TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO **ID CODE 4561**

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Oncologia ed Emato-Oncologia** dell'Universitá degli Studi di Milano

Scientist- in – charge: **Prof. Salvatore Pece**

Francesco ROMEO

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	**Romeo**
Name	**Francesco**
Date of birth	15/10/1978

PRESENT OCCUPATION

Appointment	Structure
unemployed	

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Scienze Biologiche Laurea Magistrale a ciclo unico	University of Calabria - Arcavacata di Rende (CS) - Italy	2004
Specialization			
PhD	International PhD program in Molecular Oncology, Experimental Immunology and development of innovative therapies	"Magna Graécia" University of Catanzaro - Faculty of Medicine and Surgery - Catanzaro - Italy.	2009
Master			
Degree of medical specialization			
Degree of European specialization			
Other			

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REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City

FOREIGN LANGUAGES

Languages	level of knowledge
English	Fluent

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2011	Winner of postdoc fellowship from Fondo Sociale Europeo - POR Calabria FSE 2007/2013
2007	Winner of young investigator award at "VII Meeting of Molecular Oncology" Positano.

TRAINING OR RESEARCH ACTIVITY

Training activity	
3 – 10 August 2013	**8th Tuscany Retreat on Cancer Research and Apoptosis**. Palazzo di Piero, Sarteano-Siena, Tuscany, Italy.
24 June – 5 July 2013	**International Summer School in "Therapeutic Targets for Cell Death in Cancer and Neurodegeneration".** Rome (Italy).
29 March - 2 April 2007	**International Students Workshop Combined Targeted Therapy of Cancer.** Freiburg im Breisgau (Germany). Organizers: Medizinische Universitätsklinik FreiburgAbt. Hämatologie/Onkologie, UMG Universität, Germaneto - Catanzaro, Italien, Karolinska Institut, Stockholm, Schweden
Research activity	
07/2014 – 06/2019	Post-doctoral Fellow, The FIRC Institute of Molecular Oncology Foundation, Milan, Italy - DNA Metabolism Laboratory. Supervisor: Prof. Vincenzo Costanzo
01/2012 – 06/2014	Visiting Post-doc - FSE Founded - MRC Toxicology Unit Hodgkin Building - University of Leicester (UK) Apoptosis and cancer laboratory. Supervisor: Prof. Gerry Melino
07/2011 – 06/2014	Post-doctoral Fellow - FSE Founded - "Magna Graécia" University of Catanzaro - Faculty of Medicine and Surgery - Catanzaro - Italy. Molecular Oncology Laboratory 1, Department of Experimental and Clinical Medicine Supervisor: Prof. Francesco Saverio Costanzo
01/2010 – 06/2011	Post-doctoral Fellow, "Magna Graécia" University of Catanzaro - Faculty of Medicine and Surgery - Catanzaro - Italy. Molecular Oncology Laboratory 3, Department of Experimental and Clinical Medicine. Supervisor: Prof. Giuseppe Viglietto

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10/2005 – 12/2009	Research fellow, International PhD program in Molecular Oncology, Experimental Immunology and development of innovative therapies, "Magna Graecia" University of Catanzaro – Department of Experimental and Clinical Medicine. Supervisor: Prof. Giovanni Morrone/ Prof. Francesco Saverio Costanzo
02/2003-05/2004	Undergraduate student, Laboratory of Cellular Biochemistry, Department of Cell Biology - University of Calabria. Supervisor: Prof. Cesare Indiveri

PROJECT ACTIVITY

Year	Project
07/2014 – 06/2019	- DNA replication and cell fate transition in early embryonic division and stem cells (Falbo et al, Nat Comm, 2020). - Understanding molecular mechanisms maintaining centromeric DNA stability. The FIRC Institute of Molecular Oncology Foundation, Milan, Italy - DNA Metabolism Laboratory.
01/2012 – 06/2014	- Role of p73, a p53 family member, in cell metabolism and in neuronal differentiation (Agostini M., Romeo F. et al, Cell Death Differ. 2016) (Velletri T., Romeo F. et al, Cell Cycle. 2013) MRC Toxicology Unit Hodgkin Building - University of Leicester (UK) Apoptosis and cancer laboratory.
07/2011 – 06/2014	- Analysis of Ferritin heavy chain (FHC) in cancer cell differentiation (Misaggi et al, Gene. 2014). Faculty of Medicine and Surgery - Catanzaro - Italy. Molecular Oncology Laboratory 1, Department of Experimental and Clinical Medicine.
01/2010 – 06/2011	- Role of Ferritin heavy chain (FHC) in tumor progression using a proteomic approach (Di Sanzo et al, J Proteome Res. 2011). - Transcription regulation of genes involved in neoplastic transformation (Romeo et al, Gene. 2011). Faculty of Medicine and Surgery - Catanzaro - Italy. Molecular Oncology Laboratory 3, Department of Experimental and Clinical Medicine.
10/2005 – 12/2009	- Investigation of potential tumor markers in cell lines bearing three distinct missense mutation of BRCA1 gene using a proteomic approach (Crugliano et al, Int Jou Biol Chem, 2008). - Analysis of gene expression patterns of cancer-associated BRCA1 5083del19 founder mutation using microarray (Quaresima et al, Clin Cancer Research,2008). - Role of BRCA1 in hMLH1 stabilization after DNA damage (Romeo et al, Int J Biochem Cell Biol. 2011). Faculty of Medicine and Surgery - Catanzaro - Italy. Molecular Oncology Laboratory 1, Department of Experimental and Clinical Medicine.
02/2003-05/2004	- Development of an *in vitro* method to refold recombinant proteins produced in *Escherichia coli*. Laboratory of Cellular Biochemistry, Department of Cell Biology - University of Calabria.

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CONGRESSES AND SEMINARS

Date	Title	Place
11-13 June 2019	15th SIBBM 2019 – Frontiers in Molecular Biology – Nucleic acid immunity: from cellular mechanisms to new technologies.	Bologna (Italy)
17-21 September 2018	EMBO Workshop "DNA Replication, Chromosome Segregation and Fate decisions"	Kyllini, Greece
20-22 June 2018	14th SIBBM 2018 – Frontiers in Molecular Biology – When and where: temporal and spatial regulation of biological processes.	Rome (Italy)
25-30 June 2011	36th FEBS Congress.	Torino (Italy)
4-9 July 2009	34th FEBS Congress.	Prague (Czech Republic)
June 28-July 3 2008	33rd FEBS Congress & 11th IUBMB Conference.	Atene (Greece)
12 March 2008	Giornata Scientifica "Università Magna Græcia" di Catanzaro	Catanzaro (Italy)
26-28 September 2007	52nd National Congress of the Italian Society of Biochemistry (SIB) – SIB 2007	Riccione (Italy)
14-17 May 2007	VII Meeting of Molecular Oncology.	Positano (Italy)
14-17 October 2006	3rd EMBL Biennial Symposium: From Functional Genomics to Systems Biology	Heidelberg (Germany)
May 2006	Familial Cancer, Centro Nacional de Investigaciones Oncologicas	Madrid (Spain)
19-22 September 2006	EMBO WORK SHOP: Stemness the bright and the dark side	Catanzaro (Italy)

Articles in reviews
Falbo L., Raspelli E., **Romeo F.**, Fiorani S., Casagrande F., Costa I., Parazzoli D., Pezzimenti F., Costanzo V. - "SSRP1-mediated Histone H1 eviction promotes replication origin assembly and accelerated development" – Nature Commun 11,1345 (2020) doi:org/10.1038/s41467-020-15180-5
Romeo F., Falbo L., Costanzo V. "Replication, checkpoint suppression and structure of centromeric DNA" - Nucleus. 2016 Nov;7(6):540-546.
Agostini M. *, **Romeo F. ***, Inoue S., Niklison-Chirou M.V., Elia A.J., Dinsdale D., Morone N., Knight R. A., Mak T.W., Melino G. "Metabolic reprogramming during neuronal differentiation" - Cell Death Differ. 2016 Sep 1;23(9):1502-14. **These authors contributed equally to this study and share first authorship.*
Misaggi R., Di Sanzo M., Cosentino C., Bond H.M., Scumaci D., **Romeo F.**, Stellato C., Giurato G., Weisz A., Quaresima B., Barni T., Amato F., Viglietto G., Morrone G., Cuda G., Faniello M. C., Costanzo F. "Identification of H ferritin-dependent and independent genes in K562 differentiating cells by targeted gene silencing and expression profiling." - Gene. 2014 Feb 10; 535(2):327-35.

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Velletri T.*, **Romeo F.***, Tucci P., Peschiaroli A., Annicchiarico-Petruzzelli M., Niklison-Chirou M.V., Amelio I., Knight R.A., Mak T.W., Melino G., Agostini M. "GLS2 is transcriptionally regulated by p73 and contributes to neuronal differentiation." – Cell Cycle. 2013 Oct 10;12(22). **These authors contributed equally to this study and share first authorship.*
Romeo F., Costanzo F., Agostini M. "Embryonic stem cells and inducible pluripotent stem cells: two faces of the same coin?" - Aging (Albany NY). 2012 Dec 11.
Di Sanzo M., Gaspari M., Misaggi R., **Romeo F.**, Falbo L., De Marco C., Agosti V., Quaresima B., Barni T., Viglietto G., Larsen M.R., Cuda G., Costanzo F., Faniello M.C. "H ferritin gene silencing in a human metastatic melanoma cell line: a proteomic analysis." - J Proteome Res. 2011 Dec 2;10(12):5444-53.
Romeo F., Falbo L., Di Sanzo M., Misaggi R., Faniello M.C., Viglietto G., Cuda G., Costanzo F., Quaresima B. "BRCA1 is required for hMLH1 stabilization following doxorubicin-induced DNA damage." - Int J Biochem Cell Biol. 2011 Dec;43(12):1754-63.
Romeo F., Falbo L., Di Sanzo M., Misaggi R., Faniello M.C., Barni T., Cuda G., Viglietto G., Santoro C., Quaresima B. and Costanzo F. "Negative transcriptional regulation of the human periostin gene by YingYang-1 transcription factor" – Gene. 2011 Nov 10;487(2):129-34.
Quaresima B., **Romeo F.**, Faniello M.C., Di Sanzo M., Liu C.G., La vecchia A., Taccioli C., Gaudio E., Baudi F., Trapasso F., Croce C.M., Cuda G., Costanzo F. "The BRCA1 5083del19 mutant allele selectively upregulates periostin expression in vitro and in vivo." - Clin Cancer Res. 2008 Nov 1;14(21):6797-803.
Crugliano T., Quaresima B., Gaspari M., Faniello M.C., **Romeo F.**, Baudi F., Cuda G., Costanzo F., Venuta S. "Specific changes in the proteomic pattern produced by the BRCA1-Ser1841Asn missense mutation" - Int J Biochem Cell Biol. 2007;39(1):220-6.

Congress proceedings
Epigenetic control of DNA replication origin assembly regulates vertebrate development and nuclear reprogramming. L. Falbo, **F. Romeo**, V. Costanzo. **15th SIBBM 2019 – Frontiers in Molecular Biology – Nucleic acid immunity: from cellular mechanisms to new technologies** Bologna, 11-13 June 2019
Epigenetic regulation of replication origins. L. Falbo, E. Raspelli, **F. Romeo**, V. Costanzo. **EMBO Workshop "DNA Replication, Chromosome Segregation and Fate decisions"** Kyllini, Greece 17-21 September 2018
Epigenetic regulation of eukaryotic DNA replication origins. L. Falbo, Erica Raspelli, **F. Romeo**, V. Costanzo. **14th SIBBM 2018 – Frontiers in Molecular Biology – When and where: temporal and spatial regulation of biological processes** Rome, 20-22 June 2018
Metabolism in human osteosarcoma cells expressing TAp73 (oral communication). **F. Romeo**, M. Agostini, G. Melino. **8th Tuscany Retreat on Cancer Research and Apoptosis** Palazzo di Piero, Sarteano-Siena, Tuscany, Italy 3 August – 10 August 2013
- Transcriptional regulation of POSTN gene expression by YY1 and BRCA1 - L. Falbo, **F. Romeo**, M. Di Sanzo, R. Misaggi, G. Cuda, M. C. Faniello, B. Quaresima and F. Costanzo. - The proteome of the FHC silenced cell: *in vitro* and *in vivo* analysis - R. Misaggi, M. Di Sanzo, M. Gaspari, **F. Romeo**, L. Falbo, G. Cuda, B. Quaresima, M. C. Faniello, F. Costanzo. **36th FEBS Congress** Torino, 25-30 June 2011

- DNA damage induces a post-translational modification of the mismatch protein hMLH1 - **F. Romeo**, A. Nasar, M. Di Sanzo, D. Scumaci, M. Saccomanno, G. Cuda, M. C. Faniello, B. Quaresima, F. S. Costanzo.

- Transcriptional regulation of H-Ferritin gene after TSH stimulation: NF-Y/p300 complex - M. Di Sanzo, **F. Romeo**, G. Epifanio, E Arcuri, B. M. D'Alessandro, L. Falbo, R. Sottile, B. Quaresima, M. C. Faniello, F. Costanzo.
34th FEBS Congress
Praga, 4-9 July 2009

- BRCA1-mediated stabilization of MLH1 DNA mismatch repair protein in response to adryamicin-induced DNA damage. **F. Romeo**, M. Di Sanzo, A. Nasar, G. Cuda, M.C. Faniello, B. Quaresima, F. S. Costanzo.

- A small interfering H-Ferritin-targeting RNA inhibited the proliferation and invasiveness of malignant melanoma. M. Di Sanzo, M.C. Faniello, B. Quaresima, T. Crugliano, A. Fregola, **F. Romeo**, F. Costanzo.
33rd FEBS Congress & 11th IUBMB Conference
Atene, June 28-July 3, 2008.

- BRCA1-mediated stabilization of MLH1 DNA mismatch repair protein in response to adryamicin-induced DNA damage. A. Nasar, **F. Romeo**, M. Di Sanzo, G. Cuda, M.C. Faniello, B. Quaresima, F. Costanzo.

- Specific changes in the gene expression profiling produced by the BRCA1 5083del19 founder mutation. **F. Romeo**, M. Di Sanzo, E. gaudio, A. Lavecchia, F. Baudi, F. trapasso, C.M Croce, G. Cuda, MC Faniello, B. Quaresima, F. Costanzo.

- A small interfering H-Ferritin-targeting RNA inhibited the proliferation of malignant melanoma. M. Di Sanzo, **F. Romeo**, G. Cuda, B. Quaresima, M.C. Faniello, F. Costanzo.

- p53-mediated downregulation of H ferritin promoter transcriptional effciciency via NF-Y. M. Di Sanzo, A. Fregola, **F. Romeo**, F. Baudi, G. Cuda, G. Del Sal, G. Spinelli, G. Morrone, B. Quaresima, M.C. Faniello, F. Costanzo.
Giornata Scientifica "Università Magna Græcia" di Catanzaro
Catanzaro, 12 March 2008

A small interfering H-Ferritin-targeting RNA inhibited the proliferation and invasiveness of malignant melanoma. M. Di Sanzo, M.C. Faniello, B. Quaresima, T. Crugliano, A. Fregola, **F. Romeo**, F. Costanzo.
52nd National Congress of the Italian Society of Biochemistry (SIB) – SIB 2007
Riccione, 26-28 September 2007.

Specific changes in the gene expression profiling produced by the BRCA1 5083del19 founder mutation (oral communication). **F. Romeo**, B. Quaresima, M.C. Faniello, M. Di Sanzo, A. Nasar, F. Baudi, E. Gaudio, F. Trapasso, G. Cuda, C. M. Croce, S. Venuta, F. Costanzo.
VII Meeting of Molecular Oncology
Positano, 14-17 May 2007

p53 regulates negatively the transcription of the H ferritin gene. M. Di Sanzo, M.C. Faniello, A. Fregola, B. Quaresima, V. Di Caro, **F. Romeo**, A. Nasar, G. Morrone, G. Del Sal, G. Spinelli, S. Venuta, F. Costanzo
3rd EMBL Biennial Symposium: From Functional Genomics to Systems Biology
Heidelberg, 14-17 October 2006

OTHER INFORMATION

TECHNICAL SKILLS AND COMPETENCE.

Culture of several cell lines, primary cells and relative assays: Proliferation Assay, Adhesion Assay, Invasion Assay, Wound assay, Colony assay, Soft agar assay, Cytotoxicity assay, Plasmid Transfection and Lentiviral/Retroviral infection, Lentiviral and Retroviral Particles Preparation, Preparation of Cortical and Hippocampal Neurons from Mouse Embryo, Preparation of MEF from Mouse Embryo, Human and mouse primary and cancer cells cultures, iPSC generation from human and mouse primary cells, Embryoid bodies generation and differentiation.

Biochemistry techniques: Total protein and subcellular fractions extraction, Protein electrophoresis and Western blot, Silver staining, Immunoprecipitation and Co-Immunoprecipitation, Chromatin IP, RNA pull-down and IP, In vitro Kinase Assay, In vitro Dephosphorylation Assay, In vitro Ubiquitination Assay, Luciferase assay, ATP Assay, GSH/GSSG assay, metabolic profiling (Seahorse assay), production (overexpression) and purification of recombinant proteins in bacteria and in eukaryotic cells, Knocking down of protein expression in eukaryotic cells by shRNA and siRNA, pull down Assay, 2D-Gel electrophoresis and 2D western blot, PLA Assay, DNA Damage In Situ Ligation Followed by Proximity Ligation Assay (DI-PLA), Bless, *Xenopus* cell-free system (extracts preparation and manipulation, *in vitro* DNA replication assay, chromatin binding assay, *in vitro* fertilization), DNA combing and fiber analysis.

Molecular Biology techniques: DNA, RNA and mtDNA extraction, Nucleic Acids electrophoresis, PCR, RT-PCR and qPCR, Site-directed Mutagenesis, Southern and Northern Blot, Electrophoretic Mobility Shift Assay, DNA cloning, Design of target construct for Knock-out and Knock-in mouse, Screening of Phagemid library, DNA preparation from Bacterial culture, Fluorescence in situ hybridization (FISH), Co-FISH and IF-FISH, CRISPR technology.

FACS assay: Annexin/PI staining, Cell cycle analysis, BrdU/EdU staining,3D flowcytometry, Mitotracker staining, Lysotracker staining, Mitosox staining, DCFDA staining, Glucose uptake.

Imaging: light microscopy, fluorescent microscopy, confocal microscopy, live cells imaging.

Bioinformatic Tools: Bioedit, Blast, Fasta33, ClustalX, Primer3 Input, Gene Jokey, Repeat Masker, TESS, TFsearch, ImageJ/Fiji, FlowJo, ect.

OTHER SKILLS.

Able to work on many projects under minimal supervision. Excellent organization, planning experiments and problem-solving skills. Extensive experience of report writing and documentation of experiments. Presentation of data in laboratory and departmental meetings, seminars and scientific conventions. During all my research experience I trained different undergraduate and graduate students.

State Exam to practice the profession of Biologist.
October 2004

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: Milano, 28.03.2020

SIGNATURE

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