181, A182, A183, A184).

Funded projects (Principal Investigator)

1. New role of HCMV in head/neck paraganglioma: functional loops controlled by host miRNAs and novel therapeutic targets.

Associazione Italiana per la Ricerca sul Cancro (Milan) 2016-01 to 2018-09

GRANT_NUMBER: IG16932

2. Probing hypoxia-driven oncogenic progression via pathway dependencies: the paraganglioma paradigm.

Associazione Italiana per la Ricerca sul Cancro (Milan) 2009-11 to 2012-12

GRANT_NUMBER: IG9168

3. Paleopatologia molecolare delle malattie neoplastiche ed infettive.

Ministry of Higher Education and Scientific Research (Rome) 2003-11 to 2005-12

GRANT_NUMBER: 2003067835_005

4. La popolazione di Roma antica: analisi osteoarcheologica dell'impatto delle malattie e della possibile conservazione del DNA per lo studio dell'eterogeneità genetica.

Ministry of Higher Education and Scientific Research (Rome) 2000-12 to 2003-01

GRANT_NUMBER: MM10264872_003

5. AIRC coordinated grant on hereditary breast cancer (Prof. G. Bevilacqua) - Unit of Chieti.

Associazione Italiana per la Ricerca sul Cancro (Milan) 2001-11 to 2004-12

6. Genetica e patologia molecolare dei carcinomi ereditari della mammella/ovaio legati a mutazioni germinali dei geni BRCA1 e BRCA2.

Ministry of Education and Scientific Research (Rome) 1999-11 to 2002-08

GRANT_NUMBER: 9906174322_011

7. Gastric cancer with mutator phenotype: genetic bases, mechanisms of progression and molecular epidemiology.

Associazione Italiana per la Ricerca sul Cancro (Milan) 1998-11 to 2001-12

8. Regolazione dei geni BRCA1 e BRCA2 nella transduzione del segnale mediata da recettori ERB-B e dal recettore estrogenico (ER).

Italian Ministry of Education and Scientific Research (Rome) 1998-12 to 2001-01

GRANT_NUMBER: 9806267988_008

9. Ministero Università e Ricerca Scientifica e Tecnologica, Progetto Nazionale di Ricerca “Scambi internazionali Italia-USA”, responsabile Unità operativa 1992-1996

10. Progetto Finalizzato CNR Beni Culturali - Sottoprogetto 4: Analisi e conservazione della diversità biologica: "archivio" botanico, zoologico, antropologico

Italian National research Council (CNR) (Rome) 1996-01 to 2000-12

11. Responsabile, Progetto AIRC 1995-1998 “Ruolo di Mutazioni del gene BRCA1 e dell’instabilità genomica nel carcinoma della mammella”.

12. Progetto Finalizzato "Applicazioni Cliniche della Ricerca Oncologica" (Acro)

Consiglio Nazionale delle Ricerche (Rome), Unità di Ricerca su “Oncogeni e geni oncosoppressori in neoplasie epiteliali”, 1991-01 to 1996-12|

URL: <http://progettooncologia.cnr.it/>

13. P.I., progetti AIRC e Ministero Università e Ricerca Scientifica, 1987-1997

A. 10 most important publications, last 10 years (2011-2020)

A1. Toracchio S, Caruso RA, Perconti S, Rigoli L, Betri E, Neri M, Verginelli F, **Mariani-Costantini R**.

Evolutionarily-Related Helicobacter pylori Genotypes and Gastric Intraepithelial Neoplasia in a High-Risk Area of Northern Italy. Microorganisms. 2020 Feb 26;8(3). pii: E324. doi: 10.3390/microorganisms8030324.

A2. Cirone M, Lotti LV, Granato M, Renzo LD, Biunno I, Cattaneo M, Verginelli F, Vespa S, Davies D, Wells V, **Mariani-Costantini R**, Mallucci L. Sourcing the immune system to induce immunogenic cell death in Kras-colorectal cancer cells. Br J Cancer. 2019 Oct;121(9):768-775. doi: 10.1038/s41416-019-0561-z. Epub 2019 Sep 27. PMID: 31558803

A3. Lotti LV, Vespa S, Pantalone MR, Perconti S, Esposito DL, Visone R, Veronese A, Paties CT, Sanna M, Verginelli F, Naclér CS, **Mariani-Costantini R**. A Developmental Perspective on Paragangliar Tumorigenesis. Cancers (Basel). 2019 Feb 26;11(3). pii: E273. doi: 10.3390/cancers11030273. Review. PMID: 30813557 Free PMC Article

A4. Verginelli F, Perconti S, Vespa S, Schiavi F, Prasad SC, Lanuti P, Cama A, Tramontana L, Esposito DL, Guarnieri S, Sheu A, Pantalone MR, Florio R, Morgano A, Rossi C, Bologna G, Marchisio M, D'Argenio A, Taschin E, Visone R, Opocher G, Veronese A, Paties CT, Rajasekhar VK, Söderberg-Nauclér C, Sanna M, Lotti LV, **Mariani-Costantini R**. Paragangliomas arise through an autonomous vasculo-angio-neurogenic

program inhibited by imatinib. *Acta Neuropathol.* 2018 May;135(5):779-798. doi: 10.1007/s00401-017-1799-2. Epub 2018 Jan 5. Erratum in: *Acta Neuropathol.* 2018 Feb 1; PMID: 29305721 Free PMC Article

A5. **Mariani-Costantini R.** Diagnosis: Breast cancer screening in rural African communities
Nature Reviews Clinical Oncology
2013 | journal-article
DOI: 10.1038/nrclinonc.2013.38EID: 2-s2.0-84875728106

A6. Cama A, Verginelli F, Lotti LV, Napolitano F, Morgano A, D'Orazio A, Vacca M, Perconti S, Pepe F, Romani F, Vitullo F, di Lella F, Visone R, Mannelli M, Neumann HP, Raiconi G, Paties C, Moschetta A, Tagliaferri R, Veronese A, Sanna M, **Mariani-Costantini R.** Integrative genetic, epigenetic and pathological analysis of paraganglioma reveals complex dysregulation of NOTCH signaling
Acta Neuropathologica
2013 | journal-article
DOI: 10.1007/s00401-013-1165-yEID: 2-s2.0-84885468590

A7. Vacca M, Murzilli S, Salvatore L, Di Tullio G, D'Orazio A, Lo Sasso G, Graziano G, Pinzani M, Chieppa M, **Mariani-Costantini R**, Palasciano G, Moschetta A. Neuron-derived orphan receptor 1 promotes proliferation of quiescent hepatocytes
Gastroenterology
2013 | journal-article
DOI: 10.1053/j.gastro.2013.02.027EID: 2-s2.0-84878266536

A8. Awadelkarim KD, **Mariani-Costantini R**, Elwali NE. Cancer in the Sudan: An overview of the current status of knowledge on tumor patterns and risk factors
Science of the Total Environment
2012 | journal-article
DOI: 10.1016/j.scitotenv.2010.09.010EID: 2-s2.0-84859003475

A9. Mallucci L, Shi DY, Davies D, Jordan P, Nicol A, Lotti L, **Mariani-Costantini R**, Verginelli F, Wells V, Zicha D. Killing of Kras-mutant colon cancer cells via Rac-independent actin remodeling by the β GBP cytokine, a physiological PI3K inhibitor therapeutically effective in vivo
Molecular Cancer Therapeutics
2012 | journal-article
DOI: 10.1158/1535-7163.MCT-11-1041-TEID: 2-s2.0-84866109019

A10. Esposito DL, Aru F, Lattanzio R, Morgano A, Abbondanza M, Malekzadeh R, Bishehsari F, Valanzano R, Russo A, Piantelli M, Moschetta A, Lotti LV, **Mariani-Costantini R.** The insulin receptor substrate 1 (irs1) in intestinal epithelial differentiation and in colorectal cancer
PLoS ONE
2012 | journal-article
DOI: 10.1371/journal.pone.0036190EID: 2-s2.0-84860491023

B. Original Peer-Reviewed Publications (all, 2020-1982)

B1. Simeone P, Bologna G, Lanuti P, Pierdomenico L, Guagnano MT, Pieragostino D, Del Boccio P, Vergara D, Marchisio M, Miscia S, **Mariani-Costantini R.** Extracellular Vesicles as Signaling Mediators and Disease Biomarkers across Biological Barriers. *Int J Mol Sci.* 2020 Apr 4;21(7). pii: E2514. doi: 10.3390/ijms21072514. Review.

B2. Toracchio S, Caruso RA, Perconti S, Rigoli L, Betri E, Neri M, Verginelli F, **Mariani-Costantini R.**

Evolutionarily-Related *Helicobacter pylori* Genotypes and Gastric Intraepithelial Neoplasia in a High-Risk Area of Northern Italy. *Microorganisms*. 2020 Feb 26;8(3). pii: E324. doi: 10.3390/microorganisms8030324.

B3. Ramassone A, D'Argenio A, Veronese A, Basti A, Soliman SHA, Volinia S, Bassi C, Pagotto S, Ferracin M, Lupini L, Saccenti E, Balatti V, Pepe F, Rassenti LZ, Innocenti I, Autore F, Marzetti L, **Mariani-Costantini R**, Kipps TJ, Negrini M, Laurenti L, Visone R. Genetic dynamics in untreated CLL patients with either stable or progressive disease: a longitudinal study. *J Hematol Oncol*. 2019 Nov 19;12(1):114. doi: 10.1186/s13045-019-0802-x PMID: 31744508

B4. Cirone M, Lotti LV, Granato M, Renzo LD, Biunno I, Cattaneo M, Verginelli F, Vespa S, Davies D, Wells V, **Mariani-Costantini R**, Mallucci L. Sourcing the immune system to induce immunogenic cell death in Kras-colorectal cancer cells. *Br J Cancer*. 2019 Oct;121(9):768-775. doi: 10.1038/s41416-019-0561-z. Epub 2019 Sep 27. PMID: 31558803

B5. Piras G, **Mariani-Costantini R**, Sanna M. Are Outcomes of Radiosurgery for Tympanojugular Paraganglioma Overestimated? *Otol Neurotol*. 2019 Jun;40(5):688-689. doi: 10.1097/MAO.0000000000002221. No abstract available. PMID: 31083102

B6. Visone R, Bacalini MG, Di Franco S, Ferracin M, Colorito ML, Pagotto S, Laprovitera N, Licastro D, Di Marco M, Scavo E, Bassi C, Saccenti E, Nicotra A, Grzes M, Garagnani P, De Laurenzi V, Valeri N, **Mariani-Costantini R**, Negrini M, Stassi G, Veronese A. DNA methylation of shelf, shore and open sea CpG positions distinguish high microsatellite instability from low or stable microsatellite status colon cancer stem cells. *Epigenomics*. 2019 May 1;11(6):587-604. doi: 10.2217/epi-2018-0153. Epub 2019 May 8. PMID: 31066579 Free Article

B7. Pagotto S, Veronese A, Soranno A, Balatti V, Ramassone A, Guanciali-Franchi PE, Palka G, Innocenti I, Autore F, Rassenti LZ, Kipps TJ, **Mariani-Costantini R**, Laurenti L, Croce CM, Visone R. HNRNPL Restrains miR-155 Targeting of BUB1 to Stabilize Aberrant Karyotypes of Transformed Cells in Chronic Lymphocytic Leukemia. *Cancers (Basel)*. 2019 Apr 23;11(4). pii: E575. doi: 10.3390/cancers11040575. PMID: 31018621 Free PMC Article

B8. Albertini R, **Mariani-Costantini R**, Sanna M. Proper tumor classification and growth rate are key elements when considering indications and results of radiotherapy for head and neck paragangliomas. *Head Neck*. 2019 Aug;41(8):2835-2836. doi: 10.1002/hed.25801. Epub 2019 Apr 29. No abstract available. PMID: 31034657

B9. Lotti LV, Vespa S, Pantalone MR, Perconti S, Esposito DL, Visone R, Veronese A, Paties CT, Sanna M, Verginelli F, Naclér CS, **Mariani-Costantini R**. A Developmental Perspective on Paragangliar Tumorigenesis. *Cancers (Basel)*. 2019 Feb 26;11(3). pii: E273. doi: 10.3390/cancers11030273. Review. PMID: 30813557 Free PMC Article

B10. Aceto GM, Awadelkarim KD, Di Nicola M, Moscatello C, Pantalone MR, Verginelli F, Elwali NE, **Mariani-Costantini R**. Germline TP53 mutation spectrum in Sudanese premenopausal breast cancer patients: correlations with reproductive factors. *Breast Cancer Res Treat*. 2019 Jun;175(2):479-485. doi: 10.1007/s10549-019-05168-1. Epub 2019 Feb 22. PMID: 30796655 Free PMC Article

B11. Florio R, De Lellis L, Veschi S, Verginelli F, di Giacomo V, Gallorini M, Perconti S, Sanna M, **Mariani-Costantini R**, Natale A, Arduini A, Amoroso R, Cataldi A, Cama A. Effects of dichloroacetate as single agent or in combination with GW6471 and metformin in paraganglioma cells. *Sci Rep*. 2018 Sep 11;8(1):13610. doi: 10.1038/s41598-018-31797-5. PMID: 30206358 Free PMC Article

B12. Pagotto S, Veronese A, Soranno A, Lanuti P, Di Marco M, Russo MV, Ramassone A, Marchisio M, Simeone P, Guanciali-Franchi PE, Palka G, **Mariani-Costantini R**, Croce CM, Visone R. Hsa-miR-155-5p drives aneuploidy at early stages of cellular transformation. *Oncotarget*. 2018 Feb 7;9(16):13036-13047. doi: 10.18632/oncotarget.24437. eCollection 2018 Feb 27. PMID: 29560129 Free PMC Article

- B13. Verginelli F, Perconti S, Vespa S, Schiavi F, Prasad SC, Lanuti P, Cama A, Tramontana L, Esposito DL, Guarnieri S, Sheu A, Pantalone MR, Florio R, Morgano A, Rossi C, Bologna G, Marchisio M, D'Argenio A, Taschin E, Visone R, Opocher G, Veronese A, Paties CT, Rajasekhar VK, Söderberg-Nauclér C, Sanna M, Lotti LV, **Mariani-Costantini R**. Paragangliomas arise through an autonomous vasculo-angio-neurogenic program inhibited by imatinib. *Acta Neuropathol*. 2018 May;135(5):779-798. doi: 10.1007/s00401-017-1799-2. Epub 2018 Jan 5. Erratum in: *Acta Neuropathol*. 2018 Feb 1; PMID: 29305721 Free PMC Article
- B14. Florio R, De Lellis L, di Giacomo V, Di Marcantonio MC, Cristiano L, Basile M, Verginelli F, Verzilli D, Ammazalorso A, Prasad SC, Cataldi A, Sanna M, Cimini A, **Mariani-Costantini R**, Mincione G, Cama A. Effects of PPAR α inhibition in head and neck paraganglioma cells. *PLoS One*. 2017 Jun 8;12(6):e0178995. doi: 10.1371/journal.pone.0178995. eCollection 2017. PMID: 28594934 Free PMC Article
- B15. Pepe F, Pagotto S, Soliman S, Rossi C, Lanuti P, Braconi C, **Mariani-Costantini R**, Visone R, Veronese A. Regulation of miR-483-3p by the O-linked N-acetylglucosamine transferase links chemosensitivity to glucose metabolism in liver cancer cells. *Oncogenesis*. 2017 May 8;6(5):e328. doi: 10.1038/oncsis.2017.35.m PMID: 28481368 Free PMC Article
- B16. Lupini L, Pepe F, Ferracin M, Braconi C, Callegari E, Pagotto S, Spizzo R, Zagatti B, Lanuti P, Fornari F, Ghasemi R, **Mariani-Costantini R**, Bolondi L, Gramantieri L, Calin GA, Sabbioni S, Visone R, Veronese A, Negrini M. Over-expression of the miR-483-3p overcomes the miR-145/TP53 pro-apoptotic loop in hepatocellular carcinoma. *Oncotarget*. 2016 May 24;7(21):31361-71. doi: 10.18632/oncotarget.8913. PMID: 27120784 Free PMC Article
- B17. Veronese A, Pepe F, Chiacchia J, Pagotto S, Lanuti P, Veschi S, Di Marco M, D'Argenio A, Innocenti I, Vannata B, Autore F, Marchisio M, Wernicke D, Verginelli F, Leone G, Rassenti LZ, Kipps TJ, **Mariani-Costantini R**, Laurenti L, Croce CM, Visone R. Allele-specific loss and transcription of the miR-15a/16-1 cluster in chronic lymphocytic leukemia
Leukemia
2015 | journal-article
DOI: 10.1038/leu.2014.139 EID: 2-s2.0-84920689479
- B18. Biunno I, Aceto G, Awadelkarim KD, Morgano A, Elhaj A, Eltayeb EA, Abuidris DO, Elwali NE, Spinelli C, De Blasio P, Rovida E, **Mariani-Costantini R**. BRCA1 point mutations in premenopausal breast cancer patients from Central Sudan
Familial Cancer
2014 | journal-article
DOI: 10.1007/s10689-014-9717-4 EID: 2-s2.0-84907172283
- B19. Vacca M, D'Amore S, Graziano G, D'Orazio A, Cariello M, Massafra V, Salvatore L, Martelli N, Murzilli S, Lo Sasso G, **Mariani-Costantini R**, Moschetta A. Clustering nuclear receptors in liver regeneration identifies candidate modulators of hepatocyte proliferation and hepatocarcinoma
PLoS ONE
2014 | journal-article
DOI: 10.1371/journal.pone.0104449 EID: 2-s2.0-84905851448
- B20. Sabbioni E, Fortaner S, Farina M, Del Torchio R, Olivato I, Petrarca C, Bernardini G, **Mariani-Costantini R**, Perconti S, Di Giampaolo L, Gornati R, Di Gioacchino M. Cytotoxicity and morphological transforming potential of cobalt nanoparticles, microparticles and ions in Balb/3T3 mouse fibroblasts: An in vitro model
Nano toxicology
2014 | journal-article
DOI: 10.3109/17435390.2013.796538 EID: 2-s2.0-84890390637
- B21. Bishehsari F, Mahdavinia M, Vacca M, Malekzadeh R, **Mariani-Costantini R**. Epidemiological transition of colorectal cancer in developing countries: Environmental factors, molecular pathways, and opportunities for

prevention
World Journal of Gastroenterology
2014 | journal-article
DOI: 10.3748/wjg.v20.i20.6055EID: 2-s2.0-84901499648

B22. Sabbioni E, Fortaner S, Farina M, Del Torchio R, Petrarca C, Bernardini G, **Mariani-Costantini R**, Perconti S, Di Giampaolo L, Gornati R, Di Gioacchino M. Interaction with culture medium components, cellular uptake and intracellular distribution of cobalt nanoparticles, microparticles and ions in Balb/3T3 mouse fibroblasts
Nanotoxicology
2014 | journal-article
DOI: 10.3109/17435390.2012.752051EID: 2-s2.0-84890352966

B23. Petrarca C, Clemente E, Di Giampaolo L, **Mariani-Costantini R**, Leopold K, Schindl R, Lotti LV, Mangifesta R, Sabbioni E, Niu Q, Bernardini G, Di Gioacchino M. Palladium nanoparticles induce disturbances in cell cycle entry and progression of peripheral blood mononuclear cells: Paramount role of ions
Journal of Immunology Research
2014 | journal-article
DOI: 10.1155/2014/295092EID: 2-s2.0-84904786769

B24. Prasad SC, Mimoune HA, D'Orazio F, Medina M, Bacciu A, **Mariani-Costantini R**, Piazza P, Sanna M. The role of wait-and-scan and the efficacy of radiotherapy in the treatment of temporal bone paragangliomas
Otology and Neurotology
2014 | journal-article
DOI: 10.1097/MAO.0000000000000386EID: 2-s2.0-84901617915

B25. Perconti S, Aceto GM, Verginelli F, Napolitano F, Petrarca C, Bernardini G, Raiconi G, Tagliaferri R, Sabbioni E, Di Gioacchino M, **Mariani-Costantini R**. Distinctive gene expression profiles in Balb/3T3 cells exposed to low dose cobalt nanoparticles, microparticles and ions: potential nanotoxicological relevance.
Journal of biological regulators and homeostatic agents
2013-04 | journal-article
PMID: 23830394

B26. Napolitano F, **Mariani-Costantini R**, Tagliaferri R. Bioinformatic pipelines in Python with Leaf.
BMC Bioinformatics
2013 | journal-article
DOI: 10.1186/1471-2105-14-201EID: 2-s2.0-84879068611
Source: Scopus - Elsevier Preferred source

B27. **Mariani-Costantini R**. Diagnosis: Breast cancer screening in rural African communities
Nature Reviews Clinical Oncology
2013 | journal-article
DOI: 10.1038/nrclinonc.2013.38EID: 2-s2.0-84875728106

B28. Cama A, Verginelli F, Lotti LV, Napolitano F, Morgano A, D'Orazio A, Vacca M, Perconti S, Pepe F, Romani F, Vitullo F, di Lella F, Visone R, Mannelli M, Neumann HP, Raiconi G, Paties C, Moschetta A, Tagliaferri R, Veronese A, Sanna M, **Mariani-Costantini R**. Integrative genetic, epigenetic and pathological analysis of paraganglioma reveals complex dysregulation of NOTCH signaling
Acta Neuropathologica
2013 | journal-article
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Keynote speeches and invited presentations

- Gli anticorpi monoclonali nella diagnosi istopatologica dei tumori umani. Applicazioni degli anticorpi monoclonali: primo corso di aggiornamento. Progetto Finalizzato CNR “Controllo della crescita neoplastica” – Sottoprogetto Immunologia Sperimentale. Santa Margherita Ligure, Villa Durazzo, 19-21 Maggio 1982.
- Gli anticorpi monoclonali per una miglior comprensione della storia naturale del tumore. Immunodiagnosi e immunoterapia del cancro. Attualità e prospettive. Scuola Superiore di Oncologia e Scienze Biomediche, Villa Durazzo, S. Margherita Ligure, 8-10 ottobre 1987.
- Gli Oncogeni nel Carcinoma della Mammella. Convegno: Recenti acquisizioni nella biologia del carcinoma mammario: implicazioni cliniche. Siena, 12-13 Febbraio 1988.
- Molecular Methods for Diagnosis of HIV Infections. Convegno Internazionale “AIDS and related syndromes in children”. Gruppo di Studio di Immunologia della Società Italiana di Pediatria, Firenze, 15-16 Aprile 1988.
- Ibridazione in situ. Corso Avanzato in Tecniche Immunologiche Applicate alla Pediatria. Gruppo di Studio in Immunologia della Società Italiana di Pediatria, Roma, 30 Novembre – 2 Dicembre 1988.
- In situ hybridization. Advanced Course in Molecular Pathology and Biotechnology, Ares-Serono Symposia, Regina Elena Cancer Institute, Rome, November 6-10, 1989.
- I markers tissutali. Workshop Ares-Serono Diagnostici: L’uso dei markers nella diagnostica e nel follow-up in Oncologia. Centro Convegni Villa Tuscolana, Frascati, 21 Ottobre 1989.
- Uso dell’ibridazione in situ per la valutazione di specifiche sequenze nucleotidiche direttamente a livello cellulare. Corso: Ibridazione in situ – Aspetti biologici e medico-diagnostici. Roma, Istituto Superiore di Sanità, 3-7 Settembre 1990.
- Alterazioni genetiche e dell’espressione dei proto-oncogeni c-myc, c-ras e int-2 nei carcinomi umani. Corso “Oncogeni e neoplasie umane”, Scuola Internazionale di Oncologia e Medicina Sperimentale, Roma, 7-9 Novembre 1990.
- Ruolo degli Oncogeni nelle neoplasie ormono-dipendenti. VIII Riunione Nazionale di Oncologia Sperimentale e Clinica, Bologna 25-28 Novembre 1990.
- Oncogeni. Relazione tenuta al Convegno: Carcinoma della mammella con linfonodi indenni. Caratterizzazione biologica e trattamento adiuvante nelle pazienti a rischio. Associazione Italiana di Oncologia Medica – Sezione Regionale Lazio. Roma, 24 Marzo 1990.
- Significato prognostico dell’amplificazione genica in oncologia. Settimana Internazionale di Scienze di Laboratorio, Roma 12-17 Novembre 1990.
- Diagnostica molecolare delle poliposi familiari. Scuola Superiore di Oncologia e Scienze Biomediche - 1° Congresso Nazionale Gruppo Oncologico Nord-Ovest (GONO) – Camogli, 28-29 Settembre 1993.
- Deletions of the APC gene in Italian Familial Adenomatous Polyposis Kindreds. International IATMO-CLINBIO ’94 Meeting, Naples, June 13, 1994.
- Genetic molecular progression and diagnosis of familial adenomatous polyposis coli. “Advanced technologies in minimal access surgery and G.I. cancer. Celebration of the 10th Anniversary of the University of Rome “La Sapienza” and Thomas Jefferson University Affiliation.
- Genetica e progressione molecolare dei tumori colorettali ereditari. II Congresso Italiano di Oncologia Molecolare, Positano, 10-13 Maggio 1995.

- Oncogeni e geni oncosoppressori in neoplasie epiteliali. MECCANISMI MOLECOLARI DI CRESCITA E INVASIVITA' - Brainstorm delle Unità Operative dei Sottoprogetti 2 e 3. Consiglio Nazionale delle Ricerche, Progetto Finalizzato "Applicazioni Cliniche della Ricerca Oncologica", Villasimius, 20-24 Ottobre 1995.
- Il modello dei tumori ereditari mammari ed ovarici. Tavola Rotonda SIC-AIOM "Valutazione del rischio genetico di cancro", XIV Riunione Nazionale di Oncologia Sperimentale e Clinica, Milano, 13-16 Ottobre 1996.
- Biologia di una popolazione antica: i risultati dell'analisi antropologica, paleopatologica e paleogenetica della necropoli di Vallerano (Roma, II secolo d. C.). Soprintendenza Archeologica di Roma, Palazzo Altemps, 17 Giugno 1996.
- Microsatellite instability: clinico-pathological correlations. Istituto Nazionale per lo Studio e la Cura dei Tumori, Milano, Seminar n. 81: "From molecular to surgical pathology of breast cancer". Milan, November 20-22, 1996.
- Genetica Molecolare della Neurofibromatosi. Convegno: Le malattie su base genetica del sistema nervoso. Istituto Neurologico Mediterraneo Neuromed, Pozzilli, 22 Novembre 1996.
- Poliposi adenomatosa familiare del colon. IV Corso Residenziale di Genetica Medica su "Le malattie genetiche come malattie sociali" – Chieti, 16 – 18 Giugno 1997.
- 11th European Meeting of the Paleopathology Association (PPA), Maastricht, The Netherlands, August 14-18, 1996.
- Ruolo dell'instabilità genomica nei tumori gastrointestinali. In "Diagnosi precoce di malattie genetiche e della suscettibilità ereditaria allo sviluppo di neoplasie: proposte per una programmazione sanitaria". Convegno su "Maternità ed infanzia. Dall'inizio della vita, per la qualità della vita. Istituto Superiore di sanità, Roma, 15-19 dicembre 1997.
- Genetica Paleopatologica. Corso di Perfezionamento in Paleopatologia 1997, Università degli Studi di Pisa, 17 Ottobre 1997
- Problematiche inerenti ai "Tumori ereditari". II Workshop "La Genetica Umana alle soglie del 2000", Istituto Superiore di Sanità, Roma, 19-20 Novembre 1998.
- Genetica Paleopatologica. Corso di Perfezionamento in Paleopatologia, Università degli Studi di Pisa, Pisa, 1996.
- Carcinoma familiare della mammella. Corso di Aggiornamento "I Tumori Ereditari", Istituto Nazionale per lo Studio e la Cura dei Tumori – Milano, 10-11 Aprile 1997.
- Genetica Paleopatologica. Corso di Perfezionamento in Paleopatologia 1997, Università degli Studi di Pisa, 16 Ottobre 1998
- Analisi mutazionale dei geni BRCA1 e BRCA2. Incontro di Aggiornamento Interregionale sul Carcinoma Ereditario della Mammella e dell'Ovaio e Consulenza Integrata Oncologica-Genetica-Psicologica. Napoli, 4 Dicembre 1998.
- Aspetti Molecolari delle adenomatosi familiari del colon. Convegno "Attualità in tema di tumori coloretali ereditari", Associazione Italiana per la Ricerca sul Cancro (AIRC), Comitato Emilia-Romagna, Reggio Emilia, 14 Marzo 1998.
- Gastric cancer with mutator phenotype: molecular bases and mechanisms of progression. International Workshop "Helicobacter pylori and motility disorders: from basic science to clinical management. Naples,

October 8-10, 2000.

- Tavola Rotonda: La Ricerca Scientifica e le Reliquie. Convegno Internazionale: “Dalla Passione alla Resurrezione: 2000 anni di silenziosa testimonianza” – Roma, Pontificia Università Lateranense, 6 Maggio 1999.
- What high risk group can we identify by molecular technique and its impact on family cancer screening. 7th European Gastroenterology Week, Rome, November 13-17, 1999.
- Genetica del Cancro Mammario. Convegno Scientifico Interdisciplinare “2001 Tecnologie per la Salute”, Benevento, 21-22 Marzo 1997.
- 13th European Meeting of the Palaeopathology Association, September 18-23, 2000, Chieti, Italy.
- Co-director, Course on “Hereditary Tumors”, Mediterranean School of Oncology, Consorzio Universitario Nazionale per la Bio-oncologia, Roma, 22 – 26 Ottobre 2001.
- Medicina Molecolare e Storia della Medicina: dalla paleopatologia alla genetica delle popolazioni. “La trasmissione del sapere medico. Convegno internazionale in memoria di Mirko D. Grmek. Roma, 30 maggio – 1 giugno 2002.
- Round Table: Multicentre evaluation of MRI in early diagnosis and prevention of breast cancer. Perspectives, achievements and open problems. International Symposium on the role of MRI in the early diagnosis of breast tumours in subjects at high genetic risk. Rome, Istituto Superiore di Sanità, March 22, 2002.
- Molecular Genetics of Hereditary Cancer. Overview of Oncogenes and Onco-suppressor genes. Course on: Breast and Ovarian Hereditary Tumors: Identification and Clinical Management. Mediterranean School of Oncology – Consorzio Interuniversitario Nazionale per la Bio-oncologia, Rome October 14, 2002.
- I tumori ereditari della mammella e dell’ovaio. Convegno su: “Problematiche cliniche e molecolari delle neoplasie ereditarie del colon-retto, della mammella e dell’ovaio” organizzato dal “Gruppo Italiano per lo studio dei tumori colorettali ereditari” e dal “Consorzio Italiano per i tumori ereditari della mammella e dell’ovaio – AIRC”. Verona, 15-17 Novembre 2001.
- Genetics of hereditary colorectal cancer. A basis for prevention? Course: Advances in Oncology. Ettore Majorana Center for Scientific Culture, Erice, Sicily, April 17-22, 2001.
- First International Annual Meeting of the International Society for Biological and Environmental Repositories (ISBER), Perugia, 2004.
- IACR 2005 27th Annual Meeting of the International Association of Cancer Registries Entebbe, Uganda, 13-15 settembre 2005.
- 5th Conference of the African Society of Human Genetics (AfSHG), Cairo, Egypt, 2007. Theme: Genomics Research in Africa: Implications for Disease Diagnosis, Treatment and Drug Development
- 6th Conference of the African Society of Human Genetics (AfSHG), Yaoundé, Cameroon, March 12–15, 2009. Theme: Human Origin, Genetic Diversity and Health
- 2013 Annual Conference of the European, Middle Eastern & African Society for Biopreservation and Biobanking (ESBB), Verona, Italy October 8-11, 2013.
- CMV Cancer Meeting, October 20-22, 2019, Cambridge, MA, USA (Title: “Infection by CMV-like virus(es) in Paraganglioma”)

Organization of Scientific Meetings

- Co-organizer, Course entitled “Utilizzo di Sonde Molecolari ed Ibridazione in situ”, Scuola Internazionale di Oncologia e Medicina Sperimentale, Chieti, 12-14 Ottobre 1992.
- Co-organizer, International Congress on ENVIRONMENT, IMMUNE-MEDIATED DISEASE AND CANCER: Lesson from developing and developed Countries. Khartoum, Sudan; March 28 -April 2, 2008.

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