

**FORMATO EUROPEO PER IL
CURRICULUM VITAE**



PERSONAL INFORMATION

Name, Surname **Giulia Piaggio**
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Nationality
Place and Date of birth

WORK EXPERIENCE

*Date (da - a)

Name and address of employer IRCCS-Regina Elena National Cancer Institute
Occupation or position held Dirigente Sanitario Biologo - Senior Staff Scientist

Main activities and responsibilities

Research interests:

Since her postdoc at EMBL she is interested in transcriptional regulation of gene expression during cell proliferation, differentiation and transformation. Her work lead to the identification, during differentiation, of a common mechanism of inactivation of a class of cell cycle regulatory genes mediated by the absence of the NF-Y transcriptional factor. Moreover, her studies have contributed to describe molecular mechanisms through which mutant p53 proteins exert their gain of function. Indeed, she identified that a complex of the mutant p53 protein, the NF-Y transcription factor, and the p300 protein has a role in regulating chromatin state and gene expression in proliferating cells and following DNA damage, with resultant effects on the proliferation of cancer cells. She has been involved in the development of a transgenic mouse model to follow physiological and pathological proliferation events by bioluminescence *in vivo* imaging, BLI. This animal model got the cover picture of the volume of the MboC journal in 2012 and, again, on Annals of Anatomy in 2016. This animal model has been sold in Europe, thanks to a collaboration between IFO and the Italian biotech, Transgenic Operative Products, and on American market through the Charles River, a leading company in this field. Very recently, in collaboration with the IFOM zebrafish facility, she is involved in the development of the same biological model in zebrafish.

Besides her studies on animal model Dr Piaggio is also interested in the possible use of cfDNA levels and the preoperative neutrophil lymphocytes (NLR) ratio as prognostic biomarkers of endometrial cancer (EC). Tumor cells can manipulate neutrophils to create different states of phenotypic and functional polarization that can in turn alter tumor behavior. Several studies have demonstrated a role of extracellular neutrophil traps (NETs) in the cancer progression and metastases. This mechanism, called NETosis, could be correlated to the high release of cfDNA into the bloodstream under pathological conditions, in the adhesion of the tumor cells and peritoneal metastases. She is now interested to assess the role of NETosis as a diagnostic marker and therapeutic target in the EC and provide evidence of his possible involvement in hematogenous and peritoneal metastases. In this regard, she actively collaborates with the Gynaecology Unit at IRE.

Responsibilities: Dr. Piaggio is a group leader directly involved in the overall supervision of her research team by providing scientific inputs, discussing the ongoing experiments and ensuring the timely achievement of the proposed tasks. She is responsible for the critical evaluation of the results and their publication in peer reviewed journals. Since 1994, she is responsible of the budget of several public and private grant research projects and is the tutor of PhD students. She shares her time also helping the grant office activities. In particular she is responsible for the annual report

of the IRE scientific activities to the Minister. She is member of the IRE Patent Commette. She represents ACC in the Eranet Transcan project.

• Date (da – a)	01/07/2003-10/08/2003
Name and address of employer	Laboratory of Molecular Growth Regulation National Institute of Child Health and Human Development. NIH Bethesda
Occupation or position held	UICC Fellow for abroad, Visiting Scientist
Main activities and responsibilities	<u>Research interests:</u> Dynamics of NF-Y Transcription Factor in Living Cells during Mitosis.
• Date (da – a)	01/08/1999-31/08/1999
Name and address of employer	Laboratory of Molecular Growth Regulation National Institute of Child Health and Human Development. NIH Bethesda
Occupation or position held	Contractor, Visiting Scientist
Main activities and responsibilities	<u>Research interests:</u> Set up of FLIP-FRAP experiments to visualize the movement of NF-Y in normal and transformed living cells.
• Date (da – a)	01/05/1996- 15/07/1996
Name and address of employer	Laboratory of Molecular Growth Regulation National Institute of Child Health and Human Development. NIH Bethesda
Occupation or position held	FIRC Fellow for abroad, Visiting scientist
Main activities and responsibilities	<u>Research interests:</u> Genomic footprinting of the cyclin B1 to investigate the DNA elements involved in its transcription “in vivo”.
• Date (da – a)	06/01/1990-31/07/1990
Name and address of employer	Molecular Biology Laboratory, IRBM, Research Institute for Molecular Biology Merck-Sigma Tau, Pomezia, Roma.
Occupation or position held	Staff Researcher
Main activities and responsibilities	<u>Research interests:</u> Liver specific transcription in human cells
• Date (da – a)	01/01/1988-05/01/1990
Name and address of employer	Department of Gene Expression (Chief Dr. Riccardo Cortese), EMBL, European Molecular Biology Laboratory, Heidelberg, FRG.
Occupation or position held	Postdoctoral Fellow
Main activities and responsibilities	<u>Research interests:</u> Liver specific transcription in human cells
Awards	1987 AIRC fellow 1996 FIRC fellow for abroad 2003 UICC fellow for abroad 2014 Pezcoller Begnudelli Award 2014-2020 Abilitation ANVUR to Full Professor in Molecular Biology (BIO 05/E2) and Cellular Biology (BIO 05/F1) H index 32 according with scopus

EDUCATION AND TRAINING

Dates (from – to)	April 2001
Name and type of organisation providing education and training	University “La Sapienza”, Rome, Italy
Title of qualification awarded	Board Certified in Clinical Pathology. 70/70 <i>cum laude</i>
Dates (from – to)	01/01/1987-31/12/1989
Name and type of organisation providing education and training	Molecular Oncogenesis Lab., “Regina Elena” Cancer Institute, Rome.
Title of qualification awarded	AIRC fellow
Dates (from – to)	Dicember 1987
Name and type of organisation providing education and training	University “La Sapienza”, Rome, Italy

Title of qualification awarded Italian Biological License.

Dates (from – to) November 1985

Name and type of organisation providing education and training University "La Sapienza", Rome, Italy

Title of qualification awarded Laurea in Biological Science

Level in National classification 110/110

Research sectors	<ul style="list-style-type: none"> - Molecular and Cellular Biology, - Cancer Biology, - Experimental Medicine, - In vivo Molecular Imaging
Recent Scientific Activities	<p>Scientific Societies Membership</p> <p>2010-2012 board member of the "Societa' Italiana di Biofisica e di Biologia Molecolare" (SIBBM).</p> <p>2013-2018 board member of the "Associazione di Biologia Cellulare e Differenziamento" (ABCD)</p> <p>since 1999 member of the "Associazione di Biologia Cellulare e del Differenziamento" (ABCD) and of the "Societa' Italiana di Biofisica e di Biologia Molecolare" (SIBBM).</p> <p>Peer reviewer activities</p> <p>2012-today: member of the editorial board of International Journal of Genomic.</p> <p>Since 2015 member of the editorial board of Peer J.</p> <p>Since 2018 member of the editorial board of IJMS</p> <p>Since 2020 member of the editorial board of Carcinogenesis</p> <p>Reviewer for the following peer reviewed scientific journals: BMC bone, FEBS, J. Exp Clinical Cancer Res., NAR, Oncogene, PLoS ONE, Experimental Hematology, Nature Communications, Cancer Research, Cell Death and Disease, Cell Death Diff., BBAGRM.</p> <p>2014 Project Evaluation Reviewer for MIUR-ANVUR (VQR 2004-2010).</p> <p>2017 Project Evaluation Reviewer for MIUR-ANVUR (VQR 2011-2014).</p> <p>2014 Project Evaluation Reviewer for MIUR- PRIN 2017</p> <p>2017 Member of the Ministry Committee for the evaluation of the FARE 2016 projects, sector ERC – LS – Life Sciences.</p> <p>Tutor scientific activities</p> <p>2006 Expert member of Doctoral Course "Biologia Umana e Genetica" (XIX ciclo), Dipartimento di Biotecnologie Cellulari ed Ematologia, Sezione di Genetica Molecolare Policlinico Umberto I.</p> <p>2007 Expert member of Doctoral Course "Genetica e Biologia Molecolare" (XX ciclo), Dipartimento di Genetica e Biologia Molecolare Charles Darwin, Universita' di Roma Sapienza.</p> <p>Tutor for graduate and PhD student's thesis.</p> <p>Principal Investigator responsible for postdoctoral fellows from FIRC (5) and Fondazione Veronesi (2)</p> <p>2014 Expert member of the European School of Molecular Medicine Doctoral Course IFOM, Milano.</p> <p>2014 Opponent to PhD public defense dissertation. Campus Solna, Karolinska Institutet, Stockholm, Sweden</p> <p>2015 Co-proponent of PhD public defense dissertation. University Medical Center, Groningen, The Netherlands. Student: Filippo Galli, Tutor: Professor Rudi A.J.O. Dierckx</p> <p>International and National Congress Organization</p> <p>Organizer of the "First ROC international workshop and practical course on chromatin immunoprecipitation related techniques" 11-12 November 2006. Regina Elena Cancer Institute, Rome, Italy.</p> <p>Organizer of the "First IRE International Workshop on Chromatin Remodeling and Human Disease" 4-17- November 2009 Regina Elena Cancer Institute, Rome, Italy.</p> <p>Organizer of the Biennal ABCD Congress 18-21 September 2019 Hotel Savoy Regency Bologna Italy</p> <p>Organizer of the Biennal FISV meeting 15-18 September 2020 Reggia dei Portici, Italy</p> <p>2000 - 2005 organizer of the annual meeting sponsored by "Societa' Italiana di Biofisica e di Biologia Molecolare" (SIBBM).</p> <p>Grants:</p> <p>1995 2016 recipient of AIRC, Telethon, CNR, ASI, Minister of Health and Cariplio Foundation grants</p> <p>National and International Patent:</p> <p>Transgenic animal for screening of compounds that modulate cell proliferation, and its use in the pharmaceutical field. Patent application number: 20110197288</p>

PUBBLICATIONS

1. Boubaker NS, Gurtner A, Trabelsi N, Manni I, Said R, Ayed H, Ksentini M, Karray O, Saadi A, Essid MA, Blel A, Rommeni SR, Chebil M, Piaggio G, Ouerhani S. Evaluating prognostic utility of preoperative Neutrophil to Lymphocyte Ratio and hsa-let-7g/c up-regulation in patients with urinary bladder cancer. *Cancer Biomark.* 2019 Oct 25. doi: 10.3233/CBM-190483
2. Setti Boubaker N, Cicchillitti L, Said R, Gurtner A, Ayed H, Blel A, Karray O, Essid MA, Gharbi M, Bouzouita A, Ramme Rommeni S, Chebil M, Piaggio G, Ouerhani S. The clinical and prognostic value of miR-9 gene expression in Tunisian patients with bladder cancer. *Mol Biol Rep.* 2019 Jun 18. doi: 10.1007/s11033-019-04920-6
3. Isabella Manni, Luisa de Latouliere, Aymone Gurtner and Giulia Piaggio. Transgenic Animal Models to Visualize Cancer-Related Cellular Processes by Bioluminescence Imaging. *Front Pharmacol.* 2019 Mar 15;10:235. doi: 10.3389/fphar.2019.00235. eCollection 2019. Review
4. Vizza, E., Mancini, E., Laquintana, V., Loria, R., Carosi, M., Baiocco, E., Cicchillitti, L., Piaggio, G., Patrizi, L., Sperduti, I., Zampa, A., Cutillo, G., Falcioni, R., Corrado, G. The prognostic significance of positive peritoneal cytology in endometrial cancer and its correlations with L1-CAM biomarker. *Surgical Oncology* 2019 Volume 28, March, Pages 151-157
5. Rosati J, Ferrari D, Altieri F, Tardivo S, Ricciolini C, Fusilli C, Zalfa C, Profico D, Bernardini L, Manni I, Piaggio G, Binda E, Copetti M, Lamorte G, Mazza T, Carella M, Gelati M, Valente E, Simeone A, Torres B, and Pinos F., Vescovi A. Establishment of stable iPS-derived human Neural Stem Cells lines suitable for cell therapies. *Cell Death Dis.* 2018 Sep 17;9(10):937. doi: 10.1038/s41419-018-0990-2
6. Corrado G, Laquintana V, Loria R, Carosi M, de Salvo L, Sperduti I, Zampa A, Cicchillitti L, Piaggio G, Cutillo G, Falcioni R, Vizza E. Endometrial cancer prognosis correlates with the expression of LICAM and miR34a biomarkers. *J Exp Clin Cancer Res.* 2018 Jul 6;37(1):139. doi: 10.1186/s13046-018-0816-1
7. Mattioli E, Andrenacci D, Garofalo C, Prencipe S, Scotlandi K, Remondini D, Gentilini D, Di Blasio AM, Valente S, Scarano E, Cicchillitti L, Piaggio G, Mai A, Lattanzi G. Altered modulation of lamin A/C-HDAC2 interaction and p21 expression during oxidative stress response in HGPS. *Aging Cell.* 2018 Aug 15:e12824. doi: 10.1111/acel.12824.
8. La Torre M, Merigliano C, Burla R, Mottini C, Zanetti G, Del Giudice S, Carcuro M, Virdia I, Bucciarelli E, Manni I, Vinciguerra GR, Piaggio G, Riminucci M, Cumano A, Bartolazzi A, Verni F, Soddu S, Gatti M, Saggio I. Mice with reduced expression of the telomere-associated protein Ft1 develop p53-sensitive progeroid traits. *Aging Cell.* 2018 Apr 10:e12730. doi: 10.1111/acel.12730
9. Menini S, Iacobini C, de Latouliere L, Manni I, Ionta V, Blasetti Fantauzzi C, Pesce C, Cappello P, Novelli F, Piaggio G, Pugliese G. The advanced glycation end-product Nε - carboxymethyllysine promotes progression of pancreatic cancer: implications for diabetes-associated risk and its prevention. *J Pathol.* 2018 Mar 13. doi: 10.1002/path.5072.
10. Vizza E, Corrado G, De Angeli M, Carosi M, Mancini E, Baiocco E, Chiosfalo B, Patrizi L, Zampa A, Piaggio G, Cicchillitti L. Serum DNA integrity index as a potential molecular biomarker in endometrial cancer. *J Exp Clin Cancer Res.* 2018 Jan 30;37(1):16. doi: 10.1186/s13046-018-0688-4.
11. Cicchillitti L, Corrado G, De Angeli M, Mancini E, Baiocco E, Patrizi L, Zampa A, Merola R, Martayan A, Conti L, Piaggio G, Vizza E. Circulating cell-free DNA content as blood based biomarker in endometrial cancer. *Oncotarget.* 2017 Dec 14;8(70):115230-115243. doi: 10.18632/oncotarget.23247. eCollection 2017 Dec 29.
12. Beji S, Milano G, Scopece A, Cicchillitti L, Cencioni C, Picozza M, D'Alessandra Y, Pizzolato S, Bertolotti M, Spaltro G, Raucci A, Piaggio G, Pomplio G, Capogrossi MC, Avitabile D, Magenta A, Gambini E. Doxorubicin upregulates CXCR4 via miR-200c/ZEB1-dependent mechanism in human cardiac mesenchymal progenitor cells. *Cell Death Dis.* 2017 Aug 24;8(8):e3020. doi: 10.1038/cddis.2017.409.
13. Galli F, Artico M, Taurone S, Manni I, Bianchi E, Piaggio G, Weintraub BD, Szkludlinski MW, Agostinelli E, Dierckx RAJO, Signore A. Radiolabeling of VEGF165 with 99mTc to evaluate VEGFR expression in tumor angiogenesis. *Int J Oncol.* 2017 Jun;50(6):2171-2179. doi: 10.3892/ijo.2017.3989.
14. Gurtner A, Manni I, Piaggio G. NF-Y in cancer: Impact on cell transformation of a gene essential for proliferation. *Biochim Biophys Acta.* 2017 May;1860(5):604-616. doi: 10.1016/j.bbagen.2016.12.005. Review.
15. Cicchillitti L, Corrado G, Carosi M, Dabrowska ME, Loria R, Falcioni R, Cutillo G, Piaggio G, Vizza E. Prognostic role of NF-YA splicing isoforms and Lamin A status in low grade endometrial cancer. *Oncotarget.* 2017 Jan 31;8(5):7935-7945. doi: 10.18632/oncotarget.13854.
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17. Manni I, Di Rocco G, Fusco S, Leone L, Barbat S, Carapella CM, Grassi C, Piaggio G, Toietta G. Monitoring the Response of Hyperbilirubinemia in the Mouse Brain by In Vivo Bioluminescence Imaging. *Int J Mol Sci.* 2016 Dec 28;18(1). pii: E50. doi: 10.3390/ijms18010050.

18. Regazzo G, Terrenato I, Spagnuolo M, Carosi M, Cognetti G, Cicchillitti L, Sperati F, Villani V, Carapella C, Piaggio G, Pelosi A, Rizzo MG. A restricted signature of serum miRNAs distinguishes glioblastoma from lower grade gliomas. *J Exp Clin Cancer Res.* 2016 Jul 30;35(1):124. doi: 10.1186/s13046-016-0393-0.
19. Principi E, Girardello R, Bruno A, Manni I, Gini E, Pagani A, Grimaldi A, Ivaldi F, Congiu T, De Stefano D, Piaggio G, de Eguileor M, Noonan DM, Albini A. Systemic distribution of single-walled carbon nanotubes in a novel model: alteration of biochemical parameters, metabolic functions, liver accumulation, and inflammation in vivo. *Int J Nanomedicine.* 2016 Sep 1;11:4299-316. doi: 10.2147/IJN.S109950. eCollection 2016.
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21. Vantaggiato C, Dell'Ombo G, Ramachandran B, Manni I, Radaelli E, Scanziani E, Piaggio G, Maggi A, Ciana P. Bioluminescence imaging of estrogen receptor activity during breast cancer progression. *Am J Nucl Med Mol Imaging.* 2016 Jan 28;6(1):32-41. eCollection 2016.
22. Gurtner A, Falcone E, Garibaldi F, Piaggio G. Dysregulation of microRNA biogenesis in cancer: the impact of mutant p53 on Drosha complex activity. *J Exp Clin Cancer Res.* 2016 Mar 12;35:45. doi: 10.1186/s13046-016-0319-x.
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24. de Latouliere L, Manni I, Iacobini C, Pugliese G, Grazi GL, Perri P, Cappello P, Novelli F, Menini S, Piaggio G. A bioluminescent mouse model of proliferation to highlight early stages of pancreatic cancer: A suitable tool for preclinical studies *Ann Anat.* 2016 Sep;207:2-8. doi: 10.1016/j.anat.2015.11.010
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26. Galli F, Rapisarda AS, Stabile H, Manni I, Bonanno E, Piaggio G, Gismondi A, Santoni A, Signore A. In vivo imaging of NK cell trafficking in tumors. *J Nucl Med.* 2015 Aug 13. pii: jnmed.114.152918
27. Rizzi N, Manni I, Vantaggiato C, Delledonne AG Gentileschi MP, Maggi A, Piaggio G*, Ciana P. In vivo imaging of cell proliferation for a dynamic, whole body, analysis of undesired drug effects. *Toxicol Sci.* 2015 Jun;145(2):296-306. * co-corresponding author
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29. Ubertini V, Norelli G, D'Arcangelo D, Gurtner A, Cesareo E, Baldari S, Gentileschi MP, Piaggio G, Nisticò P, Soddu S, Facchiano A, Bossi G. Mutant p53 gains new function in promoting inflammatory signals by repression of the secreted interleukin-1 receptor antagonist. *Oncogene.* 2014 Jul 7. doi: 10.1038/onc.2014.191.
30. Vantaggiato C, Tocchetti M, Cappelletti V, Gurtner A, Villa A, Daidone MG, Piaggio G, Maggi A, Ciana P. Cell cycle dependent oscillatory expression of estrogen receptor- α links Pol II elongation to neoplastic transformation. *Proc Natl Acad Sci U S A.* 2014 Jul 1;111(26):9561-6.
31. Galli F, Manni I, Piaggio G, Balogh L, Weintraub BD, Szkudlinski MW, Fremont V, Dierckx RA, Signore A. 99mTc-labelled-rhTSH analogue (TR1401) for imaging poorly differentiated metastatic thyroid cancer. *Thyroid.* 2014 Aug;24(8):1297-308
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34. Spallotta F, Cencioni C, Straino S, Nanni S, Rosati J, Artuso S, Manni I, Colussi C, Piaggio G, Martelli F, Valente S, Mai A, Capogrossi MC, Farsetti A, Gaetano C. A Nitric Oxide-dependent Crosstalk Between Class I and III Histone Deacetylases Accelerates Skin Repair. *J Biol Chem.* 2013 Apr 19;288(16):11004-12.
35. Pelosi A, Careccia S, Lulli V, Romania P, Marziali G, Testa U, Lavorgna S, Lo-Coco F, Petti MC, Calabretta B, Levrero M, Piaggio G and Rizzo MG. miRNA let-7c promotes granulocytic differentiation in acute myeloid leukemia. *Oncogene.* 2013 Aug 1;32(31):3648-54.
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- Effects of assessing the productivity of faculty in academic medical centers: a systematic review. *CMAJ*. 2012 Aug 7;184(11):E602-12.
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