

Brief CV – Prof. Luisa Bernardinelli

Prof. Luisa Bernardinelli was born in Casalpusterlengo (Milan, Italy) on 15 February 1955.

Laura- Year and Institution

Degree in Biological Sciences - University of Pavia (1978)

Other degrees

Post-graduate in Medical Statistics, University of Pavia: 50/50 summa cum laude (1983)

Present position - Name and address of employer

Since 2003 Full Professor of Medical Statistics - Faculty of Medicine and Surgery, University of Pavia

Since 2010 Head of Medical and Genomics Statistics Unit, Dept. of Brain and Behavioral Sciences, University of Pavia

Since 2013 Visiting Professor in Biostatistics, University of Manchester

Since 2012 Coordinator of the 2nd level postgraduate course in Medical Statistics and Genomics, Genomic Data Science

Since 2014-2010 member of Scuola di Alta Formazione Dottorale, University of Pavia

Previous positions - Name and address of employer

1983-1987: Adjunct Professor of Medical Statistics at the Specialization School in Sanitary Statistics- University of Pavia.

1988-1993: Associated Professor of Medical Statistics, Faculty of Medicine and Surgery-University of Sassari.

1993-2000: Associated Professor of Medical Statistics, Faculty of Medicine and Surgery-University of Pavia.

2001-2003: Adjunct Professor of Medical Statistics, Faculty of Medicine and Surgery-University of Pavia

2001-2007: visiting professor at the MRC Biostatistics Unit, Cambridge, UK

2007-2017: visiting professor at the Statistical Laboratory of the Centre of Mathematical Sciences, University of Cambridge, UK

Additional information: scientific activity, research experience, prizes, patents etc.

Her research activities involve:

STATISTICAL METHODOLOGY. Bayesian analysis of the geographical variation of the disease risk in space and time; Monte Carlo methods; graphical models; Bayesian estimates and their use in descriptive epidemiology; measurement errors in the covariates in ecological studies; development and application of statistical methods in genetic epidemiology: analysis of the association in presence of measurement error, incomplete data both in familiar studies and in case-control studies. Analysis of microarray, methylation and proteomic data. Analysis of pedigree data. Causal inference, joint analysis of genetic and gene expression data to identify genes causally related to Multiple Sclerosis. Analysis of next generation sequencing data. Identification of biomarkers in plasma of Multiple Sclerosis patients.

EPIDEMIOLOGICAL INVESTIGATION. Cancer epidemiology in Sardinia; epidemiology of mellitus insulin-dependent diabetes in Sardinia; epidemiology of multiple sclerosis in Sardinia; epidemiology of enuresis in schoolchildren. Geographical distribution of HLA using records of bone marrow donors in Lombardy; evaluation of social and welfare needs in patients suffering from multiple sclerosis. Association studies between candidate polymorphisms, type 2 diabetes and early myocardial infarction. Cancer genetics. Genetic epidemiology of Inflammatory Bowel Disease. The causal direct effect of FTO on susceptibility to myocardial infarction. Identification of susceptibility genes of multiple sclerosis in the Nuoro province. Investigation of the biological function of ACCN1 and multiple sclerosis. Identification of causal biomarkers in multiple sclerosis via a Mendelian Randomization approach. The experience and interest in causal inference emerges from the organization of Workshops and Courses on causal inference to being one of the editor of the book CAUSALITY: STATISTICAL PERSPECTIVES AND APPLICATIONS. Wiley, 2011. Her scientific interest to mindfulness-based meditation approach has led to the organization of the workshop Scienza e meditazione held in Pavia, 9-10 October 2016. The workshop illustrated the evidence, the scientific methods and the different interpretations of meditation, plus practical sessions conducted by an expert meditator. She also organized for PhD students the intensive course (theory and practice) in Neuroscience of Meditation. She has been coordinated for the last 4 years of a project aimed at evaluating the causal effect of meditation on mental and physical well-being. The project is ongoing and present on the crowdfunding platform UNIVERSITIAMO of the University of Pavia.

She is currently collaborating in projects aimed at evaluating the effect of nutraceutical product in obesity. She is currently working on COVID-19 for investigating the beneficial role of renin-aldosterone system inhibitor antihypertensives in Covid-19 patients (with impactful implications on therapeutic practice. Equally important results has obtained (in collaboration with Andy Vail of the Manchester University) from UK Covid-19 data.

Collaborations with international consortium:

- MolPAGE, Molecular Phenotyping to Accelerate Genomic Epidemiology
- IMSGC, International Multiple Sclerosis Genetic Consortium
- TAG, Tobacco and Genetics Consortium
- MIGC, Myocardial Infarction Genetics Consortium
- MIMOmics, Methods for Integrated analysis of Multiple Omics datasets

Past and Present International Research Collaborations:

- Department of Statistics, University of Oxford, Oxford, UK
- Department of Clinical Neurosciences, University of Cambridge
- School of Biological Science, University of East Anglia
- Carver College of Medicine, University of Iowa, USA
- Ghent University, Department of Applied Mathematics and Computer Science, Belgium
- LUMC, Leiden, NL
- KTH Royal Institute of Technology Stockholm, SE
- Human Genetics, The Wellcome Trust SANGER Institute, Hinxton, UK
- European Bioinformatics Institute, The Wellcome Trust SANGER Institute, Hinxton KBioscience, UK
- University of Miami, Hussman Institute for Human Genomics, US
- Institute of Population Health, Center of Biostatistics, University of Manchester
- King's College London
- Center of Biostatistics, University of Manchester, UK
- Ann Romney Center for Neurologic Diseases, Brigham and Women's Hospital, Harvard Medical School, USA

National Research Collaborations:

- ASL Nuoro, Centro di Tipizzazione
- ASL Nuoro, Divisione di Neurologia
- Università degli Studi di Milano
- Dipartimento di Discipline Odontostomatologiche, Università di Pavia
- Neuromed, Istituto Neurologico Mediterraneo
- Istituto Auxologico Italiano

Recent Post-graduate courses organized:

- International Master in Genetic Epidemiology of the European School in Molecular Medicine and Genetic Epidemiology of the Istituto Universitario Superiore di Pavia, 1998-2003.
- Specialization School in Medical Statistics – Course in Genetic Epidemiology, 2003-2010
- Design & Analysis of Genetic-based Association Studies, June 23-27, 2008
- MolPAGE Training Program:
 - a) Statistical Genetics with Mendel, July 4-8, 2005
 - b) Statistical Analysis of Genetic and Gene Expression, March 20-24, 2006
 - c) Statistical Analysis of Metabonomic and Proteomic, March 26-30, 2007
 - d) Causal Inference, May 19-21, 2008
 - e) Causal Inference: State-of-the-Art, March 16-18, 2009
- 2nd level Master in Molecular and Genetic Epidemiology, 2011, 2012.
- 2nd level Master in Statistics in Medicine and in Genomics, 2013-2015
- 2nd level Master in Statistics in Medicine and in Genomics, 2014-2016
- Workshop Scienza e Meditazione, Pavia, 9-10 Ottobre 2015

- 2nd level Master in Statistics in Medicine and in Genomics, 2015-2017
- 2nd level Master in Genomic Data Science, 2018-
- f) Intensive School for Graduate Studies: Machine Learning and its applications to Genomics, Chemistry and Neuroscience, 2020

List of publications:

Mariangela Rondanelli, Antonella Riva, Giovanna Petrangolini, Pietro Allegrini, Luisa Bernardinelli, Teresa Fazia, Gabriella Peroni, Clara Gasparri, Mara Nichetti, Milena Anna Faliva, Maurizio Naso, Simone Perna. Nutrients. The Metabolic Effects of Cynara Supplementation in Overweight and Obese Class I Subjects with Newly Detected Impaired Fasting Glycemia: A Double-Blind, Placebo-Controlled, Randomized Clinical Trial 2020 Nov; 12(11): 3298. Published online 2020 Oct 28. doi: 10.3390/nu12113298 PMID: PMC7693737

Elena Spada, Luciano Calzari, Luigi Corsaro, Teresa Fazia, Monica Mencarelli, Anna Maria Di Blasio, Luisa Bernardinelli, Giulia Zangheri, Michele Vignali, Davide Gentilini. Epigenome Wide Association and Stochastic Epigenetic Mutation Analysis on Cord Blood of Preterm Birth Int J Mol Sci. 2020 Jul; 21(14): 5044. Published online 2020 Jul 17. doi: 10.3390/ijms21145044 PMID: PMC7403978.

Gerardo Salvato, Maria Laura Fiorina, Gabriele De Maio, Elisa Francescon, Daniela Ovadia, Luisa Bernardinelli, Amedeo Santosuosso, Eraldo Paulesu, Gabriella Bottini. Pathological risk-propensity typifies Mafia members' cognitive profile Sci Rep. 2020; 10: 8559. Published online 2020 May 22. doi: 10.1038/s41598-020-65486-z PMID: PMC7244520

Mariangela Rondanelli, Antonella Riva, Pietro Allegrini, Milena Anna Faliva, Maurizio Naso, Gabriella Peroni, Mara Nichetti, Clara Gasparri, Daniele Spadaccini, Giancarlo Iannello, Vittoria Infantino, Teresa Fazia, Luisa Bernardinelli, Simone Perna. The Use of a New Food-Grade Lecithin Formulation of Highly Standardized Ginger (*Zingiber officinale*) and *Acmella oleracea* Extracts for the Treatment of Pain and Inflammation in a Group of Subjects with Moderate Knee Osteoarthritis J Pain Res. 2020; 13: 761–770. Published online 2020 Apr 21. doi: 10.2147/JPR.S214488 PMID: PMC7183537

Maria Francesca Sfondrini, Vittorio Collesano, Gaia Tovt, Luisa Bernardinelli, Paola Gandini. Dental Hygiene and Orthodontics: Effect of Ultrasonic Instrumentation on Bonding Efficacy of Different Lingual Orthodontic Brackets Andrea Scribante, Biomed Res Int. 2017; 2017: 3714651. Published online 2017 Aug 17. doi: 10.1155/2017/3714651 PMID: PMC5585592

Attilio Giacosa, Antonella Riva, Giovanna Petrangolini, Pietro Allegrini, Teresa Fazia, Luisa Bernardinelli, Clara Gasparri, Milena Anna Faliva, Gabriella Peroni, Simone Perna, Mariangela Rondanelli. Symptomatic uncomplicated diverticular disease management: an innovative food-grade formulation of *Curcuma longa* and *Boswellia serrata* extracts Drugs Context. 2020; 9: 2020-9-2. Published online 2020 Dec 14. doi: 10.7573/dic.2020-9-2 PMID: PMC7747791.

Teresa Fazia, Francesco Bubbico, Gerardo Salvato, Giovanni Berzuini, Salvatore Bruno, Gabriella Bottini, Luisa Bernardinelli. Boosting Psychological Well-Being through a Social Mindfulness-Based Intervention in the General Population Int J Environ Res Public Health. 2020 Nov; 17(22): 8404. Published online 2020 Nov 13. doi: 10.3390/ijerph17228404 PMID: PMC7697027.

Teresa Fazia, Francesco Bubbico, Ioannis Iliakis. Short-Term Meditation Training Fosters Mindfulness and Emotion Regulation: A Pilot Study, Gerardo Salvato, Giovanni Berzuini, Salvatore Bruno, Luisa Bernardinelli Front Psychol. 2020; 11: 558803. Published online 2020 Oct 26. doi: 10.3389/fpsyg.2020.558803 PMID: PMC7649763.

Carlo Berzuini, Cathal Hannan, Andrew King, Andy Vail, Claire O'Leary, David Brough, James Galea, Kayode Ogunbenro, Megan Wright, Omar Pathmanaban, Sharon Hulme, Stuart Allan, Luisa Bernardinelli, Hiren C Patel. Value of dynamic clinical and biomarker data for mortality risk prediction in COVID-19: a multicentre

retrospective cohort study *BMJ Open*. 2020; 10(9): e041983. Published online 2020 Sep 23.
doi: 10.1136/bmjopen-2020-041983 PMID: PMC7513423

Teresa Fazia, Andrea Nova, Davide Gentilini, Ashley Beecham, Marialuisa Piras, Valeria Saddi, Anna Ticca, Pierpaolo Bitti, Jacob L. McCauley, Carlo Berzuini, Luisa Bernardinelli Investigating the Causal Effect of Brain Expression of CCL2, NFKB1, MAPK14, TNFRSF1A, CXCL10 Genes on Multiple Sclerosis: A Two-Sample Mendelian Randomization Approach *Front Bioeng Biotechnol*. 2020; 8: 397. Published online 2020 May 5.
doi: 10.3389/fbioe.2020.00397 PMID: PMC7216783

Maria Francesca Sfondrini, Lorenzo Preda, Fabrizio Calliada, Lorenzo Carbone, Luca Lungarotti, Luisa Bernardinelli, Paola Gandini, Andrea Scribante Magnetic Resonance Imaging and Its Effects on Metallic Brackets and Wires: Does It Alter the Temperature and Bonding Efficacy of Orthodontic Devices? *Materials (Basel)* 2019 Dec; 12(23): 3971. Published online 2019 Nov 30. doi: 10.3390/ma12233971 PMID: PMC6926903

Davide Gentilini, Antonino Oliveri, Teresa Fazia, Alessandro Pini, Susan Marelli, Luisa Bernardinelli, Anna Maria Di Blasio NGS analysis in Marfan syndrome spectrum: Combination of rare and common genetic variants to improve genotype-phenotype correlation analysis. *PLoS One*. 2019; 14(9): e0222506. Published online 2019 Sep 19. doi: 10.1371/journal.pone.0222506 PMID: PMC6752800

Teresa Fazia, Roberta Pastorino, Serena Notartomaso, Carla Busceti, Tiziana Imbriglio, Milena Cannella, Davide Gentilini, Gabriele Morani, Anna Ticca, Pierpaolo Bitti, Carlo Berzuini, Tamas Dalmay, Giuseppe Battaglia, Luisa Bernardinelli Acid sensing ion channel 2: A new potential player in the pathophysiology of multiple sclerosis *Eur J Neurosci*. 2019 May; 49(10): 1233–1243. Published online 2019 Feb 19.
doi: 10.1111/ejn.14302 PMID: PMC6618268

Rondanelli M., Castellazzi A.M., Riva A., Allegrini P., Faliva M.A., Peroni G., Naso M., Nichetti M., Tagliacarne C., Valsecchi C., Fazia T., Perna S., Graziano F., Grassi M., Bernardinelli L., Natural Killer Response and Lipid-Metabolic Profile in Adults with Low HDL-Cholesterol and Mild Hypercholesterolemia: Beneficial Effects of Artichoke Leaf Extract Supplementation, 2019, Evidence-based Complementary and Alternative Medicine, doi:10.1155/2019/2069701

Fazia T., Pastorino R., Foco L., Han L., Abney M., Beecham A., Hadjixenofontos A., Guo H., Gentilini D., Papachristou C., Bitti P.P., Ticca A., Berzuini C., McCauley J.L., Bernardinelli L., Investigating multiple sclerosis genetic susceptibility on the founder population of east-central Sardinia via association and linkage analysis of immune-related loci, 2018, Multiple Sclerosis. Journal, doi:10.1177/1352458517732841

Mitrovič M., Patsopoulos N.A., Beecham A.H., Dankowski T., Goris A., Dubois B., D'hooghe M.B., Lemmens R., Van Damme P., Søndergaard H.B., Sellebjerg F., Sorensen P.S., Ullum H., Thørner L.W., Werge T., Saarela J., Courmu-Rebeix I., Damotte V., Fontaine B., Guillot-Noel L., Lathrop M., Vukusik S., Gourraud P.-A., Andlauer T.F.M., Pongratz V., Buck D., Gasperi C., Bayas A., Heesen C., Kümpfel T., Linker R., Paul F., Stangel M., Tackenberg B., Bergh F.T., Warnke C., Wiendl H., Wildemann B., Zettl U., Ziemann U., Tumani H., Gold R., Grummel V., Hemmer B., Knier B., Lill C.M., Luessi F., Dardiotis E., Agliardi C., Barizzone N., Mascia E., Bernardinelli L., Comi G., Cusi D., Esposito F., Ferrè L., Comi C., Galimberti D., Leone M.A., Sorosina M., Mescheriakova J., Hintzen R., van Duijn C., Theunissen C.E., Bos S.D., Myhr K.-M., Celius E.G., Lie B.A., Spurkland A., Comabella M., Montalban X., Alfredsson L., Stridh P., Hillert J., Jagodic M., Piehl F., Jelčić I., Martin R., Sospedra M., Ban M., Hawkins C., Hysi P., Kalra S., Karpe F., Khadake J., Lachance G., Neville M., Santaniello A., Caillier S.J., Calabresi P.A., Cree B.A.C., Cross A., Davis M.F., Haines J.L., de Bakker P.I.W., Delgado S., Dembele M., Edwards K., Fitzgerald K.C., Hakonarson H., Konidari I., Lathi E., Manrique C.P., Pericak-Vance M.A., Piccio L., Schaefer C., McCabe C., Weiner H., Goldstein J., Olsson T., Hadjigeorgiou G., Taylor B., Tajouri L., Charlesworth J., Booth D.R., Harbo H.F., Ivinson A.J., Hauser S.L., Compston A., Stewart G., Zipp F., Barcellos L.F., Baranzini S.E., Martinelli-Boneschi F., D'Alfonso S., Ziegler A., Oturai A., McCauley J.L., Sawcer S.J., Oksenberg J.R., De Jager P.L., Kockum I., Hafler D.A., Cotsapas C., International Multiple Sclerosis Genetics Consortium, Low-Frequency and Rare-Coding Variation Contributes to Multiple Sclerosis Risk, 2018, Cell, doi:10.1016/j.cell.2018.09.049

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Fazia T., Pastorino R., Notartomaso S., Busceti C., Imbriglio T., Cannella M., Gentilini D., Morani G., Ticca A., Bitti P., Berzuini C., Dalmay T., Battaglia G., Bernardinelli L., Acid sensing ion channel 2: A new potential player in the pathophysiology of multiple sclerosis, 2018, European Journal of Neuroscience, doi:10.1111/ejn.14302

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Scribante A., Sfondrini M.F., Collesano V., Tovt G., Bernardinelli L., Gandini P., Dental Hygiene and Orthodontics: Effect of Ultrasonic Instrumentation on Bonding Efficacy of Different Lingual Orthodontic Brackets, 2017, BioMed Research International, doi:10.1155/2017/3714651

Antel J., Ban M., Baranzini S., Barcellos L., Barizzone N., Beecham A., Berge T., Bernardinelli L., Booth D., Bos S., Buck D., Butkiewicz M., Celius E.G., Comabella M., Compston A., Dedham K., Cotsapas C., D'Alfonso S., De Jager P., Dubois B., Duquette P., Fontaine B., Gasperi C., Gil E., Goris A., Gourraud P.A., Graetz C., Gyllenberg A., Hadjigeorgiou G., Hafler D., Hribko D., Haines J., Harbo H., Hauser S., Wardo S., Hawkins C., Hemmer B., Henry R., Hintzen R., Horakova D., Ivinson A., Howard M., Jelcic I., Kaskow B., Kira J.-I., Kleinova P., Kockum I., Kucerova K., Lill C., Luessi F., Malhotra S., Martin R., Martinelli F., Matsushita T., McCabe C., McCauley J., Mescheriakova J., Mitrovic M., Moen S.-M., Montalban X., Muhlau M., Nakamura Y., Oksenberg J., Olsson T., Oturai A., Palotie A., Patsopoulos N., Pavlicova J., Pericak-Vance P., Piehl F., Rebeix I., Rioux J., Saarela J., Sawcer S., Sellebjerg F., Sondergaard H.B., Sorensen P.S., Sospedra M., Spurkland A., Stewart G., Taylor B., Uitterlinden A., Van Duijn C., Zipp F., NR1H3 p.Arg415Gln Is Not Associated to Multiple Sclerosis Risk, 2016, Neuron, doi:10.1016/j.neuron.2016.09.052

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