

## **Lorenzo Brunetti, MD, PhD**

**Nationality:** Italian

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### **Professional Experience**

- Since Nov 2018 **Assistant Professor**, Department of Medicine, University of Perugia, Italy
- Research activity focused on the molecular pathogenesis of acute myeloid leukemia with mutated *NPM1*.
  - Clinical activity as hematologist, mainly focused on the treatment of acute myeloid and lymphoid leukemias.
- May 15-Sep 18 **Post-Doc fellow**, Goodell Lab, Baylor College of Medicine, Houston, Texas, USA
- Applying CRISPR/Cas9 to normal and malignant hematopoietic cells.
  - Harnessing CRISPR/Cas9 to study the biology of acute myeloid leukemia with mutated *NPM1*.
  - Studying the impact of *DNMT3A* mutations on DNA methylation in acute myeloid leukemia.
- 2009-Jul 14 **Resident/Fellow, Hematology**, University of Perugia, Italy;
- Five-year clinical training in Hematology as Resident/Fellow with specific focus on the treatment of acute myeloid and lymphoid leukemias in adults.

### **Education**

- 2017 **PhD degree, Molecular Medicine**, Department of Hematology and Clinical Immunology, University of Perugia, Italy.
- 2014 **Specialty, Hematology**, Department of Hematology and Clinical Immunology University of Perugia, Italy.
- 2008 **MD degree**, "Federico II University", Naples, Italy;

### **Awards**

- 2018 Under 40 in Hematology award, Italian Society of Hematology.
- 2018 Italian Students and Scholars of North America Foundation (ISSNAF) award.
- 2017 ASH/EHA Translational Research Training in Hematology (TRTH).
- 2016 Cancer Prevention Research Institute of Texas (CPRIT) Clinical Fellowship.

### **Selected professional activities**

Member: Young EHA committee.

Journal Reviewer: Blood, Leukemia, Haematologica.

### **Selected peer-reviewed publications**

**Brunetti L\***, Gundry MC\*, Sorcini D, et al. Mutant NPM1 maintains the leukemic state through *HOX* expression. *Cancer Cell* 2018 Sep 10;34(3):499-512.e9.

**Brunetti L\***, Gundry MC\*, Kitano A, et al. Highly Efficient Gene Disruption of Murine and Human Hematopoietic Progenitor Cells by CRISPR/Cas9. *J Vis Exp* 2018 Apr 10;(134).

**Brunetti L**, Di Battista V, Venanzi A, et al. Blastic plasmacytoid dendritic cell neoplasm and chronic myelomonocytic leukemia: a shared clonal origin. *Leukemia*. 2017 Feb 10. doi: 10.1038/leu.2017.38.

Gundry MC\*, **Brunetti L\***, Lin A\*, et al. Highly Efficient Genome Editing of Murine and Human Hematopoietic Progenitor Cells by CRISPR/Cas9. *Cell Reports*. 2016 Oct 25;17(5):1453-1461.

Falini B, **Brunetti L**, Martelli MP. Dactinomycin in *NPM1*-mutated acute myeloid leukemia. *N Engl J Med* 2015;373(12),1180-1182.

A complete list of all the publications can be at the following URL:  
<https://www.scopus.com/authid/detail.uri?authorId=8090294100>