

## CURRICULUM VITAE - LUIGI PASINI

### Personal Data

Name	LUIGI PASINI
Citizenship	Italy
Work address	Via Piero Maroncelli, n.40, Meldola 47014
E-mail address	<a href="mailto:luigi.pasini@irst.emr.it">luigi.pasini@irst.emr.it</a>

### Education

Completion date	Institution and Location	Degree	Field of study
04/2008	University of Bologna, Italy	Ph.D.	Cell Biology and Physiology
10/2004	University of Bologna, Italy	M.S.	Molecular Biology

### Research Experience

- 2017-present

Research Associate - Laboratory of Bioscience, IRST Cancer Center, Italy

Research: In tight collaboration with medical staff, we are exploring novel research lines for the use of extracellular vesicles in liquid biopsy for advanced diagnostic applications in cancer.

- 2010-2017

Postdoctoral Associate - CIBIO, University of Trento, Italy

Research: We observed, for the first time, that the TrkA gene is focally amplified in melanoma, and when over-stimulated by NGF, can induce intrinsic feedback antiproliferative mechanism of cancer cells.

- 2007-2010

Postdoctoral Fellow - Campus IFOM-IEO, Milan, Italy

Research: I participated in the study of a newly discovered member of the SHC family, called SHC4, or Rai like protein (RaLP), to define its contribution to MAPK signaling during melanocyte transformation into melanoma cells.

- 2006-2007

PhD Fellow - Baylor College of Medicine, Houston, USA

Research: I further investigated the transcriptional activation mediated by estrogen receptor, by the use of a genome-integrated artificial enhancer/promoter to detect real-time gene expression in living cells. In this way, we were able to determine that the transcriptional activity of estrogen receptor is tightly regulated by the nuclear-cytosol shuttling of its coactivator SRC-3, upon MAPK cascade stimulation.

- 2004-2006

PhD Fellow - Pharmacy and Biotechnology, University of Bologna, Italy

Research: We investigated the possibility to generate antigen-specific immune response in estrogen-receptor breast cancer murine models, through a pioneering protocol of dendritic cell activation.

### Technical skills and competences:

Molecular biology applied to biomedical research, including proficiency across a wide spectrum of cancer topics from genomic analysis, cell signalling, RNA biology, extracellular vesicles, and regulation of gene expression, along with expertise in the field of liquid biopsy, cell and animal models.

### Awards and Honors:

- 2006 Marco Polo Fellowship, University of Bologna, Italy
- 2012 The Neuroblastoma Foundation Fellowship, Italy
- 2015 Best Poster Presentation, The RNA Society - Institut Curie Award, France
- 2015 Outstanding research project, Begnudelli Award of the Pezcoller Foundation, Italy
- 2016 Advanced Training Centre Corporate Partnership Programme Fellowship, EMBL, Germany

### Awards Research Supports:

2012-2014 - CARITRO Foundation Grant, Caritro Foundation, Italy

2014-2016 - Career Development Grant, University of Trento, Italy

Publications:

1. Pasini L, Ulivi P. Extracellular Vesicles in Non-Small-Cell Lung Cancer: Functional Role and Involvement in Resistance to Targeted Treatment and Immunotherapy. *Cancers* 2019. doi: 10.3390/cancers12010040.
2. Pasini L, Ulivi P. Liquid Biopsy for the Detection of Resistance Mechanisms in NSCLC: Comparison of Different Blood Biomarkers. *J Clin Med*. 2019. doi: 10.3390/jcm8070998.
3. Notarangelo M, Zucal C, Modelska A, Pesce I, Scarduelli G, Potrich C, Lunelli L, Pederzoli C, Pavan P, la Marca G, Pasini L, Ulivi P, Beltran H, Demichelis F, Provenzani A, Quattrone A, D'Agostino VG. Ultrasensitive detection of cancer biomarkers by nickel-based isolation of polydisperse extracellular vesicles from blood. *E-BioMedicine* 2019. doi: 10.1016/j.ebiom.2019.04.039.
4. Ulivi P, Petracci E, Marisi G, Baglivo S, Chiari R, Billi M, Canale M, Pasini L, Racanicchi S, Vagheggini A, Delmonte A, Mariotti M, Ludovini V, Bonafè M, Crinò L, Grignani F. Prognostic Role of Circulating miRNAs in Early-Stage Non-Small Cell Lung Cancer. *J Clin Med*. 2019. doi: 10.3390/jcm8020131.
5. Pasini L, Re A, Tebaldi T, Ricci G, Boi S, Adami V, Barbareschi M, Quattrone A. TrkA is amplified in malignant melanoma patients and induces an anti-proliferative response in cell lines. *BMC Cancer* 2015. doi: 10.1186/s12885-015-1791-y.