

Paolo Provero

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Born: January 31, 1963—Torino, Italy
Nationality: Italian

Current position

Associate Professor, Molecular Biology
Dept. of Molecular Biotechnology and Health Sciences, University of Torino

Appointments held

- 2015- Scientific Director, Genomics and Bioinformatics Torino University Service, University of Torino, Italy
- 2014- Associate Professor in Molecular Biology, Department of Molecular Biotechnology and Health Sciences, University of Torino, Italy
- 2006-2014 Assistant Professor in Computer Science, Department of Molecular Biotechnology and Health Sciences, University of Torino, Italy
- 2004-2006 Lagrange Fellow of the ISI Foundation, Department of Genetics, Biology and Biochemistry, University of Torino, Italy
- 2003-2004 Researcher, Biotechnology Foundation, Torino, Italy
- 1998-2002 Post-Doctoral Fellow, Dept. of Science and Advanced Technology, University of Eastern Piedmont, Alessandria, Italy
- 1995-1997 Post-Doctoral Fellow, Dept. of Theoretical Physics, University of Torino, Italy
- 1992-1994 Post-Doctoral Fellow, Theoretical Physics Institute, University of Minnesota, Minneapolis, USA

Education

- 1992 PhD in Physics, University of Genova, Italy
- 1988 BS in Physics, University of Torino, Italy

Expertise

Transcriptional regulation: computational analysis of regulatory sequences and transcriptomics data, regulatory variation and evolution

Post-transcriptional regulation: alternative polyadenylation, regulation by microRNA, competing endogenous RNAs

Functional genomics and identification of disease genes

Identification of biomarkers from gene expression data

Analysis of Next Generation Sequencing data

Bioinformatics and statistical support to experimental labs

Data mining and machine learning on high-throughput biological data

Management of small to medium bioinformatics teams in autonomous research projects and bioinformatics support service

Computing expertise: R, Perl, C, Unix, management of complex pipelines

Consulting

2012-	San Raffaele Scientific Institute, Milano, Italy: Bioinformatics consulting
2016-	Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland: Bioinformatics consulting
2010-2015	Roche Glycart AG, Schlieren, Switzerland: Bioinformatics consulting and Statistics training
2013-2014	RBM Research Institute, Merck Group, Colleretto Giacosa, Italy: Bioinformatics consulting

Service

2015-	Scientific Director of the Genomics and Bioinformatics Torino University Service, providing bioinformatics support to experimental groups within the University of Turin and to external research institutions
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Awards and Nominations

2012	National Scientific qualification as Full Professor in Molecular Biology
2012	National Scientific qualification as Full Professor in Applied Biology

Grants

2009-2011	AIRC: "Genome-wide computational investigation of differential gene coexpression in cancer"
2013-2016	PRIN: "Role of the translational apparatus in the control of cellular growth and carcinogenesis"
2015-2018	Compagnia di San Paolo: "Regulatory variation in the human genome"

Publications

156 publications, 6478 citations, h index = 38 (source: [Scopus](#), October 3rd 2019)

SELECTED RECENT PUBLICATIONS

- 2019 Mariella E, Marotta F, Grassi E, Gilotto S, Provero P. The Length of the Expressed 3' UTR Is an Intermediate Molecular Phenotype Linking Genetic Variants to Complex Diseases. *Front Genet.* 2019;10:714.
- 2018 Bester AC, Lee JD, Chavez A, Lee YR, Nachmani D, Vora S, Victor J, Sauvageau M, Monteleone E, Rinn JL, Provero P, Church GM, Clohessy JG, Pandolfi PP. An Integrated Genome-wide CRISPRa Approach to Functionalize lncRNAs in Drug Resistance. *Cell.* 2018 Apr 19;173(3):649-664
- 2018 Marnetto D, Mantica F, Grassi E, Molineris I, Pesando I, Provero P. Evolutionary rewiring of human regulatory networks by waves of genome expansion. *Am J Hum Genet.* 2018 Feb 1;102(2):207-218.
- 2017 Grassi E, Mariella E, Forneris M, Marotta F, Catapano M, Molineris I, Provero P. A functional strategy to characterize expression Quantitative Trait Loci. *Hum Genet.* 2017 Nov;136(11-12):1477-1487.
- 2016 Grassi E, Mariella E, Lembo A, Molineris I, Provero P. Roar: detecting alternative polyadenylation with standard mRNA sequencing libraries. *BMC Bioinformatics.* 2016 Oct 18;17(1):423.
- 2014 Marnetto D, Molineris I, Grassi E, Provero P. Genome-wide identification and characterization of fixed human-specific regulatory regions. *Am J Hum Genet.* 2014 Jul 3;95(1):39-48.
- 2011 Karreth FA, Tay Y, Perna D, Ala U, Tan SM, Rust AG, DeNicola G, Webster KA, Weiss D, Perez-Mancera PA, Krauthammer M, Halaban R, Provero P, Adams DJ, Tuveson DA, Pandolfi PP. In vivo identification of tumor-suppressive PTEN ceRNAs in an oncogenic BRAF-induced mouse model of melanoma. *Cell.* 2011 Oct 14;147(2):382-95.

Teaching

- 2005- University of Torino: graduate and undergraduate courses in Computer Science, Bioinformatics, Computational Biology, Statistics
- 2002-2011 Biotechnology Foundation, Torino: graduate-level courses in Bioinformatics, Computational Biology and Statistics

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