

# Alessandra Rossi

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Date and place of birth : 22/07/1985 Crema (CR) Italy

## EDUCATION AND TRAINING

- **From 2011 to 2015** : Degree of PhD in Molecular Medicine (curriculum in Molecular Oncology) at European School of Molecular Medicine (SEMM), Milan, Italy. Thesis title: "Role of the Polycomb group proteins in the adult intestinal stem cells homeostasis". Supervisor Diego Pasini PhD.
- **From 2007 to 2010** : Master's Degree in Medical Biotechnology at Università degli Studi di Milano-Bicocca, Milan, Italy. Experimental thesis title: "FOXP3, the transcriptional factor responsible for the development and function of regulatory T cells, is a candidate tumor-suppressor gene in malignant gliomas". Supervisor Dott. Gaetano Finocchiaro. Mark: 110/110 Honors.
- **From 2004 to 2007** : Bachelor's Degree in Medical Biotechnology at Università degli Studi di Milano-Bicocca, Milan, Italy. Experimental thesis title: "Modulation of cardiac contractility by the inhibition of kinases-PH Domain". Supervisor Prof. A. Zazza. Mark : 104/110.

## WORK EXPERIENCE and TOPICS

- **January 2017 – Present** : Post-doctoral fellow in the laboratory of Corrado Tarella MD, Campus IEO, Milan Italy. Topics : 1. Therapeutic targeting of replicative and oxidative stress in Diffuse Large B-cell lymphoma 2. Therapeutic targeting of ribosomal biogenesis in Diffuse Large B-cell lymphoma. 3. Natural killer cell-based immunotherapy combinations in B-cell lymphoma.
- **May 2015 - January 2017** : Post-doctoral fellow in the laboratory of Diego Pasini PhD, Campus IEO, Milan Italy. Topics : Identification of novel players that control intestinal homeostasis and drive CRC development by using shRNA screens in the organoids model.
- **January 2011 - May 2015** : PhD student in the laboratory of Diego Pasini PhD, Campus IFOM-IEO, Milan Italy. Topics : 1. PRC1 activity and H2AUbq deposition in the leukemic cell identity maintenance 2. PRC1 and PRC2 roles in intestinal homeostasis and colorectal cancer.
- **June 2010 - December 2010** : Predoctoral fellowship in the laboratory of Diego Pasini PhD, Campus IFOM-IEO, Milan Italy. Topics : Characterization of HOX fusion proteins in leukemogenesis.
- **August 2009 - October 2009** : Exchange fellowship in the laboratory of Mario Strazzabosco MD PhD, Department of internal medicine, Digestive diseases section Yale University USA. Topics : Rapamycin effects in the regulation of liver cyst growth.
- **January 2009 - March 2010** : Undergraduate student in the laboratory of Gaetano Finocchiaro MD, C. Besta Molecular Neuro-Oncology Department, Campus IFOM-IEO, Milan Italy. Topics : Characterization of FOXP3 in malignant gliomas.
- **June 2007 - October 2007** : Undergraduate student in the laboratory of Prof. Antonio Zazza Cardiac Electrophysiology laboratory, Università degli studi di Milano-Bicocca, Milan Italy. Topics : Inhibition of kinases-PH Domain and cardiac contractility.

## PERSONAL SKILLS

- **Language(s)** : Italian (Mother tongue), English (independent user), French (basic user).
- **Job-related skills** : Cellular Biology ; Molecular Biology ; Biochemical techniques ; Flow Cytometry ; Next generation Sequencing ; comprehensive in vivo mouse work.
- **Mentoring experience** : Scientific supervisor for undergraduate students and for PhD students.
- **Other skills** : Team spirit, good communication skills and tendency to confront and find innovative solution, precise and attentive to details, sense of organization, results oriented.

## FELLOWSHIP

- 01/04/2020 – 01/04/2021: Post-Doctoral Fellowship Fondazione Umberto Veronesi (FUV) in the laboratory of Corrado Tarella MD, Campus IEO, Milan Italy.
- 01/04/2019 – 01/04/2020: Post-Doctoral Fellowship Fondazione Umberto Veronesi (FUV) in the laboratory of Corrado Tarella MD, Campus IEO, Milan Italy.
- 01/07/2017 - 30/6/2018 : fellowship Fondazione IEO-CCM in the laboratory of Corrado Tarella MD, Campus IEO, Milan Italy.
- 01/01/2013 - 31/12/2015 : fellowship Fondazione Italiana per la Ricerca sul Cancro (FIRC) in the laboratory of Diego Pasini PhD, Campus IFOM-IEO, Milan Italy.
- 01/09/2009 - 31/10/2009 : Exchange fellowship in the laboratory of Mario Strazzabosco MD PhD, Department of internal medicine, Digestive diseases section Yale University USA.

## DISSEMINATION ACTIVITIES

- 04-06/05/2019 two seminars for the project “Ricercatori in classe, la scienza e la ricerca incontrano I giovani” promoted by the Fondazione Umberto Veronesi (FUV) in high schools

## AWARDS

- Fondazione Italiana Linfomi, Premio Brusamolino best paper 2021: “Dual targeting of the DNA damage response pathway and BCL-2 in diffuse large B-cell lymphoma”

## CONFERENCES

- Associazione di Biologia cellulare e del Differenziamento (ABCD) National Congress 2015, Bologna, Italy (17-19 September 2015). Oral presentation at the pre-meeting and Poster presentation at the ABCD meeting

## PUBLICATIONS

1. **Alessandra Rossi**, Stefania Orecchioni, Paolo Falvo, Valentina Tabanelli, Elena Baiardi, Claudio Agostinelli, Federica Melle, Giovanna Motta, Angelica Calleri, Stefano Fiori, Chiara Corsini, Beatrice Casadei, Saveria Mazzara, Umberto Vitolo, Francesco Bertolini, Pier Luigi Zinzani, Myriam Alcalay, Pier Giuseppe Pelicci, Stefano Pileri, Corrado Tarella and Enrico Derenzini. “Dual targeting of the DNA damage response pathway and BCL-2 in diffuse large B-cell lymphoma” (2021) *Leukemia*
2. Karin Johanna Ferrari, Simona Amato, Roberta Noberini, Cecilia Toscani, Daniel Fern´andez-P´erez, **Alessandra Rossi**, Pasquale Conforti, Marika Zanotti, Tiziana Bonaldi, Simone Tamburri and Diego Pasini. “Intestinal differentiation involves cleavage of histone H3 N-terminal tails by multiple proteases” (2021) *Nucleic Acids Research (NAR) Vol.49, No.2*
3. Pivetti, Fernandez-Perez, D'Ambrosio, Barbieri, Manganaro, **Rossi**, Barnabei, Zanotti, Scelfo, Chiacchiera, Pasini D. “Loss of PRC1 activity in different stem cell compartments activates a common transcriptional program with cell type-dependent outcomes” (2019) *Science advances* 15;5 (5)
4. Derenzini E, Mondello P, Erazo T, Portelinho A, Liu Y, Scallion M, Asgari Z, Philip J, Hilden P, Valli D, **Rossi A**, Djaballah H, Ouerfelli O, Stanchina E, Seshan V.E, Hendrickson R. C, Younes A. BET Inhibition-Induced GSK3β Feedback Enhances Lymphoma Vulnerability to PI3K Inhibitors. (2018) *Cell Reports* 24, 2155–2166.
5. Derenzini E, Agostinelli C, **Rossi A**, Rossi M, Scellato F, Melle F, Motta G, Fabbri M, Diop F, Kodipad AA, Chiappella A, Vitolo U, Gaidano G, Tarella C, Pileri S. “Genomic alterations of ribosomal protein genes in diffuse large B cell lymphoma”. (2018) *British Journal of Haematology*
6. Derenzini E, **Rossi A** and Treré D. “Treating hematological malignancies with drugs inhibiting ribosome biogenesis: when and why” *Journal of Hematology & Oncology* (2018) 11:75

**7. Rossi A\***, Ferrari KJ \*, Jammula S, Piunti A, Scelfo A, and Pasini D. "Maintenance of Leukemic Cell Identity by the Activity of the Polycomb Complex PRC1 in Mice" (2016) Science advances 2 (10) \* authors contributed equally

**8.** Chiacchiera F\*, **Rossi A\***, Jammula S, Zanotti M and Pasini D. "PRC2 Preserves Intestinal Progenitors and Restricts Secretory Lineage Commitment" (2016) EMBO J. 2;35(21):2301-2314 \* authors contributed equally

**9.** Chiacchiera F\*, **Rossi A\***, Jammula S, Piunti A, Scelfo A, Koseki H and Pasini D. "Polycomb Complex PRC1 Preserves Intestinal Stem Cell Identity by Sustaining Wnt/ $\beta$ -Catenin Transcriptional Activity" (2016) Cell Stem Cell 18, 1–13 \* authors contributed equally

**10.** Piunti A, **Rossi A**, Cerutti A, Albert M, Jammula S, Scelfo A, Cedrone L, Fragola G, Olsson L, Koseki H, Testa G, Casola S, Helin K, d'Adda di Fagagna F, Pasini D., "Polycomb proteins control proliferation and transformation independently of cell cycle checkpoints by regulating DNA replication", (2014), Nature Communications,5:3649

**11.** Frattini V, Pisati F, Speranza MC, Poliani PL, Frigé G, Cantini G, Kapetis D, Cominelli M, **Rossi A**, Finocchiaro G, Pellegatta S., "FOXP3, a novel glioblastoma oncosuppressor, affects proliferation and migration". (2012) Oncotarget, 3(10):1146-57

**Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae  
in base art. 13 del D. Lgs. 196/2003**