PERSONAL INFORMATION

Prof. Giuseppe Matullo

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https://www.dsm.unito.it/do/home.pl/View?doc=gruppi_ricerca/Variabilita_genomica_Malattie_complesse/Varibilita_genomica_nella_popolazione_umana.html

Sex M | Date of birth 07/06/1967 | Nationality Italian

CURRENT POSITION

- Full Professor of Medical Genetics at the Dept. of Medical Sciences (since 2018), University of Turin, Faculty of Medicine (Associate Professor since 2006)
- Director of the Unit "Genomic Variation, Complex Diseases and Population Medicine" at the Dept. Medical Sciences, University of Turin, School of Medicine (since 2006).
- Hospital manager at the Medical Genetics Service, Città della Salute e della Scienza, Torino (since 2016)
- Coordinator of the Genomic facility at the Dept. Medical Sciences (dal 2018)
- Member of the Board of Directors of the Italian Society of Human Genetics (SIGU) (2021-2023)

RESEARCH AREAS

- Genetics of complex diseases and gene-environment interactions
- Medical genetics and genomics of human populations
- Genetic susceptibility to cardiovascular diseases
- Genetics and molecular epidemiology of tumors (in particular bladder and mesothelioma)
- DNA repair gene polymorphisms, cancer susceptibility and therapy response
- DNA repair genotype-phenotype correlation
- Genomics and genome-wide association studies in cancer and cardiovascular diseases
- Epigenomics of cancer and cardiovascular diseases
- Identification of mutations through exome and gene panel analysis by Next Generation Sequencing
- Whole-genome sequencing in well characterized population samples from the Italian Genome project and the Network for Italian Genomes (NIG)
- Multiomics analyses to cancer (mesotheliomoa, bladder and breast) and cardiovascular diseases.
- Polygenic and Integrated multiomic risk prediction models
- Data mining and pathways interpretations

WORK EXPERIENCE

From Sept 2015 — Staff of the Medical Genetics Service, Città della Salute e della Scienza, Molinette H., Turin.

2018-2020: — Full Professor of Medical Genetics MED/03 at the Department of Medical Sciences, School of Medicine, University of Turin

2012 to now — Director of the Unit of Genomic Variation, Complex Diseases and Population Medicine, Department of Medical Sciences, School of Medicine, University of Turin

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2012-2018	Associate Professor Medical Genetics at the Dept. Medical Sciences, University of Turin, School of Medicine.
2010 to 2012	Director of the Unit of Genomic Variation in Human Population and Complex Diseases Lab, Human Genetics Foundation, HuGeF/IIGM, Turin, Italy.
2006 to 2012	Associate Professor, Medical Genetics at the Dept. Medical Sciences, University of Turin, Faculty of Medicine.
2000 to 2010	Vice-director of the Life Sciences Section, Institute for Scientific Interchange Foundation, Turin, Italy.
2000 to 2010	Group Leader of Molecular Epidemiology Laboratory, Institute for Scientific Interchange Foundation, Turin, Italy.
1998 to 2006	Assistant Researcher at Dept. Genetics, Biology and Biochemistry, University of Turin, Italy.

EDUCATION AND TRAINING

October 1999 — **MSc**

University of Pavia, European Schools for Advanced Studies, Italy

- Statistical Genetics

April 1997 — **PhD**

University of Turin, Italy

- Human Genetics

1997

- Research Fellow at the Rangos Research Center, Pittsburgh University (PA), Prof. Massimo Trucco

March 1991 — **BScD**

University of Turin, Italy

- Biological Sciences

1991

- Research Fellow Department of Genetics, Stanford University (CA), Prof. L.L. Cavalli-Sforza.
- Research Fellow at the Rangos Research Center, Pittsburgh University (PA), Prof. Massimo Trucco

GRANTS

Current Projects

1. MESOMIC https://www.airc.it/ - Non-invasive predictive and prognostic biomarkers in Malignant Pleural Mesothelioma: from preclinical to clinical models – (2018, 60 months, UNITO total 750K€) (Matullo PI Coordinator)

2. CARDIATEAM, https://cardiateam.eu/ (EC H2020 IMI) - CARdiomyopathy in type 2 DIAbetes mellitus - Assessment of the uniqueness of diabetic cardiomyopathy relative to other forms of heart failure using unbiased pheno-mapping approaches (2018, 60 months, total 12,8M€) (Matullo Unit PI, WP5 leader on Omic analyses)

3. INTERVENE, https://www.interveneproject.eu/ International consortium for integrative genomics prediction H2020-SC1-FA-DTS-2020-1. AI for Genomics and Personalised Medicine (2020, 48 months, total 10M€) (Matullo Unit PI)

4. TESEO (Traguardi di Eccellenza nelle Scienze mediche Esplorando le Omiche), MUR Grant Dipartimento di Eccellenza (2018-2022)

5. Grant Piano Operativo Salute (POS) 2023-2027. Progetto GENERA, Genoma mEdiciNa pERsonalizzatA. (PI Unità e responsabile scientifico UNITO)

Honours and awards

- Member of the Scientific Committee of the annual congress of the Italian Society of Human Genetics (SIGU) 2023,
- Chairman and organizer of the session "Complex Diseases" at the congress of the Italian Society of Human Genetics (SIGU) 2022, Trieste, Italy.
- Member of the Scientific Committee and speaker of various courses within the Hospital Medical School 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021 (21 ECM each); Genes and genetic testing: from the laboratory to clinical applications. Mendel Institute, Rome, Italy

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Chairman and organizer of the session "MUTATION AND EPIMUTATION LOAD IN NORMAL TISSUE" at the congress of the Italian Society of Human Genetics (SIGU) 2019, Rome, Italy - Chairman of the Concurrent Symposia S05-08 & Educational Sessions E08-E09-S05 | Large-scale genetic studies in complex diseases, European Human Genetics Conference (annual ESHG meeting), Milan, June 16-19, 2018.
- Member of the Scientific Committee and Chairman of the Italian Society of Human Genetics (SIGU) 2016, and organizer and chariman of the Round Table on the Network of Italian Genomes, Turin, Italy
- Chairman and organizer of the Round Table on the Network of Italian Genomes, at the congress of the Italian Society of Human Genetics (SIGU) 2015, Rimini, Italy
- Chairman and organizer of the "Functional Genomics" session at the congress of the Italian Society of Human Genetics (SIGU) 2013, Milan, Italy.
- Chairman and organizer of the session "Complex Diseases" at the 2009 congress of the Italian Society of Human Genetics (SIGU), Turin, Italy.

Membership

- Member of the Italian Society of Human Genetics (SIGU)
- Associate Member of the European Society of Human Genetics (ESHG)
- Associate Member of the American Society of Human Genetics (ASHG)
- Associate Member of the American Association of Cancer Research (AACR)
- Advisor of the Executive Board of the Italian Biometric Society (SIB) (2000-2003)
- Member of the "Study Group on DNA repair" coordinated by Prof. Kraemer K. (http://sigs.nih.gov/DNA-repair/Pages/default.aspx)
- Member of the International Consortium on Bladder Cancer (ICBC)
- Member of the International Mesothelioma Interest Group (IMIG)
- Member of the Centro Interdipartimentale "G. Scansetti" for the study of absestos and other toxic fibers.
- Member and Founder of the Network for Italian Genomes (NIG; http://www.nig.cineca.it/)
- Member of the Board of Directors of the Italian Society of Human Genetics (SIGU) (2021-2024)

ADDITIONAL INFORMATION

Metrica pubblicazioni

IF TOTALE: >1350
IF MEDIO: 6.39
H-INDEX: 54 (Scopus)
Citazioni: 14,735

Pubblicazioni

(N=236; https://pubmed.ncbi.nlm.nih.gov/?term=matullo+g&sort=date&size=200)
Vedi file completo pubblicazioni allegato)

1. Casalone E, Birolo G, Pardini B, Allione A, Russo A, Catalano C, Mencoboni M, Ferrante D, Magnani C, Sculco M, Dianzani I, Grosso F, Mirabelli D, Filiberti RA, Rena O, Sacerdote C, Rodriguez-Barranco M, Smith-Byrne K, Panico S, Agnoli C, Johnson T, Kaaks R, Tumino R, Huerta JM, Riboli E, Heath AK, Trobajo- Sanmartín C, Schulze MB, Saieva C, Amiano P, Agudo A, Weiderpass E, Vineis P, MATULLO G. Serum Extracellular Vesicle-Derived microRNAs as Potential Biomarkers for Pleural Mesothelioma in a European Prospective Study. Cancers (Basel). 2022 Dec 25;15(1):125. doi: 10.3390/cancers15010125. PMID: 36612122; PMCID: PMC9817828.

2. Gagliardi A, Francescato G, Ferrero G, Birolo G, Tarallo S, Francavilla A, Piaggeschi G, Di Battista C, Gallo G, Realis Luc A, Sacerdote C, MATULLO G, Vineis P, Naccarati A, Pardini B. The 8q24 region hosts miRNAs altered in biospecimens of colorectal and bladder cancer patients. Cancer Med. 2022 Nov 10. doi: 10.1002/cam4.5375. Epub ahead of print. PMID: 36366788.

3. Coppedè F, Franzago M, Giardina E, Lo Nigro C, MATULLO G, Moltrasio C, Nacmias B, Pileggi S, Sirchia SM, Stoccoro A, Storlazzi CT, Stuppia L, Tricarico R, Merla G. A perspective on diet, epigenetics and complex diseases: where is the field headed next? Epigenomics. 2022 Oct;14(20):1281-1304. doi: 10.2217/epi-2022-0239. Epub 2022 Nov 3. PMID: 36325816.

4. Allione A, Viberti C, Cotellessa I, Catalano C, Casalone E, Cugliari G, Russo A, Guarrera S, Mirabelli D, Sacerdote C, Gentile M, Eichelmann F, Schulze MB, Harlid S, Eriksen AK, Tjønneland A, Andersson M, Dollé MET, Van Puyvelde H, Weiderpass E, Rodriguez-Barranco M, Agudo A, Heath AK, Chirlaque MD, Truong T, Dragic D, Severi G, Sieri S, Sandanger TM, Ardanaz E, Vineis P, MATULLO G. Blood cell DNA methylation biomarkers in preclinical malignant pleural mesothelioma: The EPIC prospective cohort. Int J Cancer. 2023 Feb 15;152(4):725-737. doi: 10.1002/ijc.34339. Epub 2022 Nov 5. PMID: 36305648.

5. Koni M, Castellano I, Venturelli E, Sarcinella A, Lopatina T, Grange C, Cedrino M, Femminò S, Cossu-Rocca P, Orrù S, D'Ascenzo F, Cotellessa I, Tampieri C, Debernardi C, Cugliari G, MATULLO G, Camussi G, De Miglio MR, Brizzi MF. Interleukin-3-Receptor-α in Triple-Negative Breast Cancer (TNBC): An Additional Novel Biomarker of TNBC Aggressiveness and a Therapeutic Target. Cancers (Basel). 2022 Aug 13;14(16):3918. doi: 10.3390/cancers14163918. PMID: 36010912; PMCID: PMC9406043.

6. Sculco M, La Vecchia M, Aspesi A, Clavenna MG, Salvo M, Borgonovi G, Pittaro A, Witel G, Napoli F, Listì A, Grosso F, Libener R, Maconi A, Rena O, Boldorini R, Giachino D, Bironzo P, Maffè A, Alì G, Elefanti L, Menin C, Righi L, Tampieri C, Scagliotti GV, Dianzani C, Ferrante D, Migliore E, Magnani C, Mirabelli D, MATULLO G, Dianzani I. Diagnostics of BAP1-Tumor Predisposition Syndrome by a Multitesting Approach: A Ten-Year-Long Experience. Diagnostics (Basel). 2022 Jul 13;12(7):1710. doi: 10.3390/diagnostics12071710. PMID: 35885614; PMCID: PMC9317020.

7. Degenhardt F, Ellinghaus D, Juzenas S, Lerga-Jaso J, Wendorff M, Maya-Miles D, Uellendahl-Werth F, ElAbd H, Rühlemann MC, Arora J, Özer O, Lenning OB, Myhre R, Vadla MS, Wacker EM, Wienbrandt L, Blandino Ortiz A, de Salazar A,

Garrido Chercoles A, Palom A, Ruiz A, Garcia-Fernandez AE, Blanco-Grau A, Mantovani A, Zanella A, Holten AR, Mayer A, Bandera A, Cherubini A, Protti A, Aghemo A, Gerussi A, Ramirez A, Braun A, Nebel A, Barreira A, Lleo A, Teles A, Kildal AB, Biondi A, Caballero-Garralda A, Ganna A, Gori A, Glück A, Lind A, Tanck A, Hinney A, Carreras Nolla A, Fracanzani AL, Peschuck A, Cavallero A, Dyrhol-Riise AM, Ruello A, Julià A, Muscatello A, Pesenti A, Voza A, Rando-Segura A, Solier A, Schmidt A, Cortes B, Mateos B, Nafria-Jimenez B, Schaefer B, Jensen B, Bellinghausen C, Maj C, Ferrando C, de la Horra C, Quereda C, Skurk C, Thibeault C, Scollo C, Herr C, Spinner CD, Gassner C, Lange C, Hu C, Paccapelo C, Lehmann C, Angelini C, Cappadona C, Azuure C; COVICAT study group, Aachen Study (COVAS); Bianco C, Cea C, Sancho C, Hoff DAL, Galimberti D, Prati D, Haschka D, Jiménez D, Pestaña D, Toapanta D, Muñiz-Diaz E, Azzolini E, Sandoval E, Binatti E, Scarpini E, Helbig ET, Casalone E, Urrechaga E, Paraboschi EM, Pontali E, Reverter E, Calderón EJ, Navas E, Solligård E, Contro E, Arana-Arri E, Aziz F, Garcia F, García Sánchez F, Ceriotti F, Martinelli-Boneschi F, Peyvandi F, Kurth F, Blasi F, Malvestiti F, Medrano FJ, Mesonero F, Rodriguez-Frias F, Hanses F, Müller F, Hemmrich-Stanisak G, Bellani G, Grasselli G, Pezzoli G, Costantino G, Albano G, Cardamone G, Bellelli G, Citerio G, Foti G, Lamorte G, MATULLO G, Baselli G, Kurihara H, Neb H, My I, Kurth I, Hernández I, Pink I, de Rojas I, Galván-Femenia I, Holter JC, Afset JE, Heyckendorf J, Kässens J, Damås JK, Rybniker J, Altmüller J, Ampuero J, Martín J, Erdmann J, Banales JM, Badia JR, Dopazo J, Schneider J, Bergan J, Barretina J, Walter J, Hernández Quero J, Goikoetxea J, Delgado J, Guerrero JM, Fazaal J, Kraft J, Schröder J, Risnes K, Banasik K, Müller KE, Gaede KI, Garcia-Etxebarria K, Tonby K, Heggelund L, Izquierdo-Sanchez L, Bettini LR, Sumoy L, Sander LE, Lippert LJ, Terranova L, Nkambule L, Knopp L, Gustad LT, Garbarino L, Santoro L, Téllez L, Roade L, Ostadreza M, Intxausti M, Kogevinas M, Riveiro-Barciela M, Berger MM, Schaefer M, Niemi MEK, Gutiérrez-Stampa MA, Carrabba M, Figuera Basso ME, Valsecchi MG, Hernandez-Tejero M, Vehreschild MJGT, Manunta M, Acosta-Herrera M, D'Angiò M, Baldini M, Cazzaniga M, Grimsrud MM, Cornberg M, Nöthen MM, Marquié M, Castoldi M, Cordioli M, Cecconi M, D'Amato M, Augustin M, Tomasi M, Boada M, Dreher M, Seilmaier MJ, Joannidis M, Wittig M, Mazzocco M, Ciccarelli M, Rodríguez-Gandía M, Bocciolone M, Miozzo M, Imaz Ayo N, Blay N, Chueca N, Montano N, Braun N, Ludwig N, Marx N, Martínez N; Norwegian SARS-CoV-2 Study group; Cornely OA, Witzke O, Palmieri O; Pa Study Group; Faverio P, Preatoni P, Bonfanti P, Omodei P, Tentorio P, Castro P, Rodrigues PM, España PP, Hoffmann P, Rosenstiel P, Schommers P, Suwalski P, de Pablo R, Ferrer R, Bals R, Gualtierotti R, Gallego- Durán R, Nieto R, Carpani R, Morilla R, Badalamenti S, Haider S, Ciesek S, May S, Bombace S, Marsal S, Pigazzini S, Klein S, Pelusi S, Wilfling S, Bosari S, Volland S, Brunak S, Raychaudhuri S, Schreiber S, Heilmann-Heimbach S, Aliberti S, Ripke S, Dudman S, Wesse T, Zheng T; STORM Study group, The Humanitas Task Force, The Humanitas Gavazzeni Task Force; Bahmer T, Eggermann T, Illig T, Brenner T, Pumarola T, Feldt T, Folseraas T, Gonzalez Cejudo T, Landmesser U, Protzer U, Hehr U, Rimoldi V, Monzani V, Skogen V, Keitel V, Kopfnagel V, Friaza V, Andrade V, Moreno V, Albrecht W, Peter W, Poller W, Farre X, Yi X, Wang X, Khodamoradi Y, Karadeniz Z, Latiano A, Goerg S, Bacher P, Koehler P, Tran F, Zoller H, Schulte EC, Heidecker B, Ludwig KU, Fernández J, Romero-Gómez M, Albillos A, Invernizzi P, Buti M, Duga S, Bujanda L, Hov JR, Lenz TL, Asselta R, de Cid R, Valenti L, Karlsen TH, Cáceres M, Franke A. Detailed stratified GWAS analysis for severe COVID-19 in four European populations. Hum Mol Genet. 2022 Nov 28;31(23):3945-3966. doi: 10.1093/hmg/ddac158. PMID: 35848942; PMCID: PMC9703941.

8. Barutta F, Bellini S, Guarrera S, MATULLO G, Schalkwijk C, Stehouwer CD, Chaturvedi N, Soedamah-Muthu SS, Durazzo M, Gruden G. Association of serum MicroRNA-145-5p levels with microvascular complications of type 1 Diabetes: The EURODIAB prospective complications study. Diabetes Res Clin Pract. 2022 Aug;190:109987. doi: 10.1016/j.diabres.2022.109987. Epub 2022 Jul 9. PMID: 35820565.

9. Wielscher M, Mandaviya PR, Kuehnel B, Joehanes R, Mustafa R, Robinson O, Zhang Y, Bodinier B, Walton E, Mishra PP, Schlosser P, Wilson R, Tsai PC, Palaniswamy S, Marioni RE, Fiorito G, Cugliari G, Karhunen V, Ghanbari M, Psaty BM, Loh M, Bis JC, Lehne B, Sotoodehnia N, Deary IJ, Chadeau-Hyam M, Brody JA, Cardona A, Selvin E, Smith AK, Miller AH, Torres MA, Marouli E, Gào X, van Meurs JBJ, Graf-Schindler J, Rathmann W, Koenig W, Peters A, Weninger W, Farlik M, Zhang T, Chen W, Xia Y, Teumer A, Nauck M, Grabe HJ, Doerr M, Lehtimäki T, Guan W, Milani L, Tanaka T, Fisher K, Waite LL, Kasela S, Vineis P, Verweij N, van der Harst P, Iacoviello L, Sacerdote C, Panico S, Krogh V, Tumino R, Tzala E, MATULLO G, Hurme MA, Raitakari OT, Colicino E, Baccarelli AA, Kähönen M, Herzig KH, Li S; BIOS consortium; Conneely KN, Kooner JS, Köttgen A, Heijmans BT, Deloukas P, Relton C, Ong KK, Bell JT, Boerwinkle E, Elliott P, Brenner H, Beekman M, Levy D, Waldenberger M, Chambers JC, Dehghan A, Järvelin MR. DNA methylation signature of chronic low-grade inflammation and its role in cardio- respiratory diseases. Nat Commun. 2022 May 3;13(1):2408. doi: 10.1038/s41467-022-29792-6. PMID: 35504910; PMCID: PMC9065016.

10. Moisoiu T, Dragomir MP, Iancu SD, Schallenberg S, Birolo G, Ferrero G, Burghelea D, Stefancu A, Cozan RG, Licarete E, Allione A, MATULLO G, Iacob G, Bálint Z, Badea RI, Naccarati A, Horst D, Pardini B, Leopold N, Elec F. Combined miRNA and SERS urine liquid biopsy for the point-of-care diagnosis and molecular stratification of bladder cancer. Mol Med. 2022 Apr 1;28(1):39. doi: 10.1186/s10020-022-00462-z. PMID: 35365098; PMCID: PMC8973824.

11. Dam V, Onland-Moret NC, Burgess S, Chirlaque MD, Peters SAE, Schuit E, Tikk K, Weiderpass E, Oliver-Williams C, Wood AM, Tjønneland A, Dahm CC, Overvad K, Boutron-Ruault MC, Schulze MB, Trichopoulou A, Ferrari P, Masala G, Krogh V, Tumino R, MATULLO G, Panico S, Boer JMA, Verschuren WMM, Waaseth M, Pérez MJS, Amiano P, Imaz L, Moreno-Iribas C, Melander O, Harlid S, Nordendahl M, Wennberg P, Key TJ, Riboli E, Santiuste C, Kaaks R, Katzke V, Langenberg C, Wareham NJ, Schunkert H, Erdmann J, Willenborg C, Hengstenberg C, Kleber ME, Delgado G, März W, Kanoni S, Dedoussis G, Deloukas P, Nikpay M, McPherson R, Scholz M, Teren A, Butterworth AS, van der Schouw YT. Genetically Determined Reproductive Aging and Coronary Heart Disease: A Bidirectional 2-sample Mendelian Randomization. J Clin Endocrinol Metab. 2022 Jun 16;107(7):e2952-e2961. doi: 10.1210/clinem/dgac171. PMID: 35306566; PMCID: PMC9202700.

12. Sculco M, La Vecchia M, Aspesi A, Pinton G, Clavenna MG, Casalone E, Allione A, Grosso F, Libener R, Muzio A, Rena O, Baietto G, Parini S, Boldorini R, Giachino D, Papotti M, Scagliotti GV, Migliore E, Mirabelli D, Moro L, Magnani C, Ferrante D, MATULLO G, Dianzani I. Malignant pleural mesothelioma: Germline variants in DNA repair genes may steer tailored treatment. Eur J Cancer. 2022 Mar;163:44-54. doi: 10.1016/j.ejca.2021.12.023. Epub 2022 Jan 13. PMID: 35032816.

13. Han S, Huang J, Foppiano F, Prehn C, Adamski J, Suhre K, Li Y, MATULLO G, Schliess F, Gieger C, Peters A, Wang-Sattler R. TIGER: technical variation elimination for metabolomics data using ensemble learning architecture. Brief

Bioinform. 2022 Jan 3:bbab535. doi: 10.1093/bib/bbab535. Epub ahead of print. PMID: 34981111.

14. Pin F, Beltrà M, Garcia-Castillo L, Pardini B, Birolo G, MATULLO G, Penna F, Guttridge D, Costelli P. Extracellular vesicles derived from tumour cells as a trigger of energy crisis in the skeletal muscle. J Cachexia Sarcopenia Muscle. 2021 Dec 20. doi: 10.1002/jcsm.12844. Epub ahead of print. PMID: 34931471.

15. Barutta F, Corbetta B, Bellini S, Guarrera S, MATULLO G, Scandella M, Schalkwijk C, Stehouwer CD, Chaturvedi N, Soedamah-Muthu SS, Durazzo M, Gruden G. MicroRNA 146a is associated with diabetic complications in type 1 diabetic patients from the EURODIAB PCS. J Transl Med. 2021 Nov 25;19(1):475. doi: 10.1186/s12967-021-03142-4. PMID: 34823560; PMCID: PMC8614036.

16. Giribaldi G, Filippini C, Viberti C, Khadjavi A, Finesso N, Ulliers D, Turini S, Bressan BE, Pecoraro F, Prato M, Allione A, Bellis M, Montefusco G, Bonomessi G, Allasia M, MATULLO G, Soria F, Gontero P. Combination of urinary fibrinogen β-chain and tyrosine-phosphorylated proteins for the detection of bladder cancer. Future Sci OA. 2021 Oct 11;7(9):FSO758. doi: 10.2144/fsoa-2021-0060. PMID: 34737890; PMCID: PMC8558871.

17. Russo A, Viberti C, Mareschi K, Casalone E, Guarrera S, Birolo G, Cazzaniga G, Corral L, Trentin L, Basso G, Fagioli F*, MATULLO G*. Genetic and Epigenetic Characterization of a Discordant KMT2A/AFF1-Rearranged Infant Monozygotic Twin Pair. Int J Mol Sci. 2021 Sep 9;22(18):9740. doi: 10.3390/ijms22189740. PMID: 34575904; PMCID: PMC8466096.

18. Min JL, Hemani G, Hannon E, Dekkers KF, Castillo-Fernandez J, Luijk R, Carnero-Montoro E, Lawson DJ, Burrows K, Suderman M, Bretherick AD, Richardson TG, Klughammer J, Iotchkova V, Sharp G, Al Khleifat A, Shatunov A, Iacoangeli A, McArdle WL, Ho KM, Kumar A, Söderhäll C, Soriano-Tárraga C, Giralt-Steinhauer E, Kazmi N, Mason D, McRae AF, Corcoran DL, Sugden K, Kasela S, Cardona A, Day FR, Cugliari G, Viberti C, Guarrera S, Lerro M, Gupta R, Bollepalli S, Mandaviya P, Zeng Y, Clarke TK, Walker RM, Schmoll V, Czamara D, Ruiz-Arenas C, Rezwan FI, Marioni RE, Lin T, Awaloff Y, Germain M, Aïssi D, Zwamborn R, van Eijk K, Dekker A, van Dongen J, Hottenga JJ, Willemsen G, Xu CJ, Barturen G, Català-Moll F, Kerick M, Wang C, Melton P, Elliott HR, Shin J, Bernard M, Yet I, Smart M, Gorrie-Stone T; BIOS Consortium, Shaw C, Al Chalabi A, Ring SM, Pershagen G, Melén E, Jiménez-Conde J, Roquer J, Lawlor DA, Wright J, Martin NG, Montgomery GW, Moffitt TE, Poulton R, Esko T, Milani L, Metspalu A, Perry JRB, Ong KK, Wareham NJ, Matullo G, Sacerdote C, Panico S, Caspi A, Arseneault L, Gagnon F, Ollikainen M, Kaprio J, Felix JF, Rivadeneira F, Tiemeier H, van IJzendoorn MH, Uitterlinden AG, Jaddoe VWV, Haley C, McIntosh AM, Evans KL, Murray A, Räikkönen K, Lahti J, Nohr EA, Sørensen TIA, Hansen T, Morgen CS, Binder EB, Lucae S, Gonzalez JR, Bustamante M, Sunyer J, Holloway JW, Karmaus W, Zhang H, Deary IJ, Wray NR, Starr JM, Beekman M, van Heemst D, Slagboom PE, Morange PE, Trégouët DA, Veldink JH, Davies GE, de Geus EJC, Boomsma DI, Vonk JM, Brunekreef B, Koppelman GH, Alarcón-Riquelme ME, Huang RC, Pennell CE, van Meurs J, Ikram MA, Hughes AD, Tillin T, Chaturvedi N, Pausova Z, Paus T, Spector TD, Kumari M, Schalkwyk LC, Visscher PM, Davey Smith G, Bock C, Gaunt TR, Bell JT, Heijmans BT, Mill J, Relton CL. Genomic and phenotypic insights from an atlas of genetic effects on DNA methylation. Nat Genet. 2021 Sep;53(9):1311-1321. doi: 10.1038/s41588-021-00923-x. Epub 2021 Sep 6. PMID: 34493871; PMCID: PMC7612069.

19. COVID-19 Host Genetics Initiative. Mapping the human genetic architecture of COVID-19. Nature. 2021 Dec;600(7889):472-477. doi: 10.1038/s41586-021-03767-x. Epub 2021 Jul 8. PMID: 34237774; PMCID: PMC8674144.

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Torino, 1/3/2023

prof. Giuseppe Matullo

Dati personali Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".