

CURRICULUM VITAE

Personal information

Name	Giuseppina Giardina
Address	European Institute of Oncology IRCCS Department of Experimental Oncology Via Adamello, 16 – Milan, Italy
Telephone	+39 02 94375000
E-mail	giuseppina.giardina@ieo.it
Nationality	Italian
Date of birth	13/03/1973
Specific expertise	Expertise in Cell Biology and High Throughput Screening technologies with robotic automation systems

Education and Training

1992-1995	Bachelor's Degree_Diploma di specializzazione Post diploma di Tecnico di Ricerca Biochimica (BSc) Department of Neuropharmacology and Department of Immunology and Cell Biology Istituto di Ricerche Farmacologiche “Mario Negri” - Milan
1992	High School Diploma Perito Industriale Capotecnico Specializzazione in Chimica Industriale, Istituto Tecnico Industriale Statale “C. Facchinetti” - Busto Arsizio (VA)

Work Experience

From 2026	Imaging and Screening Unit Head Technician Drug Screening Department of Experimental Oncology European Institute of Oncology - Milan
From 2020-2025	Screening Unit Coordinator Department of Experimental Oncology European Institute of Oncology - Milan
2003-2019	Cell Biology Unit Coordinator Department of Experimental Oncology European Institute of Oncology - Milan

1998-2003	Permanent staff research technician Cell Biology Unit Department of Experimental Oncology European Institute of Oncology - Milan
1996-1998	Project contract research technician Cell Biology Unit Department of Experimental Oncology European Institute of Oncology - Milan
1995-1996	Fellowship Department of Immunology and Cell Biology Istituto di Ricerche Farmacologiche “Mario Negri” – Milan

Language skills:

Mother tongue: Italian

Other language: English

Technical skills:

- Drug screening in 2D and/or 3D models, configuration and programming of the Tecan Freedom evo robot, data acquisition and handling from automatic plate reader, validation and analysis of identified effective compounds;
- Maintaining and handling of cell cultures, reagents quality control, mycoplasma detection and eradication;
- Gene transfer techniques in cell lines and primary cells (electroporation, calcium-phosphate,.....);
- Techniques for the production of defective retroviral viruses: construction of recombinant vectors, preparation and titration of high-titer viral supernatants, viral infection of cell lines and in primary cells);
- Establishment of patient-derived primary cultures in 2D and 3D;
- Adenovirus production techniques: vector construction, virus transfection-amplification, titration, plaque assay and infection in cell lines and primary cells;
- Pharmacological selection and limiting dilution techniques for the production of specific cell populations and clones;
- Immunofluorescence and immunohistochemistry techniques;
- Colony formation assays, Focus assays, Soft Agar assays;
- Cellular migration assays; Cell invasion assays; Wound healing assays;

- Basic molecular biology techniques: preparation of plasmid DNA, isolation of genomic DNA and total RNA, PCR.

Digital skills:

-Competent with Microsoft and Mac operative system

-Microsoft Office programs: Word, PowerPoint, Microsoft Excel

-Biology-oriented software: ImageJ, GraphPad

Publication

-Targeting the USP7/RRM2 axis drives senescence and sensitizes melanoma cells to HDAC/LSD1 inhibitors.

Granieri L, Marocchi F, Melixetian M, Mohammadi N, Nicoli P, Cuomo A, Bonaldi T, Confalonieri S, Pisati F, **Giardina G**, Bertalot G, Bossi D, Lanfrancone L. *Cell Rep.* 2022 Sep 20;40(12):111396. doi: 10.1016/j.celrep.2022.111396. PMID: 36130505

-ShcD Binds DOCK4, Promotes Ameboid Motility and Metastasis Dissemination, Predicting Poor Prognosis in Melanoma.

Aladowicz E, Granieri L, Marocchi F, Punzi S, **Giardina G**, Ferrucci PF, Mazzarol G, Capra M, Viale G, Confalonieri S, Gandini S, Lotti F, Lanfrancone L. *Cancers (Basel).* 2020 Nov 13;12(11):3366. doi: 10.3390/cancers12113366. PMID: 33202906

-Airway fistula closure after stem-cell infusion

Petrella F, Spaggiari L, Acocella F, Barberis M, Bellomi M, Brizzola S, Donghi S, **Giardina G**, Giordano R, Guarize J, Lazzari L, Montemurro T, Pastano R, Rizzo S, Toffalorio F, Tosoni A, Zanotti M. *N Engl J Med.* 2015 Jan 1;372(1):96-7. doi: 10.1056/NEJMc1411374. PMID: 25551543

-Pirin inhibits cellular senescence in melanocytic cells

Licciulli S, Luise C, Scafetta G, Capra M, **Giardina G**, Nuciforo P, Bosari S, Viale G, Mazzarol G, Tonelli C, Lanfrancone L, Alcalay M. *Am J Pathol.* 2011 May;178(5):2397-406. doi: 10.1016/j.ajpath.2011.01.019. PMID: 21514450

-RaLP, a new member of the Src homology and collagen family, regulates cell migration and tumor growth of metastatic melanomas.

Fagiani E, **Giardina G**, Luzi L, Cesaroni M, Quarto M, Capra M, Germano G, Bono M, Capillo M, Pelicci P, Lanfrancone L. *Cancer Res.* 2007 Apr 1;67(7):3064-73. doi: 10.1158/0008-5472.CAN-06-2301. PMID: 17409413

-An effector region in Eps8 is responsible for the activation of the Rac-specific GEF activity of Sos-1 and for the proper localization of the Rac-based actin-polymerizing machine.

Scita G, Tenca P, Areces LB, Tocchetti A, Frittoli E, **Giardina G**, Ponzanelli I, Sini P, Innocenti M, Di Fiore PP. *J Cell Biol.* 2001 Sep 3;154(5):1031-44. doi: 10.1083/jcb.200103146. Epub 2001 Aug 27. PMID: 11524436

-Signaling from Ras to Rac and beyond: not just a matter of GEFs.

Scita G, Tenca P, Frittoli E, Tocchetti A, Innocenti M, **Giardina G**, Di Fiore PP. *EMBO J.* 2000 Jun 1;19(11):2393-8. doi: 10.1093/emboj/19.11.2393. PMID: 10835338

-EPS8 and E3B1 transduce signals from Ras to Rac.

Scita G, Nordstrom J, Carbone R, Tenca P, **Giardina G**, Gutkind S, Bjarnegård M, Betsholtz C, Di Fiore PP. *Nature*. 1999 Sep 16;401(6750):290-3. doi: 10.1038/45822. PMID: 10499589

-IFN-beta partially counteracts inhibition of natural killer activity induced by some antitumor agents.

Allavena P, **Giardina G**, Sen S, Colella G, Broggin M, D'Incalci M. *J Interferon Cytokine Res*. 1998 Feb;18(2):87-93. doi: 10.1089/jir.1998.18.87. PMID: 9506459

-IL-2-regulated expression of the monocyte chemotactic protein-1 receptor (CCR2) in human NK cells: characterization of a predominant 3.4-kilobase transcript containing CCR2B and CCR2A sequences.

Polentarutti N, Allavena P, Bianchi G, **Giardina G**, Basile A, Sozzani S, Mantovani A, Introna M. *J Immunol*. 1997 Mar 15;158(6):2689-94. PMID: 9058802

-IL-15 is chemotactic for natural killer cells and stimulates their adhesion to vascular endothelium.

Allavena P, **Giardina G**, Bianchi G, Mantovani A. *J Leukoc Biol*. 1997 Jun;61(6):729-35. doi: 10.1002/jlb.61.6.729. PMID: 9201264

-Regulation of adhesion and transendothelial migration of natural killer cells.

Allavena P, Bianchi G, Paganin C, **Giardina G**, Mantovani A. *Nat Immun*. 1996;15(2-3):107-16. PMID: 9162261