

CURRICULUM VITAE

Date of Revision: December 3, 2024

Name: Renato Polimanti, Ph.D.

Appointment: Associate Professor, Department of Psychiatry, Traditional track, with secondary appointments in the Department of Epidemiology (Chronic Diseases) and the Department of Biomedical Informatics & Data Science

School: Yale School of Medicine; Yale School of Public Health

Education:

B.S. University of Rome “Tor Vergata” (Human Biology) 2008

M.S. University of Rome “Tor Vergata” (Human Evolutionary Biology) 2009

Ph.D. University of Rome “Tor Vergata” (Evolutionary Biology) 2013

Career/Academic Appointments:

2013-2016 Postdoctoral Associate in Psychiatry, Yale University School of Medicine, New Haven, CT

2016-2017 Associate Research Scientist in Psychiatry, Yale University School of Medicine, New Haven, CT

2017-2022 Assistant Professor of Psychiatry, Yale University School of Medicine, New Haven, CT

2022-present Associate Professor of Psychiatry, Yale University School of Medicine, New Haven, CT

2023-present Associate Professor of Epidemiology (Chronic Diseases), Yale University School of Public Health, New Haven, CT

2023-present Associate Center Director for Scientific and Technical Operations, Veterans Affairs Cooperative Study Program – Clinical Epidemiology Research Center, West Haven, CT

2024-present Associate Professor of Biomedical Informatics & Data Science, Yale University School of Medicine, New Haven, CT

Administrative Positions:

2023-present Member, MD-PhD Admissions Committee, Yale School of Medicine, New Haven, CT

2023-present Member, Informatics Services Advisory Group, Yale Center of Clinical Investigation, New Haven, CT

International/National/Regional Honors & Recognition

2019: Department of Veteran Affairs’ Million Veteran Program, Early Career Investigator Award

2018: Genes, Young Investigator Award

2018 National Institute on Drug Abuse, Startup Challenge Award

2016: International Society of Psychiatric Genetics, Early-Career Investigator Travel Award

2016: Society of Biological Psychiatry, Early-Career Investigator Travel Award

2016: International Journal of Molecular Sciences, Junior Scientist Travel Award

2012: Italian Federation of Clinical Associations of Internal Medicine, “Serafino Mansueto” Award

2011: Italian Society of Arterial Hypertension, Best Poster

2011: International Society of Applied Biological Sciences, Young Investigator Award

2011: Italian Federation of Clinical Associations of Internal Medicine, Oral presentation in FADOI awards session

2009: Society for the Study of Human Biology, Best Student Poster

Grant History:

Current Grants

Agency: Department of Veterans Affairs

ID#: VA Cooperative Study #2006

Genomics of Gulf War illness in veterans

Role on Project: Yale Lead Investigator

Percent Effort: 20%

Direct costs per year: \$283,045 (budget allocated to Dr. Polimanti's group)

Total costs for project period: \$283,045 (budget allocated to Dr. Polimanti's group)

Project period: 10/01/24 – 09/30/25 (Renewed yearly depending on the federal budget allocated)

Agency: National Institute on Drug Abuse

ID#: R33 DA047527

Investigating the Systems Genetics of the Patterns of Polysubstance Abuse and Addiction

Role on Project: PI

Percent Effort: 21%

Direct costs per year: \$543,515

Total costs for project period: \$1,975,165

Project period: 03/15/21 – 01/31/25

Agency: National Institute on Drug Abuse

ID#: R01 DA054869 (MPIs: Agrawal A, Edenberg H, Gelernter J)

Psychiatric Genomics Consortium: Advancing Discovery and Impact

Role: Co-Investigator

Percent Effort: 15%

Direct costs per year: \$563,528

Total costs for project period: \$ 3,508,320

Project period: 04/01/21 – 01/31/26

Agency: National Institute on Alcohol Abuse and Alcoholism

ID#: P50 AA012870 (PI: Gelernter J)

Center for the Translational Neuroscience of Alcoholism - Translational Technologies Core

Role: Co-Investigator

Percent Effort: 3%

Direct costs per year: \$135,394

Total costs for project period: \$1,133,920

Project period: 06/01/2001 – 05/31/2026

Agency: One Mind

ID#: Rising Star Grant

Integrating trait-specific design and multi-omics information to increase the portability of polygenic risk scoring across internalizing disorders

Role on Project: PI

Percent Effort: 8%

Direct costs per year: \$90,909

Total costs for project period: \$300,000

Project period: 12/15/21 – 12/31/24

Agency: National Institute on Mental Health

ID#: RF1 MH132337

Leveraging genomic data to dissect the association of internalizing disorders with the risk, onset, and vulnerability of COVID-19

Role on Project: PI

Percent Effort: 18%

Direct costs per year: \$735,268

Total costs for project period: \$3,694,722

Project period: 09/1/2022 - 08/31/2025

Agency: National Institute on Drug Abuse

ID#: R01 DA037974 (MPIs: Gelernter J, Potenza M)

Methamphetamine and Other Substance Use Disorder Genetics in Thailand

Role: Co-Investigator

Percent Effort: 5%

Direct costs per year: \$615,454

Total costs for project period: \$3,889,614

Project period: 08/01/2023 - 04/30/2028

Agency: National Institute on Mental Health

ID#: R01 MH133728 (MPIs: Gelernter J, Stein M)

Expanding Genetic Understanding of Depression, Anxiety, and their Treatments

Role on Project: Co-Investigator

Percent Effort: 5%

Direct costs per year: \$596,957

Total costs for project period: \$3,505,451

Project period: 08/01/2024 - 07/31/2029

Agency: Yale Center for the Science of Cannabis and Cannabinoids

ID#: Pilot Award

Expanding Genetic Understanding of Depression, Anxiety, and their Treatments

Role on Project: PI

Percent Effort: 8%

Direct costs per year: \$49,994

Total costs for project period: \$99,996

Project period: 12/01/2024 - 11/30/2026

Completed Grants as PI

Agency: Brain & Behavior Research Foundation

ID#: NARSAD Young Investigator Grant

Evolutionary Exploration of Systems Genetics of Mental Illnesses

Role on Project: PI

Total costs for project period: \$70,000

Project period: 01/15/2016 – 01/14/2018

Agency: American Foundation for Suicide Prevention

ID#: Young Investigator Grant

Genome-wide investigation of suicide behaviors in the context of substance dependence

Role on Project: PI

Total costs for project period: \$85,000

Project period: 10/1/17 – 09/30/19

Agency: Simons Foundation Autism Research Initiative

ID#: Explorer Grant

Cognitive and Brain Imaging Study of Autism Spectrum Disorder Risk Alleles Under Positive Selection in Affected and Unaffected individuals

Role on Project: PI

Total costs for project period: \$70,000

Project period: 10/1/17 – 09/30/19

Agency: Pfizer Inc

ID#: Global ASPIRE Grant

Epigenome-wide investigation of medical history in TTR Val122Ile African American carriers

Role on Project: PI

Total costs for project period: \$49,955

Project period: 09/25/18-12/31/19

Agency: VA National Center for PTSD

ID#: Supplement

Genome-wide investigation of suicide behaviors in the context of posttraumatic stress

Role on Project: PI

Total costs for project period: \$50,000

Project period: 05/1/19 – 04/30/20

Agency: National Institute on Drug Abuse

ID#: R21 DA047527

Investigating the Systems Genetics of the Patterns of Polysubstance Abuse and Addiction

Role on Project: PI

Total costs for project period: \$373,578

Project period: 02/15/19 – 01/31/21

Agency: Amyloidosis Foundation

ID#: Research Grant

Dissecting the Role of the Genetically-Determined TTR Transcriptomic Profile Across Human Tissues on Physical and Mental Outcomes Related to Systemic Senile Amyloidosis

Role on Project: PI

Total costs for project period: \$49,926

Project period: 01/1/20 – 06/30/21

Agency: National Institute on Deafness and Other Communication Disorders

ID#: R21 DC018098

Genome-wide Investigation of the Interplay Between Age-Related Hearing Loss and Smoking Behaviors

Role on Project: PI

Total costs for project period: \$431,820

Project period: 09/1/19 – 08/31/23

Agency: Alkermes

ID#: Pathway Research Grant

The impact of socioeconomic factors on psychiatric and somatic comorbidities of schizophrenia: a genetically-informed epidemiological study

Role on Project: PI

Total costs for project period: \$99,995

Project period: 06/1/2022 - 05/31/2024

Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated with Yale:

International/National Presentations (these include only those presented by Dr. Polimanti)

- 2024: International Workshop on Neural Plasticity and Connectivity – The Evolutionary Side of the Story: “Evolutionary History in the Context of Human Health” [Invited Talk]
- 2024: Virginia Institute of Psychiatric and Behavioral Genetics: “Understanding Biology and Epidemiology of Psychiatric Disorders through Genome-wide Association Studies” [Invited Talk]
- 2024: Towards a New Science of Mental Disorders: Bridging Evolution and Genetics Workshop: “Purifying selection and diagnostic heterogeneity contribute to the polygenic architecture of psychiatric disorders” [Invited Talk]
- 2024: Department of Psychiatry and Behavioral Sciences, UTHealth Houston: “Applying Big Data Analytics to Biology and Epidemiology of Psychiatric Disorders and Symptoms” [Invited Talk]
- 2023: Astar Education Institute: “Translating Genetics into Psychiatry” [Invited Talk]
- 2023: Structural and Functional Biology Postgraduate Program, Federal University of São Paulo: “Genetically informed causal inference analyses in psychiatry: Mendelian randomization and other methods” [Invited Talk]
- 2023: Department of Medical Genetics and Development, University of Geneva: “Leveraging Genome-wide Data to Investigate the Biology and the Epidemiology of Human Traits and Diseases” [Invited Talk]
- 2022: Alkermes 4th Annual Pathways Research Awards Symposium: “The impact of socioeconomic factors on psychiatric and somatic comorbidities of schizophrenia: a genetically-informed epidemiological study” [Invited Talk]
- 2022: NYC Italian Culture Institute: “Human Evolution and Genetic Diversity in the Context of Health and Disease” [Invited Talk]
- 2022: VA Advanced Fellowship Program in Mental Illness Research and Treatment: “Leveraging the Million Veteran Program to Investigate the Genetics of Outcomes Affecting Veterans’ Health: Psychiatric Disorders and Gulf War Illness” [Invited Talk]
- 2022: Vanderbilt University Genetics Institute: “Applying Big Data Analytics to Dissect the Complex Genotype-Phenotype Correlation of Transthyretin Amyloidosis in Diverse Populations” [Invited Talk]
- 2021: Posttraumatic Stress Disorders Health Research Meeting, Harvard T.H. Chan School of Public Health: “Understanding the dynamics linking posttraumatic stress severity and coronary artery disease using genome-wide information and electronic health records” [Invited Talk]
- 2021: XVI Annual Conference of the Italian Association for Dementias: “Polygenic Risk Scores: Translating Genetic Associations into Clinical Tools” [Invited Talk]

- 2021: Boston University Biomedical Genetics Seminar: “Investigating Polygenicity and Pleiotropy across Human Phenotypic Spectrum” [Invited Talk]
- 2021: International Symposium on Host genetic response in COVID pandemic times: A boon or a bane: “Genome-wide and Multi-Omics Analyses to Disentangle the Biology and the Epidemiology of COVID-19” [Invited Talk]
- 2021: 27th Music Festival for Brain Health: “Integrating trait-specific design and multi-omics information to increase the portability of polygenic risk scoring across internalizing disorders” [Invited Talk]
- 2020: Regeneron Pharmaceuticals, Genetics Center: “From Polygenic Traits to Monogenic Disorders: Leveraging Genome-wide Data to Investigate the Human Phenotypic Spectrum” [Invited Talk]
- 2019: Department of Psychiatry Special Seminar, University of California San Diego: “Gene Discovery, Pleiotropy, and Casual Inference in Psychiatric Genetics” [Invited Talk]
- 2018: Transformative Training Program in Addiction Science Seminar Serie, Boston University School of Medicine: “Alcohol and Tobacco Use Disorders: from the Genome to the Microbiome” [Invited Talk]
- 2017: The 31st New England Statistics Symposium: “Resources to Investigate the Genetic Architecture of Complex Traits: Large-Scale Datasets and Summary Association Data” [Invited Talk]
- 2014: University of Rome “Tor Vergata” seminar: “Dissecting ancestry genomic background as confounder in drug addiction GWAS” [Invited Talk]
- 2013: Clinical Medical School of Latium seminar, “TTR-related amyloidosis: genetic research of prognostic tools” [Invited Talk]
- 2013: Research Center for Molecular Medicine of the Austrian Academy of Sciences, “The evolution of pharmacogenes in worldwide populations and its application to human health” [Invited Talk]

Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated with Yale:

International/National Symposia Organized as Chair

- 2023: 2023 World Congress of Psychiatric Genetics. October 2023. Montreal, Canada. “Exploring the Impact of Socioeconomic Factors on Psychiatric Genetics and Epigenetics”
- 2022: Annual Meeting of the American Society of Human Genetics. October 2022. Los Angeles CA, United States. “Ascertainment, Phenotyping, and Population Structure in Human Genetic Research”
- 2022: 2022 World Congress of Psychiatric Genetics. September 2022. Florence, Italy. “Genetics of Posttraumatic Stress Disorders: Increasing Diversity, Improving Phenotyping, and Exploring Trauma Psychopathology”
- 2021: 2021 World Congress of Psychiatric Genetics. Virtual Meeting. “Mental Health Phenotyping for Genetic Studies”
- 2020: 2020 World Congress of Psychiatric Genetics. October 2020. Virtual Meeting. “Moving the Investigation of the Psychopathology Spectrum from Genetics to Multi-Omics”
- 2020: 2020 World Congress of Psychiatric Genetics. October 2020. Virtual Meeting. “Understanding the Biology of Posttraumatic Stress Disorder: Genome-wide Association Studies, Phenotyping Strategies, Multivariate Gene-Environment Interactions, and Translational Research”
- 2019: 74th Annual Scientific Meeting of the Society of Biological Psychiatry. May 2019. Chicago IL, United States. “What’s next in the genomics of posttraumatic stress disorder: developing applications to investigate hundreds of thousands of individuals”

- 2019: 2019 World Congress of Psychiatric Genetics. October 2019. Anaheim CA, United States. “Genetic Overlap and Causation: Reconceptualizing Links Between Mental and Physical Health”

International/National Presentations (these include only those presented by Dr. Polimanti)

- 2023: 2023 World Congress of Psychiatric Genetics. October 2023. Montreal, Canada. “Genetic contribution to the overlap between ADHD and substance use disorders”
- 2023: Annual MidWinter Meeting of the Association for Research in Otolaryngology. February 2023. Orlando, FL, United States. “Genomics of Hearing Loss and Tinnitus”
- 2020: International Society for Traumatic Stress Studies. November 2020. Virtual due to the COVID-19 pandemic. “Identifying Biological Markers of Posttraumatic Stress Disorder (PTSD): Recent Findings and Efforts across Modalities to Enhance Rigor and Robustness” (Panel Speaker)
- 2020: 75th Annual Scientific Meeting of the Society of Biological Psychiatry. May 2020. Virtual due to the COVID-19 pandemic. “Complex multi-environment gene interactions at the basis of the interplay between polysubstance abuse and suicide behaviors”
- 2020: 24th Human Genome Meeting. April 2020. Virtual due to the COVID-19 pandemic. “Dissecting the Genotype-Phenotype Correlation of Transthyretin Amyloidosis: From Population Genetics to Transcriptomic and Epigenomic Regulation”
- 2020: 2020 Genetics and Epigenetics Cross-Cutting Research Team Meeting. January 2020. Bethesda MD, United States. “Leveraging genome-wide data to investigate differences between opioid use vs. opioid dependence in 41,176 individuals from the Psychiatric Genomics Consortium”
- 2019: 2019 World Congress of Psychiatric Genetics. October 2019. Anaheim CA, United States. “Posttraumatic stress disorder and its genetic overlap with mortality and fertility in African-American and European-American participants of the Million Veteran Program”
- 2019: 2019 World Congress of Psychiatric Genetics. October 2019. Anaheim CA, United States. “Polygenic risk scores of risk-tolerance and neuroticism to distinguish opioid dependence from opioid exposure”
- 2019: Million Veteran Program Science Meeting. September 2019. Philadelphia PA, United States. “Genetic overlap and causal relationship between posttraumatic stress disorder and coronary artery disease in the Million Veteran Program”
- 2019: 2019 Joint Statistical Meetings - American Statistical Association. July 2019. Denver, CO, United States. “A genome-wide gene-by-trauma interaction study of alcohol misuse in two independent cohorts identifies PRKG1 as a risk locus”
- 2019: 74th Annual Scientific Meeting of the Society of Biological Psychiatry. May 2019. Chicago IL, United States. “Genetic overlap and causality between cognitive ability and posttraumatic stress disorder”
- 2019: 74th Annual Scientific Meeting of the Society of Biological Psychiatry. May 2019. Chicago IL, United States. “Metabolome-wide mendelian randomization analysis of trauma response”
- 2019: NIDA and NIAAA Genetics and Epigenetics Research Meeting. January 2019. Bethesda MD, United States. “Genome-wide association study of opioid dependence from the Psychiatric Genomics Consortium”
- 2018: American Society of Human Genetics 2018 Annual Meeting. October 2018. San Diego CA, United States. “The interaction between genetic variability and oral microbiome in alcohol use disorder and nicotine dependence”

- 2018: MVP Science Meeting 2018: Genomic Discovery in the Million Veteran Program to Advance Precision Medicine for Veterans. September 2018. Nashville TN, United States. "Population genetics issues in PTSD"
- 2018: 73rd Annual Scientific Meeting of the Society of Biological Psychiatry. May 2018. New York NY, United States. "Genetic overlap and causality among major depressive disorder, alcohol dependence, and alcohol consumption: Findings from the Psychiatric Genomics Consortium"
- 2018: XVI International Symposium on Amyloidosis. March 2018. Kumamoto, Japan. "Increased risk of multiple outpatient surgeries in carriers of TTR V122I mutation in a relatively young cohort of 4,361 African-Americans"
- 2018: Human Genome Meeting 2018. March 2018. Yokohama, Japan. "A Mendelian randomization phenome-wide association study of thyroid function in 337,199 individuals from UK Biobank"
- 2018: National Institute on Drug Abuse Genetics Consortium Meeting. January 2018. Bethesda MD, United States. "Genome-wide association study of opioid dependence from the Psychiatric Genomics Consortium"
- 2017: American Society of Human Genetics 2017 Annual Meeting. October 2017. Orlando FL, United States. "Local adaptation shaped the genetics of psychiatric disorders and behavioral traits in European populations"
- 2017: XXV World Congress of Psychiatric Genetics. October 2017. Orlando FL, United States. "A putative causal relationship between genetically determined female body shape and post-traumatic stress disorder"
- 2017: American Society of Clinical Psychopharmacology 2017 Annual Meeting. May 2017. Miami FL, United States. "Trauma exposure moderates the genetic overlap between alcohol misuse and bipolar disorders in US Army soldiers"
- 2017: 86th Annual meeting of the American Association of Physical Anthropology. April 2017. New Orleans LA, United States. "Genetics of psychiatric disorders and behavioral traits correlate with geo-climate variables, pathogen diversity, and language phonological complexity in European populations"
- 2016: National Institute on Drug Abuse Genetics Consortium Meeting. December 2016. Bethesda MD, United States. "Risk alleles identified in a genome-wide gene-by-cannabis dependence interaction analysis of risky sexual behaviors"
- 2016: XXIV World Congress of Psychiatric Genetics. October 2016. Jerusalem, Israel. "Systems genetics of autism spectrum disorders and schizophrenia are enriched for natural-selection signatures"
- 2016: The Genomics of Common Diseases 2016. September 2016. Baltimore MD, United States. "A genome-wide gene-by-trauma interaction study of alcohol use disorders in two independent cohorts identifies PRKG1 as risk locus"
- 2016: 71st Annual Scientific Meeting of the Society of Biological Psychiatry, Atlanta, GA, " Risk alleles identified in a genome-wide gene-by-cannabis dependence interaction analysis of risky sexual behaviors"
- 2016: Human Genome Meeting, Houston, TX, "Phenome-wide association study for smoking- and drinking-associated genes in 26,394 American women with African, Asian, European, and Hispanic descents"
- 2015: American Society of Human Genetics Annual Meeting, Baltimore, MD, " The interplay between risky sexual behaviors and alcohol dependence: risk alleles identified in a genome-wide investigation"
- 2015: 70th Annual Scientific Meeting of the Society of Biological Psychiatry, Toronto, Canada, "Genome-wide Association Study of Body Mass Index in Subjects with Alcohol Dependence"
- 2014: Human Genome Meeting, Geneva, Switzerland, "Dissecting ancestry genomic background as confounder in drug addiction GWAS"

- 2013: European Human Genetics Conference, Paris, France, “Functional prediction analysis of coding and non-coding regions of TTR gene: insights on phenotype expression of transthyretin-related amyloidosis”
- 2013: Pharmacogenomics and theranostics in practice, Florence, Italy, “Human pharmacogenetic variation of arterial hypertension: inter-ethnic differences in response to anti-hypertensive drugs”
- 2013: Advanced Research in TTR Amyloidosis II symposium, Barcelona, Spain, “Functional variation of TTR gene among human populations and its correlation with amyloidosis phenotypes”
- 2012: The 18th Congress of the European Anthropological Association, Ankara, Turkey, “Genetic variability of Glutathione S-Transferase enzymes in human populations: functional inter-ethnic differences in detoxification systems”
- 2012: European Human Genetics Conference, Nurnberg, Germany, “Deep analysis of human single nucleotide polymorphisms in the Cytochrome P450 superfamily”
- 2011: 7th ISABS Conference in Forensic, Anthropologic and Medical Genetics and Mayo Clinic Lectures in Translational Medicine, “Role of the Glutathione S-Transferase gene polymorphisms as markers in complex diseases”
- 2011: 80th Annual meeting of the American Association of Physical Anthropology, Minneapolis, MN, “Hapmap-based study of human soluble GSTs: the role of natural selection in shaping SNP diversity of xenobiotic-metabolizing genes”
- 2010: 17th Congress of the European Anthropological Association, Poznan, Poland, “GST Omega class gene variations among ethnic groups from Ecuador: Cayapas, Colorados and Afro-Ecuadorians”
- 2010: 17th Congress of the European Anthropological Association, Poznan, Poland, “Association of functional polymorphism of detoxification GST genes in Italian asthmatic children”
- 2009: 4th International conference of the series DNA polymorphisms in human populations, Rome, Italy, “GST polymorphism in the Italian population: Anthropogenetic marker or marker of susceptibility?”
- 2009: 51st Symposium of the Society for the Study of Human Biology, Rome, Italy, “Association between polymorphism of serum proteins, work habits and Ethylenethiourea in a group of farm-workers exposed to fungicides”

Professional Service

Journal Service:

Editor/Associate Editor

- 2023-present Academic Editor, *PLOS Genetics*
- 2023 Guest Editor, *PLOS Genetics*
- 2022-2024 Editorial Board Member, *Mental Health Science*
- 2021-present Editorial Board Member, *PeerJ*
- 2019-present co-Editor-in-Chief, *Complex Psychiatry*
- 2019-present Editorial Board Member, *Scientific Reports*
- 2018-present Academic Editor, *PLOS One*
- 2017-2019 Editorial Board Member, *Molecular Neuropsychiatry*
- 2013 Guest Editor, *International Journal of Alzheimer's disease*
- 2012 Associate Editor, *Journal of Alzheimer's disease*

Reviewer

Ad hoc Reviewer for *Addiction*; *Addiction Biology*; *Advanced Genetics*; *Alcoholism: Clinical and*

Experimental Research; American Journal of Human Biology; American Journal of Human Genetics; American Journal of Medical Genetics; American Journal of Psychiatry; American Journal of Public Health; Amyloid; Annals of Human Biology; Annals of Clinical and Translational Neurology; Behavioral Sciences; Bioinformatics; Autism Research; Biological Psychiatry; BMC Genomics; BMC Medical Genetics; BMC Medicine; Cancer Research; Cell Reports Medicine; Circulation; Circulation Research; Clinical Genetics; Clinical Interventions in Aging; Clinical Pharmacology & Therapeutics; Communications Biology; Clinical and Translational Medicine; Current Medicinal Chemistry; Drug and Alcohol Dependence; Drug Design, Development and Therapy; eBioMedicine; eLife; Elsevier Book Proposal; European Journal of Human Genetics; European Neuropsychopharmacology; Expert Opinion On Pharmacotherapy; G3; Gene; Genetics in Medicine; Genome Biology; Genome Medicine; Genome Research; Human Genetics; International Journal of Immunogenetics; International Journal of Molecular Sciences; Journal of Affective Disorders; Journal of Functional Foods; Journal of Medical Biochemistry; Journal of the American Heart Association; Lancet Psychiatry; Life Sciences; Metabolism; MetaGene; Metallomics; Mathematical Biosciences; Molecular Medicine; Nature Communications; Nature Genetics; Nature Human Behavior; Neuroendocrinology; Neurology; Neuropsychiatric Disease and Treatment; Molecular Psychiatry; Neurological Sciences; Neuron; Neuropsychopharmacology; PeerJ; Psychological Medicine; OncoTargets and Therapy; Oxidative Medicine and Cellular Longevity; Pharmacogenomics; Pharmacogenomics and Personalized Medicine; PLOS One; Psychiatric Research; Psychoneuroendocrinology; Progress in Neuropsychopharmacology & Biological Psychiatry; Science Advances; Schizophrenia Bulletin; Scientific Reports; Therapeutics and Clinical Risk Management; Translational Psychiatry; World Journal of Pediatrics.

Grant/Award Review Service:

2024 Grant Reviewer, California Institute for Regenerative Medicine
 2024 Grant Reviewer, Special Emphasis Panel ZDA1 SKP-E (M1), NIH/NIDA
 2024 Grant Reviewer, Telethon Foundation
 2023 Grant Reviewer, Special Emphasis Panel ZDE1 YM (03), NIH/NIDCD
 2023 Grant Reviewer, The Netherlands Organization for Health Research and Development
 2022 Grant Reviewer, Special Emphasis Panel ZDE1 YM (07), NIH/NIDCD
 2022 Grant Reviewer, Cancer Research UK
 2022 Grant Reviewer, Agència de Qualitat i Avaluació Sanitàries de Catalunya
 2022-present Grant Reviewer, International OCD Foundation
 2022-present Grant Reviewer, National Science Foundation
 2021-present Grant Reviewer, Dutch Research Council
 2021 Grant Reviewer, Qatar National Research Fund
 2020 Grant Reviewer, Military Operational Medicine Research Program
 2019 Grant Reviewer, Auditory System Study Section, NIH/NIDCD
 2019 Grant Reviewer, The Wellcome Trust/DBT India Alliance
 2018-present Grant Reviewer, Alzheimer's Association
 2018 Grant Reviewer, Defense Medical Research and Development Program
 2018 Grant Reviewer, Israel Science Foundation
 2018 Award Reviewer, American Society of Human Genetics
 2017-present Award Reviewer, International Society of Psychiatric Genetics
 2017 Grant Reviewer, Israeli Minister of Science, Technology and Space
 2016 Grant Reviewer, Estonian Research Council

Professional Service for Professional Organizations:

2024-present American Foundation for Suicide Prevention, Scientific Advisor

- 2024 *Genetics Society*, Member
- 2019-2020 *American Statistical Association*, Member
- 2018-2019 *International Society of Amyloidosis*, Member
- 2016-present *International Society of Psychiatric Genetics*, Member (Early-Career Investigator Program Committee, 2021-Present)
- 2014-present *American Society of Human Genetics*, Member (Annual Meeting Program Committee, 2023-Present)
- 2014-2020 *Human Genome Organization*, Member
- 2011-2013 *American Association of Anthropological Genetics*, Member
- 2011-2013 *Italian Society of Human Genetics*, Member
- 2011 *International Society of Applied Biological Sciences*, Member
- 2009-2013 *Italian Federation of Clinical Associations of Internal Medicine*, Member

Bibliography:

Peer-Reviewed Original Research

1. Piacentini S, **Polimanti R**, Moscatelli B, Re MA, Fuciarelli R, Manfellotto D, Fuciarelli M. Glutathione S-transferase gene polymorphisms and air pollution as interactive risk factors for asthma in a multicentre Italian field study: A preliminary study. *Ann Hum Biol* 2010, 37: 427-439.
2. **Polimanti R**, Piacentini S, Barone M, Porreca F, Fuciarelli M. Serum proteins and work habits in a group of farm-workers exposed to EBDCs. *Ann Hum Biol* 2010, 37: 440-450.
3. **Polimanti R**, Piacentini S, Moscatelli B, Pellicciotti L, Manfellotto D, Fuciarelli M. GSTA1, GSTO1 and GSTO2 gene polymorphisms in Italian asthma patients. *Clin Exp Pharmacol Physiol* 2010, 37: 870-872.
4. **Polimanti R**, Piacentini S, Porreca F, Fuciarelli M. Glutathione S-transferase omega class (GSTO) polymorphisms in a sample from Rome (Central Italy). *Ann Hum Biol* 2010, 37: 585-592.
5. Bucossi S, Mariani S, Ventriglia M, **Polimanti R**, Gennarelli M, Bonvicini C, Pasqualetti P, Scrascia F, Migliore S, Vernieri F, Rossini PM, Squitti R. Association between the c. 2495 A>G ATP7B Polymorphism and Sporadic Alzheimer's Disease. *Int J Alzheimers Dis* 2011, 2011: 973692.
6. **Polimanti R**, Piacentini S, Lazzarin N, Re MA, Manfellotto D, Fuciarelli M. GSTT1 and GSTM1 gene polymorphisms in European and African populations. *Mol Biol Rep* 2011, 38: 1225-1230.
7. **Polimanti R**, Piacentini S, De Angelis F, De Stefano GF, Fuciarelli M. Human GST loci as markers of evolutionary forces: GSTO1*E155del and GSTO1*E208K polymorphisms may be under natural selection induced by environmental arsenic. *Dis Markers* 2011, 31: 231-239.
8. **Polimanti R**, Piacentini S, Fuciarelli M. HapMap-based study of human soluble glutathione S-transferase enzymes: the role of natural selection in shaping the single nucleotide polymorphism diversity of xenobiotic-metabolizing genes. *Pharmacogenet Genomics* 2011, 21: 665-672.
9. **Polimanti R**, Piacentini S, Lazzarin N, Re MA, Manfellotto D, Fuciarelli M. Glutathione S-transferase variants as risk factor for essential hypertension in Italian patients. *Mol Cell Biochem* 2011, 357: 227-233.
10. Bucossi S, **Polimanti R**, Mariani S, Ventriglia M, Bonvicini C, Migliore S, Manfellotto D, Salustri C, Vernieri F, Rossini PM, Squitti R. Association of K832R and R952K SNPs of Wilson's disease gene with Alzheimer's disease. *J Alzheimers Dis* 2012, 29: 913-919.
11. Piacentini S, **Polimanti R**, Moscatelli B, Re MA, Manfellotto D, Fuciarelli M. Lack of association between GSTM1, GSTP1, and GSTT1 gene polymorphisms and asthma in adult patients from Rome, central Italy. *J Investig Allergol Clin Immunol* 2012, 22: 252-256.

12. Piacentini S, **Polimanti R**, Squitti R, Mariani S, Migliore S, Vernieri F, Rossini PM, Manfellotto D, Fuciarelli M. GSTO1*E155del polymorphism associated with increased risk for late-onset Alzheimer's disease: association hypothesis for an uncommon genetic variant. *Neurosci Lett* 2012, 506: 203-207.
13. Piacentini S, **Polimanti R**, Squitti R, Ventriglia M, Cassetta E, Vernieri F, Rossini PM, Manfellotto D, Fuciarelli M. GSTM1 null genotype as risk factor for late-onset Alzheimer's disease in Italian patients. *J Neurol Sci* 2012, 317: 137-140.
14. Piacentini S, Verrotti A, **Polimanti R**, Giannini C, Saccucci P, Manfellotto D, Fuciarelli M. Functional polymorphisms of GSTA1 and GSTO2 genes associated with asthma in Italian children. *Clin Chem Lab Med* 2012, 50: 311-315.
15. **Polimanti R**, Piacentini S, Lazzarin N, Re MA, Manfellotto D, Fuciarelli M. Lack of association between essential hypertension and GSTO1 uncommon genetic variants in Italian patients. *Genet Test Mol Biomarkers* 2012, 16: 615-620.
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