

CV – Antonino Cucinotta



Personal data:

Name and Surname: Antonino Cucinotta  
Date and place of birth: 03/07/1995, Chieri (TO), Italy  
Citizenship: Italian  
Work address: Laboratory of Molecular Oncology (Department of Molecular Medicine),  
Viale Regina Elena 291, 00161 Rome, Italy  
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Education:

*October 2020* – Master’s degree in Neurobiology at Sapienza University, Rome (Italy).  
Score: 110/110 *cum laude*.  
Thesis title: “The RNA-Binding Ubiquitin Ligase MEX3A Affects Glioblastoma Tumorigenesis by Inducing Ubiquitylation and Degradation of RIG-I”.  
Supervisor: Prof.ssa Lucia Di Marcotullio – Dept. of Molecular Medicine, Sapienza University, Rome (Italy)

*July 2018* – Bachelor’s degree in Biological Science at University of Messina (Italy).  
Score: 107/110.  
Thesis title: “RNA and mRNA editing in mammalian cells”.  
Supervisor: Prof.ssa Maria Rosa Felice – Dept. of Biological, chemical and pharmacological sciences, University of Messina (Italy).

Other certifications:

*November 2022:* FELASA Accredited Course F 023/09 for *rats* and *mice* species: Functions A, B, C and D

*July 2018:* English IELTS, Europass Level B2

Research experiences:

*November 2020 – Present:* PhD Student in Molecular Medicine, Dept. of Molecular Medicine, Sapienza University, Rome (Italy). Tutor: Prof.ssa Lucia Di Marcotullio. Field of interest: **Study of ubiquitylation events in brain tumors.**

*6<sup>th</sup>-19<sup>th</sup> November 2023:* Internship at Dept. of Cellular, Computational and Integrative Biology – CIBIO, Trento (Italy). Field of interest: **hiPSCs and Organoids generation.**

*July 2019 – September 2020:* Trainee at Dept. of Molecular Medicine, Sapienza University, Rome (Italy). Field of interest: **Study of ubiquitylation events in brain tumors.**

*January 2018 – June 2018:* Trainee in Laboratory of Clinical and Pathological Analysis - Hospital Agency “Papardo”, Messina (Italy). Tutor: Dr. Giuseppe Falliti. Field of interest: **Blood sample patients’ analysis and microbiology.**

Teaching experiences:

*October 2023:* PLS Neuroscience 2023, Dept. of Biology and Biotechnology “Charles Darwin”, Sapienza University, Rome (Italy)

Awards:

*October 2023:* Employment Contract: “Attività di lavoro autonomo non abituale bando 8/2023”

### Technical skills and competences:

**Molecular Biology techniques:** Plasmidic and genomic DNA extraction, RNA extraction, cloning, DNA mutagenesis, reverse transcription, PCR, quantitative real time PCR, luciferase reporter assays.

**Analysis of proteins:** Protein extraction and western blot analysis, protein post-translational modifications analysis; *in vivo* immunoprecipitation.

**Cellular biology:** cell culture techniques (animal cells), DNA and siRNA transfection/transduction, cell treatments, BrdU assay, production and use of lentiviral vectors, hiPSCs culture techniques and organoids generation.

**Histology and histopathology techniques:** immunofluorescence, histochemical and immuno-histochemical techniques.

### IT Skills:

Office suite; Adobe Photoshop; Image J; Image Lab; GraphPad.

Use of various DataBases and tools: NCBI, PDB, BLAST, GenScript, OncoMX, Uniprot, Biorender, STRING

### Selected Publications:

- Ludovica Lospinoso Severini, Elena Loricchio, Shirin Navacci, Irene Basili, Romina Alfonsi, Flavia Bernardi, Marta Moretti, Marilisa Conenna, Antonino Cucinotta, Sonia Coni, Marialaura Petroni, Enrico De Smaele, Giuseppe Giannini, Marella Maroder, Gianluca Canettieri, Angela Mastronuzzi, Daniele Guardavaccaro, Olivier Ayrault, Paola Infante, Francesca Bufalieri, Lucia Di Marcotullio, “*SALL4 is a CRL3REN/KCTD11 substrate that drives Sonic Hedgehog-dependent medulloblastoma*”, 2023 Dec 7, Cell Death and Differentiation. doi: 10.1038/s41418-023-01246-6

### Conferences:

#### • **Poster Presentation**

- MOLECULAR PATHOLOGY: FROM BENCH TO BEDSIDE - SIPMeT Young Scientist Meeting 2021 - Perugia, 10-11 Dicembre 2021

**A. Cucinotta** [...], L. Di Marcotullio

“The RNA-Binding Ubiquitin Ligase MEX3A Affects Glioblastoma Tumorigenesis by Inducing Ubiquitylation and Degradation of RIG-I”

- "PRECISION MEDICINE IN THE ERA OF INTEGRATED OMICS" – SIRTEPS – Favignana, 18-19 Maggio 2023

**A. Cucinotta** [...], L. Di Marcotullio

“Blocking the Hedgehog-dependent tumor growth by a new selective Endoplasmic Reticulum Aminopeptidase 1 inhibitor”

- GENERAL PATHOLOGY: THE TRUNK OF THE TREE OF MEDICINE - SIPMeT Young Scientist Meeting 2023 – Parma, 22-23 Settembre 2023

**A. Cucinotta** [...], L. Di Marcotullio

“Blocking the Hedgehog-dependent tumor growth by a new selective Endoplasmic Reticulum Aminopeptidase 1 inhibitor”

#### • **Oral Presentation**

- ABCD National Ph.D. Meeting 2022 – Salerno 24/26 marzo 2022 – Flash Presentation  
**A. Cucinotta** [...], L. Di Marcotullio  
“Blocking the Hedgehog-dependent tumor growth by a new selective Endoplasmic Reticulum Aminopeptidase 1 inhibitor”
- FISV Congress "3R: Research, Resilience, Reprise" – Portici 14/16 settembre 2022  
**A. Cucinotta** [...], L. Di Marcotullio  
“Blocking the Hedgehog-dependent tumor growth by a new selective Endoplasmic Reticulum Aminopeptidase 1 inhibitor”
- BraYn 5th Brainstorming Research Assembly for Young Neuroscientists – 28/30 Settembre 2022  
**A. Cucinotta** [...], L. Di Marcotullio  
“Blocking the Hedgehog-dependent tumor growth by a new selective Endoplasmic Reticulum Aminopeptidase 1 inhibitor”
- "PRECISION MEDICINE IN THE ERA OF INTEGRATED OMICS" – SIRTEPS – Favignana, 18-19 Maggio 2023  
**A. Cucinotta** [...], L. Di Marcotullio  
“MEX3A/RIG-I axis as a therapeutic target for new options in the treatment of glioblastoma”