Francesca Lantieri

Researcher

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Education and training

2008
Ph.D in Biostatistic
Quantitative linkage analysis applied to gene expression phenotypes
University of Genoa - Genova - IT

Academic experience

2011 - ONGOING
Assistant professor
University of Genoa - Genova - IT

Language skills

English
Proficient
Certificate in
Advanced English -
CAE (livello C1)

Teaching activity
- support to teaching since 2005/2006
- tenured the 'laurea specialistica' of the nursing school of the S. Martino since 2007/2008 to 2010/2011, and from 2012/2013
- tenured the Course in Statistics for the nursing school of the S. Martino Hospital, Galliera Inst. Hospital and the Gaslini Inst. pediatric Hospital from 2009/2010
- tenured the Course in Statistics for the sport school of Genoa from 2011/2012
- tenured the Course in Statistics for the master school of Hospital Pharmacology since 2012/2013
- tenured the Course in Statistics for the master school of Hygiene from 2013/2014 to 2015/2016
- tenured the course in advanced statistics for the 'laurea specialistica' of the nursing school of the S. Martino and Galliera Inst. Hospitals since 2018/2019
- tenured the course in statistics for the 'laurea specialistica' of the sciences of the health professions of prevention of the S. Martino and Galliera Inst.

Hospitals since 2018/2019

Research interests

My main interest is the statistical analysis of biological and medical data and in particular of genetic data.
I have collaborated with several groups for the statistical analysis.
In particular I have been studing for several years the Hirschsprung Disease (HSCR), by studying the major gene RET by association analysis and investigating now HSCR associated enterocolitis, the most severe HSCR complication, focusing in particular on whole exome sequencing.
My research studies are testified by 41 pubblications on scientific journals and three contributions in books, with more than 2000 citations and h-index 20 (google scholar):

- Murdaca G et al. Virchows Arch. 2018 May 29
- Lantieri F et al. Int J Mol Sci. 2017
- Murdaca G et al. Clin Exp Med. 2015 (cited on the cover)
- Tang CS et al. Hum Mol Genet. 2016
- Murdaca G et al. J Int Med Res. 2016
- Artom N et al. Clin Exp Hypertens. 2015
- Tristaino V et al. J Orthop Traumatol. 2015
- Fucile C et al. Med Oncol. 2015
- Murdaca G et al. J Invest Dermatol. 2014
- Fernández RM et al. Orphanet J Rare Dis. 2013
- Pini Prato A et al. Orphanet J Rare Dis. 2013
- Lantieri F et al. Int J Cancer. 2013
- Rusmini M et al. PLoS One. 2013
- Lantieri F et al. Int J Cancer. 2012
- Jannot AS et al. Eur J Hum Genet. 2012
- Murdaca G et al. Hum Immunol. 2011
- Reboa G et al. In Vivo. 2011
- Bachetti T et al. Ann Hum Genet. 2010
- Lantieri F et al. Am J Med Genet B Neuropsychiatr Genet. 2010 (cited on the cover)
- Emison ES et al. Am J Hum Genet. 2010
- Lantieri F et al. BMC Proc. 2009
- Rosso R et al. Scand J Immunol. 2010
- Tintle N et al. Genet Epidemiol. 2009
- Murdaca G et al. ,Clin Immunol. 2009
- Reboa G et al. Dis Colon Rectum. 2009
- Elia J et al. Mol Psychiatry. 2009
- Elia J et al. J Pediatr. 2009
- Elia J et al. Psychiatr Genet. 2009
- Vitale C et al. ,Eur J Neurol. 2008
- Parodi S et al. Human mutation (MIB) Hum Mutat. 2008
- Griseri P et al. Hum Mutat. 2007
- Amiel J et al. J Med Genet 2007
- Murdaca G et al. Hum Immunol. 2007
- Lantieri F et al. BMC Proceedings 2007

- Wijsman EM et al. Genet Epidemiol. 2007
- Lantieri F et al. Annals of Human Genetics 2006
- Lantieri F et al. Annals of Medicine 2006
- Griseri P et al. Human Mutation 2005
- Pastorino L et al. Human Mutation on line -Mutation in Brief 2004
- Mantelli M et al. American Journal of Medical Genetics 2002
- Della Torre G et al. British Journal of Cancer 2001

Grants

2004 - 2007

Pathogenetic mechanisms underlying two inherited disorders of neural crest development Hirschsprungs Disease and Congenital Central Hypoventilation Syndrome

Telethon

Progetto di ricerca Telethon 2004 (GGP04257) - Participant
principal investigator Dott. Isabella Ceccherini, laboratory of Genetica Molecolare of the Istituto Gaslini, Genova.
Collaborated in particular for the statistical analysis of the genetic data.

2007 - 2010

International Hirschsprung Disease Consortium

E-Rare 2007

Participant
principal investigator Prof. Stanislas Lyonnet, Inserm, U. 781, Hôpital Necker-Enfants Malades, Tour Lavoisier, 149, rue de Sèvres.
Collaborated in particular for the statistical analysis of the genetic data.

2013 - 2015

Post-transcriptional control of RET gene expression implication in thyroid cancer

AIRC

AIRC 2012 - Participant
principal investigator Dott. Isabella Ceccherini, laboratory of Genetica Molecolare of the Istituto Gaslini, Genova.
Collaborated in particular for the statistical analysis of the genetic data.

2014 - 2018

'Interactions of genotype phenotype local immune system and microbiologic environment in the pathogenesis of Hirschsprung's disease associated enterocolitis

Italian Health Ministery - IT

GR-2011-02347381 - Participant
coordinator PI of three subunits: Dr. Alessio Pini Prato. I am partecipating as PI for the University of Genoa subunit, focusing on the search of genetics factor underlying Hirschsprung's disease associated enterocolitis

Assigments abroad

Nemours Children's Clinic di Wilmington, DE, USA,to reconstruct haplotypes by bioninfromatic means. Granted by "Consorzio Interuniversitario per le Biotecnologie (C.I.B.)": "Contributi per attività di formazione in biotecnologie (I° Bando 2003)" (Lantieri et al., Ann Hum Genet 2016)
from Sept. 2003 to Dec. 2003

One month in USA, Baltimore (Johns Hopkins University, under invitation of Prof. Aravinda Chakravarti) and Philadelphia (The Children's Hospital of Philadelphia, under invitation of Prof. Marcella Devoto), to analyse the results obtained in the ambit of the International HSCR Consortium, granted by "Fondazione CARIGE" (Emison et al., Am J Hum Genet. 2010)
from Sept. 2004 to Oct. 2004

Children's Hospital of Philadelphia (CHOP), Division of Human Genetics, Philadelphia, PA, USA, under the supervision of Prof. Marcella Devoto to study the effect of natural selection on the RET gene, granted by Boehringer Ingelheim Fonds.
from May 2006 to Aug. 2006

Post Doc research scholar at the Children's Hospital of Philadelphia (CHOP), USA for a "genome-wide association study" on the Attention Deficit and Hyperactivity Deficit (ADHD), PI Dr. Josephine Elia, Department of Child and Adolescent Psychiatry (Elia et al., Psychiatr Genet. 2009; Elia et al., J Pediatr. 2009; Elia et al., Mol Psychiatry. 2010; Tintle et al., Genet Epidemiol. 2009; Lantieri et al., BMC Proc. 2009; Lantieri et al., Am J Med Genet B Neuropsychiatr Genet. 2010; and Attention-deficit hyperactivity disorder. Elia et al. From "Principles of Psychiatric Genetics", eds Jhon I Nurnberger, Jr and Wade H Berrettini. Published by Cambridge University Press 2012)