



INFORMAZIONI PERSONALI

Nome **ROMANIA PAOLO**
E-mail **romania.687643@studenti.uniroma1.it**
Nazionalità **Italiana**

ISTRUZIONE E FORMAZIONE

- Data Ottobre 2017- ongoing
- Nome e tipo di istituto di istruzione o formazione University of Rome "La Sapienza", Rome, Italy. Specialization School in Clinical Pathology and Clinical Biochemistry
- Qualifica conseguita Specialization

- Data Feb 2010
- Nome e tipo di istituto di istruzione o formazione University of Rome "La Sapienza", Rome, Italy. Doctorate defence with the thesis: "Combination of Chk-1 inhibition and chemotherapy leads to mitotic catastrophe in lung cancer stem cells".
- Qualifica conseguita PhD in Human Pathology

- Data Jun 2005
- Nome e tipo di istituto di istruzione o formazione University of Viterbo "La Tuscia", Viterbo, Italy. First session.
- Qualifica conseguita National professional certification

- Data Dec 2004
- Nome e tipo di istituto di istruzione o formazione University of Rome "La Sapienza", Rome, Italy. Graduated with honours (110/110 cum laude) in Biological Sciences with the thesis "Role of the transcriptional factor Ets-1 in erythroid and megakaryocytic differentiation"
- Qualifica conseguita Degree in Biological Sciences, with biomolecular specialization (110/110 cum laude)

BORSE DI STUDIO E CONTRATTI

Post-grad fellowship of the Buzzati-Traverso Foundation
Post-grad fellowship of the Parco Biomedico San Raffaele Foundation
Post-doc fellowship of the Umberto Veronesi Foundation
Holder of a four-year fellowship from Istituto Superiore di Sanità.
Expert for Open Procedure JRC/IPR/2018/F.3/0035/OC: Reviews on Non-animal Methods in Use for Biomedical Research divided in 5 lots.
Lot 5: Immuno oncology Contract: 936588

**ESPERIENZA LAVORATIVA-
PROFESSIONALE**

- Data **JUN 2017- MAR 2020**
- Nome e indirizzo del datore di lavoro Department of Research, Advanced diagnostics and Technological innovation, Oncogenomic and Epigenetic Unit. Via E. Chianesi 53, 00144 Rome, Italy.
- Tipo di azienda o settore IRCCS Regina Elena National Cancer Institute

- Tipo di impiego Senior Researcher
- Principali mansioni e responsabilità Identification of master transcriptional regulators of antigen presentation: precision tuning of tumor immunogenicity

- Data **APR 2011- APR 2017**
- Nome e indirizzo del datore di lavoro Department of Pediatric Hematology and Oncology, Immunoncology Unit. Viale di San Paolo 15, 00146 Rome, Italy.
- Tipo di azienda o settore IRCCS Bambino Gesù Pediatric Hospital.

- Tipo di impiego Post-doc fellowship
- Principali mansioni e responsabilità Identification of leukemia ligands for NK cell activating receptor. ERAP and Tumors. Immune escape of Neuroblastoma.

- Data **Nov 2006 - Nov 2009**
- Nome e indirizzo del datore di lavoro Department of Haematology, Oncology and Molecular Medicine. Viale Regina Elena 299, 00161 Rome, Italy.
- Tipo di azienda o settore Istituto Superiore di Sanità.

- Tipo di impiego PhD studentship
- Principali mansioni e responsabilità DNA damage response in lung cancer stem cells. Ets-1 in melanoma cells. Gamma globin expression in β -thalassemia. Generation of a Full Length cDNA Library for the identification of colon cancer stem cell antigens and monoclonal antibodies development with therapeutic potential or biomarker features.

- Data **JAN 2001- DEC 2004**
- Nome e indirizzo del datore di lavoro Department of Haematology, Oncology and Molecular Medicine. Viale Regina Elena 299, 00161 Rome, Italy.
- Tipo di azienda o settore Istituto Superiore di Sanità.

- Tipo di impiego Undergraduate Studentship
- Principali mansioni e responsabilità Role of Ets-1 transcription factor during differentiation of HSCs. Role of microRNAs during hematopoiesis.

ELENCO PUBBLICAZIONI SCIENTIFICHE

1. ERAP1 promotes Hedgehog-dependent tumorigenesis by controlling USP47-mediated degradation of β TrCP. Bufalieri F, Infante P, Bernardi F, Caimano M, **Romania P**, Moretti M, Lospinoso Severini L, Talbot J, Melaiu O, Tanori M, Di Magno L, Bellavia D, Puget S, De Smaele E, Canettieri G, Guardavaccaro D, Busino L, Peschiaroli A, Pazzaglia S, Giannini G, Melino G, Locatelli F, Gulino A, Ayrault O, Fruci D, Di Marcotullio L. *Nat Comm*. 2019. *Nat Commun*. 2019 Jul 24;10(1):3304. doi: 10.1038/s41467-019-11093-0.
2. Redundancy and Complementarity between ERAP1 and ERAP2 Revealed by their Effects on the Behçet's Disease-Associated HLA-B*51 Peptidome. Guasp P, Lorente E, Martín-Esteban A, Barnea E, **Romania P**, Fruci D, Kuiper JJW, Admon A, López de Castro JA. *Mol Cell Proteomics*. 2019 May 15. pii: mcp.RA119.001515. doi: 10.1074/mcp.RA119.001515.
3. Liquid biopsy in mice bearing colorectal carcinoma xenografts: gateways regulating the levels of circulating tumor DNA (ctDNA) and miRNA (ctmiRNA). Gasparello J, Allegretti M, Tremante E, Fabbri E, Amoreo CA, Romania P, Melucci E, Messana K, Borgatti M, Giacomini P, Gambari R, Finotti A. *J Exp Clin Cancer Res*. 2018 Jun 26;37(1):124. doi: 10.1186/s13046-018-0788-1. PMID: 29941002
4. Role of genetic variations on MHC class I antigen-processing genes in human cancer and viral-mediated diseases. D'Alicandro V, **Romania P**, Melaiu O, Fruci D. *Mol Immunol*. 2018 Apr 3. pii: S0161-5890(18)30103-2. doi: 10.1016/j.molimm.2018.03.024. [Epub ahead of print] PMID: 29625843
5. Che-1 is targeted by c-Myc to sustain proliferation in pre-B-cell acute lymphoblastic leukemia. Folgiero V, Sorino C, Pallocca M, De Nicola F, Goeman F, Bertaina V, Strocchio L, **Romania P**, Pitisci A, Iezzi S, Catena V, Bruno T, Strimpakos G, Passananti C, Mattei E, Blandino G, Locatelli F, Fanciulli M. *EMBO Rep*. 2018 Mar;19(3). pii: e44871. doi: 10.15252/embr.201744871. Epub 2018 Jan 24. PMID: 29367285
6. The Vici syndrome protein EPG5 regulates intracellular nucleic acid trafficking linking autophagy to innate and adaptive immunity. Piano Mortari E, Folgiero V, Marcellini V, **Romania P**, Bellacchio E, D'Alicandro V, Bocci C, Carrozzo R, Martinelli D, Petrini S, Axiotis E, Farroni C, Locatelli F, Schara U, Pilz DT, Jungbluth H, Dionisi-Vici C, Carsetti R. *Autophagy*. 2018;14(1):22-37. doi: 10.1080/15548627.2017.1389356. Epub 2018 Jan 2. PMID: 29130391
7. Identification of a Genetic Variation in ERAP1 Aminopeptidase that Prevents Human Cytomegalovirus miR-UL112-5p-Mediated Immuno-evasion. **Romania P**, Cifaldi L, Pignoloni B, Starc N, D'Alicandro V, Melaiu O, Li Pira G, Giorda E, Carrozzo R, Bergvall M, Bergström T, Alfredsson L, Olsson T, Kockum I, Seppälä I, Lehtimäki T, Hurme MA, Hengel H, Santoni A, Cerboni C, Locatelli F, D'Amato M, Fruci D. *Cell Rep*. 2017 Jul 25;20(4):846-853. doi: 10.1016/j.celrep.2017.06.084. PMID: 28746870
8. PD-L1 Is a Therapeutic Target of the Bromodomain Inhibitor JQ1 and, Combined with HLA Class I, a Promising Prognostic Biomarker in Neuroblastoma. Melaiu O, Mina M, Chierici M, Boldrini R, Jurman G, **Romania P**, D'Alicandro V, Benedetti MC, Castellano A, Liu T, Furlanello C, Locatelli F, Fruci D. *Clin Cancer Res*. 2017 Aug 1;23(15):4462-4472. doi: 10.1158/1078-0432.CCR-16-2601. Epub 2017 Mar 7.
9. Drug transporters and Multiple Drug Resistance in the most common pediatric solid tumors. Fruci D, Cho W, **Romania P**, Nobili V, Locatelli F, Alisi A. *Current Drug Metabolism*. Volume 17, Issue 4, 1 May 2016. PMID: 26694726
10. Tumor-infiltrating T lymphocytes improve clinical outcome of therapy-resistant neuroblastoma. Mina M, Boldrini R, Citti A, **Romania P**, D'Alicandro V, De Ioris M, Castellano A, Furlanello C, Locatelli F, Fruci D. *Oncoimmunology*. 2015 Apr 2;4(9):e1019981. eCollection 2015 Sep. PMID: 26405592
11. ERAP1 regulates natural killer cell function by controlling the engagement of inhibitory receptors. Cifaldi L, **Romania P**, Falco M, Lorenzi S, Meazza R, Petrini S, Andreani M, Pende D, Locatelli F, Fruci D. *Cancer Res*. 2015 Mar 1;75(5):824-34. doi: 10.1158/0008-5472.CAN-14-1643. Epub 2015 Jan 15. PMID: 25592150
12. SCF-mediated γ -globin gene expression in adult human erythroid cells is associated with KLF1, BCL11A and SOX6 down-regulation. Lulli V, **Romania P**, Morsilli O, Ilari R, Gabbianelli M, Testa U, Marziali G. *Blood Cells Mol Dis*. 2015 Jan;54(1):1-3. doi: 10.1016/j.bcmd.2014.10.004. Epub 2014 Nov 3. No abstract available. PMID: 25457384
13. Endoplasmic reticulum aminopeptidase 1 function and its pathogenic role in regulating innate and adaptive immunity in cancer and major histocompatibility complex class I-associated autoimmune diseases. Fruci D, **Romania P**, D'Alicandro V, Locatelli F. *Tissue Antigens*. 2014 Aug;84(2):177-86. doi: 10.1111/tan.12410. Review. PMID: 25066018
14. High-resolution array CGH profiling identifies Na/K transporting ATPase interacting 2 (NKAIN2) as a predisposing candidate gene in neuroblastoma. **Romania P**, Castellano A, Surace C, Citti A, De Ioris MA, Sirleto P, De Mariano M, Longo L, Boldrini R, Angioni A, Locatelli F, Fruci D. *PLoS One*. 2013 Oct 25;8(10):e78481. doi: 10.1371/journal.pone.0078481. eCollection 2013. PMID: 24205241

15. MicroRNA-486-3p regulates γ -globin expression in human erythroid cells by directly modulating BCL11A. Lulli V, **Romania P**, Morsilli O, Cianciulli P, Gabbianelli M, Testa U, Giuliani A, Marziali G. *PLoS One*. 2013 Apr 4;8(4):e60436. doi: 10.1371/journal.pone.0060436. Print 2013. PMID: 23593217
16. Epigenetic deregulation of microRNAs in rhabdomyosarcoma and neuroblastoma and translational perspectives. **Romania P**, Bertaina A, Bracaglia G, Locatelli F, Fruci D, Rota R. *Int J Mol Sci*. 2012 Dec 5;13(12):16554-79. doi: 10.3390/ijms131216554. Review. PMID: 23443118
17. miRNA let-7c promotes granulocytic differentiation in acute myeloid leukemia. 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, Rizzo MG. *Oncogene*. 2013 Aug 1;32(31):3648-54. doi: 10.1038/onc.2012.398. Epub 2012 Sep 10. PMID: 22964640
18. Role of endoplasmic reticulum aminopeptidases in health and disease: from infection to cancer. Cifaldi L, **Romania P**, Lorenzi S, Locatelli F, Fruci D. *Int J Mol Sci*. 2012;13(7):8338-52. doi: 10.3390/ijms13078338. Epub 2012 Jul 4. Review. PMID: 22942706
19. Therapeutic targeting of Chk1 in NSCLC stem cells during chemotherapy. Bartucci M, Svensson S, **Romania P**, Dattilo R, Patrizi M, Signore M, Navarra S, Lotti F, Biffoni M, Pillozzi E, Duranti E, Martinelli S, Rinaldo C, Zeuner A, Maugeri-Saccà M, Eramo A, De Maria R. *Cell Death Differ*. 2012 May;19(5):768-78. doi: 10.1038/cdd.2011.170. Epub 2011 Nov 25. PMID: 22117197
20. Human hepatic stellate cells are liver-resident antigen-presenting cells. Alisi A, **Romania P**, Nobili V, Locatelli F, Fruci D. *Hepatology*. 2011 Sep 2;54(3):1107. doi: 10.1002/hep.24511. No abstract available. PMID: 21725990
21. Constitutive activation of the ETS-1-miR-222 circuitry in metastatic melanoma. Mattia G, Errico MC, Felicetti F, Petrini M, Bottero L, Tomasello L, **Romania P**, Boe A, Segnalini P, Di Virgilio A, Colombo MP, Carè A. *Pigment Cell Melanoma Res*. 2011 Oct;24(5):953-65. doi: 10.1111/j.1755-148X.2011.00881.x. PMID: 21711453
22. Transcriptional silencing of the ETS1 oncogene contributes to human granulocytic differentiation. Lulli V*, **Romania P***, Riccioni R, Boe A, Lo-Coco F, Testa U, Marziali G.*equal contribution. *Haematologica*. 2010 Oct;95(10):1633-41. doi: 10.3324/haematol.2010.023267. Epub 2010 Apr 30. PMID: 20435626
23. MicroRNA 223-dependent expression of LMO2 regulates normal erythropoiesis. Felli N, Pedini F, **Romania P**, Biffoni M, Morsilli O, Castelli G, Santoro S, Chicarella S, Sorrentino A, Peschle C, Marziali G. *Haematologica*. 2009 Apr;94(4):479-86. doi: 10.3324/haematol.2008.002345. Epub 2009 Mar 10. PMID: 19278969
24. MicroRNA 155 modulates megakaryopoiesis at progenitor and precursor level by targeting Ets-1 and Meis1 transcription factors. **Romania P**, Lulli V, Pelosi E, Biffoni M, Peschle C, Marziali G. *Br J Haematol*. 2008 Nov;143(4):570-80. doi: 10.1111/j.1365-2141.2008.07382.x. PMID: 18950466
25. Overexpression of Ets-1 in human hematopoietic progenitor cells blocks erythroid and promotes megakaryocytic differentiation. Lulli V, **Romania P**, Morsilli O, Gabbianelli M, Pagliuca A, Mazzeo S, Testa U, Peschle C, Marziali G. *Cell Death Differ*. 2006 Jul;13(7):1064-74. Epub 2005 Nov 18. PMID: 16294212

PRESENTAZIONI A CONGRESSI

- “Functional single nucleotide polymorphism at the 3’UTR of the endoplasmic reticulum aminopeptidase 1 controls cytomegalovirus infection through the viral miR-US4-1”. Giornate Romane di Immunologia. Roma, Mar 16 2015
- “A genome-wide shRNA screening identifies novel potential ligands for activating NK cell receptors”. 4th European Congress of Immunology. Vienna, Sept 6-9 2015.
- “END9: an early-passage cell line defective in master HLA-I transcriptional coordinators”. EMBO APP10. Paris, May 30-June 2 2019.

CAPACITÀ E COMPETENZE TECNICHE.

CELL BIOLOGY: IN VITRO CULTURES OF CELL LINES, ISOLATION OF BLOOD LEUKOCYTES, INFECTION WITH LENTI AND RETROVIRAL VECTORS, DNA AND RNA TRANSFECTION, FLOW CITOMETRY, IMMUNOFLUORESCENCE AND CONFOCAL MICROSCOPY.

MOLECULAR BIOLOGY: EXTRACTION OF DNA AND RNA FROM CELLS AND TISSUES, MOLECULAR CLONING AND SUB-CLONING, RESTRICTION MAP ANALYSIS, BACTERIA TRANSFORMATION, GEL ELECTROPHORESIS, NUCLEIC ACID RADIOLABELLING, HYBRIDISATION, SOUTHERN BLOT AND NORTHERN BLOT ANALYSIS, SDS-PAGE OF PROTEINS, REAL TIME PCR, RT-PCR, EMSA, CHIP, HUMANIZATION AND PRODUCTION OF ANTIBODIES.

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000)

Il sottoscritto PAOLO ROMANIA, consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel seguente curriculum vitae, redatto in formato europeo, corrispondono a verità: Inoltre, il sottoscritto autorizza al trattamento dei dati personali, ivi compresi quelli sensibili, ai sensi e per gli effetti del decreto legge 30 giugno 2003 n. 196 per le finalità di cui al presente avviso di candidatura.

Firma

Data 20-03-2020

Paolo Romania