

## CURRICULUM VITAE ET STUDIORUM

### Dati Personali

**Nome:** Giusi Irma Forte

**Posizione Attuale:** Ricercatore

**Ente:** Istituto di Bioimmagini e Fisiologia Molecolare (IBFM), Sede Secondaria di Cefalù, CNR

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### Carriera Professionale

- Specialista in Patologia Clinica, 27/10/2005;
- Dottore di Ricerca in Biopatologia, 07/04/2009;
- Ricercatore post doc presso il “Leiden University Medical Center (LUMC)”, (Leiden, The Netheland), (2008-2009);
- Professore a contratto di Patologia Clinica dell’Università degli studi di Palermo (2004-2012);
- Assegnista di ricerca presso l’Istituto di Patologia Generale dell’Università degli Studi di Palermo (2009-2011);
- Posizione attuale: Ricercatore della Sede Secondaria di Cefalù dell’IBFM-CNR (16/09/2011)
- Responsabile del “Laboratorio di Genomica e Metodologie Cellulari del IBFM-CNR
- Membro dell’*editorial board* della rivista “Translational Cancer Research”. *Guest Editor* per la realizzazione dei volume speciali su “HIFU Special Issue” e “Radiobiological models towards a personalized radiation oncology” (2014-2017)
- Membro delle società scientifiche: EUROPEAN RADIATION RESEARCH SOCIETY (ERRS); Società Italiana per le Ricerche sulle Radiazioni (SIRR) e Società Italiana di Radiobiologia (AIRB);
- Responsabile delle attività in carico ad IBFM per i seguenti progetti:
  - Progetto GeSeTON (finanziato dal MISE; grant n. 489 of 21/02/2018)
  - Progetto SeLAB (finanziato dalla Regione Siciliana; grant 11/2017)

**Settori di competenza:** biologia cellulare e molecolare, oncobiologia, immunologia, radiobiologia

**Carriera scientifica:** Dal 2001 è stata coinvolta in progetti di ricerca relativi alla genetica e ai processi molecolari coinvolti negli eventi immuno-degenerativi che si verificano nell’invecchiamento, predisponenti l’insorgenza di malattie legate all’età, come malattie cardiovascolari, malattie neurodegenerative e cancro. In particolare, gli studi hanno riguardato il ruolo dei polimorfismi che condizionano l’equilibrio immunologico e i meccanismi inerenti la produzione di mRNA di citochine. I dati ottenuti da questi studi sono stati pubblicati su riviste ISI e descritti nella tesi finale del corso post-laurea di Patologia clinica (intitolata "Effetti della stimolazione con LPS sulla produzione di IL-10: analisi

della regione 5'UTR") e in quella del corso di dottorato (intitolata " Genetic Bases of Inflammaging. Evidences and future tools").

Inoltre, dal 2008, concentra le sue ricerche sulla genomica del cancro. Dal 2008 al 2009 è ricercatore post-doc, durante un periodo di formazione all'estero presso il Dipartimento di Patologia del "Leiden University Medical Center" (Leiden, Olanda), dove ha lavorato a un progetto di ricerca sullo studio dei polimorfismi genetici, l'instabilità cromosomica nel carcinoma del colon-retto e l'espressione genica allele-specifica nel carcinoma papillare della tiroide. Attualmente è ricercatrice presso l'Istituto di Bioimmagini e Fisiologia molecolare (IBFM) -CNR, Sede Secondaria di Cefalù, dove lavora insieme ad un gruppo di ricerca traslazionale. Le principali attività di ricerca si concentrano sugli effetti biologici delle radiazioni ionizzanti, utilizzando tipi di fascio convenzionali e innovativi.

**Ricerca attuale:** Studio di modelli radiobiologici in vitro (con cellule immortalizzate e primarie di carcinoma mammario e glioblastoma multiforme) e in vivo, sottoposti a diverse tipologie di fascio (fotoni, protoni o trattamenti combinati con farmaci/molecole radiosensibilizzanti). Definizione di curve dose-risposta, LQ model e derivazione dei parametri  $\alpha/\beta$ . Studio della risposta genomica alle radiazioni ionizzanti associata al profilo istopatologico tumorale. Utilizzo dei modelli animali per lo studio di RBE, TCP/NTCP e studi di Imaging molecolare.

Current h-index according to Scopus: 19

### Lista delle pubblicazioni:

1. V. Izzo, M.R. Asaro, **GI. Forte**, R. Barbieri, (2000) Journal of Chromatography A 890, 371-374. "Use of voltage gradient gel electrophoresis in apoptotic DNA analysis". [Impact Factor 4.194]
2. D. Lio, V. Marino, A. Serauto, V. Gioia, L. Scola, A. Crivello, **GI. Forte**, G. Colonna Romano, G. Candore, C. Caruso. (2002) European J. Immunogenetics, 29, 371-374. "Genotype frequencies of +874T→A single nucleotide polymorphism in the first intron of Interferon- $\gamma$  gene in a sample of Sicilian patients affected by tuberculosis". [Impact Factor 1.713]
3. F. Cataldo, D. Lio; L. Scola, **GI. Forte**, and S. Accomando. Pediatric Gastroenterology: hepatology and nutrition, 2<sup>nd</sup> World Congress. Pag. 513-516, Paris 3/7/2004. "Analysis of functionally relevant single nucleotide polymorphisms of TNF $\alpha$  and of INF $\gamma$  in celiac disease.
4. Lio D, Scola L, **Forte GI**, Accomando S, Giacalone A, Crivello A, Cataldo F. (2005) Dig Liver Dis. 37, 756-760. "TNF $\alpha$ , IFN $\gamma$  and IL-10 gene polymorphisms in a sample of Sicilian patients with Celiac Disease". [Impact Factor 2.805]
5. Cataldo F, Scola L, Piccione M, Giuffrè M, Crivello A, **Forte GI**, Lio D, Corsello G. (2005) Dig Liver Dis 37(12), 923-927. "Evaluation of cytokine polymorphism (TNF $\alpha$ , IFN $\gamma$  AND IL-10) in down patients with celiac disease" [Impact Factor 2.805]
6. Scola L, Candore G, Colonna-Romano G, Crivello A, **Forte GI**, Prolisso G, Franceschi C, Lio D, Caruso C. Biogerontology (2005) Dec6(6), 425-429 " Study of association with-330T/G IL2 in a population of centenarians from Centre and South Italy". [Impact Factor 3.411]
7. Lio D, Scola L, Crivello A, **Forte GI**, Caruso C. Diagnostic Knot. ASHI QUARTERLY. (2006) vol. 4 quarter 06, pp. 104-106. "Immunogenetic Markers and the Sporadic Alzheimer's Disease".
8. **Forte GI**, Ragonese P, Salemi G, Scola L, Candore G, D'Amelio M, Crivello A, Di Benedetto N, Nuzzo D, Giacalone A, Lio D, Caruso C. (2006) Ann. N.Y. Acad. Sci. 1067, 264-269. " Search for genetic factors associated with susceptibility to multiple sclerosis" [Impact Factor 0.964]
9. Crivello A, Giacalone A, Scola L, **Forte GI**, Nuzzo D, Giacconi R, Cipriano C, Candore G, Mocchegiani E, Colonna Romano G, Lio D, Caruso C. (2006) Ann. N.Y. Acad. Sci. 1067, 288-293. "Frequency of polymorphisms of signal peptide of TGF- $\beta$ 1 and -1082G/A SNP at the promoter region of IL-10 gene in a group of patients with carotid stenosis". [Impact Factor 0.964]
10. Scola L, Lio D, Crivello A, Candore G, **Forte GI**, Colonna- Romano G, Pes MG, Carru C, Ferrucci L, Deiana L, Baggio G, Franceschi C, Caruso C. (2006) Rejuvenation Res. Spring 9(1), 157-160. " Analysis of HLA-DQA, HLA-DQB frequencies in a group of Sardinian centenarians". [Impact Factor 4.220]

11. Nuzzo D, Cataldo F, Scola L, **Forte GI**, Crivello A, Giacalone A, Accomando S, Barbieri R, Candore G, Caruso C, Lio D. (2006) *Rejuvenation Res.* Spring 9(1), 153-156. "Analysis of candidate genes in celiac disease: a tool to identify life-threatening associated genes?". [**Impact Factor** 4.220]
12. Lio D, Annoni G, Licastro F, Crivello A, **Forte GI**, Scola L, Colonna Romano G, Candore G, Arosio B, Galimberti L, Vergani C, Caruso C. (2006) *Mech Ageing Dev.* Jun; 127(6):567-71. Epub 2006 Mar 3. "Tumor necrosis factor-alpha -308A/G polymorphism is associated with age at onset of Alzheimer's disease". [**Impact Factor** 1.788]
13. Scola L, Vaglica M, Crivello A, Palmeri L, **Forte GI**, Macaluso MC, Giacalone A, Di Noto L, Bongiovanni A, Raimondi C, Accardo A, Verna R, Candore Giuseppina, Caruso C, Lio D, Palmeri S. (2006) *Ann. N.Y. Acad. Sci. Nov*;1089: 104-109 "Cytokine Gene Polymorphisms and Breast Cancer Susceptibility". [**Impact Factor** 0.964]
14. Crivello A, Giacalone A, Vaglica M, Scola L, **Forte GI**, Macaluso MC, Raimondi C, Di Noto L, Bongiovanni A, Accardo A, Candore G, Palmeri L, Verna R, Caruso C, Lio D, Palmeri S. (2006) *Ann. N.Y. Acad. Sci. Nov*;1089: 98-103 "Regulatory Cytokine Gene Polymorphisms and Risk of Colorectal Carcinoma" [**Impact Factor** 0.964]
15. **Forte GI**, Piccione M, Scola L, Crivello A, Galfano C, Corsi M, Chiappelli M, Candore G, Giuffrè M, Verna R, Licastro F, Corsello G, Caruso C, Lio D. (2007) *Rejuvenation Res.* Sep;10(3):293-9. "ApoE genotypic frequencies among Down's syndrome patients imply early unsuccessful ageing for ApoE4 carriers". [**Impact Factor** 4.220]
16. Crivello A, **Forte GI**, Mirabile M, Lio D, Scola L. (2007) *Il Patologo Clinico* 1, 21-27. "Inflammation genes and Alzheimer's Disease"
17. **Forte GI**, Calà C, Scola L, Crivello A, Gullo A, Marasà A, Giacalone A, Bonura C, Caruso C, Lio D, Giammanco A. (2008) *Rejuvenation Res.* Apr;11(2):509-12. "Role of environmental and genetic factor interaction in the age-related disease development: The gastric cancer paradigm. [**Impact Factor** 4.220]
18. Scola L, Lio D, Candore G, **Forte GI**, Crivello A, Colonna-Romano G, Pes MG, Carru C, Ferruci L, Deiana L, Baggio G, Franceschi C, Caruso C. (2008). *Exp Gerontol.* Feb;43(2):114-8. "Analysis of HLA-DRB1,DQA1,DQB1 haplotypes in Sardinian centenarians". [**Impact Factor** 3.804]
19. Bellavia D, **Forte GI**, Sisino G, Sisino G, Barbieri R. (2008) *Anal Biochem.* Jul 1;378(1):113-4. "A new method for the mapping of 5' ends of RNAs". [**Impact Factor** 2.146]
20. Scola L, Giacalone A, Marasà L, Mirabile M, Vaccarino L, **Forte GI**, Giannitrapani L, Caruso C, Montalto G, Lio D. (2009) *Ann N Y Acad Sci.* Feb; 1155:284-8. "Genetic determined downregulation of both type 1 and type 2 cytokine pathways might be protective against pancreatic cancer". [**Impact Factor** 0.964]
21. Bellavia D, Sisino G, Papadopoulos GL, **Forte GI**, Barbieri R. (2009) *Immun Ageing.* May 21;6:6."Mung bean nuclease mapping of RNAs 3' end". [**Impact Factor** 3.00]
22. Caruso C, Balistreri CR, Candore G, Carruba G, Colonna-Romano G, Di Bona D, **Forte GI**, Lio D, Listì F, Scola L, Vasto S. (2009) *Cancer Immunol Immunother.* Dec;58(12):1919-33. "Polymorphisms of pro-inflammatory genes and prostate cancer risk: a pharmacogenomic approach." [**Impact Factor** 3,791]
23. **Forte GI**, Scola L, Misiano G, Milano S, Mansueto P, Vitale G, Bellanca F, Sanacore M, Vaccarino L, Rini GB, Caruso C, Cillari E, Lio D, Mansueto S. (2009) *Clin Vaccine Immunol.* Jun;16(6):811-5 "Relevance of Interferon-gamma, Tumor Necrosis Factor-alpha and Interleukin 10 gene polymorphisms for Mediterranean Spotted Fever susceptibility". [**Impact Factor** 2,505]
24. **Forte GI**, Scola L, Bellavia D, Vaccarino L, Sanacore M, Sisino G, Scazzone C, Caruso C, Barbieri R, Lio D. (2009) *Molecular Immunology* Jul;46(11-12):2161-6 "Characterization of two alternative Interleukin(IL)-10 5'UTR mRNA sequences, induced by Lipopolysaccharid (LPS) stimulation of peripheral blood mononuclear cells". [**Impact Factor** 3,202]
25. Candore G, Balistreri CR, Bulati M, Colonna-Romano G, Di Bona D, **Forte GI**, Lio D, Listì F, Pellicanò V, Scola L, Vasto S, Caruso C. (2009) *G. Gerontol.* 57 145-152. "Immune Inflammatory response in succesful and unsuccessfull ageing".

26. **Forte GI**, Pilato G, Vaccarino L, Sanacore M, Candore G, Romano GC, Testa R, Franceschi C, Capri M, Marra M, Bonfigli AR, Caruso C, Scola L, Lio D. (2010) *Curr Pharm Des.* 16(7):898-903. "Risk profiles in type 2 diabetes (metabolic syndrome): integration of IL-10 polymorphisms and laboratory parameters to identify vascular damages related complications". [**Impact Factor** 4,414]
27. van Eijk R, Licht J, Schrupf M, Yazdi MT, **Forte GI**, Nederlof P, Rabe KF, Annema JT, Smit V, Morreau H, van Wezel T. (2011). *PLoS ONE*, Mar 8;6(3):e17791. "Accurate and rapid KRAS, EGFR, BRAF and PIK3CA hotspot mutation and deletion analysis of fine needle cytological aspirates from non-small cell lung cancer (NSCLC) patients using allele specific qPCR analysis" [**Impact Factor** 4,351]
28. **Forte GI**, Vaccarino L, Palmeri M, Branzi A, Caldarera CM, Scola L, Caruso C, Licastro F, Lio D. (2011). *Biogerontology*. Oct;12(5):485-90. "Analysis of polymorphisms G1691A of Factor V and 20210GA of Factor II as risk factors for acute myocardial infarction" [**Impact Factor** 3.411]
29. Vaccarino L, **Forte GI**, Palmeri M, Misiano G, Porcellini E, Chiappelli M, Scola L, Caruso C, Licastro F, Lio D. (2011) *Biogerontology*. Oct;12(5):445-50 "Role of prothrombotic polymorphisms in successful or unsuccessful aging" [**Impact Factor** 3.411]
30. Middeldorp A, van Eijk R, Oosting J, **Forte GI**, van Puijenbroek M, van Nieuwenhuizen M, Corver ME, Ruano D, Caldes T, Wijnen J, Morreau H, van Wezel T. (2011) *Int J Cancer*. "Increased frequency of 20q gain and copy-neutral loss of heterozygosity in mismatch repair proficient familial colorectal carcinomas". *Int J Cancer*. 2012 Feb 15;130(4):837-46 [**Impact Factor** 4,722]
31. Palmeri M, Misiano G, Malaguarnera M, **Forte GI**, Vaccarino L, Milano S, Scola L, Caruso C, Motta M, Maugeri D, Lio D. (2011) "Cytokine serum profile in a group of Sicilian Centenarians". *J Immunoassay Immunochem*. 2012 Jan;33(1):82-90. [**Impact Factor** 0.862]
32. Accardo Palumbo A, **Forte GI**, Pileri D, Vaccarino L, Conte F, D'Amelio L, Palmeri M, Triolo A, D'Arpa N, Scola L, Misiano G, Milano S, Lio D. (2011) "Analysis of IL-6, IL-10 and IL-17 genetic polymorphisms as risk factors for sepsis development in burned patients". *Burns*. 2012 Mar;38(2):208-13. [**Impact Factor** 1.718]
33. Tuttolomondo A, Di Raimondo D, **Forte GI**, Casuccio A, Vaccarino L, Scola L, Pecoraro R, Serio A, Clemente G, Arnao V, Palmeri M, Misiano G, Lio D, Pinto A, Licata G. (2012) Single nucleotide polymorphisms (SNPs) of pro-inflammatory/anti-inflammatory and thrombotic/fibrinolytic genes in patients with acute ischemic stroke in relation to TOAST subtype. *Cytokine*. 2012 Jun;58(3):398-405. [**Impact Factor** 3.537]
34. Balistreri CR, Candore G, Accardi G, Bova M, Buffa S, Bulati M, **Forte GI**, Listi F, Martorana A, Palmeri M, Pellicano M, Vaccarino L, Scola L, Lio D, Colonna-Romano G. "Genetics of longevity. Data from the studies on Sicilian centenarians." *Immun Ageing*. 2012 Apr 23;9(1):8. [**Impact Factor** 3.00]
35. Allegra A, Marino A, Peregrin PC, Lama A, García-Segovia A, **Forte GI**, Núñez-Calonge R, Agueli C, Mazzola S, Volpes A. "Endometrial expression of selected genes in patients achieving pregnancy spontaneously or after ICSI and patients failing at least two ICSI cycles". *Reprod Biomed Online*. 2012 Aug 8. [Epub ahead of print]
36. Vaccarino L, Vitale S, Caruso M, Palmeri M, Scola L, Bova M, Caruso C, Massenti MF, Vitale F, Novo S, Lio D, **Forte GI**. Myocardial infarction marker levels are influenced by prothrombin and tumor necrosis factor- $\alpha$  gene polymorphisms in young patients. *Cytokine*. 2012 Oct 19.
37. Bravatà V, Cammarata FP, **Forte GI**, Minafra L. "Omics" of HER2-Positive Breast Cancer. *OMICS*. 2013 Feb 19. In press [**Impact Factor** 2.44]
38. **Forte GI**. APOBEC3B spreads somatic mutations in breast cancer genome. *Transl Cancer Res* 2013;2(2):97-99.
39. Sarasqueta AF, **Forte GI**, Corver WE, de Miranda NF, Ruano D, van Eijk R, Oosting J, Tollenaar RA, van Wezel T, Morreau H. Integral analysis of p53 and its value as prognostic factor in sporadic colon cancer. *BMC Cancer*. 2013 Jun 5;13:277

40. Scola L, Di Maggio FM, Vaccarino L, Bova M, **Forte GI**, Pisano C, Candore G, Colonna-Romano G, Lio D, Ruvolo G, Balistreri CR. Role of TGF-  $\beta$  Pathway Polymorphisms in Sporadic Thoracic Aortic Aneurysm: rs900 TGF-  $\beta$  2 Is a Marker of Differential Gender Susceptibility. *Mediators Inflamm.* 2014;2014:165758.
41. Minafra L, Bravatà V, Saporito M, Cammarata FP, **Forte GI**, Caldarella S, D'Arienzo M, Gilardi MC, Messa C, Boniforti F. Genetic, clinical and radiographic signs in knee osteoarthritis susceptibility. *Arthritis Res Ther.* 2014 Apr 9;16(2):R91
42. Minafra L, Bravatà V, **Forte GI**, Cammarata FP, Gilardi MC, Messa C. Gene expression profiling of epithelial-mesenchymal transition in primary breast cancer cell culture. *Anticancer Res.* 2014 May;34(5):2173-83.
43. Camarda M, Fisicaro G, Anzalone R, Scalese S, Alberti A, La Via F, La Magna A, Ballo A, Giustolisi G, Minafra L, Cammarata FP, Bravatà V, **Forte GI**, Russo G, Gilardi MC. Theoretical and experimental study of the role of cell-cell dipole interaction in dielectrophoretic devices: application to polynomial electrodes. *Biomed Eng Online.* 2014 Jun 5;13:71.
44. Vicari F, Russo G, Cammarata FP, Cirincione R, **Forte GI**, Borasi G, Gilardi MC. A daily quality assurance routine for ultrasounds in vitro experiments. *Translational Cancer Research* Vol 3, No 5 (October 2014).
45. Cammarata FP, **Forte GI**. Opportunities from modulating ultrasound, from tissue ablation to tissue regeneration. *Translational Cancer Research* Vol 3, No 5 (October 2014).
46. Bravatà V, Minafra L, **Forte GI**, Cammarata FP, Saporito M, Boniforti F, Lio D, Gilardi MC, Messa C. DVWA gene polymorphisms and osteoarthritis. *BMC Res Notes.* 2015 Feb 4;8:30.
47. Di Maggio FM, Minafra L, **Forte GI**, Cammarata FP, Lio D, Messa C, Gilardi MC, Bravatà V. Portrait of inflammatory response to ionizing radiation treatment. *J Inflamm (Lond).* 2015 Feb 18;12:14.
48. Bravatà V, Minafra L, Russo G, **Forte GI**, Cammarata FP, Ripamonti M, Casarino C, Augello G, Costantini F, Barbieri G, Messa C, Gilardi MC. High-dose Ionizing Radiation Regulates Gene Expression Changes in the MCF7 Breast Cancer Cell Line. *Anticancer Res.* 2015 May;35(5):2577-91.
49. Pucci M, Bravatà V, **Forte GI**, Cammarata FP, Messa C, Gilardi MC, Minafra L. Caveolin-1, breast cancer and ionizing radiation. *Cancer Genomics Proteomics.* 2015 May-Jun;12(3):143-52. Review.
50. Minafra L, Bravatà V, Russo G, **Forte GI**, Cammarata FP, Ripamonti M, Candiano G, Cervello M, Giallongo A, Perconti G, Messa C, Gilardi MC. Gene Expression Profiling of MCF10A Breast Epithelial Cells Exposed to IOERT. *Anticancer Res.* 2015 Jun;35(6):3223-34.
51. Borasi G, Russo G, Paulides MM, Powatil G, Nahum AE, Fariselli L, Lamia D, Cirincione R, **Forte GI**, Borrazzo C, Caccia B, Di Castro E, Pozzi S, Gilardi MC. Fast and High temperature hyperthermia coupled with Radiotherapy as a possible new treatment for glioblastoma. *Journal of Therapeutic Ultrasound.* 16 Dec 8;4:32. eCollection 2016.
52. Cirincione R, Di Maggio FM, **Forte GI**, Minafra L, Bravatà V, Castiglia L, Borasi G, Russo G, Lio D, Messa C, Gilardi MC and Cammarata FP. HIFU- and RT-induced immunomodulation: comparison and potential opportunities. *Ultrasound Med Biol.* 2017 Feb;43(2):398-411
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56. Gieri S, Di Pietro C, Vento M, Scandurra G, **Forte GI**, Russo, G, Scollo P. “MicroRNA in follicular fluid: New molecular markers of oocyte quality in cancer patients” *Italian Journal of Gynaecology and Obstetrics* Volume 29, Issue 2, June 2017, Pages 41-43; ISSN: 11218339;
57. Minafra L, Bravatà V, Cammarata FP, Di Maggio FM, **Forte GI**. “SASPECTs of Radiation Induced Senescence”. *Ann. Radiat. Ther. Oncol.* 2017; 1(2): 1006. ISSN: 2577-8757.
58. Bravatà V, Cava C, Minafra L, Cammarata FP, Russo G, Gilardi MC, Castiglioni I, **Forte GI**. Radiation-induced gene expression changes in high and low grade breast cancer cell types. *Int J Mol Sci.* 2018 Apr 4;19(4).
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60. Bravatà V, Minafra L, Cammarata FP, Pisciotta P, Lamia D, Marchese V, Manti L, Cirrone GA, Gilardi MC, Cuttone G, **Forte GI**, Russo G. Gene expression profiling of breast cancer cell lines treated with proton and electron radiations. *Br J Radiol.* 2018 Jun 11:20170934
61. Pisciotta P, Cammarata FP, Stefano A, Romano F, Marchese V, Torrissi F, **Forte GI**, Cella L, Cirrone GAP, Petringa G, Gilardi MC, Cuttone G, Russo G. Monte Carlo GEANT4-based application for in vivo RBE study using small animals at LNS-INFN preclinical hadrontherapy facility. *Phys Med.* 2018 Oct; 54:173-178
62. Petringa G, Romano F, Manti L, Pandola L, Attili A, Cammarata FP, Cuttone G, **Forte GI**, Manganaro L, Pipekg J, Pisciotta P, Russo G, Cirrone GAP, “Radiobiological quantities in proton-therapy: Estimation and validation using Geant4-based Monte Carlo simulation.” *Phys Med.* 2019 58:72-80
63. Bravatà V, Cammarata FP, Minafra L, Pisciotta P, Scazzone C, Manti L, Petringa G, Cirrone GAP, Cuttone G, Gilardi MC, **Forte GI**, Russo G. “Proton-irradiated breast cells: molecular points of view”. *IJ Radiat Res.* 2019 May 28.
64. Bravatà V, Cammarata FP, Minafra L, Musso R, Pucci G, Spada M, Fazio I, Russo G and **Forte GI**. Gene Expression Profiles Induced by High-dose Ionizing Radiation in MDA-MB-231 Triple Negative Breast Cancer Cell Line”. *Cancer Genomics Proteomics.* 2019 Jul-Aug;16(4):257-266
65. Minafra L, Porcino N, Bravatà V, Gaglio D, Bonanomi M, Amore E, Cammarata FP, Russo G, Militello C, Savoca G, Baglio M, Abbate B, Iacoviello G, Evangelista G, Gilardi MC, Bondi ML, **Forte GI**. “Radiosensitizing effect of curcumin-loaded lipid nanoparticles in breast cancer cells”. *Sci Rep.* 2019 Jul 31;9(1):11134
66. Cammarata FP, Torrissi F, **Forte GI**, Minafra L, Bravatà V, Pisciotta P, Savoca G, Calvaruso M, Petringa G, Cirrone GAP, Fallacara AL, Maccari L, Botta M, Schenone S, Parenti R, Cuttone G, Russo G. Proton Therapy and Src Family Kinase Inhibitor Combined Treatments on U87 Human Glioblastoma Multiforme Cell Line. *Int J Mol Sci.* 2019 Sep 24;20(19):4745.
67. Calvaruso M, Pucci G, Musso R, Bravatà V, Cammarata FP, Russo G, **Forte GI**, Minafra L. Nutraceutical Compounds as Sensitizers for Cancer Treatment in Radiation Therapy. *Int J Mol Sci.* 2019 Oct 23;20(21):5267.
68. Pisciotta P, Costantino A, Cammarata FP, Torrissi F, Marchese V, Cirrone GAP, Petringa G, **Forte GI**, Minafra L, Bravatà V, Gulisano M, Scopellit F, Cuttone G, Ippolito M, Parenti R, Russo G. Evaluation of proton beam radiation-induced skin injury in a murine model using a clinical SOBP. *Plos One (In press)*
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## Monografie e capitoli di libro

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2. Minafra L, Bravatà V, Cammarata FP, **Forte GI**. (2016). "Radiation Therapy Towards Laser-Driven Particle Beams: An "OMICS" Approach in Radiobiology". In *Laser-Driven Particle Acceleration Towards Radiobiology and Medicine Part of the series Biological and Medical Physics, Biomedical Engineering* pp 67-98

## Guest Editor of the Special Issue

1. "High intensity focused ultrasound" *Translational Cancer Research* Vol 3, No 5 (October 2014)
2. "Radiobiological models towards a personalized radiation oncology" *Translational Cancer Research* Vol 6, No 5 (June 2017)