# Francesca Persichetti

*Curriculum vitae*

## BIO AND EDUCATION

1992 Ph.D. in Medical Genetics, University Tor Vergata, Rome, Italy.

1984 B.S. in Biological Sciences cum laude, University La Sapienza, Rome, Italy.

## UNIVERSITY CAREER

| | |
|---|---|
| 2008- | Associate Professor, Università del Piemonte Orientale |
| 2003-2007 | Visiting Professor, Brain Gain Program, SISSA, Trieste |
| 1998-2003 | Instructor in Neurology, Harvard Medical School, Boston |
| 1997-2003 | Assistant in Genetics, Massachusetts General Hospital, Boston |
| 1994-1996 | Research Fellow, Massachusetts General Hospital, Boston |
| 1992-1993 | Research Fellow, Università Tor Vergata, Roma |

## MAIN FIELDS OF INTEREST

Neurodegenerative Diseases

## CURRENT ISSUES OF RESEARCH

**Genomics of neurodegenerative diseases**

My research activity aims to understand the molecular mechanisms involved in neurodegenerative diseases with special attention to Huntington's Chorea. As a general strategy to identify pharmacological treatments for these incurable diseases, my laboratory is interested in the identification of the first events in the molecular cascade of neurodegeneration. To this purpose I am studying changes in gene expression in pre-symptomatic genetic models of the disease focusing my attention on the analysis of the non-protein coding portion of the transcriptome and repetitive elements.

## CURRENT FUNDED PROJECTS

| BANDO | TITOLO DEL PROGETTO |
|---|---|
| FIRB 2011 | "Genomica funzionale delle malattie neurodegenerative" (Partner) |
| Bando Cariplo 2015 | "The role of DNA damage in normal brain ageing and pathological neurodegeneration associated with Alzheimer's disease" (Team Member)" |

## TOP FIVE PAPERS


1. Duyao MP, Auerbach AB, Ryan A, Persichetti F, Barnes GT, McNeil SM, Ge P, Vonsattel JP, Gusella JF, Joyner AL, MacDonald ME. (1995). Inactivation of the mouse Huntington's disease gene homolog (Hdh). Science 269: 407.
2. Fossale E, Wheeler VC, Vrbanac V, Lebel LA, Teed A, Mysore L, Gusella JF, MacDonald ME, Persichetti F. (2002) Identification of a presymptomatic molecular phenotype in Hdh CAG knock-in mice. Hum Mol Genet 11:2233
3. Carninci P, Sandelin A, Lenhard B, Katayama S, Shimokawa K, et al. (2006) Genome-wide analysis of mammalian promoter architecture and evolution. Nat. Genet. 38:626.
4. Carnemolla A, Fossale E, Agostoni E, Michelazzi S, Calligaris R, De Maso L, Del Sal G, MacDonald ME, Persichetti F. (2009) Rrs1 is involved in endoplasmic reticulum stress response in Huntington disease. J Biol Chem. 284:18167.
5. Agostoni E, Michelazzi S, Maurutto M, Carnemolla A, Ciani Y, Vatta P, Roncaglia P, Zucchelli S, Leanza G, Mantovani F, Gustincich S, Santoro C, Piazza S, Del Sal G, Persichetti F. (2016) Effects of Pin1 Loss in Hdh(Q111) Knock-in Mice. Front Cell Neurosci. 10:110.