

Computational fellow position - Noncoding RNA lab, University of Milan, Italy

A position for a computational fellow is available in the laboratory of Dr. Paolo Gandellini at the Biosciences Department of Excellence, University of Milan, starting from April-May 2021. Main interest of the team is the study of the role of the “noncoding-ome” (i.e. the repertoire of noncoding RNAs, including microRNAs and long noncoding RNAs) in the development and progression of human cancer. Research includes functional dissection in tumor models using genome editing approaches followed by cellular, molecular and transcriptomic characterization. Research also includes bioinformatic analyses on publicly available datasets. Applications from both pre- and post-doctoral fellows will be considered. Experience and independence in managing bulk and single cell RNA-seq is required. Competence in the analysis of long-read seq, ChIP-seq or ChIRP-seq will be well received.

For more information about ongoing projects, team, salary please contact paolo.gandellini@unimi.it

To apply, please do not wait and submit your CV (max 3 pages) to paolo.gandellini@unimi.it.

Selected publications

Profumo V, Forte B, Percio S, Rotundo F, Doldi V, Ferrari E, Fenderico N, Dugo M, Romagnoli D, Benelli M, Valdagni R, Dolfini D, Zaffaroni N, Gandellini P. *LEADeR role of miR-205 host gene as long noncoding RNA in prostate basal cell differentiation*. **Nat Commun.** **2019** Jan 18;10(1):307.

Gandellini P, Doldi V, Zaffaroni N. *microRNAs as players and signals in the metastatic cascade: Implications for the development of novel anti-metastatic therapies*. **Semin Cancer Biol.** **2017** Jun;44:132-140.

El Bezawy R, Cominetti D, Fenderico N, Zuco V, Beretta GL, Dugo M, Arrighetti N, Stucchi C, Rancati T, Valdagni R, Zaffaroni N, Gandellini P. *miR-875-5p counteracts epithelial-to-mesenchymal transition and enhances radiation response in prostate cancer through repression of the EGFR-ZEB1 axis*. **Cancer Lett.** **2017** Jun 1;395:53-62.

Gandellini P, Rancati T, Valdagni R, Zaffaroni N. *miRNAs in tumor radiation response: bystanders or participants?* **Trends Mol Med.** **2014** Sep;20(9):529-39.

Gandellini P, Profumo V, Casamichele A, Fenderico N, Borrelli S, Petrovich G, Santilli G, Callari M, Colecchia M, Pozzi S, De Cesare M, Folini M, Valdagni R, Mantovani R, Zaffaroni N. *miR-205 regulates basement membrane deposition in human prostate: implications for cancer development*. **Cell Death Differ.** **2012** Nov;19(11):1750-60.

Gandellini P, Folini M, Longoni N, Pennati M, Binda M, Colecchia M, Salvioni R, Supino R, Moretti R, Limonta P, Valdagni R, Daidone MG, Zaffaroni N. *miR-205 Exerts tumor-suppressive functions in human prostate through down-regulation of protein kinase Cepsilon*. **Cancer Res.** **2009** Mar 15;69(6):2287-95.