

PERSONAL INFORMATION

Roberto AMENDOLA

WORK EXPERIENCE

- 2016-NOW Scientific Expert – Disengaged from ENEA**
 Ministry of Foreign Affairs and International Cooperation of Italy (MAECI) DGSP, Off. IX, Piazzale della Farnesina, 1 Rome, IT (https://www.esteri.it/mae/en/politica_estera/cooperscientificatecnologica)
 Supporting Biomedical Scientific Activity Cooperation (Open Call management, Proposal evaluation/management/negotiation)
 Scientific International Cooperation and Diplomacy
- 2019-NOW Scientific Expert – Disengaged from ENEA**
2016-2019 Ministry of Health of Italy, Directorate of Research and Innovation in Health. Via G. Ribotta 5, 1Rome, IT
 Member of the Technical and Health Committee (CTS) on behalf of MAECI
 Advisory Scientific Board for Italian Institute of Research and Cure (IRCCS) and Ministry of Health
- 1990-NOW Permanent position as Senior Scientist - ENEA**
 ENEA (National Agency for New Technologies, Energy and Sustainable Economic Development). Research Center Casaccia, Via Anguillarese 1, Rome 00123, IT
 ■ Radiation Biology and pre-clinical therapy, Cancer, Biochemistry
 Research activities. Expert of Intellectual Property as member of intramural IP Committee (2002-2007)
- 2013-NOW Associated Editor – PLOS ONE (Public Library of Science)**
 PlosOne, San Francisco, CA (<https://journals.plos.org/plosone/>)
 ■ Radiation Biology and pre-clinical therapy, Cancer, Biochemistry
 Managing Editorial revision of original manuscript
- 2008-NOW Associated Editor – International Journal of Low Radiation**
<https://www.inderscience.com/jhome.php?jcode=ijlr&csid=iq32a2n8kqmldcc4dra4b1gmk3>
 ■ Radiation Biology and pre-clinical therapy, Cancer, Biochemistry
 Managing Editorial revision of original manuscript
- 2016-2018 Lecturer – National Radiation Nuclear University (MEPhI, Moscow)**
 National Radiation Nuclear University (MEPhI) <https://eng.mephi.ru/>
 ■ Radiation Biology and pre-clinical therapy, Cancer, Biochemistry
 Visiting professor
- 2010-2014 Review Committee European Science Foundation (ESF)**
 ■ ESF, Strasbourg (FR) (<https://www.esf.org/>)
 ■ Radiation Biology for Space Sciences
 Senior reviewer
- 2009-2012 Member of the Review Committee EU 7th FP “THESEUS” (Towards exploration of space: an European strategy).**
 “THESEUS” (http://www.theseus-eu.org/fileadmin/Docs/Eg_reports_roadmap/Cluster3_web.pdf)
 ■ Radiation Biology for Space Sciences
 Senior expert
- 2007-2010 Member of the Intellectual Propriety Committee**

European Consortium "TRUEFOOD"

Senior Expert of Intellectual Property (IP)

1989 post-Doc Position AIRC (Italian Association for Cancer Research) Fellowship Prize

Berkeley University, USFCA, CA, LLNL Lawrence Livermore National Laboratory

- Radiation Biology and pre-clinical therapy, Cancer, Biochemistry

Sept.1985-1988 Founder, Scientific, and CEO SRBA (Studio Ricerche Biomediche Avanzate)

SRBA, Rome, Italy

- Radiation Biology and pre-clinical therapy, Cancer, Biochemistry

May 1981-Apr1985 Junior Laureate Sigma-TAU SpA

Sigma-TAU, Pomezia, Rome, Italy

- Organic Chemistry, Pharmacology

Oct. 1976-May1981 Lab technician CRF SpA (Center of Research of Pharmaceutics)

CRF Pomezia, Rome, Italy

- Organic Chemistry, Pharmaceutical

1975-Apr.1976 Lieutenant Air Force

32 Group-Military Airport of Brindisi, Italy

- Lieutenant for military service (VAM) (Armed Surveillance)

EDUCATION AND TRAINING

1984-NOW Qualification for the profession of biologist

University of Rome "La Sapienza", Italy

Oct. 1976-1983 Degree in Biological Sciences

University of Rome "La Sapienza", Italy

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Oct. 1976-1983 Diploma Chemical Expert

ITIS G- L- Bernini, Rome, Italy

56/60

PERSONAL SKILLS

Mother tongue(s) ITALIAN

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English/American	B2	C1	C1	B2	B2

Replace with name of language certificate. Enter level if known.

Communication skills Good communication skills gained through my experience as visiting professor in universities and scientific organization and meetings

Organisational / managerial skills Good leadership acquired for the first time during Military Services as Lieutenant (responsible for a team of 90 people). Then, as lab chief during experience in Sigma-Tau (responsible for a team of 7 colleagues). Founder of the start-up “SRBA” performing research consultancy to third-parties (Applied biology). Referent of projects funded by national and international organization.

Job-related skills Co-organization of the “Second Bilateral CosmicRad Workshop: Cosmic rays and radio-biology in a China-Italy network strategy. Beijing, (RPC) 05 June 2015
 Co-organization of the “First Bilateral CosmicRad Workshop: Cosmic rays and radio-biology in a China-Italy network strategy. Lanzhou (Gansu Province) 02-04 September 2012
 Coordinator of the WP: Ret and radiobiology, V FP (Quality of life – QLCG1-CT-2001-01646, budget 196 k €). Coordinator of the XMAB radiobiology sub-project of Italian Space Agency (ASI) MOMA ‘From Molecules to Man: Space Research Applied to the improvement of the Quality of Life of the Ageing Population on Earth’ (2005-2008, budget 98 k €)

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent	Proficient	Proficient	Independent	Independent

Operative System: LINUX, WIN10

- Office suite (word processor, spread sheet, presentation software)
- Statistics (Data analysis, Graphics and plots)
- Photo editing software and image analysis. Densitometry
- Photo editing software gained as an amateur photographer

Other skillsCarpentry

- Carpentry
- Boat Builder
- DIY (generally speaking)
- Travel Guide Coordinator

Driving licence Driver License type “B” (Italy)

ADDITIONAL INFORMATION



Publications
(more relevant)

- Amendola, R. et al. Effects of L-acetylcarnitine (LAC) on the post-injury of mouse spermatogenesis monitored by flow cytometry. 1.Recovery after X-irradiation. *Andrologia*. 21(6):568-575, 1989.
- Amendola, R., et al. Rapid analysis of transgene integration using in vitro DNA amplification and fluorescence in situ hybridization. *DNA and Cell Biol.*, 10(4):311-317, 1991.
- Amendola, R. Course of c-myc mRNA expression in the regenerating mouse testis determined by competitive reverse transcriptase polymerase chain reaction. *DNA and Cell Biol.* 13(10):1099-1107, 1994.
- Pallavicini, M.G., George, T., Deteresa P.S., Amendola, R., and Gray, J.W. Intracellular dynamics of c-myc mRNA traffic in single cells in situ. *J. Cell. Physiol.* 158:223-230, 1994.
- Amendola, R., et al. G. DR-nm23 gene expression in neuroblastoma cells: relationship to integrin expression, adhesion characteristics, and differentiation. *JNCI*, 89:1300-1310, 1997.
- Raschellà, G., Tanno, B., Bonetto, D., Negroni, A., Claudio, P.P., Baldi, A., Amendola, R., et al. The RB-related gene Rb2/p130 in neuroblastoma differentiation and in B-myb promoter down-regulation. *Cell Death Differ.* 5:401-407, 1998.
- Raschellà, G., Cesi, V., Amendola, R., et al. Expression of B-myb in neuroblastoma tumors is a poor prognostic factor independent from MYCN amplification. *Cancer Res.* 59:3365-3368, 1999.
- Negroni A, Venturelli D, Tanno B, Amendola R. et al. Neuroblastoma specific effects of DR-nm23 and its mutant forms on differentiation and apoptosis. *Cell Death Differ.* 7:843-850, 2000.
- Cervelli M., Bellini A., Bianchi M., Marcocci L., Nocera S., Polticelli F., Federico R., Amendola, R., and Mariottini P. Mouse spermine oxidase gene splice variants. Nuclear subcellular localization of a novel active isoform. *Eur. J. Biochem.* 271, 1-11, 2004.
- R. Amendola. et al. Direct oxidative DNA damage, apoptosis and radio sensitivity by spermine oxidase activities in mouse neuroblastoma cells. *Biochim. Biophys. Acta. Rev. Cancer*, 1775 (1):15-24, 2005.
- M. Bianchi, R. Amendola, R. et al. Two short protein domains are responsible for the nuclear localization of mouse spermine oxidase (mSMO) Δ 1-isoform. *FEBS Journal*, 272: 3052-3059, 2005.
- R. Amendola, et al. RET, cAbl, and TP53 gene fragmentations in COMET-FISH assay act as in vivo bio-markers of radiation exposure in C57Bl/6 and CBA/J mice. *Rad.Res.*, 165 (5): 553-561, 2006.
- M. Bianchi, A. Bellini, M. Cervelli, P. Degan, L. Marcocci, F. Martini, M. Scatteia, P. Mariottini, and R. Amendola. Chronic sub-lethal oxidative stress by spermine oxidase over activity induces continuous DNA repair and hypersensitivity to radiation exposure. *BBA MRC.*, 1773:774-783, 2007.
- Y.Zermati, S.Mouhamad, L. Stergiou, B. Besse, S. Boehrer, F. Rosselli, M. D'Amelio, R. Amendola. et al. Non-apoptotic role for Apaf-1 in the DNA damage checkpoint. *Mol. Cell* 28: 624-637, 2007.
- R. Amendola, et al. Spermine metabolism and anticancer therapy. *Current Cancer Drug Targets*, 9 (2), 118-130, 2009.
- M. Cervelli, G. Bellavia, E. Fratini, R. Amendola. et al. Spermine oxidase (SMO) activity in breast tumor tissues and biochemical analysis of the anticancer spermine analogues BENSpm and CPENSpm. *BMC Cancer* 10:555, 2010.
- E. Fratini, V. Licursi, M. Artibani, K. Kobos, P. Colautti, R. Negri and R. Amendola. Dose-dependent Onset of Skin Regenerative Profile in Neutron Irradiated Mouse Skin. *PLOSOne* Apr 27;6(4):e19242, 2011
- Bufalieri F, Licursi V, D'Antonio M, Castrignanò T, Amendola R, Negri R. The transcriptional response of mammalian cancer cells to irradiation is dominated by a cell cycle signature which is strongly attenuated in non-cancer cells and tissues. *Int J Radiat Biol.* Apr 26. [Epub ahead of print], 2012.
- Cestelli Guidi M, Mirri C, Fratini E, Licursi V, Negri R, Marcelli A, Amendola R. In vivo skin leptin modulation after 14 MeV neutron irradiation: a molecular and FT-IR spectroscopic study. *Anal Bioanal Chem.* Sep;404(5):1317-26, 2012.
- Cervelli M, Bellavia G, D'Amelio M, Cavallucci V, Moreno S, Berger J, Nardacci R, Marcoli M, Maura G, Piacentini M, Amendola R,et al. . A New Transgenic Mouse Model for Studying the Neurotoxicity of Spermine Oxidase Dosage in the Response to Excitotoxic Injury. *PLoS ONE* 8(6): e64810. doi:10.1371/journal.pone.0064810. 2013.
- Amendola R. et al. Reactive oxygen species spermine metabolites generated from amine oxidases and radiation represent a therapeutic gain in cancer treatments. *Int J Oncol.* Sep;43(3):813-820, 2013
- Amendola R. et al. Spermine metabolism and radiation-derived reactive oxygen species for future therapeutic implications in cancer: an additive or adaptive response. *Amino Acids.* Mar;46(3):487-498, 2014
- E. Fratini, R. Amendola. Caves and other subsurface environments in the future exploration of Mars: the absence of natural background radiation as biology concern. *Rendiconti Lincei*, doi 10.1007/s12210-013-0270-0, 2014

A .Pietropaolo, P. Console Camprini , P. Agostini , R. Amendola et al. The New Sorgentina Fusion Source-NSFS: 14 MeV neutrons for fusion and beyond. Journal of Physics: Conference Series 746. 012037. doi:10.1088/1742-6596/746/1/012037. 2016

Licursi V, Cestelli Guidi M, Del Vecchio G, Mannironi C, Presutti C, Amendola R, Negri R. Leptin induction following irradiation is a conserved feature in mammalian epithelial cells and tissues. Int J Radiat Biol. Sep;93(9):947-957. Doi: 10.1080/09553002.2017.1339918. 2017 Fraternity E, Cervelli M, Mariottini P, Kanamori Y, Amendola R, Agostinelli E. Link between spermine oxidase and apoptosis antagonizing transcription factor: A new pathway in neuroblastoma .Int J Oncol. Nov;55(5):1149-1156. doi: 10.3892/ijo.2019.4878. 2019.

Patents

Licursi V, Anzellotti S, Favaro J, Sineri S, Carucci N, Cundari E, Fiore M, Guarguaglini G, Pippa S, Nisi PS, Verni F, Biagioni S, Cacci E, Amendola R, et al. X-ray irradiated cultures of mouse cortical neural stem/progenitor cells recover cell viability and proliferation with dose-dependent kinetics. Scientific Reports, in press. 2020.

Inventor of the Italian patent "Revosort" n° 1242204 (21/11/1990) for the sorting of cellular and sub-cellular particles.

Inventor of the: "Apparatus for photographic processes in normally lighted rooms". Italian patent n° RM 98A 00141 (06/03/1998).

Inventor of the: "Kit for specific DNA fragmentations by" Italian patent n° BO2004A000576 (2004).

Inventor of the "New methodology to analyze SSAT activity by mean of HPLC determination" Italian patent (2007)

Inventor of the "Terminale radio-bio-metrico per il monitoraggio remoto di dosi di radiazioni e di variabili fisiologiche individuali in tempo reale". Italian patent n° RM A499 (19/09/2008)

Presentations Conferences Seminars (more relevant)

Research and Scientific conference of Nuclear Medicine, Unit Department of Internal Medicine, CHS, Addis Ababa University (ETH) 13-17, November, 2017, Addis Ababa (ETH)

60 th Radiation Research Society, Keynote Lecture "The Leptin modulation in response to irradiation: time to move from cell to tissues interplay. Las Vegas(USA), Sep., 21-24 (2014)

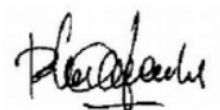
Gordon Conference "Polyamines", Invited Lecture "Spermine oxidase and reactive oxygen Species in neuronal cells". Waterville (USA) June 09-12, 2011

8 th LOWRAD Conference and South Americans Conference on Nuclear Plan, Keynote Lecture "Keratin's cluster regenerative" Rio de Janeiro (BR), 20 Oct. 2009

Ospedale Pediatrico Bambino Gesù (OPBG)_Rome (IT) and Istituto G. Gaslini_Genova. Invited Seminars "Poliamine e Neuroblastoma" 2009.

ANNEXES

I declare that I have no criminal charges and/or judicial measures in progress and that I do not have no conflict of interest
I authorize the processing of my personal data pursuant to the Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data".

A handwritten signature in black ink, appearing to read "Roberto Amendola", is written on a light-colored rectangular background.