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Position & affiliation:

Assistant Professor of General Pathology
 Department of Sciences
 Center of Advanced Studies and Technology (CAST),
 University “G. d’Annunzio” of Chieti-Pescara
 Via dei Vestini, 31 - 66100, Chieti, Italy

Professional Experience

February 2005 - Present Assistant professor, PhD
 Department of Pharmacy, University “G. d’Annunzio” of Chieti – Pescara, Italy
 ▪ Section: General Pathology

Early career research experience

January 2002 - December 2004 Post doc contract
 Department of Oncology and Neurosciences, University “G. d’Annunzio” of Chieti – Pescara, Italy
 ▪ Molecular physiopathology of hereditary gastrointestinal and breast cancers
 Field: Molecular oncology

January 2001 - December 2001 Research contract
 Department of Human and Animal Biology, University “La Sapienza” of Rome, Italy
 ▪ Analysis of human mitochondrial sequences from Asian and sub-Saharan populations
 Field: Population genetics

January 1999 - October 1999 Research contract
 Ministry for Cultural and Environmental Heritage, Rome, Italy
 ▪ Paleogenetic analysis of ancient skeletal remains from the necropolises discovered along the route of the high-speed railway (T.A.V.)
 Field: Paleogenetics, Paleopathology

October 1996 - July 1997 Research contract
 Ministry for Cultural and Environmental Heritage, Rome, Italy
 ▪ Paleogenetic analysis of anthropological remains from the Vallerano necropolis
 Field: Paleogenetics, Paleopathology

Education and training

- May 2001 PhD degree
Catholic University "Agostino Gemelli" of Rome
▪ Paleopathology
- May 1999 Qualification for professional practicing in biological Sciences
University "La Sapienza" of Rome
- July 1996 University degree with Honors in Biological Sciences
University "La Sapienza" of Rome
- June 1994 - July 1996 Undergraduate internship
Department of Oncology and Neuroscience, "Gabriele D'Annunzio" University of Chieti - Pescara
▪ Molecular Pathology

Languages

- Italian (native)
- English: Full professional proficiency

Institutional responsibility

2024 - Present - Member of the Council of the Department of Sciences, University G. d'Annunzio Chieti-Pescara

2023 - 2024 - Member of the Council of the Department of Pharmacy, University G. d'Annunzio Chieti-Pescara

2023 - Present - Member of the Technical-Scientific Committee of the UdA Biobank, accredited for the collection, conservation, and distribution of biological samples.

2023 - Present - Co-Head of the General Pathology Laboratory, Center of Advanced Studies and Technology (CAST), "G. d'Annunzio" University of Chieti, Italy

2009 - Present - Responsible for the oncology biobank and tissue archive sector of the UdA-BiOBANK located at the Center of Advanced Studies and Technology (CAST) of the "G. d'Annunzio" University of Chieti which includes tumors, blood and other biological samples.

2005 - Present - Committee member of graduation thesis defence for the Courses of Pharmaceutical Chemistry and Technology (CTF) and Pharmacy, University G. d'Annunzio Chieti-Pescara, Italy.

2005 - 2011 - Committee member for the PhD student track in "Oncology and Molecular Pathology" (XXI, XXII and XXIII cycles), Scuola Superiore di Dottorato, G. d'Annunzio University, Chieti, Italy

2007 - Member of the Committee for PhD Defence in "Environment and Territory"(XIX cycle) at the Department of Sciences and Technologies for the Environment and the Territory, University of Molise

Teaching activities

2005 - Present - Teacher of General Pathology for the Course of Pharmaceutical Chemistry and Technology, University G. d'Annunzio Chieti-Pescara

2025 - Present - Lecturer in General Pathology, Oncogenomics, and Cellular Therapies for the Master's Degree Program in Advanced Biotechnology, an inter-university joint program of the University of Teramo and the "G. d'Annunzio" University of Chieti-Pescara.

2021 - 2023 - Teacher of General Pathology for the Course of Eco-Sustainable Technologies and Environmental Toxicology, University G. d'Annunzio Chieti-Pescara

2005 - 2022 - Teacher of General Pathology for the Course of Pharmacy, University G. d'Annunzio Chieti-Pescara

2007 - Invited lecturer at "Molecular diagnostics: basic principles and applications" course accredited by the Ministry of Health (ECM, 12 credits) directed to Biomedical Laboratory Technicians. Department of Laboratory Medicine and Advanced Biotechnology, IRCCS San Raffaele - Pisana, Rome

Memberships

2016 - Present - Italian Society of Pathology and Translational Medicine (SIPMET)

2019 - Present - European Network for the Study of Adrenal Tumours (ENS@T)

Referee's activities

2020 - Present - Topic Board Member, *Microorganism* (MDPI)

2020 - 2021 - Guest editor for a special Issue on "Viral Oncogenesis in Humans", *Microorganism* (MDPI)

2022 - 2023 - Guest editor for a Special Issue "Oncogenic Role of Viruses and Bacteria", *Microorganism* (MDPI)

Ad hoc referee for the following scientific journals:

- Frontiers in Medicine (Frontiers publisher)
- Investigational New Drugs (Springer Nature)
- International Journal of Cancer (Wiley & sons)
- BMC Evolutionary Biology (Springer Nature)
- Journal of Translational Medicine (Springer Nature)
- Cancers (MDPI)
- Microorganism (MDPI)
- Biomedicines (MDPI)
- International Journal of Molecular Sciences (MDPI)

Awards

September 23, 2023: "Guido G. Guidotti" SIPMeT poster award in recognition to meritorious and outstanding research to young investigators working in molecular pathology.

Personal statements

Fabio Verginelli, Assistant Professor of General Pathology at G. d'Annunzio University of Chieti, Italy (UdA), has been involved since 2009 in research projects supported by AIRC on the etiopathogenesis and development of head and neck paragangliomas (HNPGGL). These projects have contributed to the understanding of the genetic and epigenetic mechanisms involved in the onset of HNPGGL (Cama A. et al., 2013), as well as in the development of preclinical models essential for understanding the aberrant histo/organogenetic processes underlying the development of HNPGGL (Florio et al., 2017; Lotti et al., 2019; Verginelli et al., 2018;). Additionally, he oversees the oncology biobank and tissue archive sector of the UdA-BiOBANK, which comprises tumor and normal tissue, along with blood samples from over 200 cases of paragangliomas collected over the past decade.

In recent years, metabolomics assays demonstrated changes in the concentration of some specific amino acids and lysophosphatidylcholine in plasma of chromaffin PGL patients. Recently our laboratory, using an approach based on the analysis of targeted flow injection (FIA) coupled with tandem MS (MS/MS) highlighted a plasma metabolic profile of HNPGGL patients. In addition, the analysis has been successfully translated into dried blood spot assay, potentially useful for HNPGGL diagnosis and surveillance. These important results have been published as a full article in an international scientific journal (De Fabritiis S. et al., 2023). The research project, in collaboration with NIH and Karolinska Institutet, is still

ongoing with the purpose to extend the plasma metabolic study to a large number of neural crest tumors, including PGL, acoustic neuromas, gliomas/glioblastomas and also brain metastases.

Other achievements in cancer research have been obtained studying the role of environmental factors on tumors etiology such as a) the virulence variability of *H. pylori* strains for gastric cancer (Rocco et al., 2006, Grande et al., 2012, Toracchio et al., 2020); b) the influence of diet on colorectal mutagenesis highlighted by correlation between exposure to nitrosative DNA damage due to foods that promote metabolic stress and chronic inflammation such as meat, milk, sweeteners and animal fats, the energy-dense foods at the basis of “Western” diets and colorectal cancer-associated Tp53 mutation patterns (Bishehsari et al., 2007, Verginelli et al., 2009); c) the interaction between reproductive factors and BRCA1, BRCA2 and p53 genetic background for premenopausal breast cancer onset in Sudanese population (Awadelkarim et al., 2007, Aceto et al., 2019).

Achievements in other area than cancer research were obtained by studies carried out in collaboration with the Microbiology Section at CAST headed by Prof. Di Bonaventura The collaboration allowed to better define the role played by the multidrug efflux pump in the pharmacological resistance by genotyping and phenotyping of bacteria characterized by biofilm production and high virulence such as *Stenotrophomonas maltophilia* and *Pseudomonas auriginosa* isolated from lungs of cystic fibrosis patients (Pompilio et al., 2011, Pompilio et al., 2015, Pompilio et al., 2016, Di Bonaventura et al., 2022) or *Myroides odoratimimus*, an opportunistic environmental pathogen clinically found in recurrent ulcers of immune-compromised subjects (Pompilio et al., 2017, Pompilio et al., 2018).

Research projects

European Union - NextGenerationEU (2022-2025, 3.976.987,04 Euro) - under the Italian Ministry of University and Research (MUR) National Innovation Ecosystem grant ECS00000041 - VITALITY - CUP [H33C22000430006] (Spoke 8 coordinator Prof. Vieri Fusi). **Position in the project:** Senior researcher, involved in WP3 (Advanced drug delivery systems and in vivo theragnostic tools for personalized medicine).

European Union - NextGenerationEU (2023-2026, 2.500.000 Euro) - National Investment Plan Complementary to NRRP, "Innovative Health Ecosystem" Program, Italian Ministry of Health, Investment: PNC-E.3, Call section LSH-TA. Project code: PNC-E3-2022-23683269 PNCHLS-TA (P.I. Prof. Franco Locatelli). **Position in the project:** Senior Researcher, involved in WP4 (Cell therapy for immunomodulation or for reconstitution/increase of pathogen/tumor- specific immunity to generate tumor-reactive T cells).

AIRC 2020 - (2021-2026, 701,000.00 Euro) project on “Cytomegalovirus infection impacts on neural crest programs to drive paraganglioma development”. Grant protocol: IG 2020 ID 24501 (P.I. Prof R. Mariani-Costantini). **Position in the project:** Senior Researcher, responsible for the studies aimed at isolating, characterizing, sequencing and evaluating the oncogenic potential of a CMV-like virus that infects PGL. Furthermore, responsible for the design and supervision of protocols for the therapeutic evaluation of drugs on *in vitro* and *in vivo* PGL models.

PRIN 2017- (2019-2023, 141,974.00 Euro) project on “Extracellular vesicles in cancer development, progression and drug resistance: potential biomarkers and therapeutic targets”. Grant protocol 2017EKMFTN_005 (P.I. Catalano S; U.O PI Cama A); **Position in the project:** collaborator, supervisor for the sampling in the operating room and the development of protocols for the isolation and genetic characterization of extracellular vesicles.

PRIN 2015- (2017-2020) project on “Useful experimental models for dissecting the molecular links between cancer development/progression and the obesity epidemic” grant protocol: 2015B7M39T_006 (P.I. Andò S; U.O PI Cama A). **Position in the project:** Collaborator, responsible for the design of *in vitro* biological assays.

AIRC 2015- (2016-2018, 263.000,00 Euro) project on "New role of HCMV in head/neck paraganglioma: functional loops controlled by host miRNAs and novel therapeutic targets" Grant protocol: IG16932 (P.I. Prof R. Mariani-Costantini; **Position in the project:** Staff Researcher/staff scientist, responsible for the supervision of the development of primary and immortalized cell cultures and of drug testing conducted on such cultures. Furthermore, directly responsible for the execution of *in vivo* mice studies.

PRIN 2010-2011- (2013-2016, 90.000,00 Euro) project on "Cancer, stem/progenitor cells and the tumor microenvironment: new networks to target". Grant protocol: 2010NFEB9L_008 (P.I. Prof Andò S; **Position in the project:** Collaborator, supervisor for the isolation and *in vitro* culture experiments of cancer stem cells and fibroadipose cells of the tumor microenvironment.

AIRC 2009- (2009-2012, 180.000,00 Euro) project on "Probing hypoxia-driven oncogenic progression via pathway dependencies: the paraganglioma paradigm" (P.I. Prof R. Mariani-Costantini; **Position in the project:** Staff researcher, responsible for statistical and bioinformatics analyzes in collaboration with the Functional Genomics core facility of the Fondazione INT and with the NeuRoNeLab Bioinformatics Research Group at Department of Mathematics and Computer Science (DMI) University of Salerno ". Furthermore, responsible for the sampling of biological material in the surgery room and for the validation of high-throughput experiments (arrays of CNVs and miRNAs expression).

PRIN 2002- (16/12/2002 - 14/01/2005) project on "Molecular genetics of gastric cancer in high and low risk populations: correlation between molecular data and epidemiological features". Grant protocol: 2002068725_002 (P.I. Prof. Nardone G; **Position in the project:** Collaborator, responsible for the analysis of *cagA* and *vacA* genotypes of *H. pylori* strains infecting patients with intestinal metaplasia or gastric cancer.

M.U.R.S.T 2002 - (2003-11/2005-12) project on "Paleopathology of the population of ancient Rome and ancient DNA analysis directed to verify the possibility of genetic studies" . Grant Protocol: 2003067835_005 (P.I. Prof R. Mariani-Costantini; **Position in the project:** Collaborator, responsible for ancient DNA analysis and population genetics studies.

M.U.R.S.T 2000- (2000-12/2003-01) project on "Paleopathology of the population of ancient Rome and ancient DNA analysis directed to verify the possibility of genetic studies" Grant protocol: MM10264872_003 (P.I. Prof R. Mariani-Costantini; **Position in the project:** Collaborator, responsible for ancient DNA analysis and population genetics studies.

CNR 1996- (1996-01/2000-12) Progetto Finalizzato Beni Culturali - Sottoprogetto 4: Analisi e conservazione della diversità biologica: "archivio" botanico, zoologico, antropologico" P.I. Prof R. Mariani-Costantini; **Position in the project:** Collaborator, responsible for the development of the protocols for the recovery, amplification and sequencing of DNA from fossil bones.

Original peer reviewed articles

1. Lanuti P, Guardalupi F, Corradi G, Florio R, Brocco D, Veschi S, Pennese E, De Bellis D, D'Ascanio F, Piro A, De Lellis L, Simeone P, Cufaro MC, Pilato S, D'Amario I, Villanova I, Di Francesco B, Di Re L, **Verginelli F**, Pieragostino D, Salutari P, Colasante F, Natale A, Mattoli MV, Vespa S, Fontana A, Giancola R, Fabi B, Baldoni S, Santarone S, Restuccia F, Tinari N, Del Boccio P, Cama A, Di Ianni M. CD19.CAR T-cell-derived extracellular vesicles express CAR and kill leukemic cells, contributing to antineoplastic therapy. *Blood Adv.* 2025 Jun 24;9(12):2907-2919. doi: 10.1182/bloodadvances.2024014860.

2. Piro A, Cufaro MC, Lanuti P, Brocco D, De Lellis L, Florio R, Pilato S, Pagotto S, De Fabritiis S, Vespa S, Catitti G, **Verginelli F**, Simeone P, Pieragostino D, Del Boccio P, Fontana A, Grassadonia A, Di Ianni M, Cama A, Veschi S. Exploring the Immunomodulatory Potential of Pancreatic Cancer-Derived Extracellular Vesicles through Proteomic and Functional Analyses. *Cancers (Basel)*. 2024 May 8;16(10):1795. doi: 10.3390/cancers16101795.
3. Pantalone MR, Martin Almazan N, Lattanzio R, Taher C, De Fabritiis S, Valentinuzzi S, Bishehsari F, Mahdavinia M, **Verginelli F**, Rahbar A, Mariani-Costantini R, Söderberg-Naucler C. Human cytomegalovirus infection enhances 5-lipoxygenase and cyclooxygenase-2 expression in colorectal cancer. *Int J Oncol*. 2023 Nov;63(5):116. doi: 10.3892/ijo.2023.5564.
4. De Fabritiis S, Valentinuzzi S, Piras G, Cicalini I, Pieragostino D, Pagotto S, Perconti S, Zucchelli M, Schena A, Taschin E, Berteșteanu GS, Esposito DL, Stigliano A, De Laurenzi V, Schiavi F, Sanna M, Del Boccio P, **Verginelli F**, Mariani-Costantini R. Targeted metabolomics detects a putatively diagnostic signature in plasma and dried blood spots from head and neck paraganglioma patients. *Oncogenesis*. 2023 Feb 25;12(1):10. doi: 10.1038/s41389-023-00456-4.
5. Catitti G, De Fabritiis S, Brocco D, Simeone P, De Bellis D, Vespa S, Veschi S, De Lellis L, Tinari N, **Verginelli F**, Marchisio M, Cama A, Patruno A, Lanuti P. Flow Cytometry Detection of Anthracycline-Treated Breast Cancer Cells: An Optimized Protocol. *Curr Issues Mol Biol*. 2022 Dec 28;45(1):164-174. doi: 10.3390/cimb45010013.
6. Brocco D, De Bellis D, Di Marino P, Simeone P, Grassadonia A, De Tursi M, Grottola T, Di Mola FF, Di Gregorio P, Zappacosta B, Angelone A, Lellis L, Veschi S, Florio R, De Fabritiis S, **Verginelli F**, Marchisio M, Caporale M, Luisi D, Di Sebastiano P, Tinari N, Cama A, Lanuti P. High Blood Concentration of Leukocyte-Derived Extracellular Vesicles Is Predictive of Favorable Clinical Outcomes in Patients with Pancreatic Cancer: Results from a Multicenter Prospective Study. *Cancers (Basel)*. 2022 Sep 29;14(19):4748. doi: 10.3390/cancers14194748.
7. Di Bonaventura G, Lupetti V, **Verginelli F**, Giancristofaro S, Barbieri R, Gherardi G, Pompilio A. (2022) Repurposing the Veterinary Antibiotic Apramycin for Antibacterial and Antibiofilm Activity Against *Pseudomonas aeruginosa* From Cystic Fibrosis Patients. *Front Microbiol* 12: 801152; DOI=10.3389/fmicb.2021.801152.
8. Giuliani C, Verrocchio S, **Verginelli F**, Bucci I, Grassadonia A, Napolitano G. (2021) Hormonal Regulation of the MHC Class I Gene in Thyroid Cells: Role of the Promoter "Tissue-Specific" Region. *Front Endocrinol (Lausanne)* 12:749609. doi: 10.3389/fendo.2021.749609.
9. Toracchio S, Caruso RA, Perconti S, Rigoli L, Betri E, Neri M, **Verginelli F** and Mariani-Costantini R. (2020) Evolutionarily-Related *Helicobacter pylori* Genotypes and Gastric Intraepithelial Neoplasia in a High-Risk Area of Northern Italy. *Microorganisms* 8(3). pii: E324. doi: 10.3390/microorganisms8030324.
10. Florio R, Veschi S, di Giacomo V, Pagotto S, Carradori S, **Verginelli F**, Cirilli R, Casulli A, Grassadonia A, Tinari N, Cataldi A, Amoroso R, Cama A, De Lellis L. (2019) The Benzimidazole-Based Anthelmintic Parbendazole: A Repurposed Drug Candidate That Synergizes with Gemcitabine in Pancreatic Cancer. *Cancers (Basel)* 11(12). pii: E2042. doi:10.3390/cancers11122042.
11. Cirone M, Lotti LV, Granato M, Renzo L Di, Biunno I, Cattaneo M, **Verginelli F**, Vespa S, Davies D, Wells V, Mariani-Costantini R, Mallucci L (2019) Sourcing the immune system to induce immunogenic cell death in Kras-colorectal cancer cells. *Br J Cancer* 1–8. doi: 10.1038/s41416-019-0561-z.
12. Giampietro L, Laghezza A, Cerchia C, Florio R, Recinella L, Capone F, Ammazalorso A, Bruno I, De Filippis B, Fantacuzzi M, Ferrante C, Maccallini C, Tortorella P, **Verginelli F**, Brunetti L, Cama A, Amoroso R, Liodice F, Lavecchia (2019) Novel Phenyldiazenyl Fibrate Analogues as PPAR α/δ Pan-Agonists for the Amelioration of Metabolic Syndrome. *ACS Med Chem Lett* 10:545–551. doi: 10.1021/acsmchemlett.8b00574.
13. Aceto GM, Awadelkarim KD, Di Nicola M, Moscatello C, Pantalone MR, **Verginelli F**, Elwali NE, Mariani-Costantini R (2019) Germline TP53 mutation spectrum in Sudanese premenopausal breast cancer patients: correlations with reproductive factors. *Breast Cancer Res Treat* 175:479–485. doi: 10.1007/s10549-019-05168-1.
14. Florio R, De Lellis L, Veschi S, **Verginelli F**, di Giacomo V, Gallorini M, Perconti S, Sanna M, Mariani-Costantini R, Natale A, Cataldi A, Cama A (2018) Effects of dichloroacetate as single agent or in combination with GW6471 and metformin in paraganglioma cells. *Sci Rep* 8. doi: 10.1038/s41598-018-31797-5.
15. Pompilio A, Galardi G, Gherardi G, **Verginelli F**, Geminiani C, Pilloni AP, Catalanotti P, Di Bonaventura G (2018)

- Infection of recurrent calcaneal ulcer caused by a biofilm-producer *Myroides odoratimimus* strain. *Folia Microbiol* (Praha) 63:203–207. doi: 10.1007/s12223-017-0552-5.
16. **Verginelli F**, Perconti S, Vespa S, Schiavi F, Prasad SC, Lanuti P, Cama A, Tramontana L, Esposito DL, Guarnieri S, Lotti LV, Mariani-Costantini R (2018) Paragangliomas arise through an autonomous vasculo-angio-neurogenic program inhibited by imatinib. *Acta Neuropathol* 135:779–798. doi: 10.1007/s00401-017-1799-2.
 17. Ammazalorso A, De Lellis L, Florio R, Bruno I, De Filippis B, Fantacuzzi M, Giampietro L, Maccallini C, Perconti S, **Verginelli F**, Cama A, Amoroso R (2017) Cytotoxic effect of a family of peroxisome proliferator-activated receptor antagonists in colorectal and pancreatic cancer cell lines. *Chem Biol Drug Des* 90:1029–1035. doi: 10.1111/cbdd.13026
 18. Florio R, De Lellis L, Di Giacomo V, Di Marcantonio MC, Cristiano L, Basile M, **Verginelli F**, Verzilli D, Ammazalorso A, Prasad SC, Mincione G, Cama A (2017) Effects of PPAR α inhibition in head and neck paraganglioma cells. *PLoS One* 12. doi: 10.1371/journal.pone.0178995.
 19. Pompilio A, Galardi G, **Verginelli F**, Muzzi M, Di Giulio A, Di Bonaventura G (2017) *Myroides odoratimimus* forms structurally complex and inherently antibiotic-resistant biofilm in a wound-like in vitro model. *Front Microbiol* 8. doi: 10.3389/fmicb.2017.02591
 20. Ammazalorso A, Carrieri A, **Verginelli F**, Bruno I, Carbonara G, D'Angelo A, De Filippis B, Fantacuzzi M, Florio R, Fracchiolla G, Cama A, Amoroso R (2016) Synthesis, in vitro evaluation, and molecular modeling investigation of benzenesulfonimide peroxisome proliferator-activated receptors α antagonists. *Eur J Med Chem* 114:191–200. doi: 10.1016/j.ejmech.2016.02.064
 21. Marcovecchio ML, Florio R, **Verginelli F**, De Lellis L, Capelli C, Verzilli D, Chiarelli F, Mohn A, Cama A (2016) Low AMY1 gene copy number is associated with increased body mass index in prepubertal boys. *PLoS One* 11. doi: 10.1371/journal.pone.0154961
 22. Pompilio A, Crocetta V, **Verginelli F**, Di Bonaventura G (2016) In vitro activity of levofloxacin against planktonic and biofilm *Stenotrophomonas maltophilia* lifestyles under conditions relevant to pulmonary infection in cystic fibrosis, and relationship with SmeDEF multidrug efflux pump expression. *FEMS Microbiol Lett* 363. doi: 10.1093/femsle/fnw145
 23. 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 (2015) Allele-specific loss and transcription of the miR-15a/16-1 cluster in chronic lymphocytic leukemia. *Leukemia* 29:86–95. doi: 10.1038/leu.2014.139
 24. Pompilio A, Crocetta V, De Nicola S, **Verginelli F**, Fiscarelli E, Di Bonaventura G (2015) Cooperative pathogenicity in cystic fibrosis: *Stenotrophomonas maltophilia* modulates *Pseudomonas aeruginosa* virulence in mixed biofilm. *Front Microbiol* 6. doi: 10.3389/fmicb.2015.00951
 25. Cama A, **Verginelli F**, Lotti LV, Napolitano F, Morgano A, D'Orazio A, Vacca M, Perconti S, Pepe F, Romani F, Sanna M, Mariani-Costantini R (2013) Integrative genetic, epigenetic and pathological analysis of paraganglioma reveals complex dysregulation of NOTCH signaling. *Acta Neuropathol* 126:575–594. doi: 10.1007/s00401-013-1165-y
 26. Perconti S, Aceto GM, **Verginelli F**, Napolitano F, Petrarca C, Bernardini G, Raiconi G, Tagliaferri R, Sabbioni E, Di Gioacchino M, Di Gioacchino M, Mariani-Costantini R (2013) Distinctive gene expression profiles in Balb/3T3 cells exposed to low dose cobalt nanoparticles, microparticles and ions: Potential nanotoxicological relevance. *J Biol Regul Homeost Agents* 27:443–454 ISSN: 0393974X
 27. Esposito DL, **Verginelli F**, Toracchio S, Mammarella S, De Lellis L, Vanni C, Russo A, Mariani-Costantini R, Cama A (2013) Novel insulin receptor substrate 1 and 2 variants in breast and colorectal cancer. *Oncol Rep* 30:1553–1560. doi: 10.3892/or.2013.2626
 28. Mallucci L, Shi D-Y, Davies D, Jordan P, Nicol A, Lotti L, Mariani-Costantini R, **Verginelli F**, Wells V, Zicha D (2012) 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. *Mol Cancer Ther* 11:1884–1893. doi: 10.1158/1535-7163.MCT-11-1041-T
 29. Grande R, Di Campi E, Di Bartolomeo S, **Verginelli F**, Di Giulio M, Baffoni M, Bessa LJ, Cellini L (2012)

- Helicobacter pylori biofilm: A protective environment for bacterial recombination. *J Appl Microbiol* 113:669–676. doi: 10.1111/j.1365-2672.2012.05351.x
30. Pompilio A, Pomponio S, Crocetta V, Gherardi G, **Verginelli F**, Fiscarelli E, Dicuonzo G, Savini V, D'Antonio D, Di Bonaventura G (2011) Phenotypic and genotypic characterization of *Stenotrophomonas maltophilia* isolates from patients with cystic fibrosis: Genome diversity, biofilm formation, and virulence. *BMC Microbiol* 11. doi: 10.1186/1471-2180-11-159
 31. Tofanelli S, Ferri G, Bulayeva K, Caciagli L, Onofri V, Taglioli L, Bulayev O, Boschi I, Alù M, Berti A, Rapone C, Beduschi G, Luiselli D, Cadenas AM, Awadelkarim KD, Mariani-Costantini R, Elwali NE, **Verginelli F**, Pilli E, Herrera RJ, Gusmão L, Paoli G, Capelli C (2009) J1-M267 Y lineage marks climate-driven pre-historical human displacements. *Eur J Hum Genet* 17:1520–1524. doi: 10.1038/ejhg.2009.58
 32. **Verginelli F**, Bishehsari F, Napolitano F, Mahdavinia M, Cama A, Malekzadeh R, Miele G, Raiconi G, Tagliaferri R, Mariani-Costantini R (2009) Transitions at CpG dinucleotides, geographic clustering of TP53 mutations and food availability patterns in colorectal cancer. *PLoS One* 4. doi: 10.1371/journal.pone.0006824
 33. **Verginelli F**, Aru F, Battista P, Mariani-Costantini R (2009) Nutrigenetics in the light of human evolution. *J Nutrigenet Nutrigenomics* 2:91–102. doi: 10.1159/000228251
 34. Rigoli L, Di Bella C, **Verginelli F**, Falchetti M, Bersiga A, Rocco A, Nardone G, Mariani-Costantini R, Caruso RA (2008) Histological heterogeneity and somatic mtDNA mutations in gastric intraepithelial neoplasia. *Mod Pathol* 21:733–741. doi: 10.1038/modpathol.2008.58
 35. Mahdavinia M, Bishehsari F, **Verginelli F**, Cumashi A, Lattanzio R, Sotoudeh M, Ansari R, Semeraro D, Hormazdi M, Fakheri H, Iacobelli S, Mariani-Costantini R (2008) P53 mutations in colorectal cancer from Northern Iran: Relationships with site of tumor origin, microsatellite instability and K-ras mutations. *J Cell Physiol* 216:543–550. doi: 10.1002/jcp.21428
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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

March 23, 2026

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