

Mariangela Morlando

Curriculum Vitae

Place ROME
Date 15/05/2023

Part I – Education

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	2000	Sapienza University of Rome, Italy	M.S. in Biological Sciences (summa cum laude). Final dissertation: “Piccoli RNA nucleolari: un nuovo tipo di biosintesi e di processamento di RNA nucleari”
PhD	2004	“Roma Tre” University of Rome, Italy	Ph.D in Biology. Final dissertation: “Factory of small non coding RNAs in <i>Saccharomyces cerevisiae</i> ”

Part II – Appointments

IIA – Academic Appointments

Start	End	Institution	Position
2018	Present	Department of Pharmaceutical Sciences, Perugia University, Italy	Associate Professor (BIO/11)
2020	Present	Department of Pharmaceutical Sciences, Perugia University, Italy	Member of PhD teaching board in Pharmaceutical Sciences (curriculum: Early Phase Drug Discovery)
2018	2019	Department of Biology and Biotechnology, Sapienza University of Rome, Italy	External member of PhD teaching board in Genetica e Biologia Molecolare (ciclo XXXV)
2013	2019	Scuola Superiore di Studi Avanzati Sapienza (SSAS); Sapienza University of Rome, Italy	Junior Research Fellow (from 2018 external Fellow)
2008	2018	Department of Biology and Biotechnology, Sapienza University of Rome, Italy	Research position as EP (Tecnologo)
2006	2008	Sir Wiliam Dunn School of Pathology, Oxford University (UK)	Postdoctoral fellow (EMBO long term fellowship)
2004	2006	Department of Genetics and Molecular Biology, Sapienza University of Rome, Italy	Postdoctoral fellow (Assegno di Ricerca)

IIB – Other Appointments

Start	End	Institution	Position
July	Present	Istituto Italiano di Tecnologie,	External collaborator

2022		Genova, Italy	
June 2021	May 2022	Istituto Italiano di Tecnologie, Genova, Italy	External collaborator
April 2020	March 2021	Istituto Italiano di Tecnologie, Genova, Italy	External collaborator
Feb.201	April 2015	Fondazione Telethon, Rome, Italy	External collaborator

Part III – Teaching experience

Year	Institution	Lecture/Course
2022-present	Department of Medicine, University of Perugia, Italy	Module of <i>Biologia Molecolare</i> BIO/11 (2CFU), School of Dental Medicine (LM-46)
2018-present	Department of Pharmaceutical Sciences, University of Perugia, Italy	<ul style="list-style-type: none"> - Course of <i>Biologia Molecolare</i> BIO/11 (6CFU) Chemistry and Pharmaceutical Technology (CTF, MU-05) - Course of <i>Biologia Molecolare Avanzata</i> BIO/11 (6CFU), Pharmaceutical Biotechnologies (LM-38) - Course of <i>Approcci molecolari nella terapia delle malattie genetiche</i> BIO/11 (1 CFU), Scuola di Specializzazione in Farmacia Ospedaliera
2018-present	Department of Medicine, University of Perugia, Italy	Course of <i>Biologia Molecolare</i> BIO/11 (1CFU), Scuola di Specializzazione in Malattie Infettive e Tropicali
2016-2018	Department of Biology and Biotechnology, Sapienza University of Rome, Italy	Module of the Course of <i>Gene expression regulation in eukaryotes</i> BIO/11 (3CFU, english curriculum), Genetics and Molecular Biology LM-6
2013-2018	Scuola Superiore di Studi Avanzati Sapienza (SSAS), Sapienza University of Rome, Italy	Course of <i>Elementi di Biologia I</i> BIO/11
2009-2017	Department of Biology and Biotechnology and Department; Department of Chemical Engineering, Materials and Environment. Sapienza University of Rome, Italy	<p>Lectures on “RNA maturation”, “Post-transcriptional regulation of gene expression”, “Methodologies for the study of RNA molecules”, “Transcription termination by RNA Polymerase II”, “Regulation of gene expression and molecular cloning techniques and applications”, “non coding RNA biogenesis and function” for the following courses:</p> <ul style="list-style-type: none"> - <i>Biologia Molecolare II</i> BIO/11, Scienze Biologiche (Dm 509/99), - <i>Biologia Molecolare</i> BIO/11, L3 Scienze Biologiche - <i>Metodologia Dell’RNA</i> BIO/11, <i>Genetica E Biologia Molecolare Lm-6</i>, <i>Biologia Cellulare LM-6</i> - <i>Regolazione Dell’espressione Genica Negli</i>

		<p>Eucarioti BIO/11 Module 1, Genetica e Biologia Molecolare Nella Ricerca Di Base E Biomedica Lm-6, Genetica E Biologia Molecolare LM-6 .</p> <p>- Regolazione Post-Trascrizionale BIO/11, Genetica E Biologia Molecolare LS 6/S</p> <p>- Biologia Molecolare BIO/11, Fisica (LM-17 - Dm270/04).</p> <p>- Biologia Molecolare BIO/11 Chimica (Dm 509/99)</p> <p>- Biologia Molecolare BIO/11, L3 Scienze Biologiche</p> <p>- Principi Di Ingegneria Biochimica, LM Ingegneria Chimica</p> <p>- Biologia Molecolare Delle Cellule Staminali, Genetica E Biologia Molecolare Nella Ricerca Di Base E Biomedica BIO/11 LM-6,</p> <p>- Biologia E Tecnologie Cellulari BIO/11 LM-6</p>
2007-present	Department of Pharmaceutical Sciences, University of Perugia, Italy; Department of Biology and Biotechnology, Sapienza University of Rome, Italy	Currently supervisor of 1 PhD student and 1 Master student as main advisor and 2 PhD students as co-advisor. She previously supervised >10 Bachelor and Master Students, 4 PhD students and 3 post-docs.

Part IV - Seminars and Lectures as Invited Speaker

Year	Event	Lecture/Seminar
27th-28th October, 2022	"Amyotrophic lateral sclerosis – from mechanisms to novel therapeutics" Florence, Italy	"FUS mutant motor neurons display defects in CircRNA biogenesis and function"
30th-31st Apr-May, 2022	"SISTEMI MODELLO COME STRUMENTO DI ANALISI GENETICA" meeting organised by AGI (Italian Organization of Genetics), Cortona, Italy	"Cellular and animal models for functional studies of non coding RNAs"
22nd-23rd November, 2019	AriSLA meeting 2019, Milan, Italy	"Circular RNAs characterization in human motor neurons carrying ALS-linked FUS mutations"
27th-28th June, 2019	"Il metabolismo dell'RNA nelle malattie neurologiche-Interplay between RNA binding proteins and non-coding RNAs" IRCCS Fondazione Mondino (Pavia), Italy	"Small RNA players in Amyotrophic lateral sclerosis"
27th November, 2018	"Cell biology and Physiology" course, PhD in Biology, Federico II University of	"Developing cellular model systems for the study of neurodegenerative disorders"

	Naples, Italy	
6th July, 2018	"Il metabolismo dell'RNA nelle malattie neurologiche" IRCCS Fondazione Mondino (Pavia), Italy	" Gli RNA circolari: nuovi attori nello sviluppo neuronale e nelle patologie"
2nd March, 2018	"PhD seminars 2017-2018" PhD "Sistemi Complessi per le Scienze della Vita", Turin, Italy	"Role of lncRNA and circRNA in muscle cell differentiation"
25th-27th May, 2017	VII meeting Stem Cell Research Italy, Chieti, Italy	"Non-coding DNA and cell differentiation"
11st-13rd September, 2013	RNA DAY congress "The centrality of non coding RNA in gene regulation", Rome, Italy	"Biogenesis and function of long non coding RNA in muscle differentiation"
16 th -17 th September 2013	"MicroRNA: from basic research to therapeutic applications", Department of Biochemical and Specialty Surgical Sciences and Department of Life Sciences and Biotechnology, University of Ferrara, Italy	"Non-coding RNA in muscle differentiation and disease"
29th April, 2013	"The Non-Coding Genome: from 'Dark Matter' to Golden Secret?" symposium of training@VIB, Leuven, Belgium	"New roles for the non-coding transcriptome during muscle differentiation"
3rd-5th December, 2012	"Non-coding RNAs" Workshop, Centre Löwenberg, Muntelier, Switzerland	"Role of non-coding RNA in muscle differentiation and disease"
30th-31st October, 2008	"Piccoli RNA-grandi funzioni" meeting organised by AGI (Italian Organization of Genetics) Cortona (AR), Italy	"microRNA biogenesis and genomic organization"

Part V - Society memberships, Awards and Honors

Year	Title
2013-2019	Junior Research Fellow of Scuola Superiore di Studi Avanzati Sapienza (SSAS); Sapienza University of Rome, Italy
2010	Selected as Young Italian Talent by the "Agenzia Nazionale per i Giovani" and a Scientific Committee for the experience, the achievements, the talent and the effort in her research field.
2007	Medal from the Italian President Giorgio Napolitano, for the research activity carried out at the Oxford University (UK) during the postdoctoral period. Antonio Sebastiani award event.

2006	“EMBO Long Term” fellowship
2005	“SIBBM” (Italian Society of Biophysics and Molecular Biology) award for the best 2004 publication in the Biophysics or Molecular Biology fields.
2004	“Giorgio Battistuzzi” Molecular Biology Award for MS degree, aa. 2002-2003, University of Naples “Federico II”.

Part VI - Funding Information

- Grants as PI-principal investigator

Year	Title	Program	Grant value
2017	ARISLA 2017 Pilot Grant	circRNALS: Circular RNAs characterization in human motor neurons carrying ALS -linked FUS mutations	57.000 euro

- Grants as Investigator/External collaborator

Year	Title	Program	Grant value
2022-2023	Fondo di Ricerca Ateneo 2021 UniPG as Investigator	REGolazione dell’Inflamm-Aging: costruzione di una piattaforma multidisciplinare per la decodifica della rete di interazione delle vescicole extracellulari – REGENIA	100.000 euro
2020-2026	ERC-2019-SyG, Project: 855923 ASTRA as Investigator (external Collaborator, IIT appointments)	Assembly and phase Transitions of Ribonucleoprotein Aggregates in neurons: from physiology to pathology	2.813.750 euro
2019-2024	AIRC 2019 (IG-2019, grant number: 23053) as Investigator (external Collaborator)	Circular RNAs: novel players and biomarkers in tumorigenesis	637.000 euro

- Grants as Investigator/member of the research group

Year	Title	Program	Grant value
2017-2020	Telethon – project n. GGP16213 as Investigator (member of the research group)	RNA-based approaches to Duchenne Muscular Dystrophy: post-transcriptional control and role of non coding RNAs in normal and dystrophic muscle development	240.000 euro
2016-2020	H2020 Marie	circRTrain:	401.428 euro

	Sklodowska-Curie Action Innovative Training Networks 2016 PN 721890 as Investigator (member of the research group)	circular RNA Biology Training Network: from biogenesis to biomarkers. circRTrain	
2015-2018	ARISLA full grant, ARCI project as Investigator (member of the research group)	Role of non - coding RNAs in ALS pathogenesis	240.000 euro
2014-2017	AFM Telethon N. 17835 as Investigator (member of the research group)	Role of long non coding RNAs in muscle differentiation and in Duchenne Muscular Dystrophy (DMD)	118.000 euro
2013-2017	EU - FP7 ERC 2013 - AdG 340172 as Investigator (member of the research group)	Role of long non coding RNA in muscle differentiation and disease MUNCODD	2.000.000 euro
2014-2016	HSFP 2014 grant number: RGP0009/2014 as Investigator (member of the research group)	Deciphering non-coding RNA regulatory networks and their role in cancer cell biology	300.000 USD
2013-2017	EU - FP7 Marie Curie - Initial Training Network- 2013 GA 607720 as Investigator (member of the research group)	RNATRRAIN - The European non-coding RNA network	251.800 euro
2011-2015	Telethon GGP11149 as Investigator (member of the research group)	RNA-based gene therapy of Duchenne Muscular Dystrophy: role of miRNA deregulation in the pathogenesis of DMD and their possible use for improving the exon skipping strategy.	305.000 euro
2010-2013	Italian Institute of Technology (IIT) – SEED NEURO MIR as Investigator (member of the research group)	Design of new molecular strategies for the study of neuronal differentiation and for the therapy of neurodegenerative disorders and neuronal cancer	800.000 euro
2009-2012	AIRC grant number 8723, as Investigator (member of the research group)	miRNA function and dysfunction in tumour cells	300.000 euro

Part VII – Patents

Patent n. RM2014A000322: "miRNA modificati nella sequenza seed per il ripristino dei livelli cellulari di FUS/TLS"; University of Rome "LA SAPIENZA"
Inventors: Irene Bozzoni, **Mariangela Morlando**, Stefano Dini Modigliani

Part VIII – Research Activities

Keywords	Brief Description
RNA metabolism, microRNAs, long non coding RNAs, circular RNAs, neuromuscular diseases, ALS, DMD	<p>The research activities are mainly focused on the study of RNA metabolism in physiological and pathological conditions (ALS and DMD). Special attention is dedicated on the structural and functional characterization of transcripts lacking coding potential and belonging to the short and long non coding RNA (linear and circular) families. The analysis of the non coding transcriptome and its variation and contribution to neuromuscular diseases (ALS and DMD) are analysed by advanced high throughput approaches and bioinformatic tools combined with biochemical/ molecular techniques. For instance, pull-down approaches followed by transcriptomic and proteomic investigation are employed to defined non-coding RNA interactors while advances imaging single molecule techniques are applied to detect these molecules in cells or tissues. Due to the abundance and the structure of the linear and circular long non coding RNAs most of the techniques have required optimization for the study of these class of molecules.</p> <p>Different cellular model systems and differentiation protocols, using cell lines and patient derived induced pluripotent stem cells, have been also established in the laboratory for the study of neuromuscular diseases. Genome editing approaches based on the use of CRISPR/CAS9 technology together with the classical RNA interference methodology are used for functional studies of linear and circular long non coding RNAs.</p>
Early phase drug discovery, small molecules, cancer, Ovarian cancer, Acute and Chronic myeloid Leukemia, RNA metabolism, non coding RNAs	<p>Post transcriptional control of gene expression is investigated in the context of cancer disease through the use of small molecules targeting protein factors involved in the coding and non coding RNA metabolism. Cell lines of Ovarian Cancer as well as Acute and Chronic Myeloid Leukemia are used with the aim to find “hit” compounds with anticancer activity. Cellular, biochemical and molecular assays are employed to test the activity of multiple compounds versus selected cellular targets and to determine their effect on coding and non coding RNA biogenesis.</p>

Part IX Full list of publications

1. Colantoni A., Capauto D., Alfano V., D’Ambra E., D’Uva S., Tartaglia G.G., **Morlando M.** (2023) FUS Alters circRNA Metabolism in Human Motor Neurons Carrying the ALS-Linked P525L Mutation. *Int. J. Mol. Sci.* 24:3181.
2. Astolfi A., Milano F., Palazzotti D., Brea J., Pismataro M.C., **Morlando M.**, Tabarrini O., Loza M.I., Massari S., Martelli M.P., Barreca M.L. (2022) From Serendipity to Rational Identification of the 5,6,7,8-Tetrahydrobenzo[4,5]thieno[2,3-d]pyrimidin-4(3H)-one Core as a New Chemotype of AKT1 Inhibitors for Acute Myeloid Leukemia. *Pharmaceutics.* 14:2295.
3. Nielsen A.F., Bindereif A., Bozzoni I., Hanan M., Hansen T.B., Irimia M., Kadener S., Kristensen L.S., Legnini I., **Morlando M.**, Jarlstad Olesen M.T., Pasterkamp R.J., Preibisch S., Rajewsky N., Suenkel C., Kjems J. (2022) Best practice standards for circRNA

research. *Nature Methods* 19:1208-1220

4. D'Ambra E., Santini T., Vitiello E., D'Uva S., Silenzi V., **Morlando M.***, Bozzoni, I.* (2021) Circ-Hdgfrp3 shuttles along neurites and is trapped in aggregates formed by ALS-associated mutant FUS. (*corresponding authors). *iScience*, 24:103504
5. Garone MG, Birsa N, Rosito M, Salaris F, Mochi M, de Turrís V, Nair RR, Cunningham TJ, Fisher EMC, **Morlando M**, Fratta P, Rosa A. (2021) ALS-related FUS mutations alter axon growth in motoneurons and affect HuD/ELAVL4 and FMRP activity. *Commun Biol*. 4:1025.
6. D'Ambra E. and **Morlando M**. (2021) Study of Circular RNA Expression by Nonradioactive Northern Blot Procedure. *Methods Mol Biol*. 2348:371-383.
7. Dobrowolny G., Martone J., Lepore E., Casola I., Petrucci A., Inghilleri M., **Morlando M.**, Colantoni A., Scicchitano B.M., Calvo A., Bisogni G., Chiò A., Sabatelli M., Bozzoni I., Musarò A. (2021) A longitudinal study defined circulating microRNAs as reliable biomarkers for disease prognosis and progression in ALS human patients. *Cell Death Discov*. 7:4.
8. Reinoso-Sánchez J.F., Baroli G., Duranti G., Scaricamazza S., Sabatini S., Valle S., **Morlando M.**, Casero R.A. Jr., Bozzoni I., Mariottini P., Ceci R., Cervelli M. (2020) Emerging Role for Linear and Circular Spermine Oxidase RNAs in Skeletal Muscle Physiopathology. *Int. J. Mol. Sci*. 21:8227.
9. Martone J., Mariani D., Santini T., Setti A., Shamloo S., Colantoni A., Capparelli F., Paiardini A., Dimartino D., **Morlando M.**, Bozzoni I. (2020) SMaRT lncRNA controls translation of a G-quadruplex-containing mRNA antagonizing the DHX36 helicase. *EMBO Rep*. 21:e49942.
10. Di Timoteo G., Dattilo D., Centrón-Broco A., Colantoni A., Guarnacci M., Rossi F., Incarnato D., Oliviero S., Fatica A., **Morlando M.**, Bozzoni I. (2020) Modulation of circRNA Metabolism by m6A Modification. *Cell Rep*. 31:107641.
11. Salvatori B., Biscarini S., **Morlando M**. (2020) Non-coding RNAs in Nervous System Development and Disease. *Front Cell Dev Biol*. 8:273.
12. D'Ambra E., Capauto D., **Morlando M**. (2019) Exploring the Regulatory Role of Circular RNAs in Neurodegenerative Disorders. *Int J Mol Sci*. 20:E5477.
13. Ajmone-Cat M.A., Onori A., Toselli C., Stronati E., **Morlando M.**, Bozzoni I., Monni E., Kokaia Z., Lupo G., Minghetti L., Biagioni S., Cacci E. (2019) Increased FUS levels in astrocytes leads to astrocyte and microglia activation and neuronal death. *Sci Rep*. 9:4572.
14. Rossi F., Legnini I., Megiorni F., Colantoni A., Santini T., **Morlando M.**, Di Timoteo G., Dattilo D., Dominici C., Bozzoni I. (2019) Circ-ZNF609 regulates G1-S progression in rhabdomyosarcoma. *Oncogene* 38:3843–3854.
15. Ballarino M., Cipriano A., Tita R., Santini T., Desideri F., **Morlando M.**, Colantoni A., Carrieri C., Nicoletti C., Musarò A., Carroll DO. Bozzoni I. (2018)

Deficiency in the nuclear long noncoding RNA Charme causes myogenic defects and heart remodeling in mice. *EMBO J.* 37:e99697.

16. Dimartino D., Colantoni A., Ballarino M., Martone J., Mariani D., Danner J., Bruckmann A., Meister G., **Morlando M.*** and Bozzoni I.* (2018) The long non coding RNA Inc-31 interacts with Rock1 mRNA and mediates its YB-1-dependent translation. (*corresponding authors) *Cell Reports* 23: 733-740.

17. **Morlando M.** and Fatica A. (2018) Alteration of Epigenetic Regulation by Long Noncoding RNAs in Cancer. *Int J Mol Sci.* 19: E570

18. Caputo D., Colantoni A., Lu L., Santini T., Peruzzi G., Biscarini S, **Morlando M.**, Shneider NA, Caffarelli E, Laneve P, Bozzoni I. (2018) A Regulatory Circuitry Between Gria2, miR-409, and miR-495 Is Affected by ALS FUS Mutation in ESC-Derived Motor Neurons. *Mol Neurobiol.* 55: 7635-765.

19. Legnini I., Di Timoteo G., Rossi F., **Morlando M.**, Briganti F., Sthandier O., Fatica A., Santini T., Andronache A., Wade M., Laneve P., Rajewsky N., Bozzoni I. (2017) Circ-ZNF609 Is a Circular RNA that Can Be Translated and Functions in Myogenesis. *Mol Cell.* 66: 22-37.

20. Errichelli L., Dini Modigliani S., Laneve P., Colantoni A., Legnini I., Caputo D., Rosa A., De Santis R., Scarfò R., Peruzzi G., Lei L., Caffarelli E., Shneider N.A., **Morlando M.***, Bozzoni I.* (2017) FUS affects circular RNA expression in murine embryonic stem cell-derived motor neurons (*corresponding authors) *Nature Communications* 8:14741.

21. Ballarino M., **Morlando M.**, Fatica A., Bozzoni I. (2016) Non-coding RNAs in muscle differentiation and musculoskeletal disease *J Clin Invest.* 126: 2021-2030.

22. Martone J., Briganti F., Legnini I., **Morlando M.**, Picillo E., Sthandier O., Politano L. and Bozzoni I. (2016) The lack of the Celf2a splicing factor converts a Duchenne genotype into a Becker phenotype *Nature Communications* 7:10488.

23. Hughes J.M., Legnini I., Salvatori B., Masciarelli S., Marchioni M., Fazi F., **Morlando M.**, Bozzoni I. and Fatica A. (2015) C/EBP α -p30 protein induces expression of the oncogenic long non-coding RNA UCA1 in acute myeloid leukemia *Oncotarget* 6:18534-18544.

24. Lenzi J., De Santis R., de Turrís V., **Morlando M.**, Laneve P., Calvo A., Caliendo V., Chio A., Rosa A. and Bozzoni I. (2015) ALS mutant FUS proteins are recruited into stress granules in induced pluripotent stem cell-derived motoneurons. *Disease Models & Mechanisms* 8:755-766.

25. **Morlando M.**, Ballarino M and Fatica A. (2015) Long Non-Coding RNAs: New Players in Hematopoiesis and Leukemia. *Front Med* 2: 23.

26. Ballarino M., Cazzella V. , D'Andrea D., Grassi L., Bisceglie L., Cipriano A., Santini T., Pinnarò C., **Morlando M.**, Tramontano A and Bozzoni I. (2015) Novel long noncoding RNAs (lncRNAs) in myogenesis: a miR-31 overlapping lncRNA transcript controls myoblast differentiation. *Mol Cell Biol.* 35: 728-736.

27. Dini Modigliani S.^{*}, **Morlando M.**^{*+}, Errichelli L., Sabatelli M. and Bozzoni I.⁺ (2014) An ALS-associated mutation in the FUS 3'-UTR disrupts a microRNA-FUS regulatory circuitry. *Nature Communications* 5:4335 (* this authors contributed equally; + corresponding authors).
28. **Morlando M.**, Ballarino M., Fatica A. and Bozzoni I. (2014) The Role of Long Noncoding RNAs in the Epigenetic Control of Gene Expression. *ChemMedChem*. 9: 505-510.
29. Legnini I.^{*}, **Morlando M.**^{*}, Mangiavacchi A., Fatica A. and Bozzoni I. (2014) A Feedforward Regulatory Loop between HuR and the Long Noncoding RNA linc-MD1 Controls Early Phases of Myogenesis. (* this authors contributed equally) *Mol Cell*. 53: 506-514.
30. Di Carlo V., Grossi E., Laneve P., **Morlando M.**, Dini Modigliani S., Ballarino M., Bozzoni I. and Caffarelli E. (2013) TDP-43 regulates the microprocessor complex activity during in vitro neuronal differentiation. *Mol Neurobiol*, 48: 952-963.
31. **Morlando M.**, Rosa, A., Caffarelli, E., Fatica, A. and Bozzoni, I. (2013) "Non coding RNA in muscle differentiation and disease" *MicroRNA Journal*, 2: 91-101.
32. Twayana S., Legnini I., Cesana M., Cacchiarelli D., **Morlando M.**, and Bozzoni, I (2013). Biogenesis and function of non coding RNAs in muscle differentiation and in Duchenne Muscular Dystrophy. *Bioch. Soc. Trans.* 41: 844-849.
33. **Morlando M.**, Dini Modigliani S., Torrelli G., Rosa A., Di Carlo V., Caffarelli E., Bozzoni I. (2012) FUS stimulates microRNA biogenesis by facilitating co-transcriptional Drosha recruitment. *EMBO J*. 31(24): 4502-4510.
34. Cacchiarelli D., Martone J., Girardi E., Cesana M., Incitti T., **Morlando M.**, Nicoletti C., Santini T., Sthandier O., Barberi L., Auricchio A., Musarò A. and Bozzoni I. (2010) "microRNAs involved in molecular circuitries relevant for the Duchenne Muscular Dystrophy pathogenesis are controlled by the dystrophin/nNOS pathway" *Cell Metabolism*. 12:341-351.
35. Ballarino M., Pagano F., Girardi E. **Morlando M.**, Cacchiarelli D., Marchioni M., Proudfoot N., Bozzoni I., 2009. "Coupled RNA processing and transcription of intergenic primary microRNAs" *Mol Cell Biol*. 29: 5632-5638.
36. **Morlando M.**, Ballarino M., Gromak N., Pagano F., Bozzoni I., Proudfoot N. 2008. "Primary micro-RNA transcripts are processed co-transcriptionally" *Nature Structural & Molecular Biology*, 15: 902-909.
37. Fatica. A., Rosa A., Ballarino M., **Morlando M.**, De Angelis F., Caffarelli E., Nervi C. Bozzoni I. 2006. "miRNAs and hematopoietic differentiation" Cold Spring Harbor Symposium on Quantitative Biology "Regulatory RNA" vol. 71: 205-210.
38. Ballarino M., **Morlando M.**, Pagano F., Fatica A., Bozzoni I. 2005. The cotranscriptional assembly of snoRNPs controls the biosynthesis of H/ACA snoRNAs in *Saccharomyces cerevisiae*. *Mol Cell Biol*. 25: 5396-5403.
39. **Morlando M.**, Ballarino M., Greco P. Caffarelli E, Dichtl B, Bozzoni I. 2004. Coupling between snoRNP assembly and 3' processing controls box C/D snoRNA biosynthesis in yeast. *EMBO J*. 23: 2392-2401.

40. **Morlando M.**, Greco P., Dichtl B., Fatica A., Keller W., Bozzoni I. 2002. Functional analysis of yeast snoRNA and snRNA 3'-end formation mediated by uncoupling of cleavage and polyadenylation. *Mol Cell Biol.* 22: 1379-1389.

41. Fatica A., **Morlando M.**, Bozzoni I. 2000. Yeast snoRNA accumulation relies on a cleavage-dependent/polyadenylation-independent 3'-processing apparatus. *EMBO J.* 19: 6218-6229.

Part X – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	41	Scopus	2000	2023

Total Impact factor	347,362
Average Impact factor per Product	8,47
Total Citations	4100
Average Citations per Product	100
Hirsch (H) index	26
Normalised H index	1,13

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Rome

Firma