

PERSONAL INFORMATION

Eleonora TIMPERI; Sex Female | Date of birth 24 November 1986 | Nationality Italian | mail eleonora.timperi@curie.fr
Work: Curie Institute, Immunity and Cancer Unit, U932. Head of research group Sebastian Amigorena and Emanuela Romano, 26 rue d'Ulm, 75005, Paris.

WORK EXPERIENCE AND EDUCATION

March 2020- Today **Postdoctoral research fellow.** Immunity and Cancer Unit U932. Head of research group Sebastian Amigorena and Emanuela Romano. **Curie Institute**, Paris. Study at single cell level the heterogeneity of tumor-associated macrophages in breast cancers.

March 2018- March 2020 **Post-doctoral Fellowship Abroad funded by AIRC.** Immunity and Cancer Unit U932. Head of research group Sebastian Amigorena. **Curie Institute**, Paris. Study at single cell level the heterogeneity of tumor-associated macrophages in breast cancers.

January 2015 - January 2018 **Research Fellow.** Cellular and Molecular Immunology Unit. Head of research group Prof. Vincenzo Barnaba. **"Sapienza" Università di Roma**, Policlinico Umberto I. Function and phenotype of tumor-infiltrating T cells in human tumors (colorectal, hepatocellular carcinoma, pancreatic and head and neck cancer).

October 2011- January 2015 **PhD Student** in Scienze Pasteuriane, PhD defence, 21th January 2015. Cellular and Molecular Immunology Unit. Head of research group Prof. Vincenzo Barnaba. **"Sapienza" Università di Roma**, Policlinico Umberto I. Title of the thesis: "Hepatic and colorectal chronic inflammation and tumour: role of Tregs" Director of studies: Vincenzo Barnaba.

January 2009- March 2011 **Laurea Specialistica (MSc) in Medical Biotechnologies.** Faculty of Medicine, **"Sapienza" University of Rome**. Title of the thesis: "Study of molecular effects of thyroid hormon (T3) against chemotherapy damage on ovarian granulosa cells" Director of studies: Silvia Misiti. Final evaluation: *110/110 cum laude*.

October 2005- January 2009 **Laurea Triennale (BSc) in Biotechnologies** Faculty of Medicine, **"Sapienza" University of Rome**. Title of the thesis: "The origin recognition complex subunit, ORC3, is developmentally regulated and support the expression of biochemical markers of neuronal maturation in cultured cerebellar granule cells" Director of studies: Daniela Melchiorri. Final evaluation: *105/110*.

GRANTS/FELLOWSHIP AND AWRDS

2020: **Grant** Funded by **Fondation Amgen France** pour la Science et l'Humain, Amgen Innovations. **Curie Institute, Paris**.

Title: "Triple negative breast cancer: resolving the tumor-associated macrophage-fibroblast interactome to predict resistance to chemotherapy".

2016: **Grant** Funded by **Avvio alla Ricerca** from **Sapienza Università di Roma**.

Title: "Analysis of genetic signature of tumour infiltrating CD39+ CD8 T cells in CRC patients".

2017: Funded by **AIRC**, Fondazione Italiana Ricerca sul Cancro with **Fellowship Abroad** (two years of Post-doc). Title of the project: "Functional heterogeneity and OX40/OX40L signaling in macrophages from human gynecologic cancers".

2017: Funded by **Istituto Pasteur Italia Fondazione Cenci Bolognetti-Roma** with **Fellowship Abroad** (one year of Post-doc). Title of the project: "Functional heterogeneity and OX40/OX40L signaling in macrophages from human gynecologic cancers".

2017: Funded by **Fondation ARC** with **Fellowship Abroad** "Aides individuelles -session d'automne 2017-Post-doctorat en France" (two years of Post-doc). Title of the project: "Functional heterogeneity and OX40/OX40L signaling in macrophages from human gynecologic cancers".

2017: **SIICA Travel Grant** sponsored for the XI National Congress SIICA (Hotel Nicolaus, Bari 28-31 May, 2017).

2015: **EFIS-EJI Grant** sponsored for the Ruggero Ceppellini Advanced School of Immunology (Hotel Oriente, Naples 5-6 November 2015).

2015: **Candidate for best poster** award at “4th European Congress of Immunology” (Austria Center Vienna, 6-9/09/2015).

2015: **EFIS Travel Grant** sponsored for the “4th European Congress of Immunology” (Austria Center Vienna, 6-9/09/2015).

2014: **SIICA /AIRC Travel grant** sponsored for the “3rd Conference of translational medicine on pathogenesis and therapy of immune-mediated disease” (Congress Centre “Humanitas” Rozzano, Milan, Italy).

2012: **SIICA Travel grant** for the Joint Meeting “Liver Immunology” (Congress Centre “Humanitas” Rozzano, Milan, Italy) for best abstract submitted.

PUBLICATIONS

TIMPERI E.^{i#}, Gueguen P, Molgora M, Magagna I, Cousin C, Kieffer Y, Lopez-Lastra S, Sirven P, Baudrin LG, Baulande S, Nicolas A, Champenois G, Meseure D, Vincent-Salomon A, Tardivon A, Laas E, Soumelis V, Colonna M, Mechta-Grigoriou F, Amigorena S, Romano E[#]. Identification of a pro-tumorigenic lipid-associated myeloid population in triple negative breast cancer.
Under revision.

Pacella I, Spinelli FR, Severa M, **TIMPERI E**, Tucci G, Zagaglioni M, Ceccarelli F, Rizzo F, Coccia EM, Patel RS, Martin-Fernandez M, Bogunovic D, Conti F, Barnaba V, Piconese S. ISG15 protects human Tregs from interferon alpha-induced contraction in a cell-intrinsic fashion.

Clin Transl Immunology. 2020 Dec 23;9(12):e1221. doi: 10.1002/cti2.1221. eCollection 2020.

Antonucci L, Porcu C, **TIMPERI E**, Santini SJ, Iannucci G, Balsano C. Circulating Neutrophils of Nonalcoholic Steatohepatitis Patients Show an Activated Phenotype and Suppress T Lymphocytes Activity.

Journal of Immunology Research. 2020 Jun 30;2020:4570219. doi: 10.1155/2020/4570219.

Gallerano D, Ciminati S, Grimaldi A, Piconese S, Cammarata I, Focaccetti C, Pacella I, Accapezzato D, Lancellotti F, Sacco L, Caronna R, Melaiu O, Fruci D, D'Oria V, Manzi E, Sagnotta A, Parrino C, Coletta D, Peruzzi G, Terenzi V, Battisti A, Cassoni A, Fadda MT, Brozzetti S, Fazzi K, Grazi GL, Valentini V, Chirletti P, Polimeni A, Barnaba V, **TIMPERI E**. Genetically driven CD39 expression shapes human tumor-infiltrating CD8+ T-cell functions.

International Journal of Cancer. 2020 Jun 1:e33131. doi: 10.1002/ijc.33131.

Cammarata I, Martire C, Citro A, Raimondo D, Fruci D, Melaiu O, D'Oria V, Carone C, Peruzzi G, Cerboni C, Santoni A, Sidney J, Sette A, Paroli M, Caccavale R, Milanetti E, Riminucci M, **TIMPERI E**, Piconese S, Manzo A, Montecucco C, Scivo R, Valesini G, Cariani E, Barnaba V. Counter-regulation of regulatory T cells by autoreactive CD8+ T cells in rheumatoid arthritis.

Journal of Autoimmunity. 2019 May;99:81-97. doi: 10.1016/j.jaut.2019.02.001.

Schinzari V*, **TIMPERI E***, Pecora G, Palmucci F, Gallerano D, Guglielmo N, Melandro F, Manzy E, Sagnotta A, Lancellotti F, Sacco L, Chirletti P, Grazi GL, Rossi M, Barnaba V.

Wnt3a/B-catenin signalling conditions differentiation of partially exhausted T effector cells in human cancers.

Cancer Immunology Research, 2018 July 17, doi: 10.1158/2326-6066.CIR-17-0712.

Pacella I, Procaccini C, Focaccetti C, Miacci S, **TIMPERI E**, Deriggio F, Severa M, Rizzo F, Coccia E, Bonacina F, Mitro N, Norata G, Rossetti G, Ranzani V, Pagani M, Giorda E, Wei Y, Matarese G, Barnaba V, Piconese S. Fatty acid metabolism complements glycolysis in the selective regulatory T cell expansion during tumor growth. Proceedings of the National Academy of Sciences, 2018 July 10, doi: 10.1073/pnas.1720113115.

TIMPERI E, Focacetti C, Gallerano D, Panetta M, Spada S, Gallo E, Visca P, Venuta F, Diso D, Prelaj A, Longo F, Facciolo F, Nisticò P, Barnaba V. IL-18 receptor marks functional CD8+ T cells in non-small cell lung cancer. *Oncoimmunology*, 2017 May 12, doi:10.1080/2162402X.2017.1328337.

TIMPERI E, Pacella I, Schinzari V, Sacco L, Farelli F, Longo F, Ciardi A, Chirletti P, Barnaba V, Piconese S. Regulatory T cells with multiple suppressive and potentially pro-tumor activities accumulate in human colorectal cancer. *Oncoimmunology*, 2016 Apr 25, doi:10.1080/2162402X.2016.1175800.

Pacella I, **TIMPERI E**, Accapezzato D, Labbadia G, Cavallari EN, D'Ettore G, Calvo L, Rizzo F, Severa M, Coccia EM, Vullo V, Barnaba V, Piconese S. IFN- α promotes rapid human Treg contraction and late Th-1 like Treg decrease. *Journal of Leukocyte Biology*, 2016 Feb 26. pii: jlb. 5A0415-140R.

TIMPERI E*, Folgori L*, Amodio D, De Luca M, Piconese S, Di Cesare S, Pacella I, Martire C, Bonatti G, Perrone S, Boni T, Marcovecchio GE, Reale A, Parisi F, Dotta A, Barnaba V, Rossi P. Expansion of actTreg cells inversely correlates with clinical severity in septic neonates. *Journal of Allergy and Clinical Immunology*, 2016 Jan 11; doi: 10.1016/j.jaci.2015.10.048.

Piconese S, Pacella I, **TIMPERI E**, Barnaba V. Divergent effects of type-I interferons on regulatory T cells. *Cytokines & Growth Reviews*. 2014 Oct 31; doi:10.1016/j.cytogfr.2014.10.012.

Piconese S, **TIMPERI E**, Barnaba V. 'Hardcore' OX40+ immunosuppressive regulatory T cells in hepatic cirrhosis and cancer. *Oncoimmunology*. 2014 Jun 17;3:e29257. eCollection 2014.

Piconese S*, **TIMPERI E***, Pacella I, Schinzari V, Tripodo C, Rossi M, Guglielmo N, Mennini G, Grazi GL, Di Filippo S, Brozzetti S, Fazzi K, Antonelli G, Lozzi MA, Sanchez M, Barnaba V Human OX40 endorses committed and specialized Th1-suppressing regulatory T cells in HCV-related tumor microenvironment. *Hepatology*, 2014 Apr 23. doi: 10.1002/hep.27188.

Verga Falzacappa C, **TIMPERI E**, Bucci B, Piergrossi P, D'Amico D, Santaguida MG, Centanni M, Misiti S. T(3) preserves ovarian granulosa cells from chemotherapy- induced apoptosis. *Journal of Endocrinology*. 2012 Nov; 215(2): 281-9.

- *equally contributing authors

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