

ALLEGATO A

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di selezione per la chiamata a professore di II fascia da ricoprire ai sensi dell'art. 18, comma 1, della Legge n. 240/2010 per il settore concorsuale _06/M1 - Igiene Generale e Applicata, Scienze Infermieristiche e Statistica Medica, (settore scientifico-disciplinare MED/01 - Statistica Medica)
presso il Dipartimento di FISIOPATOLOGIA MEDICO-CHIRURGICA E DEI TRAPIANTI, Codice concorso 5367

Cristina Menni **CURRICULUM VITAE**

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	MENNI
NOME	CRISTINA
DATA DI NASCITA	21 AGOSTO 1981

TITOLI

TITOLO DI STUDIO

(indicare la Laurea conseguita inserendo titolo, Ateneo, data di conseguimento, ecc.)

Università degli Studi di Milano Bicocca, Laurea Specialistica in Biostatistica e Statistica Sperimentale, 110 e Lode, 07/2007

Università di Cambridge, UK, Master in Matematica (Certificate of Advance Studies in Mathematics), 06/2004, voto *honour*

Università di Manchester, UK, BSc Hons (Laurea Triennale) in Matematica e Filosofia, Pieni voti e Lode (First class hons), 07/2002

TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO

(inserire titolo, ente, data di conseguimento, ecc.)

Università degli Studi di Milano Bicocca, Dottorato di Ricerca in Statistica, 01/2011

ALTRI TITOLI CONSEGUITI

(inserire titolo, ente, data di conseguimento, ecc.)

Fellow of the Higher Education Academy (HEA) 10/2021 (*riconoscimento internazionale di un impegno per la professionalità nell'insegnamento e nell'apprendimento nell'istruzione superiore che dimostra che la pratica è allineata con il UK Professional Standards Framework (UKPSF)*).

Abilitazione Scientifica Nazionale, Idoneità alle funzioni di Professore universitario di Seconda Fascia, Settore 06/M1, Igiene generale e applicata, scienze infermieristiche e statistica medica, 05/04/2017

ATTIVITA' PROFESSIONALE

15/06/2020-> oggi: Lecturer, Department of Twin Research & Genetic Epidemiology, King's College London, UK ("probation" passata il 12/05/2023)

16/07/2014-15/06/2020: Research Fellow, Department of Twin Research & Genetic Epidemiology, King's College London, UK

18/08/2011-15/07/2014: Research Associate, Department of Twin Research & Genetic Epidemiology, King's College London

20/11/2007-25/01/2011: Dottoranda, Dipartimento di Statistica, Università degli Studi Milano-Bicocca

DIDATTICA

ATTIVITÀ DIDATTICA

INSEGNAMENTI E MODULI

(inserire periodo [gg/mm/aa inizio e fine], anno accademico, corso laurea, numero di ore frontali, eventuale CFU)

International Society for Developmental Origins of Health and Disease (DOHaD), organizzazione e (co) insegnamento del Corso Breve "Machine Learning for Healthcare applications", prima edizione giugno 2023 (da ripetersi con cadenza semestrale)

King's College London, corso di master di primo livello in "Medical&Vascular ultrasound". (Co) insegnamento del corso di statistica medica all'interno del modulo Research and Service Innovation e insegnamento di SPSS, anni accademici 2020/2021 e 2022/2023

King's College London, corso di laurea di primo livello in Biochimica e Genetica Molecolare, supervisione di studenti per il modulo "Biochemistry & Molecular Genetics Library Project", sulla stesura di una revisione bibliografica, anni accademici 2021/2022 e 2022/2023

King's College London, Modulo "Biological ageing", anni accademici 2014/2015 e 2015/2016

King's College London, Modulo "Metabolomics and Proteomics", anno accademico 2017/2018

Università di Pavia, cultore della materia in Statistica Medica e Informatica, insegnamento del corso di Statistica Medica per il corso di Laurea di Primo Livello in Fisioterapia, anni accademici 2009/2010, 2010/2011

ATTIVITÀ DI DIDATTICA INTEGRATIVA E DI SERVIZIO AGLI STUDENTI

ATTIVITÀ DI RELATORE DI ELABORATI DI LAUREA, DI TESI DI LAUREA MAGISTRALE, DI TESI DI DOTTORATO E DI TESI DI SPECIALIZZAZIONE

(inserire numero. anno accademico, ateneo, corso laurea, ecc.)

Supervisione di studenti di dottorato di ricerca presso il dipartimento di Twin Research & Genetic Epidemiology, King's College London.

- a) 01/06/2023-> primo supervisore dello studente di dottorato D.K., titolo della tesi: "Computational methods to explore the relationship between gut microbes, metabolites and human health".

- b) 01/02/2021-> secondo supervisore dello studente di dottorato R.C., titolo della tesi: “Advanced data-driven approaches to discover genetic factors and potential aetiologies of disc degeneration”.
- c) 01/10/2020 secondo supervisore della studentessa di dottorato F.T. (presso Università Humanitas, Milano), titolo della tesi: “Methods and tools for the integration of clinical, epidemiological data and multi-omics data to identify risk factors and biomarkers of type 2 diabetes and obesity”.
- d) 14/10/2020-> primo supervisore della studentessa di dottorato A.N., titolo della tesi: “The role of metabolites in the interplay between gut microbiota and cardio-metabolic health, with a focus on short-chain fatty acids”.
- e) 3/10/2019-01/03/2023 primo supervisore dello studente di dottorato P.L., titolo della tesi: “Exploring the relationships between gut microbes, metabolites, diet, and hypertension”.
- f) 1/10/2017- 1/09/2022 secondo supervisore della studentessa di dottorato O.M.M., titolo della tesi “Exploring the genetic relationship between diet and health outcomes”.
- g) 18/07/2014 -1/08/2017 secondo supervisore dello studente di dottorato J.Z., titolo della tesi “Integrative analysis of metabolic signature of ageing and age-related diseases”.
- h) 9/10/2014 - 1/05/2017 secondo supervisore della studentessa di dottorato T.P., titolo della tesi “Using metabolomics for the exploration of diet and health in a twin cohort”.

Supervisione di studenti di master

- a) anni accademici 2021/2022, 2022/2023, supervisione di B.B.C. parte del West Midlands Pre-Doctorate Bridging Programme finanziato dalla Università di Birmingham
- b) anno accademico 2019/2020, supervisione di V.C., studente di master parte del programma di rotazione finanziato dal Medical Research Council (UK)

Supervisione di postdoc

- a) Dr I.A. (2022->)- finanziato da AMC Medical Research
- b) Dr A.F. (2021-2022) - finanziata da University of Croatia
- c) Dr D.K. (2020-2021) - finanziato da University of Croatia

ATTIVITÀ DI ESAMINATORE DEGLI STUDENTI DI DOTTORANDI DI RICERCA

Esaminatore esterno per i “PhD viva” di (i) Dr K.B. (2020), University College Dublin, titolo della tesi “Investigating variation in dietary, anthropometric and metabolic phenotypes over time: a twin study approach”; e (ii) Dr R.S.(2022), University of Eastern Finland, titolo della tesi “Nutrient-related metabolites in non-alcoholic fatty liver disease”.

Membro del collegio dei docenti di dottorato di ricerca presso il King's College London. Dal 2019, membro di 4 PhD advisory committee panels, di cui uno in qualità di "chair". Lo scopo di un PhD advisory committee panel è di monitorare gli obiettivi e le direzioni di ricerca, valutando ogni sei mesi che i progressi dello studente portino ad un contributo di ricerca originale e appropriato per il completamento di una tesi di dottorato.

ATTIVITÀ DI RICERCA SCIENTIFICA

PUBBLICAZIONI SCIENTIFICHE

(per ciascuna pubblicazione indicare: nomi degli autori, titolo completo, casa editrice, data e luogo di pubblicazione, codice ISBN, ISSN, DOI o altro equivalente)

160 pubblicazioni con revisione tra pari, di cui 67 come primo/ultimo autore. H-index=69, i-10 index=138, citations= 29305 citations (google scholar, 31/07/2023)

1. Nogal A, [16 authors], Menni C. Predictive metabolites for incident myocardial infarction: a two-step meta-analysis of Individual Patient Data from six cohorts comprising 7,897 individuals from the the Consortium of METabolomic Studies. **Card Res**, *in press*.
2. Nogal A, [24 authors], Menni C. Genetic and gut microbiome determinants of SCFA circulating and faecal levels, postprandial responses and links to chronic and acute inflammation. **Gut microbes**, 2023. <https://dx.doi.org/10.1080/19490976.2023.2240050>.
3. van der Spek A, et al. Circulating metabolites modulated by diet are associated with depression. **Mol Psychiatry**. 2023 Jul 26. doi: 10.1038/s41380-023-02180-2.
4. Louca P, [13 authors], Menni C. Plasma protein N-glycome composition associates with postprandial lipaemic response. **BMC Med**. 2023 Jul 3;21(1):231. doi: 10.1186/s12916-023-02938-z.
5. Österdahl MF, et al. Metabolomic and gut microbiome profiles across the spectrum of community-based COVID and non-COVID disease. **Sci Rep**. 2023 Jun 27;13(1):10407. doi: 10.1038/s41598-023-34598-7.
6. Bermingham KM, et al. Characterisation of Fasting and Postprandial NMR Metabolites: Insights from the ZOE PREDICT 1 Study. **Nutrients**. 2023 Jun 5;15(11):2638. doi: 10.3390/nu15112638.
7. Li Y, [7 authors], Menni C, Rodriguez-Mateos A. Interplay between the (Poly)phenol Metabolome, Gut Microbiome, and Cardiovascular Health in Women: A Cross-Sectional Study from the TwinsUK Cohort. **Nutrients**. 2023 Apr 14;15(8):1900. doi: 10.3390/nu15081900.
8. Louca P, [27 authors], Menni C. The secondary bile acid isoursodeoxycholate correlates with postprandial lipemia, inflammation, and appetite and changes post-bariatric surgery. **Cell Rep Med**. 2023 Apr 18;4(4):100993. doi: 10.1016/j.xcrm.2023.100993.
9. Valles-Colomer M*, Menni C*, Berry SE, Valdes AM, Spector TD, Segata N. Cardiometabolic health, diet and the gut microbiome: a meta-omics perspective. **Nat Med**. 2023 Mar;29(3):551-561. doi: 10.1038/s41591-023-02260-4.
10. Beynon-Cobb B, Louca P, Hoorn EJ, Menni C*, Padmanabhan S*. Effect of Sodium Bicarbonate on Systolic Blood Pressure in CKD: A Systematic Review and Meta- Analysis. **Clin J Am Soc Nephrol**. 2023 Apr 1;18(4):435-445. doi: 10.2215/CJN.000000000000119.
11. Louca P, [8 authors], Menni C. Postprandial Responses to a Standardised Meal in Hypertension: The Mediator Role of Visceral Fat Mass. **Nutrients**. 2022 Oct 26;14(21):4499. doi: 10.3390/nu14214499.
12. Surendran P, et al. Rare and common genetic determinants of metabolic individuality and their effects on human health. **Nat Med**. 2022 Nov;28(11):2321-2332. doi: 10.1038/s41591-022-02046-0.
13. Mompeo O, [7 authors], Menni C, Mangino M. Genome-Wide Association Analysis of Over 170,000 Individuals from the UK Biobank Identifies Seven Loci Associated with Dietary Approaches to Stop Hypertension (DASH) Diet. **Nutrients**. 2022 Oct 21;14(20):4431. doi: 10.3390/nu14204431.
14. Louca P, [7 authors], Menni C. Machine learning integration of multimodal data identifies key features of blood pressure regulation. **EBioMedicine**. 2022 Oct;84:104243. doi: 10.1016/j.ebiom.2022.104243.

15. Louca P, [19 authors], Menni C. Cross-Sectional Blood Metabolite Markers of Hypertension: A Multicohort Analysis of 44,306 Individuals from the CONsortium of METabolomics Studies. **Metabolites**. 2022 Jun 28;12(7):601. doi: 10.3390/metabo12070601.
16. Christiansen C, et al. Adipose methylome integrative-omic analyses reveal genetic and dietary metabolic health drivers and insulin resistance classifiers. **Genome Med**. 2022 Jul 18;14(1):75. doi: 10.1186/s13073-022-01077-z.
17. May-Wilson S, et al. Large-scale GWAS of food liking reveals genetic determinants and genetic correlations with distinct neurophysiological traits. **Nat Commun**. 2022 May 18;13(1):2743. doi: 10.1038/s41467-022-30187-w.
18. Menni C, May A, Polidori L, Louca P, Wolf J, Capdevila J, Hu C, Ourselin S, Steves CJ, Valdes AM, Spector TD. COVID-19 vaccine waning and effectiveness and side-effects of boosters: a prospective community study from the ZOE COVID Study. **Lancet Infect Dis**. 2022 Jul;22(7):1002-1010. doi: 10.1016/S1473-3099(22)00146-3.
19. Menni C, et al. Symptom prevalence, duration, and risk of hospital admission in individuals infected with SARS-CoV-2 during periods of omicron and delta variant dominance: a prospective observational study from the ZOE COVID Study. **Lancet**. 2022 Apr 23;399(10335):1618-1624. doi: 10.1016/S0140-6736(22)00327-0.
20. Klimentidis YC, et al. Genome-wide Association Study of Liking for Several Types of Physical Activity in the UK Biobank and Two Replication Cohorts. **Med Sci Sports Exerc**. 2022 Aug 1;54(8):1252-1260. doi: 10.1249/MSS.0000000000002907.
21. Deriš H, [9 authors], Menni C, Lauc G. Immunoglobulin G glycome composition in transition from premenopause to postmenopause. **iScience**. 2022 Feb 10;25(3):103897. doi: 10.1016/j.isci.2022.103897.
22. Nogal A, [13 authors] Menni C. Incremental Value of a Panel of Serum Metabolites for Predicting Risk of Atherosclerotic Cardiovascular Disease. **J Am Heart Assoc**. 2022 Feb 15;11(4):e024590. doi: 10.1161/JAHA.121.024590.
23. Le Roy CI, et al. Yoghurt consumption is associated with changes in the composition of the human gut microbiome and metabolome. **BMC Microbiol**. 2022 Feb 3;22(1):39. doi: 10.1186/s12866-021-02364-2.
24. Nguyen LH, et al. Self-reported COVID-19 vaccine hesitancy and uptake among participants from different racial and ethnic groups in the United States and United Kingdom. **Nat Commun**. 2022 Feb 1;13(1):636. doi: 10.1038/s41467-022-28200-3.
25. Hysi PG, Mangino M, Christofidou P, Falchi M, Karoly ED, Nihl Bioresource Investigators, Mohny RP, Valdes AM, Spector TD, Menni C. Metabolome Genome-Wide Association Study Identifies 74 Novel Genomic Regions Influencing Plasma Metabolites Levels. **Metabolites**. 2022 Jan 11;12(1):61. doi: 10.3390/metabo12010061.
26. Tettamanzi F, [12 authors], Menni C. A High Protein Diet Is More Effective in Improving Insulin Resistance and Glycemic Variability Compared to a Mediterranean Diet-A Cross-Over Controlled Inpatient Dietary Study. **Nutrients**. 2021 Dec 7;13(12):4380. doi: 10.3390/nu13124380.
27. Louca P, [9 authors], Menni C. Body mass index mediates the effect of the DASH diet on hypertension: Common metabolites underlying the association. **J Hum Nutr Diet**. 2022 Feb;35(1):214-222. doi: 10.1111/jhn.12956.
28. Cvetko A, [8 authors], Menni C, Gornik O. Plasma N-glycome shows continuous deterioration as the diagnosis of insulin resistance approaches. **BMJ Open Diabetes Res Care**. 2021 Sep;9(1):e002263. doi: 10.1136/bmjdr-2021-002263.
29. Merino J, et al. Diet quality and risk and severity of COVID-19: a prospective cohort study. **Gut**. 2021 Nov;70(11):2096-2104. doi: 10.1136/gutjnl-2021-325353.

30. Ruth KS, et al. Genetic insights into biological mechanisms governing human ovarian ageing. **Nature**. 2021 Aug;596(7872):393-397. doi: 10.1038/s41586-021-03779-7.
31. Vijay A, Astbury S, Panayiotis L, Marques FZ, Spector TD, Menni C, Valdes AM. Dietary Interventions Reduce Traditional and Novel Cardiovascular Risk Markers by Altering the Gut Microbiome and Their Metabolites. **Front Cardiovasc Med**. 2021 Jul 14;8:691564. doi: 10.3389/fcvm.2021.691564.
32. Nogal A, [7 authors], Menni C. Circulating Levels of the Short-Chain Fatty Acid Acetate Mediate the Effect of the Gut Microbiome on Visceral Fat. **Front Microbiol**. 2021 Jul 15;12:711359. doi: 10.3389/fmicb.2021.711359.
33. Louca P, [24 authors], Menni C. Modest effects of dietary supplements during the COVID-19 pandemic: insights from 445 850 users of the COVID-19 Symptom Study app. **BMJ Nutr Prev Health**. 2021 Apr 19;4(1):149-157. doi: 10.1136/bmjnp-2021-000250.
34. Kifer D, [14 authors], Menni C. N-glycosylation of immunoglobulin G predicts incident hypertension. **J Hypertens**. 2021 Dec 1;39(12):2527-2533. doi: 10.1097/HJH.0000000000002963.
35. Zouiouich S, et al. Markers of metabolic health and gut microbiome diversity: findings from two population-based cohort studies. **Diabetologia**. 2021 Aug;64(8):1749-1759. doi: 10.1007/s00125-021-05464-w.
36. Pan XF, et al. Associations of circulating choline and its related metabolites with cardiometabolic biomarkers: an international pooled analysis. **Am J Clin Nutr**. 2021 Sep 1;114(3):893-906. doi: 10.1093/ajcn/nqab152.
37. Minichino A, et al. Endocannabinoid system mediates the association between gut-microbial diversity and anhedonia/amotivation in a general population cohort. **Mol Psychiatry**. 2021 Nov;26(11):6269-6276. doi: 10.1038/s41380-021-01147-5.
38. Louca P, [9 authors], Menni C. Gut microbiome diversity and composition is associated with hypertension in women. **J Hypertens**. 2021 Sep 1;39(9):1810-1816. doi: 10.1097/HJH.0000000000002878.
39. Greto VL, et al. Extensive weight loss reduces glycan age by altering IgG N-glycosylation. **Int J Obes (Lond)**. 2021 Jul;45(7):1521-1531. doi: 10.1038/s41366-021-00816-3
40. Menni C, et al. Vaccine side-effects and SARS-CoV-2 infection after vaccination in users of the COVID Symptom Study app in the UK: a prospective observational study. **Lancet Infect Dis**. 2021 Jul;21(7):939-949. doi: 10.1016/S1473-3099(21)00224-3.
41. Valdes AM, et al. Longitudinal assessment of symptoms and risk of SARS-CoV-2 infection in healthcare workers across 5 hospitals to understand ethnic differences in infection risk. **EClinicalMedicine**. 2021 Apr;34:100835. doi: 10.1016/j.eclinm.2021.100835.
42. Yang JJ, et al. Circulating trimethylamine N-oxide in association with diet and cardiometabolic biomarkers: an international pooled analysis. **Am J Clin Nutr**. 2021 May 8;113(5):1145-1156. doi: 10.1093/ajcn/nqaa430.
43. Nogal A, Valdes AM, Menni C. The role of short-chain fatty acids in the interplay between gut microbiota and diet in cardio-metabolic health. **Gut Microbes**. 2021 Jan-Dec;13(1):1-24. doi: 10.1080/19490976.2021.1897212.
44. Sudre CH, et al. Symptom clusters in COVID-19: A potential clinical prediction tool from the COVID Symptom Study app. **Sci Adv**. 2021 Mar 19;7(12):eabd4177. doi: 10.1126/sciadv.abd4177.
45. Sudre CH, et al. Attributes and predictors of long COVID. **Nat Med**. 2021 Apr;27(4):626-631. doi: 10.1038/s41591-021-01292-y.

46. Menni C, et al. High intake of vegetables is linked to lower white blood cell profile and the effect is mediated by the gut microbiome. **BMC Med**. 2021 Feb 11;19(1):37. doi: 10.1186/s12916-021-01913-w.
47. Williams FMK, et al. Self-Reported Symptoms of COVID-19, Including Symptoms Most Predictive of SARS-CoV-2 Infection, Are Heritable. **Twin Res Hum Genet**. 2020 Dec;23(6):316-321.
48. Kifer D, et al. Effects of Environmental Factors on Severity and Mortality of COVID-19. **Front Med (Lausanne)**. 2021 Jan 20;7:607786. doi: 10.3389/fmed.2020.607786.
49. Leeming ER, Louca P, Gibson R, Menni C, Spector TD, Le Roy CI. The complexities of the diet-microbiome relationship: advances and perspectives. **Genome Med**. 2021 Jan 20;13(1):10. doi: 10.1186/s13073-020-00813-7.
50. Mompeo O, Gibson R, Christofidou P, Spector TD, Menni C, Mangino M. Genetic and Environmental Influences of Dietary Indices in a UK Female Twin Cohort. **Twin Res Hum Genet**. 2020 Dec;23(6):330-337. doi: 10.1017/thg.2020.84.
51. Bowyer RCE, [15 authors], Menni C. Geo-social gradients in predicted COVID-19 prevalence in Great Britain: results from 1 960 242 users of the COVID-19 Symptoms Study app. **Thorax**. 2021 Jul;76(7):723-725. doi: 10.1136/thoraxjnl-2020-215119.
52. Mompeo O, Berry SE, Spector TD, Menni C, Mangino M, Gibson R. Differential associations between a priori diet quality scores and markers of cardiovascular health in women: cross-sectional analyses from TwinsUK. **Br J Nutr**. 2021 Oct 14;126(7):1017-1027. doi: 10.1017/S000711452000495X.
53. Surendran P, et al. Discovery of rare variants associated with blood pressure regulation through meta-analysis of 1.3 million individuals. **Nat Genet**. 2020 Dec;52(12):1314-1332. doi: 10.1038/s41588-020-00713-x.
54. Bar N, et al. A reference map of potential determinants for the human serum metabolome. **Nature**. 2020 Dec;588(7836):135-140. doi: 10.1038/s41586-020-2896-2.
55. Menni C, Sudre CH, Steves CJ, Ourselin S, Spector TD. Widespread smell testing for COVID-19 has limited application - Authors' reply. **Lancet**. 2020 Nov 21;396(10263):1630-1631. doi: 10.1016/S0140-6736(20)32316-3.
56. Lee KA, et al. Cancer and Risk of COVID-19 Through a General Community Survey. **Oncologist**. 2021 Jan;26(1):e182-5. doi: 10.1634/theoncologist.2020-0572.
57. Louca P, Mompeo O, Leeming ER, Berry SE, Mangino M, Spector TD, Padmanabhan S, Menni C. Dietary Influence on Systolic and Diastolic Blood Pressure in the TwinsUK Cohort. **Nutrients**. 2020 Jul 17;12(7):2130. doi: 10.3390/nu12072130.
58. Mompeo O, [9 authors], Menni C. Consumption of Stilbenes and Flavonoids is Linked to Reduced Risk of Obesity Independently of Fiber Intake. **Nutrients**. 2020 Jun 23;12(6):1871. doi: 10.3390/nu12061871.
59. Menni C, et al. Serum metabolites reflecting gut microbiome alpha diversity predict type 2 diabetes. **Gut Microbes**. 2020 Nov 1;11(6):1632-1642. doi: 10.1080/19490976.2020.1778261.
60. Menni C, Sudre CH, Steves CJ, Ourselin S, Spector TD. Quantifying additional COVID-19 symptoms will save lives. **Lancet**. 2020 Jun 20;395(10241):e107-e108. doi: 10.1016/S0140-6736(20)31281-2.
61. Menni C, et al. Real-time tracking of self-reported symptoms to predict potential COVID-19. **Nat Med**. 2020 Jul;26(7):1037-1040. doi: 10.1038/s41591-020-0916-2.
62. Drew DA, et al. Rapid implementation of mobile technology for real-time epidemiology of COVID-19. **Science**. 2020 Jun 19;368(6497):1362-1367. doi: 10.1126/science.abc0473.

63. Louca P, Menni C, Padmanabhan S. Genomic Determinants of Hypertension With a Focus on Metabolomics and the Gut Microbiome. **Am J Hypertens**. 2020 May 21;33(6):473-481. doi: 10.1093/ajh/hpaa022.
64. Nag A, et al. Genome-wide scan identifies novel genetic loci regulating salivary metabolite levels. **Hum Mol Genet**. 2020 Mar 27;29(5):864-875. doi: 10.1093/hmg/ddz308.
65. Menni C, et al. Metabolomic profiling identifies novel associations with Electrolyte and Acid-Base Homeostatic patterns. **Sci Rep**. 2019 Oct 21;9(1):15088. doi: 10.1038/s41598-019-51492-3.
66. Ho A, et al. Circulating glucuronic acid predicts healthspan and longevity in humans and mice. **Aging (Albany NY)**. 2019 Sep 26;11(18):7694-7706. doi: 10.18632/aging.102281.
67. Verdi S, et al. TwinsUK: The UK Adult Twin Registry Update. **Twin Res Hum Genet**. 2019 Dec;22(6):523-529. doi: 10.1017/thg.2019.65.
68. Deelen J, et al. A metabolic profile of all-cause mortality risk identified in an observational study of 44,168 individuals. **Nat Commun**. 2019 Aug 20;10(1):3346. doi: 10.1038/s41467-019-11311-9.
69. Le Roy CI, et al. Dissecting the role of the gut microbiota and diet on visceral fat mass accumulation. **Sci Rep**. 2019 Jul 5;9(1):9758. doi: 10.1038/s41598-019-46193-w.
70. Yu B, et al. The Consortium of Metabolomics Studies (COMETS): Metabolomics in 47 Prospective Cohort Studies. **Am J Epidemiol**. 2019 Jun 1;188(6):991-1012. doi: 10.1093/aje/kwz028.
71. Menni C, Hernandez MM, Vital M, Mohny RP, Spector TD, Valdes AM. Circulating levels of the anti-oxidant indolepropionic acid are associated with higher gut microbiome diversity. **Gut Microbes**. 2019;10(6):688-695. doi: 10.1080/19490976.2019.1586038.
72. Menni C, Valdes AM. Microbiome genetics links short-chain fatty acids to metabolic diseases. **Nat Metab**. 2019 Apr;1(4):420-421. doi: 10.1038/s42255-019-0056-5.
73. Wells PM, Williams FMK, Matey-Hernandez ML, Menni C, Steves CJ. 'RA and the microbiome: do host genetic factors provide the link? **J Autoimmun**. 2019 May;99:104-115. doi: 10.1016/j.jaut.2019.02.004.
74. Valdes AM, Menni C. Inflammatory markers and mediators in heart disease. **Aging (Albany NY)**. 2018 Nov 9;10(11):3061-3062. doi: 10.18632/aging.101640.
75. Hysi PG, et al. Ascorbic acid metabolites are involved in intraocular pressure control in the general population. **Redox Biol**. 2019 Jan;20:349-353. doi: 10.1016/j.redox.2018.10.004.
76. Ligthart S, et al. Genome Analyses of >200,000 Individuals Identify 58 Loci for Chronic Inflammation and Highlight Pathways that Link Inflammation and Complex Disorders. **Am J Hum Genet**. 2018 Nov 1;103(5):691-706. doi: 10.1016/j.ajhg.2018.09.009.
77. Barrios C, [18 authors], Menni C. Circulating metabolic biomarkers of renal function in diabetic and non- diabetic populations. **Sci Rep**. 2018 Oct 15;8(1):15249. doi: 10.1038/s41598-018-33507-7.
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* ugual contributo

ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI CENTRI O GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI O PARTECIPAZIONE AGLI STESSI
(per ciascuna voce inserire anno, ruolo, gruppo di ricerca, ecc.)

07/2018-07/2023 **Lead investigator** del working group “infarto al miocardio” del consorzio COMETS COnsortium of METabolomics Studies)

02/2017 -> **Lead investigator** del working group “ipertensione” del consorzio COMETS COnsortium of METabolomics Studies)

18/08/2011-02/02/2013 Partecipazione a studio multicentrico (TwinsUK, Wellcome Trust, KORA) finanziato da Pfizer su associazione tra metaboliti, geni e diabete di tipo 2. **Responsabile delle analisi statistiche dei dati di metabolomica** per identificare biomarcatori del diabete di tipo 2.

01/07/2015-> Medical Resource Council (MRC), AimHy grant -**responsabile delle analisi statistiche del quarto work strand** "Defining mechanisms: multi-omic studies in TwinsUK and SABRE"
<http://www.aimhy.org.uk/our-research/ws4/>

01/02/2013-30/01/2015 Progetto Horizon 2020- EurHealthAgeing, **direzione del work strand 1** "data mining" Responsabile e coordinatore del work strand 1 "data mining" - analisi statistiche legate ai dati di metabolomica e alla loro associazione con fenotipi legati all'età cronologica e biologica

ATTIVITÀ QUALI LA DIREZIONE O LA PARTECIPAZIONE A COMITATI EDITORIALI DI RIVISTE SCIENTIFICHE (per ciascuna voce inserire anno, ruolo, rivista scientifica, ecc.)

Da 17/07/2023: Associate Editor, Frontiers in Microbiology per la sezione Host and Microbe Associations

2020-2022 Editorial Board, Journal of Hypertension

01/07/2015- 01/07/2022 Editorial Board, Physiological genomics per la sezione Translational and Precision Medicine.

Revisore per Nature Genetics, Nature Metabolism, Nature Medicine, Nature Communication, Lancet Infectious Diseases, Lancet Public Health, International Journal of Obesity, Circulation Research, Hypertension, BMC medicine, Diabetes ecc.

Revisore per le seguenti fondazioni di ricerca: UKRI, MRC, H2020 (ERC) , BHF e Wellcome Trust2008.

PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA (inserire premio, data, ente organizzatore, ecc.)

07/2023 King's College London, Research Impact Award for COVID research

14/03/2022 Invito alla Camera dei Lord (House of Lords Londra) all'evento organizzato dal gruppo All-Party Parliamentary Group (APPG) on medical research, per ringraziare gli scienziati che si sono impegnati in prima linea nella ricerca sul COVID per il loro sforzo instancabile. Evento: 'Tackling COVID-19: Recognising the exceptional research response'.

14/12/2018 Premio di King's College London per eccezionale prestazione accademica. Questo premio viene conferito annualmente dall'Università ad accademici (di diverso livello contrattuale) che hanno contribuito alla ricerca in maniera eccellente

2007-2010 Borsa di dottorato, Università degli studi Milano-Bicocca, Italia

2007-2008 Borsa di studio Giovani più promettenti per lo studio delle componenti genetiche dell'ipertensione e del rischio cardiovascolare, Università degli studi Milano-Bicocca, Italia

2005- 2006 Borsa di studio Giovani più promettenti per lo sviluppo di modelli statistici in studi epidemiologici per studiare la relazione tra fattori sociali e rischio cardiovascolare

RESPONSABILITA' SCIENTIFICA (PI/CO-I) PER PROGETTI DI RICERCA INTERNAZIONALI E NAZIONALI, AMMESSI AL FINANZIAMENTO SULLA BASE DI BANDI COMPETITIVI CHE PREVEDANO LA REVISIONE TRA PARI

Medical Research Council, UKRI ageing developmental award, Valdes AV, Timmons S, Gordon A, Ollivere B, Menni C, Falchi M, "Identifying and targeting modifiable inflammatory factors underlying higher risk of frailty in individuals experiencing deprivation", GBP 319014.47, (to KCL GBP 160,112.92) 30/09/2023-30/03/2025, ruolo: *Co-investigator e Principal KCL investigator*.

Medical Research Council, Valdes AV, Kluzek S, Menni C, Taylor K, Vijay A, "Identifying and validating molecular signatures involved in endocannabinoid induced pain relief in humans", Project grant, GBP 529,131.07 (to KCL: GBP 30,655.75), 16/05/2022-15/05/2025, ruolo: *Co-investigator e Principal KCL investigator*.

Chronic Disease Research Foundation, Menni C (PI), Lauc G, Valdes AV, Mohnhey R. "Using the faecal metabolomics and serum glycomics to unravel the microbiome inflammatory pathways causative of cardiovascular disease", Project grant, GBP 704,689.00, 01/12/2019-30/04/2026, ruolo: *principal investigator*.

Chronic Disease Research Foundation, Menni C (PI), "Targeting the gut microbiome and its metabolites to improve cardiovascular outcomes", Personal Fellowship, GBP 321,086.00, 01/12/2019-30/11/2023 ruolo: *principal investigator*.

Chronic Disease Research Foundation, Menni C (PI), Berry S, "Influence of the gut microbiome on inter-individual differences in blood pressure at fasting and in response to a combined glycaemic and lipaemic test meal challenge", PhD Studentship, GBP 149,999.34, 01/10/2018-30/06/2023, ruolo: *principal investigator*.

Chronic Disease Research Foundation, Menni C (PI), "A statistical framework for personalized nutrition recommendations based on genetic and anthropometric data", PhD Studentship, GBP 87,844.00, 01/10/2017-30/09/2021, ruolo: *principal investigator*.

Chronic Disease Research Foundation, Menni C (PI), Spector TD, "Exploring the cardio-metabolic health-associated faecal metabolome", PhD Studentship, GBP 162,442.00, 01/10/2017- 30/09/2023, ruolo: *principal investigator*.

Metabolon Inc., Menni C, Spector TD, "Profiling serum, stool, saliva and urine metabolites in TwinsUK", in kind contribution, GBP 1,203,691.95, 2020-2021

PARTECIPAZIONE IN QUALITÀ DI RELATORE A CONGRESSI E CONVEGNI DI INTERESSE INTERNAZIONALE
(inserire titolo congresso/convegno, data, ecc.)

15/09/2022 Workshop organizzato dal GERMAN BIOBANK NODE (GBN) su Biobanking in Microbiome Research, Hannover, Germania 15/09/2022 Presentazione orale (invited speaker) The gut microbiome, diet and cardiometabolic health

24/05/2022 32nd European Congress of Clinical Microbiology & Infectious Diseases, Lisbona Portogallo Presentazione orale (invited speaker) per il Lancet Group Titolo della presentazione: Symptom prevalence, duration, and risk of hospital admission in individuals infected with SARS-CoV-2 during periods of omicron and delta variant dominance: a prospective observational study from the ZOE COVID Study

11/02/2022 Ciclo di seminari organizzati dalla Fondation Leducq, per il miglioramento della salute umana attraverso sforzi internazionali per combattere le malattie cardiovascolari. Presentazione orale (invited speaker) per la sessione Webinar su funzione cardiaca rigenerativa. Titolo della presentazione "Talk Title: Metabolomics and gut microbiome in cardiovascular health"

02/06/2020 Conferenza sul Covid 19 "Covid-19 Nose: Upper Airway Symptoms and Cell Biology Relevant to SARS-CoV-2" organizzata in remoto da Monell Chemical Senses Center, Philadelphia Titolo della presentazione orale (invited speaker): Loss of smell and taste in combination with other symptoms is a strong predictor of COVID-19 infection.

08/07/2019 Congresso organizzato dal Centro Europeo per la tossicologia (ECETOC) per gli esperti di microbioma Porto, Portogallo 2019. Titolo della presentazione orale (invited speaker): The fecal metabolome as a functional readout of the gut microbiome.

24/05/2016 Convegno organizzato dal Metabolomics Interest Group presso il National Institute of Health, Washington DC. Presentazione orale via Webinar. Titolo della presentazione: "Metabolomics of Blood Pressure Regulation"

10/06/2016-13/06/2016 European Society of Hypertension, Parigi 2016. Presentazione orale: "Blood pressure and hexadecanedioate: dissecting functional pathways", late breaker session

11/07/2016-14/07/2016 Nutrition Society Summer Conference, Dublino 2016. Relazione orale plenaria: "Lessons on dietary biomarkers from Twin Studies"

28/10/2014-29/10/2014 Metabolomics Think Tank Meeting organizzato dal National Cancer Institute, parte del National Institute of Health, Washington DC 2014. Presentazione orale: "TwinsUK"

15/04/2014 Istituto Nazionale di genetica molecolare, Ospedale Maggiore Policlinico di Milano. Presentazione orale: "A multi-omics approach to study blood pressure regulation"

19/06/2013 European Society of Hypertension, Satellite symposium "Gene- environment interaction in hypertension, Padova 2013 Presentazione orale "Genetic and metabolomic regulation of blood pressure"

26/04/2012-29/04/2012 European Society of Hypertension, presentazione orale "Heritability studies in twins show absence of genetic effect on visit-to-visit blood pressure variability", late breaker session. La presentazione è stata selezionata come una delle 13 meeting highlights e ha vinto ESH

ATTIVITÀ GESTIONALI, ORGANIZZATIVE E DI SERVIZIO

INCARICHI DI GESTIONE E AD IMPEGNI ASSUNTI IN ORGANI COLLEGIALI E COMMISSIONI, PRESSO RILEVANTI ENTI PUBBLICI E PRIVATI E ORGANIZZAZIONI SCIENTIFICHE E CULTURALI, OVVERO PRESSO L'ATENEO O ALTRI ATENEI

(inserire incarico/impegno, ente, data, ecc.)

22/12/2022 -> membro del consiglio di amministrazione della fondazione Angelo Bianchi Bonomi per lo studio e la ricerca nel campo dell'emofilia, della trombosi e delle malattie emorragiche.

16/06/2020 -> membro del comitato esecutivo di TwinsUK (TREC: Department of Twin Research Executive Committee), King's College London. Il TREC supervisiona la gestione, la condivisione dei dati e le collaborazioni che coinvolgono il registro TwinsUK.

01/11/2014 -> membro fondatore e del comitato direttivo del consorzio COMETS (Consortium of METabolomics Studies) che promuove collaborazioni tra studi di metabolomica prospettici. Lead investigator del working group su ipertensione e infarto al miocardio

2013- > Head of metabolomics, Department of Twin Research & Genetic Epidemiology, King's College London

CONGEDI OBBLIGATORI EFFETTUATI

26/10/2018-06/05/2019: congedo per maternità.

06/07/2015 -18/01/2016: congedo per maternità.

01/08/2012-01/02/2013: congedo per maternità.

Data

31/07/2023

Luogo

Milano