

**Short CV CARLA CICCHINI****First name/ Surname**

Carla Cicchini

Department

Biotechnology and Hematology, Sapienza University of Rome

Address

Viale Regina Elena 324
00161, Roma

E-mail

cicchini@bce.uniroma1.it

Occupational field

University Researcher and Assistant Professor, Department of Biotechnology and Hematology, Sapienza University of Rome

Work experience***Dates 2007-present:***

-University Researcher (Assistant Professor) (BIO13), Department of Biotechnology and Hematology, Faculty of Pharmacy and Medicine, Sapienza University of Rome.

Research activity focused on genetic and epigenetic molecular mechanisms controlling i) the epithelial-to-mesenchymal transition (EMT)-mesenchymal-to-epithelial transition (MET) dynamics of the hepatocyte in physiology and pathology; ii) in vitro and in vivo hepatic stem cell fate.

-From 2007 teaching of "Biology and Genetics" at "School of Medicine and Surgery" (S.Andrea and CLM "D") and "Schools of Health Professions" at Sapienza University of Rome.

Dates 2002-2006

Recipient of a Postdoctoral fellow (Italian Assegno di Ricerca) at Sapienza University of Rome, II Faculty of Medicine and Surgery.

Research activities focused on molecular mechanisms controlling differentiation and transformation of the hepatocyte.

Dates 1997-2001

PhD student in "Human Biology: cellular and molecular basis", Supervisor: Prof. Marco Tripodi, Sapienza University of Rome, Faculty of Medicine and Surgery.

Research activities focused on molecular mechanisms controlling the EMT (epithelial-to-mesenchymal transition) in hepatocyte differentiation.

Education and training**February 2002**

PhD in "Human Biology: cellular and molecular basis", II Faculty of Medicine and Surgery, Sapienza University of Rome. Title of the thesis: "MMH (Met Murine Hepatocyte) cells: a new tool to study mechanisms controlling liver development".

**1999**

Italian State Examination to obtain the license to practice the professional activity of Biologist ("Sapienza" University of Rome, Italy)

May 1997

MASTER Degree in Biological Sciences with full marks and honors, Faculty of Biology, Sapienza University of Rome.

Title of the thesis: "*Linee stabili di epatociti transgenici per l'oncogene Met supportano l'ematopoiesi in vitro*". Supervisors: Prof. Marco Tripodi (Dipartimento di Biotecnologie Cellulari ed Ematologia) and Prof.ssa Irene Bozzoni (Dipartimento di Genetica e Biologia Molecolare).

Research programs

Principal Investigator or Participant in several research programs (funded by Sapienza, AIRC, MIUR PRIN, Institute Pasteur-Cenci Bolognetti) mainly focused on molecular mechanisms controlling transcriptional factors activities in cellular differentiation and transformation.

Editorial activity

-Peer Review activity for Oncotarget, Scientific Reports, Gene, Data in brief, Mediators of Inflammation, Journal of Cancer Research and Clinical Oncology, Exp. Biol. Medicine.

-Member of REPRISE (Register of Expert Peer Reviewers for Italian Scientific Evaluation; Ministero dell'Istruzione, dell'Università e della Ricerca) for ERC (LS3_5 - Cell differentiation, physiology and dynamics; LS3_12 - Stem cell biology; LS4_6 - Cancer and its biological basis).

Scientific publications (selected, last 10 years)

2017-Cecilia Battistelli[§], **Carla Cicchini^{§,*}**, Laura Santangelo, Anna Tramontano, Luigi Grassi, Frank J. Gonzalez, Valeria de Nonno, Germana Grassi, Laura Amicone and Marco Tripodi "The Snail repressor recruits EZH2 to specific genomic sites through the enrolment of the lncRNA HOTAIR in Epithelial-to-Mesenchymal Transition" *Oncogene* 2017 36 (7), pp. 942-955. DOI: 10.1038/onc.2016.260 **§ co-first author; * corresponding author IF 2015 7.932**

2017 Laura Santangelo, Cecilia Battistelli, Claudia Montaldo, Franca Citarella, Raffaele Strippoli and **Carla Cicchini*** "Functional role and therapeutic applications of exosomes in hepatocellular carcinoma". *BioMed Research International* 2017, 2931813 DOI: 10.1155/2017/2931813 *** corresponding author IF 2015 2.134**

2016-Laura Santangelo, Giorgio Giurato, **Carla Cicchini**, Claudia Montaldo, Carmine Mancone, Roberta Tarallo, Cecilia Battistelli, Tonino Alonzi, Alessandro Weisz and Marco Tripodi "The RNA-Binding Protein SYNCRIP Is a Component of the Hepatocyte Exosomal Machinery Controlling MicroRNA Sorting". *Cell Rep.* 2016 Oct 11;17(3):799-808. doi: 10.1016/j.celrep.2016.09.031. **IF 2015 7.870**

2016- Carla Cicchini, Cecilia Battistelli and Marco Tripodi "SETDB1 is a new promising target in HCC therapy" *Chin Clin Oncol.* 2016 Jun 3. pii: cco.2016.05.04. doi: 10.21037/cco.2016.05.04.

2016- Cozzolino, AM; Noce, V; Battistelli, C; Marchetti, A; Grassi, G; **Cicchini, C**; Tripodi, M; Amicone, L. "Modulating the Substrate Stiffness to Manipulate Differentiation of Resident Liver Stem Cells and to Improve the Differentiation State of Hepatocytes" *Stem Cells Int.* 2016 5481493. doi: 10.1155/2016/5481493 DOI: 10.1155/2016/5481493 **IF 2015 3.687**

2016- Strippoli R, Moreno-Vicente R, Battistelli C, **Cicchini C**, Noce V, Amicone L, Marchetti A, Del Pozo MA, Tripodi M. "Molecular Mechanisms Underlying Peritoneal EMT and Fibrosis". *Stem Cells Int.* 2016;2016:3543678. doi: 10.1155/2016/3543678. Epub 2016 Jan 31. PMID: 26941801 **IF 2015 3.687**

2015- Cicchini C*, de Nonno V, Battistelli C, Cozzolino AM, De Santis Puzzonina M, Ciafrè SA, Brocker C, Gonzalez FJ, Amicone L, Tripodi M. "Epigenetic control of EMT/MET dynamics: HNF4 α impacts DNMT3s through miRs-29". (2015) *Biochim Biophys Acta Gene regulatory mech.* Aug;1849(8):919-29. doi:10.1016/j.bbagr.2015.05.005. Epub 2015 May 21. PMID: 26003733 ***corresponding author IF 2015 5.373**

2015-Amicone L, Citarella F, **Cicchini C***. "Epigenetic regulation in hepatocellular carcinoma requires long noncoding RNAs." *Biomed Res Int.* 2015; 2015:473942. doi: 10.1155/2015/473942. Epub 2015 Mar 10. Review. PMID: 25861629 ***corresponding author IF 2015 2.134**



2015- Cicchini C, Amicone L, Alonzi T, Marchetti A, Mancone C, Tripodi M. "Molecular mechanisms controlling the phenotype and the EMT/MET dynamics of hepatocyte. *Liver Int.* 2015 Feb;35(2):302-10. doi: 10.1111/liv.12577. Epub 2014 May 20. **IF 2015 4.470**

2013-Alessandra Marchetti, **Carla Cicchini**, Laura Santangelo, Angela Maria Cozzolino, Viviana Costa, Marco Tripodi, Laura Amicone. *Journal of Cancer Therapy*, 2013, 4, 353-358 <http://dx.doi.org/10.4236/jct.2013.42A042> "Signaling Networks Controlling HCC Onset and Progression: Influence of Microenvironment and Implications for Cancer Gene Therapy"

2013-Conigliaro A, Amicone L, Costa V, De Santis Puzzonio M, Mancone C, Sacchetti B, **Cicchini C**, Garibaldi F, Brenner DA, Kisseleva T, Bianco P, Tripodi M. "Evidence for a common progenitor of epithelial and mesenchymal components of the liver." *Cell Death Differ.* 2013 Aug;20(8):1116-23. doi: 10.1038/cdd.2013.49. Epub 2013 May 17. **IF 2015 8.218**

2013-Cozzolino AM, Alonzi T, Santangelo L, Mancone C, Conti B, Steindler C, Musone M, **Cicchini C**, Tripodi M, Marchetti A. "TGF β overrides HNF4 α tumor suppressing activity through GSK3 β inactivation: implication for hepatocellular carcinoma gene therapy." *J Hepatol.* 2013 Jan;58(1):65-72. doi: 10.1016/j.jhep.2012.08.023. Epub 2012 Sep 4. **IF 2015 10.590**

2012- Garibaldi F*, **Cicchini C***, Conigliaro A, Santangelo L, Cozzolino AM, Grassi G, Marchetti A, Tripodi M, Amicone L. "An epistatic mini-circuitry between the transcription factors Snail and HNF4 α controls liver stem cell and hepatocyte features exhorting opposite regulation on stemness-inhibiting microRNAs". *Cell Death Differ.* 2012 Jun;19(6):937-46. **IF 2015 8.218**

* **co-first authors**

2011-Santangelo L., Marchetti A., **Cicchini C.**, Conigliaro A., Conti B., Mancone C., Bonzo J.A., Gonzalez F. J., Alonzi T., Amicone L., Tripodi M. "The stable repression of mesenchymal program is required for hepatocyte identity: a novel role for hepatocyte nuclear factor 4 α " (2011) *Hepatology* 53 (6) 2063 June 2063-74 PMID:21384409 **IF 2015 11.711**

2010- Mancone C., Conti B., Amicone L., Bordoni V., **Cicchini C.**, Calvo L., Basulto Perdomo A., Fimia G.M., Tripodi M. and Alonzi T.: "Proteomic analysis reveals a major role of contact inhibition in the execution of hepatocyte terminal differentiation". *J of Hepatology*, 2010 Feb;52(2):234-43I. PMID:20031246 **IF 2015 10.590**

2009- Colletti M*, **Cicchini C***, Conigliaro A., Santangelo L., Alonzi T., Pasquini E., Tripodi M, Amicone L. "Convergence of Wnt signaling on the HNF4a-driven transcription in controlling liver zonation" *Gastroenterology.* 2009 Aug;137(2):660-72.PMID:19454287 **IF 2015 18.187** ***co-first authors**

2008- Conigliaro A., Colletti M., **Cicchini C.**, Guerra M.T., Manfredini R., Zini R., Bordoni V., Siepi F., Leopizzi M., Tripodi M., L. Amicone. "Isolation and characterization of murine liver resident stem cell". (2008) *Cell Death and Differentiation.* Jan;15(1):123-33. PMID:17932501 **IF 2015 8.218**

2008- Cicchini C., Laudadio I., Citarella F., Corazzari M., Steindler C., Conigliaro A., Fantoni A., Amicone L., M. Tripodi. "TGF β -induced EMT requires Focal Adhesion Kinase (FAK) signalling". (2008) *Experimental Cell Research.* Jan 1;314(1):143-52. PMID:17949712 **IF 2015 3.378**

2006- Cicchini, C., Filippini, D., Coen, S., Marchetti, A., Cavallari, C., Laudadio, I., Spagnoli, F.M., Tripodi, M. "Snail controls differentiation of hepatocytes by repressing HNF4 α expression" (2006) *Journal of Cellular Physiology*, 209 (1), pp. 230-238. PMID: 16826572 **IF 2015 4.155**

FIRMATO
CARLA CICCHINI