

**PERSONAL INFORMATION**

Name **GIARDULLO, PAOLA**  
Work Address **ENEA-CR CASACCIA, VIA ANGUILLARESE 301, 00123 ROME (ITALY)**  
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Nationality Italian  
Date of birth 13.01.1983

**EDUCATION AND TRAINING**

- Dates (from – to) **01 March 2021 - Present**  
  
• Name and type of organisation providing education and training Researcher. Permanent position.  
Research activities at Laboratory of Health and Environment- SSPT-TECS-SAM- ENEA Casaccia, *Via Anguillarese 301, Rome, Italy.*
- Dates (from – to) **July 2020 – April 2021**  
  
• Name and type of organisation providing education and training Research fellowship on: “Biological mechanisms and effects induced by physical and chemical agents”.  
  
Research activities at Department for Sustainability, Laboratory Biomedical Technologies of ENEA Casaccia, *Via Anguillarese 301, Rome, Italy.*
- Dates (from – to) **November 2018 – July 2020**  
  
• Name and type of organisation providing education and training Department of Radiation Physics of Guglielmo Marconi University  
Via Plinio, 44, 00193 Rome, Italy  
  
UNIVERSITY SCHOLARSHIP on “Systemic effects of abscopal exposure to ionizing radiation”.  
  
Research activities at Laboratory of Biomedical Technologies, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), *Via Anguillarese 301, Rome, Italy.*
- Dates (from – to) **November 2014/ April 2018**

<ul style="list-style-type: none"> <li>• Name and type of organisation providing education and training</li> </ul>	<p>“Roma Tre” University of Rome, Italy Department of Sciences</p> <p>PhD in MOLECULAR, CELLULAR AND ENVIRONMENTAL BIOLOGY on <i>“Role of HR- and NHEJ-deficiency on in vivo abscopal oncogenic response”</i></p>
<ul style="list-style-type: none"> <li>• Principal subjects/occupational skills covered</li> </ul>	<p>Studies on the role of DNA DSBs-repair systems - Homologous Recombination (HR) and Non-Homologous End-Joining (NHEJ)- in the resolution of the abscopal DNA damage induced by ionizing radiation, in mouse central nervous system using double knockout mouse models in which HR or NHEJ are downregulated (Ptch1+/-/Rad54-/-, Ptch1+/-/DNA-PKcs-/-, Ptch1+/- /DNA-PKcs+/-).</p>
<ul style="list-style-type: none"> <li>• Dates (from – to)</li> </ul>	<p><b>March 2010 – September 2018</b></p>
<ul style="list-style-type: none"> <li>• Name and type of organisation providing education and training</li> </ul>	<p>Research fellowship on: <i>“Study of the biological effects of the ionizing radiation on murine cells in vivo e in vitro focused on the Bystander Effect”</i>.</p> <p>*Laboratory of Biomedical Technologies, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) and °Department of Radiation Physics of Guglielmo Marconi University, Rome, Italy</p> <p><i>*Via Anguillarese 301, Rome, Italy; °Via Plinio, 44, 00193 Rome, Italy</i></p>
<ul style="list-style-type: none"> <li>• Dates (from – to)</li> </ul>	<p><b>28/01/2013-15/02/2013</b></p>
<ul style="list-style-type: none"> <li>• Name and type of organisation providing education and training</li> </ul>	<p>DoReMi Training Course on “Radiation Epidemiology and Radioecology”. 3-week training course jointly organised by the Helmholtz-Center Munich, the Norwegian University for Life Sciences and the University of Pavia.</p>
<ul style="list-style-type: none"> <li>• Dates (from – to)</li> </ul>	<p><b>October 2011</b></p>
<ul style="list-style-type: none"> <li>• Name and type of organisation providing education and training</li> </ul>	<p>“Science of laboratory animals” by FELASA (Federation of European Laboratory animal Science Association) (FELASA-cat. B Course N. 023/09). European Brain Research Institute (C.E.R.C.), Rome</p>
<ul style="list-style-type: none"> <li>• Dates (from – to)</li> </ul>	<p><b>March 2011 (28/02/2011-11/03/2011)</b></p>
<ul style="list-style-type: none"> <li>• Name and type of organisation providing education and training</li> </ul>	<p>Doremi Training Course on Molecular Radiation Carcinogenesis Department of Radiobiology. HelmholtzZentrum Munich, Germany Lead Scientist: Professor Mike Atkinson Duration: two weeks, 20 hours lectures, 8 hours tutorials, 12 hours laboratory practicals, a field trip to the departments of clinical radation medicine of the TU Munich. Main topics: Histopathology of cancer, biological mechanisms of cancer formation Apoptosis and cell cycle, angiogenesis, multistage carcinogenesis</p>

Use of animal models  
Molecular biology of radiation-induced thyroid cancer,  
Molecular biology of radiation-induced breast cancer  
Molecular biology of radiation-induced lymphoma, leukaemia  
Molecular biology of radiation-induced osteosarcoma  
Topics of practicals:  
Molecular biology methodologies

- Dates (from – to) **January 2007/October 2009**
- Name and type of organisation providing education and training “La Sapienza” University of Rome, Italy  
Magistral Degree in “Medical, molecular and cellular Biotechnology”: 110/110 and honor.  
Training for the experimental thesis at the Italian Public Health Institute,  
Ionising Radiation Biophysics and Biomedical Physics Unit Technology and Health Department, Rome, Italy
- Principal subjects/occupational skills covered Studies on the biological effects caused by radiation of different types and energies, mainly alpha particles, protons, and gamma rays in human cells: induction and processing of DNA damage (as measured by the  $\gamma$ -H2AX assay), micronuclei induction. Bystander effects studies using co-culture and medium transfer approaches.
- Dates (from – to) **May 27 2009 – June 19 2009**
- Name and type of organisation providing education and training Selected as a student for the 2009 NASA Space Radiation Summer School at the Brookhaven National Laboratory (BNL) on Long Island, New York from May 28 – June 19, 2009. NASA selected 16 students for the NASA Space Radiation Summer School (“NSRSS”) at the U.S. Department of Energy's Brookhaven National Laboratory. The radiation summer school is designed to provide a “pipeline” of researchers to tackle the challenges of radiation exposure to humans who will travel on space exploration missions. Co-sponsored by NASA's Space Radiation Research Program, BNL, and the Translational Research Institute, the three-week course has been offered each summer for more than a decade through an open, competitive application process.
- Dates (from – to) **2002 – 2006**
- Name and type of organisation providing education and training “Federico II” University of Naples, Italy  
First-Class Degree in “ Science of Biotechnology”
- Principal subjects/occupational skills covered Thesis title: “Analysis of the levels of the expression of the transcriptional repressor Cold-Shock domain Protein A by Real-time PCR”.  
Supervisor: Dr. Michela Grosso
- Dates (from – to) **1997 – 2002**
- Name and type of organisation providing education and training High School Diploma (94/100), Liceo Scientifico “Francesco Severi”, Frosinone, Italy

**PERSONAL SKILLS  
AND COMPETENCES**

OTHER TONGUE	Italian
OTHER LANGUAGES	English
• Reading skills	Proficient
• Writing skills	Proficient
• Verbal skills	Proficient

▪ **TECHNICAL SKILLS  
AND COMPETENCES**

**CELLS CULTURES**

Irradiation with X and gamma rays, alpha-particles and protons. DNA damage response assay (phosphorylation-dephosphorylation kinetics of H2AX histone, measure of micronuclei induction by the cytokinesis block technique).

Isolation of cells from tissues: ex vivo procedures

**BIOMETHODOLOGY FOR LABORATORY MICE**

Setup of colonies of transgenic and knockout mice.

Manipulation and exposure of mice to chemical and physical agents.

Identification and sampling of organs during autopsy.

Genotyping of mice by PCR.

**HISTOPATOLOGY**

Processing of biological samples for inclusion in paraffin and setup of sections.

Immunohistochemistry

**MOLECULAR BIOLOGY TECHNIQUE**

DNA, RNA and proteins extraction from animal tissues .

Polymerase Chain Reaction (PCR) and Real time-PCR.

Polymorphisms analysis by STS/microsatellite-based Polymerase Chain Reaction.

Western Blotting

**LABORATORY EQUIPMENT**

Microtome

Cryostat

Automatic stainer

Fluorescence microscope

Optical microscope

Spectrophotometer

Thermocycler PCR

Electrophoresis

▪ **PUBBLICATIONS**

Pinto R, Ardoino L, **Giardullo P**, Villani P, Marino C. *Protocol for a systematic review of the in vivo studies on radiofrequency (100 kHz–300 GHz) electromagnetic field exposure and cancer*. Syst Rev. 2022

Tanno B, Novelli F, Leonardi S, Merla C, Babini G, **Giardullo P**, Kadhim M, Traynor D, Dinesh K. R. Medipally, Aidan D. Meade, Fiona M. Lyng, Tapio S, Marchetti L, Saran A, Pazzaglia S, Mancuso M. *MiRNA-Mediated Fibrosis in the Out-of-Target Heart following Partial-Body*

*Irradiation. Cancers (Basel)* 2022 Jul.

Pazzaglia S, Tanno B, De Stefano I, **Giardullo P**, Leonardi S, Merla C, Babini G, Seda Tuncay Cagatay, Mayah A, Kadhim M, Lyng F, Christine von Toerne, Zohaib N. Khan, Subedi P, Tapio S, Saran A, Mancuso M. *Micro-RNA and Proteomic Profiles of Plasma-Derived Exosomes from Irradiated Mice Reveal Molecular Changes Preventing Apoptosis in Neonatal Cerebellum*. *Int J Mol Sci*. 2022 Feb.

Lico C, Tanno B, Marchetti L, Novelli F, **Giardullo P**, Arcangeli C, Pazzaglia S, Podda M, Santi L, Bernini R, Baschieri S, Mancuso M. *Tomato Bushy Stunt Virus Nanoparticles as a Platform for Drug Delivery to Shh-Dependent Medulloblastoma*. *Int J Mol Sci*. 2021 Oct.

Pazzaglia S, Tanno B, Antonelli F, **Giardullo P**, Babini G, Subedi P, Azimzadeh O, Khan ZN, Oleksenko K, Metzger F, Christine von Toerne, Traynor D, Medipally D, Aidan D. Meade, Kadhim M, Fiona M. Lyng, Tapio S, Saran A, Mancuso M. *Out-of-Field Hippocampus from Partial-Body Irradiated Mice Displays Changes in Multi-Omics Profile and Defects in Neurogenesis*. *Int J Mol Sci*. 2021 Apr.

De Stefano I, Leonardi S, Casciati A, Pasquali E, **Giardullo P**, Antonelli F, Novelli F, Babini G, Tanori M, Tanno B, Saran A, Mancuso M, Pazzaglia S *Contribution of Genetic Background to the Radiation Risk for Cancer and Non-Cancer Diseases in Ptch1+/- Mice*. *Radiat Res*. 2021 Apr 15.

Tanori M, Casciati A, Zambotti A, Pinto R, Gianlorenzi I, Pannicelli A, **Giardullo P**, Benassi B, Marino C, Mancuso M, Merla C. *Microsecond Pulsed Electric Fields: An Effective Way to Selectively Target and Radiosensitize Medulloblastoma Cancer Stem Cells*. *Int J Radiat Oncol Biol Phys*. 2021 Apr 1.

Tanno B, Babini G, Leonardi S, De Stefano I, Merla C, Novelli F, Antonelli F, Casciati A, Tanori M, Pasquali E, **Giardullo P**, Pazzaglia S, Mancuso M. *miRNA-Signature of Irradiated Ptch1+/- Mouse Lens is Dependent on Genetic Background*. *Radiat Res*. 2021 Apr 15.

Casciati A, Tanori M, Manczak R, Saada S, Tanno B, **Giardullo P**, Porcù E, Rampazzo E, Persano L, Viola G, Dalmay C, Lalloué F, Pothier A, Merla C, Mancuso M. *Human Medulloblastoma Cell Lines: Investigating on Cancer Stem Cell-Like Phenotype*. *Cancers (Basel)*. 2020 Jan 17.

Palone F, Pasquali E, **Giardullo P**, Stronati L, Vitali R, Mancuso M. *Low Dose of Dipotassium Glycyrrhizate Counteracts Atherosclerosis Progression in Apoe-/- Female Mice*. *J Vasc Res*. 2019.

Tuncay Cagatay S, Mayah A, Mancuso M, **Giardullo P**, Pazzaglia S, Saran A, Daniel A, Traynor D, Meade AD, Lyng F, Tapio S, Kadhim M. *Phenotypic and Functional Characteristics of Exosomes Derived from Irradiated Mouse Organs and Their Role in the Mechanisms Driving Non-Targeted Effects*. *Int J Mol Sci*. 2020 Nov 9.

Tanori M, Pannicelli A, Pasquali E, Casciati A, Antonelli F, **Giardullo P**, Leonardi S, Tanno B, De Stefano I, Saran A, Mancuso M, Pazzaglia S. *Cancer risk from low dose radiation in Ptch1+/- mice with inactive DNA*

*repair systems: Therapeutic implications for medulloblastoma. DNA Repair (Amst). February 2019.*

Tanori M, **Giardullo P**, Mancuso M. Meccanismi dell'oncogenesi da radiazioni ionizzanti. AGGIORNAMENTI DI RADIOPROTEZIONE (AIRM) — N° 54 Dicembre 2018.

Tanori M, Pannicelli A, Pasquali E, Casciati A, Antonelli F, **Giardullo P**, Leonardi S, Tanno B, De Stefano I, Saran A, Mancuso M, Pazzaglia S *Cancer risk from low dose radiation in Ptch1<sup>+/-</sup> mice with inactive DNA repair systems: Therapeutic implications for medulloblastoma. DNA Repair (Amst). 2019 Feb*

Babini G, Tanno B, De Stefano I, **Giardullo P**, Leonardi S, Pasquali E, Baiocco G, Ottolenghi A and Mancuso M. *Bioinformatic analysis of dose- and time-dependent mirnome responses. Radiation Protection Dosimetry (2018), pp. 1–5.*

Tanno B, Leonardi S, Babini G, **Giardullo P**, De Stefano I, Pasquali E, Saran A, Mancuso M. *Nanog-driven cell-reprogramming and self-renewal maintenance in Ptch1<sup>+/-</sup> granule cell precursors after radiation injury. Sci Rep. October 2017.*

De Stefano I, **Giardullo P**, Tanno B, Leonardi S, Pasquali E, Babini G, Saran A, Mancuso M. *The role of the Shh signaling pathway in radio-induced cataractogenesis. Acta Ophthalmologica. Volume 95, Issue S259, September 2017.*

Lico C, **Giardullo P**, Mancuso M, Benvenuto E, Santi L, Baschieri S. *A biodistribution study of two differently shaped plant virus nanoparticles reveals new peculiar traits. Colloids and Surfaces B: Biointerface. Volume 148, 1 December 2016, Pages 431–439.( Impact Factor 3.902)*

Tanno B, Babini G, Leonardi S, **Giardullo P**, De Stefano I, Pasquali E, Ottolenghi A, Atkinson MJ, Saran A, Mancuso M. *Ex vivo miRNome analysis in Ptch1<sup>+/-</sup> cerebellum granule cells reveals a subset of miRNAs involved in radiation-induced medulloblastoma. Oncotarget. September 2016. (Impact Factor 6.359)*

De Stefano I, **Giardullo P**, Tanno B, Leonardi S, Pasquali E, Babini G, Saran A, Mancuso M. *Nonlinear Radiation-Induced Cataract Using the Radiosensitive Ptch1<sup>+/-</sup> Mouse Model. Radiat Res. September 2016. (Impact Factor 3.022)*

Tanori M, Casciati A, Berardinelli F, Leonardi S, Pasquali E, Antonelli F, Tanno B, **Giardullo P**, Pannicelli A, Babini G, De Stefano I, Sgura A, Mancuso M, Saran A, Pazzaglia S. *Synthetic lethal genetic interactions between Rad54 and PARP-1 in mouse development and oncogenesis. Oncotarget. July 2016. (Impact Factor 6.359)*

Mancuso M, Pasquali E, Ignacia Braga-Tanaka III I, Tanaka S, Pannicelli A, **Giardullo P**, Pazzaglia S, Tapio S, Atkinson MJ, and Saran A. *Acceleration of atherogenesis in APOE<sup>-/-</sup> mice exposed to acute or low-dose-rate ionizing radiation. Oncotarget 2015 Oct 13;6(31):31263-71.*

Paris L, **Giardullo P**, Leonardi S, Tanno B, Meschini R, Cordelli E, Benassi B, Longobardi MG, Izzotti A, Pulliero A, Mancuso M, Pacchierotti F. *Transgenerational inheritance of enhanced susceptibility to radiation-induced medulloblastoma in newborn Ptch1+/- mice after paternal irradiation. Oncotarget* 2015 Nov 3;6(34):36098-112.

De Stefano I, Tanno B, **Giardullo P**, Leonardi S, Pasquali E, Antonelli F, Tanori M, Casciati A, Pazzaglia S, Saran A, Mancuso M. *The Patched 1 Tumor-Suppressor Gene Protects the Mouse Lens from Spontaneous and Radiation-Induced Cataract. Am J Pathol.* 2015 Jan;185(1):85-95.

Antonelli F, Campa A, Esposito G, **Giardullo P**, Belli M, Dini V, Meschini S, Simone G, Sorrentino E, Gerardi S, Cirrone GA, Tabocchini MA. *Induction and Repair of DNA DSB as Revealed by H2AX Phosphorylation Foci in Human Fibroblasts Exposed to Low- and High-LET Radiation: Relationship with Early and Delayed Reproductive Cell Death. Radiat Res.* 2015 Apr;183(4):417-31.

**Giardullo P**, De Stefano I, Mancuso M, Pazzaglia S, Saran A. The Collaboration Between Unimarconi and ENEA: Multidisciplinary Aspects. *Formamente*, Anno IX, N. 3-4/2014.

Strigari L, Mancuso M, Ubertini V, Soriani A, **Giardullo P**, Benassi M, D'Alessio D, Leonardi S, Soddu S, Bossi G. Abscopal effect of radiation: Interplay between radiation dose and p53 status. *Int J Radiat Biol* 2014 Mar;90(3):248-55.

Bellusci M, La Barbera A, Padella F, Mancuso M, Pasquo A, Grollino M, Leter G, Nardi E, Cremisini C, **Giardullo P**, Pacchierotti F. Biodistribution and acute toxicity of a nanofluid containing manganese iron oxide nanoparticles produced by mechanochemical process. In press on *Int J Nanomedicine*.

Dassano A, Mancuso M, **Giardullo P**, De Cecco L, Ciuffreda P, Santaniello E, Saran A, Dragani T, Colombo F. N6-isopentenyladenosine and analogs activate the NRF2-mediated antioxidant response Free Radical Biology and Medicine. In press on *Redox Biology*.

Tanori M, Pasquali E, Leonardi S, Casciati A, **Giardullo P**, De Stefano I, Mancuso M, Saran A, Pazzaglia S. Developmental and oncogenic radiation effects on neural stem cells and their differentiating progeny in mouse cerebellum. *Stem Cells* 2013 Nov;31(11):2506-16.

Mancuso M, Leonardi S, **Giardullo P**, Pasquali E, Tanori M, De Stefano I, Casciati A, Pazzaglia S, Saran A. Oncogenic radiation abscopal effects in vivo: interrogating mouse skin. *Int J Radiat Oncol Biol Phys* 2013 Aug 1;86(5):993-9.

Mancuso M, **Giardullo P**, Pasquali E, Leonardi S, Tanori M, Di Majo V, Pazzaglia S and Saran A. Dose and spatial effects in long-distance radiation signaling in vivo: implications for abscopal tumorigenesis. *Int J Radiat Oncol Biol Phys* 2013 Mar 1;85(3):813-9.

Mancuso M, Pasquali E, **Giardullo P**, Leonardi S, Tanori M, Di Majo V,

Pazzaglia S and Saran A. The radiation bystander effect and its potential implications for human health. *Current Molecular Medicine* 2012 Jun;12(5):613-24.

Mancuso M, Pasquali E, Leonardi S, Rebessi S, Tanori M, **Giardullo P**, Borra F, Pazzaglia S, Naus CC, Di Majo V and Saran A. Role of Connexin43 and ATP in long-range bystander radiation damage and oncogenesis in vivo. *Oncogene* 2011, 30(45):4601-8.

Mancuso M, Leonardi S, **Giardullo P**, Pasquali E, Borra F, Stefano ID, Prisco MG, Tanori M, Scambia G, Majo VD, Pazzaglia S, Saran A, Gallo D. The estrogen receptor beta agonist diarylpropionitrile (DPN) inhibits medulloblastoma development via anti-proliferative and pro-apoptotic pathways. *Cancer Lett* 2011, 308(2):197-202.

Tanori M, Pasquali E, Leonardi S, **Giardullo P**, Di Majo V, Taccioli G, Essers J, Kanaar R, Mullenders LH, Atkinson MJ, Mancuso M, Saran A, Pazzaglia S. Opposite modifying effects of HR and NHEJ deficiency on cancer risk in Ptc1 heterozygous mouse cerebellum. *Oncogene* 2011, 30(47):4740-9.

▪ **POSTER  
PRESENTATION**

**AND**

**Giardullo P**, Tanori M, Leonardi S, De Stefano I, Pasquali E, Antonelli F, Casciati A, Tanno B, Saran A, Pazzaglia S, Mancuso M. Role of HR- and NHEJ- deficiency on *in vivo* abscopal oncogenic response. 10-13 September 2018 XVIII Convegno Nazionale SIRR, Dipartimento di Scienze, Università degli Studi Roma Tre. Rome, Italy. Oral presentation.

**Giardullo P**. I miRNA come biomarcatori di esposizione alle radiazioni. 25-27 September 2016 XVII Convegno Nazionale SIRR, Fondazione Bruno Kessler (Polo delle Scienze Umane e Sociali) Trento, Italy. Oral presentation.

De Stefano I, **Giardullo P**, Tanno B, Leonardi S, Pasquali E, Babini G, Saran A, Mancuso M. Nonlinear Radiation Cataract Induction Using the Radiosensitive Ptch1+/- Mouse Model. 16-19 October 2016, 62nd Annual International Radiation Research Society, Hawaii.

De Stefano I, **Giardullo P**, Tanno B, Leonardi S, Pasquali E, Antonelli F, Tanori M, Casciati A, Pazzaglia S, Saran A and Mancuso M. Shh pathway controls lens postnatal growth and its regeneration following injury. Hedgehog 2015 meeting, October 17 – 20, 2015, Puerto Varas, Chile.

Mancuso M, Pasquali E, Ignacia Braga-Tanaka III, Tanaka S, Pannicelli A, **Giardullo P**, Pazzaglia S, Tapio S, Atkinson M and Saran A. Dose and dose-rate effects in radiation-induced atherogenesis in ApoE-/- mice. 61st Annual Meeting of the Radiation Research Society, 19-22 September 2015, Weston, FL.

**Giardullo P**. New challenges to promote a deeper interaction between e-learning and research. Practical approach and virtual lab to provide an overview of what really happens in a laboratory of radiobiology. IX International GUIDE Conference on Online Education and Society: The Challenges of the Digital Era, 6-8 May 2015, University del Salvador



USAL of Buenos Aires-Argentina. Presentation entitled "Modern Technologies and Distance Learning in Science Didactics". Oral presentation.

De Stefano I, Tanno B, **Giardullo P**, Leonardi S, Pasquali E, Antonelli F, Tanori M, Casciati A, Pazzaglia S, Saran A and Mancuso M. Il cross-talk tra Shh e TGF- $\beta$  promuove lo sviluppo di cataratta radio-indotta in topi Ptch1+/- . 7-8 Novembre 2014, XVI Convegno Nazionale della Società Italiana per le Ricerche sulle Radiazioni (SIRR); Pavia.

Tanno B, Leonardi S, Giardullo P, De Stefano I, Pasquali E, Pazzaglia S, Atkinson M, Saran A, Mancuso M. identification of non-coding miRNA involved in the development of radio-induced medulloblastoma. September 21-24, 2014, 60th Annual Meeting of the Radiation Research Society, Las Vegas.

Tanno B, Leonardi S, Giardullo P, De Stefano I, Pasquali E, Pazzaglia S, Atkinson M, Saran A, Mancuso M. identification of non-coding miRNA involved in the development of radio-induced medulloblastoma. September 21-24, 2014, 60th Annual Meeting of the Radiation Research Society, Las Vegas

Antonelli F, Casciati A, Tanori M, Mancuso M, Leonardi S, Giardullo P, Pasquali E, De Stefano I, Tanno B, Saran A, Pazzaglia S. Role of Shh signaling in the control of adult hippocampal neurogenesis. Keystone Symposia meeting on Adult neurogenesis", 12-17 May 2014 2014, Stockholm.

Tanori M, Pasquali E, Leonardi S, Casciati A, **Giardullo P**, De Stefano I, Mancuso M, Saran A, Pazzaglia S. Differential Radiosensitivity of neural stem cells and their differentiating progeny in the mouse cerebellum: developmental and oncogenic effects 11th International Conference on Environmental Mutagens, 3- 8 Novembre 2012, Bourbon Cataratas Convention & Spa Resort, Foz do Iguaçu; PR, Brazil.

Tanori M, Leonardi S, Pasquali E, Casciati A, **Giardullo P**, Antonelli F, De Stefano I, Tanno B, Mancuso M, Saran A, Pazzaglia S. Combined germline disruption of PARP-1 and RAD54 in development and genome stability. 11th International Conference on Environmental Mutagens, 3- 8 Novembre 2012, Bourbon Cataratas Convention & Spa Resort, Foz do Iguaçu; PR, Brazil.

Paris L, Cordelli E, Meschini R, **Giardullo P**, Leonardi S, Saran A, Mancuso M, Pacchiarotti F. Radiation-induced transgenerational carcinogenesis in Ptch +/- mice. 11th International Conference on Environmental Mutagens, 3- 8 Novembre 2012, Bourbon Cataratas Convention & Spa Resort, Foz do Iguaçu; PR, Brazil.

Mancuso M, De Stefano I, **Giardullo P**, Leonardi S, Pasquali E, Tanno B, Antonelli F, Tanori M, Casciati A, Pazzaglia S, Saran. Ptch1 Heterozygous mice as a model for radiation cataractogenesis. The Fifth International MELODI Workshop, SCK-CEN, The Belgian Nuclear Research Centre, 7-10 Ottobre 2012, Brussels.

Mancuso M, Leonardi S, **Giardullo P**, Pasquali E, Tanori M, De Stefano I,

Casciati A, Pazzaglia S, Saran A. Oncogenic Radiation Abscopal Effects in vivo: interrogating mouse skin. 59th Radiation Research Society Annual Meeting, Hilton New Orleans Riverside, *15-19 Settembre 2013*, New Orleans, LA.

Mancuso M, Leonardi S, **Giardullo P**, Pasquali E, Tanori M, De Stefano I, Casciati A, Pazzaglia S, Saran A. Oncogenic Radiation Abscopal Effect In Vivo: Interrogating Mouse Skin. 40th Annual Meeting of the European Radiation Research Society, *1-5 Settembre 2013*, Dublino.

Pazzaglia S, Tanori M, Leonardi S, Pasquali E, Casciati A, De Stefano I, **Giardullo P**, Mancuso M, Saran A. Developmental and oncogenic radiation effects on neural stem cells and their differentiating progeny in mouse cerebellum. 40th Annual Meeting of the European Radiation Research Society, *1-5 Settembre 2013*, Dublino.

Mancuso M, **Giardullo P**, De Stefano I, Leonardi S, Pasquali E, Tanori M, Casciati A, Pazzaglia S, Saran A. The tumor suppressor gene Patched1 protects the mouse lens against radiation-induced cataract. Annul DoReMi meeting, *Gennaio 2013*, Institut Curie's Orsay, Parigi.

Pazzaglia S, Tanori M, Leonardi S, Pasquali E, Casciati A, De Stefano I, **Giardullo P**, Mancuso M, Saran A. Developmental and oncogenic radiation effects on neural stem cells and their differentiating progeny in mouse cerebellum. Annul DoReMi meeting, *Gennaio 2013*, Institut Curie's Orsay, Parigi.

Paris L, Pacchiarotti F, Cordelli E, Meschini R, **Giardullo P**, Leonardi S, Saran A, Mancuso M. Radiation-induced transgenerational carcinogenicity: a study with a tumor susceptible mouse model. 39th Annual Meeting of the European Radiation Research Society, *15-19 Ottobre 2012*, Vietri sul Mare.

Mancuso M, **Giardullo P**, Leonardi S, De Stefano I, Pasquali E, Tanori M, Casciati A, Pazzaglia S, Saran A. Dose and spatial effects in radiation bystander signaling in vivo: implications for tumorigenesis. 39th Annual Meeting of the European Radiation Research Society, *15-19 Ottobre 2012*, Vietri sul Mare.

Pazzaglia S, Tanori M, Leonardi S, Pasquali E, Casciati A, De Stefano I, **Giardullo P**, Mancuso M, Saran A. Influence of embryonic developmental stage on brain cancer-induction by ionizing radiation in Ptc1+/- mice. 39th Annual Meeting of the European Radiation Research Society, *15-19 Ottobre 2012*, Vietri sul Mare.

Mancuso M, **Giardullo P**, Leonardi S, De Stefano I, Pasquali E, Tanori M, Casciati A, Pazzaglia S, Saran A. The tumor suppressor gene Patched1 protects the mouse lens against spontaneous and radiation-induced cataract. 39th Annual Meeting of the European Radiation Research Society, *15-19 Ottobre 2012*, Vietri sul Mare.

Pazzaglia S, Leonardi S, Pasquali E, Tanori M, **Giardullo P**, Arianna C, Di Majo V, Mancuso M and Saran A "Prenatal exposure of Ptc1+/- mice to ionizing radiation: influence of embryonic developmental stage on

brain cancer-induction". Hedgehog 2012 Signalling in Development Evolution and Disease, 18-21 Marzo 2012, Singapore.

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Pazzaglia S, Tanori M, Pasquali E, Leonardi S, **Giardullo P**, Di Majo V, Mancuso M, Saran A "Opposite modifying effects of HR and NHEJ deficiency on cancer risk in PTC1 heterozygous mouse cerebellum". 14th International Congress of Radiation Research – Incorporating 57th Annual Meeting of the Radiation Research Society, 28 Agosto-1 Settembre 2011, Varsavia.

**Giardullo P** "Effetto Bystander in vivo: nuovi aspetti del meccanismo di trasmissione del danno. La collaborazione tra università ed Enti di Ricerca. L'esempio dell'Università degli Studi Guglielmo Marconi-ENEA: la ricerca nella Biomedicina e nella Biologia delle Radiazioni". Aula Magna Università degli Studi Guglielmo Marconi 31 Marzo 2011, Roma. Oral presentation.

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Tanori M, Mancuso M, Pasquali E, Leonardi S, **Giardullo P**, Rebessi S, Di Majo V, Saran A, Pazzaglia S "Effetto di alterazioni combinate di Patched e di geni del riparo del DNA in tumori cerebrali". XV Convegno Nazionale della Società Italiana per le Ricerche sulle Radiazioni, 27-29 Ottobre 2010. Roma.

Antonelli F, Esposito G, Sorrentino E, **Giardullo P**, Meschini S, Belli M, Simone G, Arancia G, Tabocchini MA "Analisi delle doppie rotture

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▪ **HONORS**

▪ September 2014

Scholars-in-Training (SIT) Travel Award to the Radiation Research Society Annual Meeting, Las Vegas, NV. "Ptch1 heterozygous mice as a model for radiation cataractogenesis".

▪ September 2013

Italian Society of Radiation Research (SIRR) Travel Award for the 40th Annual Meeting of the European Radiation Research Society, Dublin.

▪ September 2013

Prize for poster presentation at the European Radiation Research Society Annual Scientific Meeting, Dublin. "Radiation abscopal effect in vivo: implication for skin tumorigenesis".

In fede

*Paola Giardullo*