

EUROPEAN  
CURRICULUM VITAE  
FORMAT



PERSONAL INFORMATION

Name	GIORGIO RUSSO
Address	ISTITUTO DI BIOIMMAGINI E SISTEMI BIOLOGICI COMPLESSI SEDE SECONDARIA DI CEFALÙ CONTRADA PIETRA POLLASTRA PISCOTTO, CEFALÙ (PA) - 90015
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Nationality	Italian

WORK EXPERIENCE

- |  |   |
|--|---|
| • Dates (from - to)                    | March 2025 - today  |
| • Name and address of the employer     | Ministry of University and Research   |
| • Type of business or sector           |   |
| • Occupation or position held          | <b>Italian Expert in the EURATOM Programme – Fission and Fusion – of the European Research and Innovation Framework Programme</b> |
| • Main activities and responsibilities | Expert for the radioprotection in industries, healthcare and research applications.   |
| • Dates (from - to)                    | January 2023 – today  |
| • Name and address of the employer     | Institute of Bioimaging & Complex Biological Systems – National Research Council (IBSBC-CNR, ex IBFM-CNR)                         |
| • Type of business or sector           |   |
| • Occupation or position held          | <b>Senior Researcher</b>  |
| • Main activities and responsibilities |   |
| • Dates (from - to)                    | June 2021 - today   |
| • Name and address of the employer     | Cannizzaro Hospital – Nuclear Medicine Department   |
| • Type of business or sector           |   |
| • Occupation or position held          | <b>Qualified Expert in Radioprotection</b>  |
| • Main activities and responsibilities | Radioprotection Supervisor  |
| • Dates (from - to)                    | September 2019 - today  |
| • Name and address of the employer     | Institute of Molecular Bioimaging and Physiology  |
| • Type of business or sector           |   |
| • Occupation or position held          | <b>Qualified Expert in Radioprotection</b>  |
| • Main activities and responsibilities | Radioprotection Supervisor  |
| • Dates (from - to)                    | September 2018 - today  |
| • Name and address of the employer     | University of Catania   |
| • Type of business or sector           |   |
| • Occupation or position held          | <b>Qualified Expert in Radioprotection</b>  |
| • Main activities and responsibilities | Radioprotection Supervisor  |

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

May 2018 - today  
Institute of Molecular Bioimaging and Physiology

#### Head of the Cefalù branch

Management of multidisciplinary research activities

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

January 2015 – today  
The National Institute for Nuclear Physics (INFN) – Catania Unit

#### Qualified Expert in Radioprotection

Radioprotection Supervisor

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

January 2013 - today  
The National Institute for Nuclear Physics (INFN) – Laboratori Nazionali del Sud (LNS)

#### Qualified Expert in Radioprotection

Radioprotection Supervisor

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

September 2011 – December 2022  
Institute of Molecular Bioimaging and Physiology – National Research Council (IBFM-CNR)

#### Researcher

### EDUCATION AND TRAINING

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

2003 - 2007  
University of Catania

Radiotherapy, Nuclear Medicine, Radiology, Radioprotection, Dosimetry

#### Qualified Medical Physics

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

1997 - 2002  
University of Catania

Experimental degree thesis aimed to develop a Monte Carlo simulation of a proton therapy system

#### Degree cum laude in Physics

### PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE  
OTHER LANGUAGES

ITALIAN  
ENGLISH

#### SCIENTIFIC SKILLS AND COMPETENCES

*Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.*

- Research interests (5 Key words): Radiobiology, Nuclear Medical Imaging, Medical Imaging, Radioprotection, Radiobiology.
- Author of 187 publication on Scientific Journals.
- Lecturer of the academic courses at the Palermo and Catania Universities.
- Organization and Communication at national and international congresses (more than 30 communications).
- Supervisor of 9 university theses (specialist and master's); guiding teacher and co-rapporteur of 1 doctoral thesis.

#### RELEVANT ROLES AND COMPETENCES

*Coordination and administration of people, projects and budgets; at work, in*

- Head of Cefalù Unit of IBFM-CNR, multidisciplinary research group dedicated to radiobiology, medical physics, and imaging studies.
- Member of Sicilian Radioprotection Commission.

voluntary work (for example culture and sports) and at home, etc.

- Member of Management Board of Laboratorio di Tecnologie Oncologiche (LATO) HSR - Giglio.
- Member of International GEANT4 collaboration (<https://geant4.web.cern.ch>)
- Coordinator of some research projects
- Responsible for more 10 contracts of a consultancy service on radioprotection activities.
- Responsible for more 5 collaboration agreement with private and public research corporations.

#### PUBLICATION INDEXES (SCOPUS)

- NUMBER OF PUBLICATIONS: 187
- TOTAL NUMBER OF CITATIONS: 12018 (Web of Science)
- H-INDEX: 32 (Web of Science)

#### 10 MOST RELEVANT PUBLICATIONS In the last 10 years.

1. "Proton Therapy and Src Family Kinase Inhibitor Combined Treatments on U87 Human Glioblastoma Multiforme Cell Line", F.P. Cammarata, F. Torrisi, G. I. Forte, L. Minafra, V. Bravatà, P. Pisciotta, G. Savoca, M. Calvaruso, G. Petringa, G.A.P. Cirrone, A. L. Fallacara, L. Maccari, M. Botta, S. Schenone, R. Parenti, G. Cuttone and **G. Russo**. *Int. J. Mo. Sci.* 2019, 20, 4745
2. "Proton-irradiated breast cells: molecular points of view", V. Bravatà, F. P. Cammarata, L. Minafra, P. Pisciotta, C. Scazzone, L. Manti, G. Savoca, G. Petringa, G.A.P. Cirrone, G. Cuttone, M. C. Gilardi, G. I. Forte and **G. Russo**. *Journal of Radiation Research*, Vol. 60, 2019
3. "Monte Carlo GEANT4-based application for in vivo RBE study using small animals at LNS-INFN preclinical hadrontherapy facility", P. Pisciotta, F. P. Cammarata, A. Stefano, F. Romano, V. Marchese, F. Torrisi, G. I. Forte, L. Cella, G.A.P. Cirrone, G. Petringa, M.C. Gilardi, G. Cuttone, **G. Russo**. *Physica Medica* (2018)
4. "Gene expression profiling of breast cancer cell lines treated with proton and electron radiations", V. Bravatà, L. Minafra, F. P. Cammarata, P. Pisciotta, D. Lamia, V. Marchese, G. Petringa, L. Manti, G.A.P. Cirrone, M. C. Gilardi, G. Cuttone, G. I. Forte and **G. Russo**. *Br. J. Radio* 2018
5. "Preliminary study for small animal preclinical hadrontherapy facility", **G. Russo**, P. Pisciotta, G.A.P. Cirrone, F. Romano, F.P. Cammarata, V. Marchese, G.I. Forte, D. Lamia, L. Minafra, V. Bravatà, R. Acquaviva, M. C. Gilardi, G. Cuttone. *NIM A* 2017
6. "Monte Carlo application based on GEANT4 toolkit to simulate a laser-plasma electron beam line for radiobiological studies", D. Lamia, **G. Russo**, C. Casarino, L. Gagliano, G. C. Candiano, L. Labate, F. Baffigi, L. Fulgentini, A. Giulietti, P. Koester, D. Palla, L.A. Gizzi, M. C. Gilardi. *NIM A* 2015.
7. "Recent developments in GEANT4", ... **G. Russo**... *NIM A* 2016.
8. "Radiosensitizing effect of curcumin-loaded lipid nanoparticles in breast cancer cells", L. Minafra, N. Porcino, V. Bravatà, D. Gaglio, M. Bonanomi, E. Amore, F. P. Cammarata, **G. Russo**, C. Militello, G. Savoca, M. Baglio, B. Abbate, G. Iacoviello, G. Evangelista, M. C. Gilardi, M. L. Bondi, G. I. Forte. *Scientific Reports* 2019.
9. "Feasibility on the Use of Radiomics Features of 11[C]-MET PET/CT in Central Nervous System Tumours: Preliminary Results on Potential Grading Discrimination Using a Machine Learning Model", G. Russo, A. Stefano, P. Alongi, A. Comelli, B. Catalfamo, C. Mantarro, C. Longo, R. Altieri, F. Certo, S. Cosentino, M.G. Sabini, S. Richiusa, GMV Barbagallo, M. Ippolito.. *Current Oncology* 2021.
10. "First experimental proof of Proton Boron Capture Therapy (PBCT) to enhance proton therapy effectiveness", G.A.P. Cirrone, L. Manti, D. Margarone, G. Petringa, L. Giuffrida, A. Minoppoli, A. Picciotto, **G. Russo**, F.P. Cammarata, P. Pisciotta, F. M. Perozziello, F. Romano, V. Marchese, G. Miluzzo, V. Scuderi, G. Cuttone, G. Korn. *Scientific Reports* 2017.

#### PATENTS

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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

Cefalù,

Signature