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Decreto Rettore Università di Roma “La Sapienza” n 2267/2021 del 09.08.2021

CODICE CONCORSO 2021RTDB02

## CLAUDIA CARISSIMI

### Curriculum Vitae

(destinato ai fini della pubblicazione)

Place, Rome

Date, 27/09/2021

#### Part I – General Information

Full Name	CLAUDIA CARISSIMI
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#### Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	2002	Sapienza University of Rome, Italy	Biological Science, full marks and honors
Italian Biological Licensure (ESAME DI STATO per esercitare la professione di biologo)	2003	University of Tuscia, Viterbo, Italy	Professional qualification
PhD	2007	Sapienza University of Rome, Italy	PhD in Genetics and Molecular Biology
National qualification	2020	Italian Ministry of Education, Qualification University and Research (MIUR) -ANVUR.	Abilitazione Scientifica Nazionale professore di II FASCIA 05/F1

#### Part III – Appointments

##### IIIA – Academic Appointments

Start	End	Institution	Position
01/11/2018	31/10/2020	Sapienza University of Rome Department of Molecular Medicine	University researcher fixed-term (Ricercatore a tempo determinato-tipo A - BIO13)
01/11/2015	31/10/2018	Sapienza University of Rome Department of Cellular Biotechnology and Haematology.	University researcher fixed-term (Ricercatore a tempo determinato-tipo A - BIO13)
01/07/2012	30/06/2015	Sapienza University of Rome Department of Cellular Biotechnology and Haematology.	University researcher fixed-term (Ricercatore a tempo determinato – BIO 13)

2012	2015	Sapienza University of Rome Department of Cellular Biotechnology and Haematology.	Member of the PhD Board. PhD course "BIOLOGIA UMANA E GENETICA MEDICA" XXVIII ciclo (cod.DOT1226100)
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### IIIB – Other Appointments

Start	End	Institution	Position
01/11/2020	31/10/2021	Sapienza University of Rome Department of Molecular Medicine	Research Fellow (assegnista di ricerca)
01/02/2012	30/06/2012	Sapienza University of Rome Department of Cellular Biotechnology and Haematology	Research Fellow (assegnista di ricerca)
01/02/2011	31/01/2012	Sapienza University of Rome Department of Cellular Biotechnology and Haematology	Research Fellow (assegnista di ricerca)
01/02/2010	31/01/2011	Sapienza University of Rome Department of Cellular Biotechnology and Haematology	Research Fellow (assegnista di ricerca)
01/02/2009	31/01/2010	Sapienza University of Rome Department of Cellular Biotechnology and Haematology	Research Fellow (assegnista di ricerca)
1/06/2007	01/02/2009	Sapienza University of Rome Department of Cellular Biotechnology and Haematology	Research collaborator (co.co.co)
1/11/2006	31/05/2007	Dulbecco Telethon Institute	Research Fellow (post-doc)
1/11/2003	31/10/2006	Dulbecco Telethon Institute	Research Fellow (PhD)
1/01/2003	30/09/2003	Dulbecco Telethon Institute	Research Fellow (tirocinio post-laurea)
1/06/2002	31/12/2002	Istituto di Biologia Cellulare, CNR (Monterotondo)	Research Fellow (tirocinio post-laurea)

### Part IV – Teaching experience

Year	Institution	Lecture/Course
2020-2021	Sapienza University of Rome, Facoltà Medicina e Odontoiatria	Corso di laurea magistrale in Medicina e Chirurgia (corso B) <u>Insegnamento:</u> Biologia e Genetica (5 cfu, 60 ore, SSD: BIO/13)  - Docenza come cultore della materia e membro della Commissione esaminatrice

		- Supporto al docente di riferimento nel coordinamento del corso integrato
2019-2021	Sapienza University of Rome, Facoltà Medicina e Odontoiatria	Corso di laurea magistrale in Medicina e Chirurgia (corso B):  - Coordinatore Didattico di Semestre, I semestre del I anno  - Membro della Commissione Tecnica di Programmazione didattico-pedagogica (CTP)
2020	Sapienza University of Rome	Docente:  Technical-practical course for PhD students "Approcci per lo studio del genoma umano e di metagenomica" Scuola di Dottorato in Biologia e Medicina Molecolare (BeMM)- Dottorato di Ricerca in Biologia Umana e Genetica Medica
2018-2020	Sapienza University of Rome, Facoltà Medicina e Odontoiatria	Corso di laurea magistrale in Medicina e Chirurgia (corso B)  - Coordinatore del corso integrato di Biologia e Genetica (CFU: 13, SSD: BIO/13)
2018-2020	Sapienza University of Rome, Facoltà di farmacia e Medicina	Corso di laurea magistrale in Biotecnologie <u>Insegnamento:</u> Biologia Cellulare (CFU: 9, SSD: BIO/13)  - Membro della Commissione esaminatrice e codocenza
2012-2020	Sapienza University of Rome, Facoltà Medicina e Odontoiatria,	Corso di laurea magistrale in Medicina e Chirurgia (corso B) <u>Insegnamento:</u> Biologia e Genetica II, modulo di Genetica (5cfu, 60 ore)  - Docente titolare
2011	Sapienza University of Rome, Facoltà Medicina e Odontoiatria,	Corso di laurea magistrale in Medicina e Chirurgia (corso B) <u>Insegnamento:</u> Biologia e Genetica II, modulo di Genetica (5 cfu, 60 ore, SSD: BIO/13)  - Docenza come cultore della materia e membro della Commissione esaminatrice

### Mentoring experience

Year	Institution	Lecture/Course
2016	Sapienza University of Rome	Bando della Ricerca scientifica di Ateneo 2016  Tutor di riferimento del gruppo di ricerca nel progetto "Progetti per Avvio alla Ricerca" dal titolo "studio dell'espressione genica mediante studio di associazione genome-wide (gwas) in pazienti affetti da

		esofagite eosinofila prima e dopo terapia".
2007 to present	Sapienza University of Rome	Supervisor of Master's degree and PhD students in Biology and Biotechnology.
2007 to present	Sapienza University of Rome	Supervisor of PhD students, program in Human Biology and Medical Genetics.

### Part V - Editorial activity

2019 to present	<b>Academic Editor</b> "OMICS: A Journal of Integrative Biology" Mary Ann Liebert, Inc.
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### Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2020	5mC and 5hmC modification of human microRNAs: identification of writer enzymes and assessment of the effects of these epitranscriptomic modifications on microRNA activity. (role: I)	University Scientific Research funding "Sapienza" University, code: RM120172B9202761	10.000 euro
2019	Molecular insights into the role of AGO2 in the assembly of telomerase holoenzyme (role: PI)	University Scientific Research funding "Sapienza" University, code: RM11916B7A048AA0	10.000 euro
2018	Characterization of the 5mC profile of miRNAs in human cell lines and primary cells from healthy donors and Multiple Sclerosis patients (role: I)	University Scientific Research funding "Sapienza" University, code: RM11816429252FCF	10.000 euro
2017	The role of AGO2 in telomere maintenance in human cells (role: I)	University Scientific Research funding "Sapienza" University, code: RM11715C7F1EE83B	31,750 euro
2016 - 2018	The epigenomic function of AGO2-SWI/SNF complexes in human cell lines (role: I)	EPIGENOMICS FLAGSHIP PROJECT (Progetto Bandiera Epigenomica) Proroga	90.000 euro
2016	Characterization of the role of AGO1 in the maintenance of genome integrity and splicing in actively transcribed regions (role: PI)	University Scientific Research funding "Sapienza" University, code: RM116155019D0137	12.000 euro
2015	Ruolo della proteina AGO2 nel catabolismo degli RNA circolari (role: I)	University Scientific Research funding "Sapienza" University, code: RM116155019D0137	10.000 euro
2014	The nuclear function of AGO2 in chromatin remodeling and DNA damage in human cells. (role: I)	University Scientific Research funding "Sapienza" University, code: RM116155019D0137	10.000 euro

2013 - 2015	The epigenomic function of AGO2-SWI/SNF complexes in human cell lines (role: I)	EPIGENOMICS FLAGSHIP PROJECT (Progetto Bandiera Epigenomica) EPIGEN	180.000 euro
2010 - 2013	Characterization of the role of miR-103, let-7, miR-181, miR-19 and miR-93 in Acute Lymphoblastic Leukemias (role: I)	AIRC (Codice Riferimento: 10085)	310.500 euro
2007 - 2011	SIROCCO Integrated Project (role: I)	European Commission Framework Program 6 Project "Sirocco" LSHG-CT-2006-037900	

## Part VII – Research Activities

Keywords	Brief Description
	Over the last years I was involved in projects ranging in different fields but united by the use of genome-wide high-throughput approaches.
intestinal fibrosis chronic inflammatory diseases ZNF281 EMT intestinal organoids	2018 to present. I am involved in research project aim to study the molecular and pathogenic mechanisms associated with chronic inflammatory diseases and fibrosis of the gastro-intestinal tract. We aim to investigate the role of the transcription factor ZNF281 in the onset and progression of gut fibrosis through <i>in vitro</i> , <i>in vivo</i> and <i>ex vivo</i> analyses (human intestinal organoids). Indeed, in a preliminary study, we found that ZNF281, is strongly implicated in the onset and development of intestinal inflammation. Moreover, our data suggest a function of this protein in the activation of the fibrotic process, also considering its well-known role as an EMT-transcription factor.
Eosinophilic Esophagitis SERPINB12 fibrosis	2018 to present. I am participating in a project aim to identify by high-throughput approaches the genes most involved in the pathogenesis and in response to therapy in pediatric patients affected by Eosinophilic Esophagitis. EoE is a chronic Th2 mediated inflammatory condition with subsequent development of fibrosis. In a previous study, we showed that the different tendency to relapse in children with EoE responding to topical steroids was related to an altered transcriptome profile. In particular, the gene SERPINB12 was differentially expressed among patients with early or late relapse and it will be investigated as a new possible marker of steroid-dependency. A second goal of the project will be the characterization of the esophageal tissue by single cell RNA sequencing in order to identify rare cell populations with a specific role in the disease development and discovering new markers able to discriminate between health and diseased tissues.
Metagenomics Microbioma Autistic Spectrum Disorder Chronic inflammatory disorders	2017 to present. I am involved in research projects related to the study of structural and functional peculiarities of the gut microbioma in chronic inflammatory disorders (IBD) and metabolic diseases (NAFLD/NASH). In a recent article, we compared the performance of metagenomics and 16S amplicon sequencing using Illumina platform showing that metagenomics outperforms 16S rDNA amplicon sequencing. We applied the metagenomics approaches in the study of Gut-Brain axis in Autism Spectrum Disorders highlighting novel aspects of ASD pathophysiology.
Epitranscriptomic microRNA m5C	2017 to present. I am implicated in research projects focused on the role of 5-methyl-cytosine (5mC) and 5-hydroxy-methyl-cytosine (5hmC) modifications on microRNA function. We unravelled not only the presence of m5C but, also, of hm5C on several miRNAs in human cancer cell lines and primary tissues, thus showing for the first time that human miRNAs harbour hm5C. Moreover, we describe the first high-throughput NGS-based method (BS-miRNA-seq) and an analysis pipeline (MAMBA) to attain high-resolution mapping of (hydroxy)-methyl-

	5-cytosine ((h)m5C) modifications in human miRNAs.
RNAi AGO proteins Epigenomics P53 Telomere	2012-2017. At the beginning of my career as researcher fixed term at Sapienza University of Rome (BIO13), my interests have been focused on the role of AGO proteins and their associated small noncoding RNA in epigenetic regulation of gene expression and genome integrity maintenance, demonstrating for the first time that in human cells essential RNAi components can affect local chromatin structure, by collaborating with the chromatin remodelling complex SWI/SNF. In collaboration with L. Castellano and J. Stebbings at Imperial College (London) I have investigated the cross-talk between AGO2 and p53 in DNA damage response. Moreover, we have demonstrated the role of AGO2 in telomere maintenance in human cells.
microRNA T-cell activation Acute Lymphoblastic Leukemia Neurodegenerative diseases	2007-2012. During my post-doctoral training in the Department of Cellular Biotechnology and Haematology (Sapienza University of Rome), my work was focused on the study of the role of miRNAs in T-cell activation and in Acute Lymphoblastic Leukemia, an AIRC-funded project. Moreover, I participated to another AIRC-funded project studying miR-21 involvement in neurodegenerative diseases.
RNA metabolism, Spinal Muscular Atrophy	2003-2007. During my PhD and first post-doctoral research in the group of Livio Pellizzoni (Dulbecco Telethon Institute) I gained extended expertise in techniques of molecular biology and biochemistry, while investigating the composition and function of SMN complexes in cell lines and murine models of Spinal Muscular Atrophy. This project was financed by a fellowship from Telethon.

### Scientific network:

- Prof. Nikolaus Rajewsky, Max Delbrück Center for Molecular Medicine, Berlino.
- Dott. L. Castellano, University of Sussex, United Kingdom.
- Prof. J. Stebbings, Imperial College, London.
- Dott.ssa Anna Negroni e Dott.ssa Roberta Vitali, Divisione Tecnologie e metodologie per la salvaguardia della salute, ENEA, Roma.
- Dott.ssa Lorenza Putignani, Ospedale Pediatrico “Bambino Gesù”.
- Prof. Vincenzo Cardinale, Dipartimento di Medicina Traslationale e di Precisione, “Sapienza” Università di Roma.
- Prof. Gianfranco Silecchia (Dipartimento Scienze Medico-Chirurgiche e Biotecnologie Polo Pontino), “Sapienza” Università di Roma.
- Dott. Salvatore Oliva (Dipartimento Materno Infantile e Scienze Urologiche), “Sapienza” Università di Roma,
- Prof. Marc E. Rothenberg, Division of Allergy and Immunology Cincinnati Children's Hospital Medical Center, USA.
- Prof. Gilberto Poggioli. Dipartimento di Scienze Mediche e Chirurgiche, Università di Bologna.
- Prof. Salvatore Cucchiara Dipartimento Materno Infantile e Scienze Urologiche, “Sapienza” Università di Roma.

### Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	29	Pubmed ( <a href="https://pubmed.ncbi.nlm.nih.gov/?term=cari%20ssimi%20claudia&amp;sort=pubdate">https://pubmed.ncbi.nlm.nih.gov/?term=cari%20ssimi%20claudia&amp;sort=pubdate</a> ) (2 Papers online ahead of print)	2003	2021
Papers [international]	27	Scopus	2003	2021

		<a href="https://www.scopus.com/authid/detail.uri?authorId=9746053100">https://www.scopus.com/authid/detail.uri?authorId=9746053100</a>		
Papers [international]	29	WOS <a href="https://www.webofscience.com/wos/author/record/2610763">https://www.webofscience.com/wos/author/record/2610763</a>	2003	2021
Books [teaching]	1	<a href="https://www.edisesuniversita.it/default/elementi-di-genetica-russell.html">https://www.edisesuniversita.it/default/elementi-di-genetica-russell.html</a>	2016	

Total Impact factor	178,204
Average Impact factor per Product	6,6** (6,144*** )
Total Citations	1222 (scopus)
Average Citations per Product	45,25 (scopus)
Hirsch (H) index	15 (scopus)
Normalized H index*	0,83
First name products	9
Last name products	6
Corresponding author products	10

\*H index divided by the academic seniority.

\*\*excluding papers without IF

\*\*\*including all papers

### Part IX- Scientific Conferences - Oral presentation/ Invited speaker

Oral presentation	Title: "Characterization of SMN interactions in the spinal cord". The RNA world: from basic science to applied research. University of Rome "La Sapienza", Rome, Italy, 2004, June 10-11.
Oral presentation	Title "Gemin8 is essential for the architecture and function of the SMN complex"4th Retreat of the Dulbecco Telethon Institute. Terni, Italy, May 15-16, 2006
Invited speaker	Title: "High-throughput biochemical identification of miRNA targets pin-points to miR-21 as a novel modulator of TCR Signaling". 4th Berlin Summer Meeting, Berlin Institute for Medical Systems Biology (BIMSB) at the Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch, June 23 – 25, 2011
Invited speaker	Title: "Come integrare le tecniche <i>omiche</i> nella ricerca biomedica" FORUM SIGENP PER I GIOVANI RICERCATORI- Roma, 16-17 marzo 2018

### Part IX\_Awards and Honors

2017	Premialità annuale individuale delle attività base di ricerca, di cui all'art. 1, commi 295 e seguenti, della Legge 11 dicembre 2016 (2000 Euro)
2007	Award Best PhD thesis PhD in Genetics and Molecular Biology (XIX ciclo) -Sapienza University of Rome Title "Identification and functional characterization of novel protein components of the Survival Motor Neuron complex". Supervisor: Dr Livio Pellizzoni, Tutor Prof.ssa Irene Bozzoni.

## Part X– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

- 1 - De Paolis V, Loreface E, Orecchini E, **Carissimi C**, Laudadio I, Fulci V.  
“Epitranscriptomics: A New Layer of microRNA Regulation in Cancer”  
*Cancers (Basel)*. 2021 Jul 5;13(13):3372. doi: 10.3390/cancers13133372. Publisher: MDPI journal  
**IF 6.639; Citations (SCOPUS): 1 (Corresponding author).**
- 2 - **Carissimi C**, Laudadio I, Loreface E, Azzalin G, De Paolis V, Fulci V.  
“Bisulphite miRNA-seq reveals widespread CpG and non-CpG 5-(hydroxy)methyl-Cytosine in human microRNAs”  
*RNA Biol*. 2021 Jun 7:1-10. doi: 10.1080/15476286.2021.1927423. Online ahead of print. PMID: 33980133  
Publisher: Taylor & Francis  
**IF 4.652; Citations (SCOPUS): 1**
- 3 - Fulci V, **Carissimi C**, Laudadio I.  
“COVID-19 and Preparing for Future Ecological Crises: Hopes from Metagenomics in Facing Current and Future Viral Pandemic Challenges”  
*OMICS*. 2021 Jun;25(6):336-341. doi: 10.1089/omi.2021.0058. Epub 2021 May 25. PMID: 34037469  
Publisher: Mary Ann Liebert, Inc.  
**IF 3.374; Citations (SCOPUS): 0 (Corresponding author).**
- 4 - Fulci V, Stronati L, Cucchiara S, Laudadio I, **Carissimi C**.  
“Emerging Roles of Gut Virome in Pediatric Diseases”  
*Int J Mol Sci*. 2021 Apr 16;22(8):4127. doi: 10.3390/ijms22084127. PMID: 33923593 Publisher: MDPI journal  
**IF 5.923; Citations (SCOPUS): 1 (last and Corresponding author)**
- 5 - Putignani L, Oliva S, Isoldi S, Del Chierico F, **Carissimi C**, Laudadio I, Cucchiara S, Stronati L.  
“Fecal and mucosal microbiota profiling in pediatric inflammatory bowel diseases”  
*Eur J Gastroenterol Hepatol*. 2021 Jan 18. doi: 10.1097/MEG.0000000000002050. Online ahead of print.  
PMID: 33470709 Publisher:  
**IF 2.566; Citations (researchgate): 2 (Online ahead of print)**
- 6 - **Carissimi C**, Laudadio I, Palone F, Fulci V, Cesi V, Cardona F, Alfonsi C, Cucchiara S, Isoldi S, Stronati L.  
“Functional analysis of gut microbiota and immunoinflammation in children with autism spectrum disorders”.  
*Dig Liver Dis*. 2019 Oct;51(10):1366-1374. doi: 10.1016/j.dld.2019.06.006. Epub 2019 Jul 16. PMID: 31320306 Publisher: Elsevier  
**IF 4.088; Citations (SCOPUS): 13**
- 7 - Oliva S, Laudadio I, Fulci V, Rossetti D, Isoldi S, Stronati L, **Carissimi C**.  
“Serpib2 as a possible marker of steroid dependency in children with eosinophilic esophagitis: a pilot study”.  
*Dig Liver Dis*. 2020 Feb;52(2):158-163. doi: 10.1016/j.dld.2019.08.018. Epub 2019 Oct 23. PMID: 31653522  
Publisher: Elsevier  
**IF 4,088; Citations (SCOPUS):1**
- 8 - Laudadio I, Fulci V, Stronati L, **Carissimi C**.  
“Next Generation Metagenomics: Methodological Challenges and Opportunities”.  
*OMICS*. 2019 Jul;23(7):327-333. doi: 10.1089/omi.2019.0073. Epub 2019 Jun 12. PMID: 31188063;  
Publisher: Mary Ann Liebert, Inc  
**IF 2.529; Citations (SCOPUS): 18 (last and Corresponding author)**
- 9 - Laudadio I, **Carissimi C**, Fulci V.  
“How RNAi machinery enters the world of telomerase”.  
*Cell Cycle*. 2019 May;18(10):1056-1067. doi: 10.1080/15384101.2019.1609834. Epub 2019 May 7. PMID: 31014212; Publisher: Taylor & Francis  
**IF 3,568; Citations (SCOPUS): 2**



10 - Laudadio I, Orso F, Azzalin G, Calabrò C, Berardinelli F, Coluzzi E, Gioiosa S, Taverna D, Sgura A, **Carissimi C**, Fulci V.

"AGO2 promotes telomerase activity and interaction between the telomerase components TERT and TERC" *EMBO Rep.* 2019 Feb;20(2):e45969. doi: 10.15252/embr.201845969. Epub 2018 Dec 27. PMID: 30591524; Publisher: WILEY

**IF 7.497; Citations (SCOPUS): 12 (co-last author).**

11 - Laudadio I, Fulci V, Palone F, Stronati L, Cucchiara S, **Carissimi C**.

"Quantitative assessment of shotgun metagenomics and 16S rDNA amplicon sequencing in the study of human gut microbiome".

*OMICS.* 2018 Apr;22(4):248-254. doi: 10.1089/omi.2018.0013. PMID: 29652573; Publisher: Mary Ann Liebert, Inc

**IF 2,610; Citations (SCOPUS): 46 (last and Corresponding author)**

12 - Laudadio I, Formichetti S, Gioiosa S, Klironomos F, Rajewsky N, Macino G, **Carissimi C** and Fulci V  
"Characterization of Transcription Termination associated-RNAs (TTSa-RNAs): new insights into their biogenesis, tailing and expression in primary tumors".

*Int J Genomics.* 2018 Apr 26;2018:1243858. doi: 10.1155/2018/1243858. eCollection 2018. PMID: 29854718

**IF 2,303; Citations (SCOPUS): 3 (Corresponding author).**

13 - Krell J, Stebbing J, **Carissimi C**, Dabrowska A, de Giorgio A, Frampton AE, Harding V, Fulci V, Macino Gi, Colombo T, Castellano L

"TP53 regulates miRNA association with AGO2 to remodel the miRNA-mRNA interaction network".

*Genome Res.* 2016 Mar;26(3):331-41. doi: 10.1101/gr.191759.115. Epub 2015 Dec 23. PMID: 26701625

**IF 11,92; Citations (SCOPUS): 34**

14 - J Krell, J Stebbing, AE Frampton, **C Carissimi**, V Harding, A De Giorgio, MA, V Fulci, G Macino, T Colombo, L Castellano

"The role of TP53 in miRNA loading onto AGO2 and in remodelling the miRNA-mRNA interaction network"

*Lancet.* 2015 Feb 26;385 Suppl 1:S15. doi: 10.1016/S0140-6736(15)60330-0. PMID: 26312837. ELSEVIER SCIENCE INC

**IF 44.002; Citations (WOS): 4**

15 - Verduci L, Azzalin G, Gioiosa S, **Carissimi C**, Laudadio I, Fulci V, Macino G.

"microRNA-181a enhances cell proliferation in acute lymphoblastic leukemia by targeting EGR1"

*Leuk Res.* 2015 Apr;39(4):479-85. doi: 10.1016/j.leukres.2015.01.010. Epub 2015 Jan 28. PMID: 25740602

**IF 2,606 ; Citations (SCOPUS): 44**

16 - **Carissimi C**, Laudadio I, Cipolletta E, Gioiosa S, Mihailovich M, Bonaldi T, Macino G, Fulci V.  
"ARGONAUTE2 cooperates with SWI/SNF complex to determine nucleosome occupancy at human Transcription Start Sites".

*Nucleic Acids Res.* 2015 Feb 18;43(3):1498-512. doi: 10.1093/nar/gku1387. Epub 2015 Jan 20. PMID: 25605800

**IF 9,202; Citations (SCOPUS): 34 (First and corresponding author)**

17 - **Carissimi C**, Carucci N, Colombo T, Piconese S, Azzalin G, Cipolletta E, Citarella F, Barnaba V, Macino G, Fulci V.

"miR-21 is a negative modulator of T-cell activation".

*Biochimie.* 2014 Dec;107 Pt B:319-26. doi: 10.1016/j.biochi.2014.09.021. Epub 2014 Oct 7. PMID: 25304039. ELSEVIER

**IF 3.017; Citations (SCOPUS): 41**

18 - Montalban E, Mattugini N, Ciarapica R, Provenzano C, Savino M, Scagnoli F, Prosperini G, **Carissimi C**, Fulci V, Matrone C, Calissano P, Nasi S.

"MiR-21 is an Ngf-modulated microRNA that supports Ngf signaling and regulates neuronal degeneration in PC12 cells".

*Neuromolecular Med.* 2014 Jun;16(2):415-30. doi: 10.1007/s12017-014-8292-z. Epub 2014 Feb 4. PMID: 24492999. HUMANA PRESS INC

**IF 3.692; Citations (SCOPUS): 36**

### Other Publications (not selected for evaluation)

19 - Laudadio I, Cesi V, **Carissimi C** (2020) "Metagenomics in Italy and Europe: Three Actionable Challenges /Prospects in 2020" OMICS. 2020 Mar;24(3):122-123- **(last and Corresponding author)**  
**IF 3.374**

20 - Curtale G., Citarella F., **Carissimi C.**, Goldoni M., Carucci N., Fulci V., Franceschini D., Meloni F., Barnaba V., Macino G. "An Emerging Player in the Adaptive Immune Response: MicroRNA-146a is a modulator of IL-2 expression and AICD in T lymphocytes". Blood, 115, 265-73 (2010).  
**IF 10.558 Citations (SCOPUS): 238**

21 - **Carissimi C**, Fulci V, Macino G. "MicroRNAs: Novel regulators of immunità" Autoimmun Rev. (2009).  
**IF 6.368 Citations (SCOPUS): 120**

22 - Gabanella F., Butchbach ME., Saieva L., **Carissimi C.**, Burghes AH., Pellizzoni L. (2007) "Ribonucleoprotein Assembly Defects Correlate with Spinal Muscular Atrophy Severity and Preferentially Affect a Subset of Spliceosomal snRNPs". PLoS ONE 2(9):e921.  
**IF 4.351 Citations (SCOPUS): 238**

23 - **Carissimi C.**, Saieva L., Gabanella F. and Pellizzoni L. (2006) "Gemin8 is required for the architecture and function of the SMN complex". J. Biol. Chem. 281, 37009-37016.  
**IF 5.808 Citations (SCOPUS): 45**

24 - **Carissimi C.**, Saieva L., Baccon J., Chiarella P., Maiolica A., Sawyer A., Rappsilber J., Pellizzoni L. (2006). "Gemin8 Is a Novel Component of the Survival Motor Neuron Complex and Functions in Small Nuclear Ribonucleoprotein Assembly". J. Biol. Chem. 281, 8126-8134.  
**IF 5.808 Citations (SCOPUS): 81**

25 - Gabanella F., **Carissimi C.**, Usiello A., Pellizzoni L. (2005). "The activity of the Spinal Muscular Atrophy protein is regulated during development and cellular differentiation". Hum Mol Genet. 14, 3629-3642.  
**IF 7.764 Citations (SCOPUS): 89**

26 - **Carissimi C.**, Baccon J., Straccia M., Chiarella P., Maiolica A., Sawyer A., Rappsilber J., Pellizzoni L. (2005). "Unrip is a component of SMN complex active in snRNP assembly". FEBS Lett. 579; 2348-2354.  
**IF 3.415 Citations (SCOPUS): 64**

27 - Cardinali B., **Carissimi C.**, Gravina P. and Pierandrei-Amaldi P. (2003). "La protein is associated with TOP mRNAs in actively translating polysomes". J. Biol. Chem. 278; 35145-35151.  
**IF 6.482 Citations (SCOPUS): 58**

28 - **Carissimi Claudia**, Colombo Teresa, Azzalin Gianluca, Cipolletta Emanuela, Laudadio Ilaria, Macino Giuseppe, Fulci Valerio (2016). "Comprehensive RNA dataset of AGO2 associated RNAs in Jurkat cells following miR-21 over-expression". DATA IN BRIEF, vol. 7, p. 604-606,ISSN: 2352-3409, doi:10.1016/j.dib.2016.02.041  
**Citations (SCOPUS): 1 (Corresponding author).**

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