

Procedura selettiva di chiamata per il reclutamento di 1 posto di RTT senza riserva di partecipazione ai sensi dell'articolo 24, comma 3, della legge 30 dicembre 2010, n. 240, così come modificato dall'art. 14, comma 6-decies, del decreto-legge 30 aprile 2022, n. 36, convertito, con modificazioni, dalla legge 29 giugno 2022 n. 79, presso il Dipartimento di Medicina Molecolare - codice concorso: 2024RTTA007 - Facoltà di Farmacia e Medicina Gruppo Scientifico disciplinare: 06/MEDS-26; Settore Scientifico Disciplinare MEDS-26/A.

D.R. n. 1320/2024 dell'11.06.2024

ALLEGATO B

Curriculum Vitae

NOME e COGNOME **Sonia Coni**

Place **Rome (Italy)**

Date **July 24th, 2024**

Part I – General Information

Full Name	Sonia Coni
E-mail	
Spoken Languages	Italian (mother tongue); English; French

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
PhD	2010	SAPIENZA-University of Rome	phD in Endocrinology and Molecular Medicine
Licensure	2007	Università degli studi della Tuscia - Viterbo	Licensure in Biology
University graduation	2006	SAPIENZA-University of Rome	Master's Degree in Genomic Biotechnology (Graduation: 110/110 " <i>summa cum laude</i> ")
University graduation	2004	SAPIENZA-University of Rome	Bachelor's Degree in Biotechnology (Graduation: 110/110 " <i>summa cum laude</i> ")

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
07-10-20	Today	SAPIENZA - University of Rome - Department of Molecular Medicine	Research contract (RtdA) SSDMED/46 now MEDS-26/A
01-06-20	31-07-20	Istituto Pasteur - Cenci Bolognetti Foundation	Research contract
01-06-19	31-05-20	SAPIENZA - University of Rome - department of Molecular Medicine	Research fellow (Assegnista di ricerca - Law 240/2010) SSD MED/04 now MEDS-02/A
01-12-18	31-05-19	Istituto Pasteur - Cenci Bolognetti Foundation	Research contract
01-04-14	23-11-18	SAPIENZA - University of Rome - department of Molecular Medicine	Research fellow (Assegnista di ricerca - Law 240/2010) SSD MED/04 now MEDS-02/A
01-07-13	31-07-13	CNRS (Centre Nationale de la Recherche Scientifique) - Institute de Biologie Valrose (iBV) – Université «Sophia Antipolis» Nice, France (lab of Dr Pascal Therond)	Researcher at CNRS - Université «Sophia Antipolis»
01-07-11	30-06-13	CNRS - Centre Nationale de la Recherche Scientifique - Institute de Biologie Valrose (iBV), Université «Sophia Antipolis» Nice, France (lab of Dr Pascal Therond)	Post-doctoral fellow at the CNRS - Université «Sophia Antipolis»
01-02-10	30-06-11	SAPIENZA - University of Rome - Department of Experimental Medicine	Research fellow (Assegnista di ricerca - Law 449/97) SSD MED/04 now MEDS-02/A

IIIB – Qualifications and Other Appointments

Start	End	Institution	Position
13-01-20	13-01-29	National Scientific Qualification (ASN)	Abilitazione scientifica nazionale SC 06/N1 – Scienza delle professioni sanitarie e delle tecnologie mediche applicate - II fascia – SSD MED/46 (Now MEDS-26/A)
21-05-21	21-05-30	National Scientific Qualification (ASN)	Abilitazione scientifica nazionale SC 06/A2 - Patologia Generale e

			Patologia Clinica - II fascia – SSD MED/04 (Now MEDS-02/A)
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Part IV – Teaching experience

Year	Institution	Lecture/Course
A.A. 2023/ 2024	SAPIENZA- University of Rome	Interdisciplinary course 1 - “Technical Sciences of Laboratory Medicine” (1 CFU) for the Master Course “Healthcare professions sciences and diagnostic techniques”
A.A. 2023/ 2024	SAPIENZA- University of Rome	“Elective teaching activity” (ADE) for the master's degree course in “Medicine and Surgery” 3rd year channel F (La Sapienza University of Rome), 3rd year (0.2 CFU)
A.A. 2023/ 2024	SAPIENZA- University of Rome	Advanced technologies in laboratory diagnostics - “Technical Sciences of Laboratory Medicine” (2 CFU) for the First Level Degree “Biomedical Laboratory Technologies” – course A
A.A. 2023/ 2024	SAPIENZA- University of Rome	Teaching activity for elective internship (“Medicine and Surgery” 3rd year channel F – 25 hours)
A.A. 2023/ 2024	SAPIENZA- University of Rome	Teaching activity in the PhD program of “Molecular Medicine”
AA 2022/ 2023	SAPIENZA- University of Rome	Teaching activity for elective internship (“Medical Molecular and Cellular Biothechnologies ” 2nd year– 7 hours)
AA 2022/ 2023	SAPIENZA- University of Rome	“Elective teaching activity” (ADE) for the Master's Degree course in “Medicine and Surgery” 3rd year channel F (La Sapienza University of Rome), 3rd year (0.2 CFU)
A.A. 2022/ 2023	SAPIENZA- University of Rome	Advanced technologies in laboratory diagnostics - “Technical Sciences of Laboratory Medicine” (2 CFU) for the First Level Degree “Biomedical Laboratory Technologies” – course A

A.A. 2021/ 2022	SAPIENZA- University of Rome	“Technical Sciences of Laboratory Medicine” (1 CFU) for the Master Course “Healthcare professions sciences and diagnostic techniques”
A.A. 2021/ 2022	SAPIENZA- University of Rome	Advanced technologies in laboratory diagnostics - “Technical Sciences of Laboratory Medicine” (1 CFU) for the First Level Degree “Biomedical Laboratory Technologies” – course A
AA 2021/ 2022	SAPIENZA- University of Rome	“Elective teaching activity” (ADE) for the master's degree course in “Medicine and Surgery” 3rd year channel F (La Sapienza University of Rome), 3rd year (0.2 CFU)

Part V - Participation in International and National Meetings

Oral Presentations

2022	INVITED SPEAKER at the “Sixth International Conference on Polyamines: Biochemical, Physiological and Clinical Perspectives”, Tivoli, Rome (Italy) for the talk titled: “Locomotor function in <i>Drosophila Melanogaster</i> is controlled by a CNBP/ODC/polyamines translational axis”
2021	Oral presentation at the SIPMeT Young Scientist Meeting “Molecular pathology: from bench to bedside”, Perugia (Italy) for the talk titled: “CNBP is required for locomotor activity in <i>Drosophila melanogaster</i> through the translational control of ODC/polyamine axis”
2021	INVITED SPEAKER at the “Gordon Research Conference (GRC) on Polyamines 2021” in Waterville, New Hampshire, USA to give a talk within the session “Translational Regulation by Polyamines”. The event was cancelled because of COVID emergency
2017	INVITED SPEAKER at the “22 nd World Congress on Advances in Oncology and 20 th International Symposium on Molecular Medicine” for the talk “Targeting Gli Acetylation in <i>Shh-Medulloblastoma</i> : a successful preclinical approach”, Atene, Grecia
2017	Chairman at the “22 nd World Congress on Advances in Oncology and 20 th International Symposium on Molecular Medicine”

Organization

2022	Member of the Local Committee at the "Sixth International Conference on Polyamines: Biochemical, Physiological and Clinical Perspectives", Tivoli, Rome (Italy)
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Poster Presentations

2022	SIPMeT conference: "Pathophysiology of Disease", Ancona, Italy. Presentation title: <i>"Targeting polyamines/eIF5A/MYC translation strongly reduces colorectal cancer growth in preclinical mouse models"</i>
2016	European Association for Cancer Research (EACR) Manchester, UK. Presentation Title: <i>"Selective inhibition of HDAC1 and HDAC2 counteracts Medulloblastoma growth in mouse models through Gli1 acetylation"</i>
2010	52nd Annual Meeting of the Italian Cancer Society "Lost in translation: bridging the gap between cancer research and effective therapies, Rome. Presentation title: <i>"Epigenetic control of medulloblastoma cell growth: Identification of Gli Acetylation as a Key Transcriptional checkpoint of Hedgehog Signaling"</i>
2010	The EMBO Meeting "Advanced in the life sciences" Barcelona Spain. Presentation title: <i>"Epigenetic control of neural cell growth: Identification of Gli1 Acetylation as a Key Transcriptional checkpoint of Hedgehog Signaling"</i>

Part VI - Society memberships, Awards and Honors

Year	Title
2021	Ordinary Membership to Italian Society of Pathology and Translational medicine (SIPMeT)
2022	SIPMeT Award as a best POSTER, Ancona 2022. Poster Title: <i>"Targeting polyamines/eIF5A/MYC translation strongly reduces colorectal cancer growth in preclinical mouse models"</i>
2011-2013	Awarded by Institute Pasteur - Fondazione Cenci Bolognetti for a two-years research fellowship for research abroad
2023	Associate Editor for the journal Frontiers in Molecular Medicine (special Issue "Epigenetics and stem cell therapy in cancer and diseases")

Part VII – Courses and Certifications

2018	Technical course	European Center for Brain Research (C.E.R.C), Santa Lucia Foundation, Rome, Italy	FELASA accredited course - Cat. B (N. F023/09, #06/2018). Functions: A, C, D. covered the species Mouse and Rat. Additional task specific modules: 10, 20, 21, 22.
2019	Technical course	ISS, Istituto Superiore di Sanità	"Disease models for preclinical

			experimentation in Oncology” E.C.M.
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Part VIII - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2022	PI – Role of intestinal microbiota in regulating the epigenetic landscape in colorectal cancer stem cells (CR-CSC)	PRIN under 40	
2017	PI - Role of phosphatases in the Hedgehog signaling pathway: calcineurin as a possible positive modulator in Shh-mediated transcriptional activation	Starting Grant YOUNG – SAPIENZA (Avvio alla Ricerca)	
2015	PI - The CNBP / AMPK axis as a potential therapeutic target in type 2 myotonic dystrophy	Starting Grant YOUNG – SAPIENZA (Avvio alla Ricerca)	
2014	PI - Description of a novel mechanism for the translation regulation of the c-myc oncogene and its pro-tumorigenic role in colorectal cancer (CRC)	Starting Grant YOUNG – SAPIENZA (Avvio alla Ricerca)	
2023	I - Understanding the role of CNBP-eIF5A-polyamine metabolism in DM2 pathogenesis	Telethon #GMR22T1027;	
2020	I - Targeting energy and redox alterations in colorectal cancer	AIRC #25833;	
2018	I - Analysis of the DM2 pathogenic mechanisms using Drosophila as model system	AFM-Telethon #21025	
2018	I - Targeting MYC translation in colorectal cancer	Institute Pasteur, Cenci Boognetti Foundation (prot. n. 57).	
2016	I – The role of Notch signaling in leukemia microenvironment: identification and characterization of novel tumor niche(s) in T-cell Acute Lymphoblastic Leukemia	SAPIENZA Scientific Research - Ricerca scientifica di Ateneo (Ateneo Grande)	
2015	I - Pro – tumorigenic role of CNBP-c-MYC Axis in colorectal cancer tumorigenesis	AIRC #17575	

2008	I - Research of new high - penetrance mutations responsible for hereditary forms of breast and ovarian tumors and biomolecular characterization of newly identified pathogenetic variants of BRCA1	PRIN	
2007	I - Hedgehog signaling and brain tumorigenesis: role of novel tumor suppressor pathways	AIRC	

Part IX – Research Activities

Keywords	Brief Description
Epigenetics and cancer	Epigenetic alterations in the pathogenesis of brain tumors. Studies about the transcriptional control of cell growth <i>in vitro</i> (neuronal cells) and <i>in vivo</i> (mouse models of spontaneous tumorigenesis).
Medulloblastoma	Characterization and investigation of the molecular mechanisms involved the pathogenesis of Medulloblastoma (Mb) using preclinical models and <i>in vitro</i> approaches.
Hedgehog pathway	Transcriptional and translational analysis of the Hedgehog signaling pathway aim to detect novel druggable targets for cancer therapy.
Polyamines	Role of polyamine metabolism in cancer (medulloblastoma) and in muscular diseases, using preclinical models of tumorigenesis and <i>Drosophila Melanogaster</i> as animal models.
Colorectal cancer	Targeting of polyamine metabolism in the pathogenesis of Colorectal Cancer (CRC) as an effective therapeutic strategy, using <i>in vivo</i> approaches
DM2 (Type 2 Myotonic Distrophy)	Characterization of the novel CNBP-ODC-polyamine axis in muscle function and diseases.

- Main results achieved:

1. Epigenetic alterations in the pathogenesis of brain tumors. **i)** Identification of the interplay between acetylation and ubiquitination in the regulation of Hedgehog signaling during cerebellum development and Medulloblastoma growth through *in vitro* studies and mouse models **ii)** Identification of Gli1 and Gli2 acetylation as inhibitor checkpoint of Hedgehog dependent cell growth, *in vitro* and in preclinical mouse models of spontaneous medulloblastoma **iii)** contribution to the studies aim at the identification of SALL4 as a component of the GLI/HDAC/REN-Cul3 complex regulating hedgehog signaling-dependent tumor growth
2. Characterization and investigation of the molecular mechanisms involved the pathogenesis of Hedgehog-dependent Medulloblastoma using preclinical models and *in vitro* approaches. **i)** identification of the selective inhibition of class I HDAC as an efficient anticancer strategy in preclinical

model of spontaneous medulloblastoma **ii)** identification of Gli1 phosphorylation by MEKK1 as inhibitory signal in the hedgehog pathway

3. Transcriptional and translational analysis of the Hedgehog signaling pathway aim to detect novel druggable targets for cancer therapy. **i)** Contribution to the identification of a novel non canonical mechanism in the Hedgehog pathway, mediated by AMPK which controls medulloblastoma tumor growth though in vitro and in vitro approaches

4. Role of polyamine metabolism in brain cancer **i)** characterization of the novel axis: CNBP/ODC/polyamines, involved in the regulation of medulloblastoma growth

5. Targeting polyamine metabolism in colorectal cancer (CRC) **i)** identification and characterization of a novel translational axis: polyamine/eIF5A-hypusinated/myc involved in the control of colorectal cancer growth **ii)** identification of a new efficient strategy with a combined inhibition of polyamine metabolism (using DFMO) and eIF5A hypusination (using GC7) as a new pharmacological approach to block colorectal cancer cell growth in vivo and in vitro

6. Characterization of a novel CNBP-ODC-polyamine axis in muscle function and diseases

i) identification of the molecular axis CNBP/ODC/polyamines in the regulation of muscle function and locomotor phenotype in *Drosophila Melanogaster* animal model

International and National Collaborations:

Internationals:

-CNRS UMR 7277, Inserm 1091, Institut de Biologie Valrose (iBV), Centre de Biochimie, Université de Nice-Sophia Antipolis, Nice, France

-Department of Cellular Biology, The Scripps Research Institute, USA;

-Cancer Research Center of Lyon (CRCL), Lyon, France;

-Institut Curie, PSL Research University, France;

-Université Paris Sud, Université Paris-Saclay, France; University Paris Descartes, France;

-Shanghai Geriatric Institute of Chinese Medicine, Shanghai University of Traditional Chinese Medicine, 365 South Xiangyang Road, 200031Shanghai, China.

-Molecular Pharmacology Branch, Developmental Therapeutics Program, Division of Cancer Treatment and Diagnosis, Frederick National Laboratory for Cancer Research, National Cancer Institute, National Institutes of Health, Frederick, Maryland21702, United States

-Department of Molecular Biology, Cancer Cluster Salzburg, Paris-Lodron University of Salzburg, Salzburg, 5020, Austria.

-Department of Cell Biology, Nencki Institute of Experimental Biology, 02-093, Warszawa, Poland.

-Department of Life Sciences Imperial College London South Kensington campus, London, United Kingdom.

-Division of Pediatric Neurooncology, German Cancer Research Center (DKFZ) and German Cancer Consortium (DKTK), 69120, Heidelberg, Germany.

-Department of Pediatric Hematology and Oncology, Heidelberg University Hospital, 69120, Heidelberg, Germany.

-Hubrecht Institute-KNAW and University Medical Center Utrecht, 3584CT, Utrecht, The Netherlands.

Nationals:

-Department of Biology and Biotechnologies "Charles Darwin", Sapienza University of Rome;

-Department of Biochemical Sciences "A. Rossi Fanelli", Sapienza University of Rome

-Department of Sense Organs, Sapienza University of Rome, Policlinico Umberto I

- Department of Biotechnology, University of Verona, 37134, Verona
- Department of Drug chemistry and Technologies, SAPIENZA University of Rome
- Cellular Biology and Neurobiology Institute, National Research Council, Monterotondo CNR,Rome, Italy.
- Division of Metabolism and Research Unit of metabolic Biochemistry, Children's Hospital and Research Institute Bambino Gesù IRCCS
IRCCS Santa Lucia Foundation, Neuroimmunology Unit
- Department of Anatomy, Histology, Forensic Medicine and Orthopaedics, Unit of Histology and Medical Embryology, Sapienza University of Rome
- Department of Medico-Surgical Sciences and Biotechnologies, Sapienza University of Rome
- Department of Radiological, Oncological, and Pathological Science, Sapienza University of Rome
- Department of Computer Engineering, Automation and Management, University La Sapienza, Rome
- Department of Hematology, Oncology and Molecular Medicine, Istituto Superiore di Sanità, Rome, Italy
- Department of Pediatric Haematology and Oncology, and Cell and Gene Therapy, Bambino Gesù Children's Hospital, IRCCS
- Surgical and Oncological Sciences, University of Palermo an Central Laboratory of Advanced Diagnosis and Biomedical Research (CLADIBIOR), University of Palermo, Palermo
- Department of Experimental Medicine, Sapienza University
- Genetics and Rare Diseases Research Division, Ospedale Pediatrico Bambino Gesù,Rome
- Institute of General Pathology, Catholic University of the Sacred Heart, Rome
- IRCCS Neuromed, Pozzilli
- Department of Public Health, University Federico II, Naples
- Department of Physics, University La Sapienza
- National Institute of Gastroenterology-Research Hospital, IRCCS "S. de Bellis", Bari Department of Radiological Oncological and Pathological Sciences, University La Sapienza, Rome
- Department of Surgery Pietro Valdoni, Faculty of Medicine and Dentistry, Sapienza University of Rome
- Institute for System Analysis and Computer Science "Antonio Ruberti", National Research Council, Rome
- Laboratory Affiliated with the Institute Pasteur Italy - Cenci Bolognetti Foundation, Department of Drug Chemistry and Technologies, Sapienza University of Rome
- Department of Computer Engineering, Automation and Management, University La Sapienza, Rome

Part X - Summary of Scientific Achievements

Total Publications indexed on Pubmed (34 publications)

Product type	Number	Data Base	Start	End
Papers [international]	33	NCBI-Pubmed; Scopus; ISI Web of Science	2008	2024
Book Chapter [scientific-international]	1	NCBI-Pubmed; Scopus; ISI Web of Science	2015	2015

Total Impact factor	231.18
Average Impact Factor per Product	7
Total Citations	1438
Average Citations per Product	43.57
Hirsch (H) index	19
Normalized H index*	1.1875
Number of First/last/corresponding author publications	10

*H index divided by the academic seniority.

Publications of the last 10 years indexed on Pubmed (23 publications)

Papers [international]	22	NCBI-Pubmed; Scopus; ISI Web of Science	2014	2024
Book Chapter [scientific-international]	1	NCBI-Pubmed; Scopus; ISI Web of Science	2015	2015

Total Impact factor	153.06
Average Impact Factor per Product	6.96
Total Citations	594
Average Citations per Product	27
Hirsch (H) index	14
Normalized H index (Hindex/10)	1.4
Number of First/last/corresponding author publications	8

Part XI– Selected Publications

Notes:

| Journal Impact Factors **of the year of publication are indicated**.

|| **ISI Web of Science** was used to calculate citations.

*Equal contribution

& Corresponding author

1. **Coni S*&**, Bordone R*, Ivy DM, Yurtsever ZN, Di Magno L, D'Amico R, Cesaro B, Fatica A, Belardinilli F, Bufalieri F, Maroder M, De Smaele E, Di Marcotullio L, Giannini G, Agostinelli E,

- Canettieri G*. &co-corresponding “Combined inhibition of polyamine metabolism and eIF5A hypusination suppresses colorectal cancer growth through a converging effect on MYC translation.” **Cancer Lett.** 2023 Apr 10; 559:216120. **IF: 9.1 CIT: 9; Publisher: ELSEVIER IRELAND LTD**
2. Sergio I, Varricchio C, Patel SK, Del Gaizo M, Russo E, Orlando A, Peruzzi G, Ferrandino F, Tsaouli G, **Coni S**, Peluso D, Besharat ZM, Campolo F, Venneri MA, Del Bufalo D, Lai S, Indraccolo S, Minuzzo S, La Starza R, Bernardini G, Screpanti I, Campese AF, Felli MP.
“Notch3-regulated microRNAs impair CXCR4-dependent maturation of thymocytes allowing maintenance and progression of T-ALL” **Oncogene.** 2024 Jun 21 **IF: 6.9 CIT: 0; Publisher: Elsevier**
 3. Lospinoso Severini L, Loricchio E, Navacci S, Basili I, Alfonsi R, Bernardi F, Moretti M, Conenna M, Cucinotta A, **Coni S**, Petroni M, De Smaele E, Giannini G, Maroder M, Canettieri G, Mastronuzzi A, Guardavaccaro D, Ayrault O, Infante P, Bufalieri F, Di Marcotullio L.” SALL4 is a CRL3REN/KCTD11 substrate that drives Sonic Hedgehog-dependent medulloblastoma” **Cell Death Differ.** 2024 Feb;31(2):170-187. **IF: 13.7 CIT:2; Publisher: SPRINGER NATURE**
PRESS/MEDIA RELEASE: <https://www.uniroma1.it/en/notizia/new-target-help-fight-medulloblastoma>
 4. **Coni S***, Falconio F*, Marzullo M*, Munafò M. Zuliani B, Mosti F, Fatica A, Ianniello Z, Bordone R, Macone A, Agostinelli E, Perna A, Matkovic T, Sigrist S, Silvestri G, Canettieri G, Ciapponi L.
“Translational control of polyamine metabolism by CNBP is required for Drosophila locomotor function” **E-Life, Elife.** 2021 Sep 14. **IF: 8.71; CIT: 7; Publisher: eLife Sciences Publications Ltd**
PRESS/MEDIA RELEASE: <https://www.uniroma1.it/it/notizia/un-integratore-la-distrofia-miotonica>
 5. **Coni S***, Serrao SM*, Yurtsever ZN, Di Magno L, Bordone R, Bertani C, Licursi V, Iannello Z, Infante P, Moretti M, Petroni M, Guerrieri F, Fatica A, Macone A, De Smaele E, Di Marcotullio L, Giannini G, Maroder M, Agostinelli E, Canettieri G. “Blockade of EIF5A hypusination limits Colorectal Cancer growth by inhibiting MYC elongation” **Cell Death and Disease** 2020 Dec 10;11(12):1045. **IF: 8.47; CIT: 40; Publisher: Springer Nature**
 6. Di Magno L, Manni S, Di Pastena F, **Coni S**, Macone A, Cairoli S, Sambucci M, Infante P, Moretti M, Petroni M, Nicoletti C, Capalbo C, De Smaele E, Di Marcotullio L, Giannini G, Battistini L, Goffredo BM, Iorio E, Agostinelli E, Maroder M and Canettieri G. “Phenformin Inhibits Hedgehog-Dependent Tumor Growth Through a Complex I-Independent Redox/Corepressor Module” **Cell reports** Cell Rep. 2020 Feb 11;30(6) **IF: 9,4; CIT: 36; Publisher: Cell press**
PRESS/MEDIA RELEASE:
<https://www.repubblica.it/salute/2020/02/12/news/fenformina-il-farmaco-che-agisce-com-e-una-batteria-al-contrario-per-frenare-il-tumore-al-cervello-in-eta-pediatrica-266892891/>
<https://www.ilgiornale.it/news/salute/medulloblastoma-fenformina-pu-contrastarlo-1827479.html>
<https://tg24.sky.it/salute-e-benessere/2020/02/13/cancro-cervello-bambini-fenformina>
 7. **Coni S**, Di Magno L, Serrao SM, Kanamori Y, Agostinelli E, Canettieri G. “Polyamine metabolism as a therapeutic target in Hedgehog-driven Basal Cell Carcinoma and Medulloblastoma” **Cells.** 2019 Feb 11;8(2). **IF: 4.36; CIT: 16; Publisher: MDPI**
 8. Antonucci L, Di Magno L, D’Amico D, Manni S, Serrao SM, Di Pastena F, Bordone R, Yurtsever Z, Caimano M, Petroni M, Giorgi A, Schininà ME, Yates JR III, Di Marcotullio L, De Smaele E, Checquolo S, Capalbo C, Agostinelli E, Maroder M, **Coni S*** and Canettieri G* & [CO-LAST and

- Co- CORRESPONDING] *“Mitogen-activated kinase kinase kinase 1 inhibits hedgehog signaling and medulloblastoma growth through GLI1 phosphorylation” International Journal of Oncology* 2019 Feb;54(2):505-514. **IF: 3.9; CIT: 25; Publisher: Spandidos ed. & Pub**
9. Infante P, Faedda R, Bernardi F, Bufalieri F, Lospinoso Severini L, Alfonsi R, Mazzà D, Siler M, **Coni S**, Po A, Petroni M, Ferretti E, Mori M, De Smaele E, Canettieri G, Capalbo C, Maroder M, Screpanti I, Kool M, Pfister SM, Guardavaccaro D, Gulino A, Di Marcotullio L. *“Itch/β-arrestin2-dependent non-proteolytic ubiquitylation of SuFu controls Hedgehog signalling and medulloblastoma tumorigenesis” Nat Commun.* 2018 Mar 7;9(1):976. **IF: 11,88; CIT: 47; Publisher: Nature Portfolio**
PRESS/MEDIA RELEASE: <https://www.uniroma1.it/en/notizia/red-light-pediatric-brain-tumor>
10. **Coni S**, Mancuso AB, Di Magno L, Sdruscia G, Manni S, Serrao SM, Rotili D, Spiombi E, Bufalieri F, Petroni M, Kusio-Kobialka M, De Smaele E, Ferretti E, Capalbo C, Mai A, Niewiadomski P, Screpanti I, Di Marcotullio L, and Canettieri G. *“Selective targeting of HDAC1/2 elicits anticancer effects through Gli1 acetylation in preclinical models of SHH Medulloblastoma” Sci Rep* 2017 Mar 9;7:44079. **IF:4.12; CIT: 54; Publisher: Nature Portfolio**
11. D’Amico D, Antonucci L, Di Magno L , **Coni S**, Sdruscia G. , Macone A, Miele E, Infante P, Di Marcotullio L, De Smaele E, Ferretti E, Ciapponi L, Giangaspero F, Yates JR, Agostinelli E, Cardinali B, Screpanti I, Gulino A and Canettieri G. *“Non-canonical Hedgehog/AMPK-mediated control of polyamine metabolism supports neuronal and medulloblastoma cell growth” Dev Cell.* 2015 Oct 12 ; 35(1):21-35 **IF:9.33; CIT: 56; Publisher:Cell Press**
PRESS/MEDIA RELEASE: https://www.sanita24.ilsole24ore.com/art/medicina-e-ricerca/2015-10-19/medulloblastomasperanze-una-terapia-personalizzata-bersaglio-molecolare-095834.php?uid=ACuwwkIB&refresh_ce=1
12. Di Magno L*, **Coni S***, Di Marcotullio L, Canettieri G. *“Digging a hole under Hedgehog: downstream inhibition as an emerging anticancer strategy” Biochim Biophys Acta.* 2015 Aug;1856(1):62-72. **IF:7.84; CIT: 51; Publisher: Elsevier**

Other Relevant Publications:

1. Canettieri G*, Di Marcotullio L*, Greco A, **Coni S**, Antonucci L, Infante P, Pietrosanti L, De Smaele E, Ferretti E, Miele E, Pelloni M, De Simone G, Pedone EM, Gallinari P, Giorgi A, Steinkühler C, Vitagliano L, Pedone C, Schininà ME, Screpanti I, Gulino A *“Hedgehog signaling is regulated by Histone Deacetylase and Cullin3/RENKCTD11 Ubiquitin Ligase interplay” Nat Cell Biol.* 2010 Feb;12(2):132-42. **IF:19.4; CIT: 281; Publisher: Nature Portfolio**
PRESS/MEDIA RELEASE: https://www.corriere.it/salute/sportello_cancro/10_gennaio_19/scoperto-meccanismo-medulloblastoma_e6c08aa0-04ed-11df-aece-00144f02aabe.shtml
2. Canettieri G, **Coni S**, Della Guardia M, Nocerino V, Antonucci L, Di Magno L, Sreaton R, Screpanti I, Giannini G, Gulino A. *“The coactivator CRTC1 promotes cell proliferation and transformation via AP-1”.* *Proc Natl Acad Sci U S A.* 2009 Feb 3;106(5):1445-50. **IF:9.43; CIT: 52; Publisher: National Acad Sciences**
3. Po A, Ferretti E, Miele E, De Smaele E, Paganelli A, Canettieri G, **Coni S**, Di Marcotullio L, Biffoni M, Massimi L, Di Rocco C, Screpanti I, Gulino A. *“Hedgehog controls Neural Stem Cells via p53-*

- independent regulation of Nanog*” **EMBO J.** 2010 Aug 4;29(15):2646-58. **IF:10.12; CIT: 184; Publisher: WILEY**
4. Po A, Silvano M, Miele E, Capalbo C, Eramo A, Salvati V, Todaro M, Besharat M G Catanzaro G Cucchi D, **Coni S**, Di Marcotullio L, Canettieri G, Vacca A, Stassi G, De Smaele E, Tartaglia E, Screpanti I, De Maria R, Ferretti E. “*Non canonical GLI1 signaling promotes stemness features and in vivo growth in lung adenocarcinoma*” **Oncogene.** 2017 Aug 10;36(32):4641-4652 **IF:6.85 CIT:79 SPRINGER NATURE**
 5. **Coni S***, Antonucci L*, D’Amico D, Di Magno L, Infante P, De Smaele E, Giannini G, Di Marcotullio L, Screpanti I, Gulino A, Canettieri G. “*Gli2 acetylation at K757 regulates Hedgehog-dependent transcriptional output by preventing its promoter occupancy*” **PlosOne**, 2013 Jun; 6;8(6) **IF:3.23; CIT: 59; Publisher: Public Library Science**
 6. **Coni S**, Di Magno L, Canettieri G. “*Determination of the acetylation of the Gli transcription factors*” **Methods in Molecular Biology - Chapter Book.** 1322:147-56; 2015; **CIT: 3; Publisher: Humana Press**
 7. **Coni S**, Infante P, Gulino A. “*Control of stem cells and cancer stem cells by Hedgehog signaling: pharmacologic clues from pathway dissection*”.**Biochemical Pharmacology**, 2013 Mar 1;85(5):623-8 **IF:4.65; CIT:43; Publisher: PERGAMON ELSEVIER SCIENCE LTD**
 8. Marzullo M, **Coni S**, De Simone A, Canettieri G, Ciapponi L. “*Modeling Myotonic Dystrophy Type 2 Using Drosophila melanogaster.*” **Int J Mol Sci.** 2023 Sep 16;24(18):14182. **IF:5.6 CIT:0 Publisher: MDPI**
 9. Di Magno L, Di Pastena F, Bordone R, **Coni S**, Canettieri G. “*The Mechanism of Action of Biguanides: New Answers to a Complex Question.*” **Cancers (Basel).** 2022 Jun 30;14(13):3220. **IF: 5.2 CIT:17 Publisher: MDPI**
 10. Petroni M, Fabretti F, Di Giulio S, Nicolis di Robilant V, La Monica V, Moretti M, Belardinilli F, Bufalieri F, Coppa A, Paci P, Corsi A, De Smaele E, **Coni S**, Canettieri G, Di Marcotullio L, Wang ZQ, Giannini G. “*A gene dosage-dependent effect unveils NBS1 as both a haploinsufficient tumour suppressor and an essential gene for SHH-medulloblastoma*” **Neuropathol Appl Neurobiol.** 2022 Oct;48(6): e12837. **IF: 5 CIT:3 Publisher: Wiley**
 11. Puxeddu M, Wu J, Bai R, D’Ambrosio M, Nalli M, Coluccia A, Manetto S, Ciogli A, Masci D, Urbani A, Fionda C, **Coni S**, Bordone R, Canettieri G, Bigogno C, Dondio G, Hamel E, Liu T, Silvestri R, La Regina G. “*Induction of Ferroptosis in Glioblastoma and Ovarian Cancers by a New Pyrrole Tubulin Assembly Inhibitor.*” **J Med Chem.** 2022 Dec 8;65(23):15805-15818 **IF: 7.3 CIT 13; Publisher: AMER CHEMICAL SOC**
 12. Belardinilli F, Capalbo C, Malapelle U, Pisapia P, Raimondo D, Milanetti E, Yasaman M, Liccardi C, Paci P, Sibilio P, Pepe F, Bonfiglio C, Mezi S, Magri V, Coppa A, Nicolussi A, Gradilone A, Petroni M, Di Giulio S, Fabretti F, Infante P, **Coni S**, Canettieri G, Troncone G, Giannini G. “*Clinical Multigene Panel Sequencing Identifies Distinct Mutational Association Patterns in Metastatic Colorectal Cancer*” **Front Oncol.** 2020 May 7;10:560 **IF: 6.24; CIT: 10; Publisher: Frontiers Media S.A.**
 13. Gruber W, Peer E, Elmer DP, Sternberg C, Tesanovic S, Del Burgo P, **Coni S**, Canettieri G, Neureiter D, Bartz R, Kohlhof H, Vitt D, Aberger F. “*Targeting class I histone deacetylases by the novel small molecule inhibitor 4SC-202 blocks oncogenic hedgehog-GLI signaling and overcomes smoothed inhibitor resistance*” **Int J Cancer.** 2018 Mar 1;142(5):968-975. **IF:4.98; CIT: 40; Wiley A**
 14. Di Magno L, Basile A, **Coni S**, Manni S, Sdruscia G, D’Amico D, Antonucci L, Infante P, De Smaele

- E, Cucchi D, Ferretti E, Di Marcotullio L, Screpanti I and Gianluca Canettieri. "The energy sensor AMPK regulates Hedgehog signaling in human cells through a unique Gli1 metabolic checkpoint" **Oncotarget** 2016 Feb 23;7(8):9538-49 **IF:5.16; CIT: 38; Publisher: IMPACT JOURNALS LLC**
15. Di Magno L, Manzi D, D'Amico D, **Coni S**, Macone A, Infante P, Di Marcotullio L, De Smaele E, Ferretti E, Screpanti I, Agostinelli E, Gulino A and Canettieri G. "Druggable glycolytic requirement for Hedgehog-dependent neuronal and medulloblastoma growth" **Cell Cycle**. 2014;13(21):3404-13 **IF:4.56; CIT: 36; Publisher: Taylor and Francis PRESS/MEDIA RELEASE:**
https://www.uniroma1.it/sites/default/files/allegati_news/segnalazione%20dei%20media_4.pdf
 16. Antonucci L, D'Amico D, Di Magno L, **Coni S**, Di Marcotullio L, Cardinali B, Gulino A, Ciapponi L, Canettieri G. "CNBP regulates wing development in *Drosophila melanogaster* by promoting IRES-dependent translation of dMYC." **Cell Cycle**. 2014;13(3):434-9. **IF:4.56; CIT: 15; Publisher: Taylor and Francis**
 17. Canettieri G*, Santaguida MG*, Antonucci L, Della Guardia M, Franchi A, **Coni S**, Gulino A, Centanni M. "CCAAT/Enhancer-Binding Proteins Are Key Regulators of Human Type Two Deiodinase Expression in a Placenta Cell Line." **Endocrinology**. 2012 Aug;153(8):4030-8. **IF:4.71; CIT: 7; Publisher: Endocrine soc**
 18. Di Marcotullio L*, Greco A*, Mazza' D, Canettieri G, Pietrosanti L, Infante P, **Coni S**, Moretti M, Ferretti E, Screpanti I, Gulino A. "Numb activates the E3 ligase Itch to control Gli1 function through a novel degradation signal" **Oncogene**. 2011 Jan 6;30(1):65-76. **IF: 6.37; CIT: 91; Publisher: Springer nature**
 19. De Smaele E, Di Marcotullio L, Moretti M, Pelloni M, Occhione M.A., Infante P, Cucchi D, Greco A, Pietrosanti L, Todorovic J, **Coni S**, Canettieri G, Ferretti E, Bei R, Maroder M, Screpanti I, Gulino A. "Identification and characterization of KCASH2 and KCASH3, two novel Cullin3 adaptors suppressing Histone Deacetylase and Hedgehog activity in Medulloblastoma" **Neoplasia**. 2011 Apr;13(4):374-85. **IF:5.94; CIT: 76; Publisher: Elsevier Science INC**
 20. Canettieri G., Di Marcotullio L, **Coni S**, Greco A, Gulino A. "Turning off the switch in medulloblastoma: the inhibitory acetylation of an oncogene" **Cell Cycle**. 2010 Jun1;9(11):2047-8. **IF: 5; CIT: 7; Publisher: Taylor and Francis**
 21. Canettieri G, **Coni S**, Antonucci L, Di Magno L, Gulino A. "TORCs/CRTCcs: more than mere coincidence" **Cell Cycle**. 2009 Apr1;8(7):963-4. **IF: 4.08; CIT:1; Publisher: Taylor and Francis**
 22. De Smaele E, Fragomeli C, Ferretti E, Pelloni M, Po A, Canettieri G, **Coni S**, Di Marcotullio L, Greco A, Moretti M, Di Rocco C, Pazzaglia S, Maroder M, Screpanti I, Giannini G, Gulino A. "An integrated approach identifies Nhlh1 and Insm1 as Sonic Hedgehog-regulated genes in developing cerebellum and medulloblastoma" **Neoplasia**. 2008 Jan;10(1):89-98. **IF:5.19; CIT: 44; Publisher: Elsevier Science**

Meeting Acta published on International Journals indexed on ISI Web of Science

1. **Coni S**, Di Magno L, Mancuso AB, Sdruscia G, Manni S, Serrao SM, Di Marcotullio L, De Smaele E, Ferretti E, Canettieri G. Targeting Gli acetylation in Shh-medulloblastoma: A successful preclinical approach. International Journal Of Molecular Medicine. 2017; Volume 40; Supplement 1; Page S26-S26.

IF: 2.784 Citations: 0

2. Di Magno L, Manni S, Di Pastena F, **Coni S**, Serrao SM, Agostinelli E, Canettieri G. Targeting metabolic vulnerabilities to treat Shh medulloblastoma. International Journal of Molecular Medicine. 2018; Volume 42; Supplement 1; Page S34-S34.

IF: 2.928 Citations: 0

3. Canettieri G., **Coni S.**, Di Magno L. ,Sdruscia G. Non-canonical Hedgehog/AMPK-mediated control of polyamine metabolism is required for medulloblastoma growth European Journal of Cancer. 2016, Volume 61 pagina S72 supplement 1 IF:6.09 citations:1

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