


PERSONAL INFORMATION

Tommaso Filippini, MD, DrPH, PhD



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Sex Male | Date of birth 11 May 1986 | Nationality Italian

Research topics

- Epidemiological and statistical methods, including dose-response assessment
- Environmental and nutritional epidemiology, including interest in air pollution, pesticides, electromagnetic fields, light at night, acrylamide, green tea, heavy metals (e.g. cadmium, lead, mercury), sodium, potassium, trace elements (including selenium, manganese and other trace elements).
- Neurodegenerative and neurodevelopment diseases, including amyotrophic lateral sclerosis, early onset dementia, and attention deficit hyperactivity disorder
- Cancer and chronic diseases, including breast cancer, melanoma, childhood leukemia, cardiovascular disease, hypertension, and type 2 diabetes
- Risk assessment in both nutritional and environmental exposure
- COVID-19 epidemiology and risk factors

WORK EXPERIENCE

8 March 2022 – present

Associate Researcher

University of California Berkeley, School of Public Health

Research activity in the field of Environmental exposure and childhood leukemia

Business or sector Public Health

01 Oct 2019 – present

Assistente Professor in Hygiene and Preventive Medicine

University of Modena and Reggio Emilia

Research activity in the field of Public Health, Environmental and Nutritional Epidemiology

Business or sector Public Health

01 Nov 2018 – 31 Oct 2021

PhD program in Public Health and Preventive Medicine

University of Modena and Reggio Emilia

Research activity in the field of Public Health, Environmental and Nutritional Epidemiology

Business or sector Public Health

08 Aug 2018 – 24 Jul 2018

Residency program in Hygiene and Preventive Medicine

University of Modena and Reggio Emilia

Research activity in the field of Public Health, Environmental and Nutritional Epidemiology

Business or sector Public Health

17 Jun 2013 – 27 Aug 2013

Substitution of General Practitioner

Dr. Piancone, Via Albareto 740, Modena, Italy

Routine health care (e.g. physical examinations, immunizations) in ambulatory and outpatient setting

Business or sector Family Medicine/Public Health

EDUCATION AND TRAINING

- 2 Nov 2018 – 31 Oct 2021 **PhD Student in Clinical and Experimental Medicine**
 University of Modena and Reggio Emilia, Modena, Italy
 Thesis defense 27 May 2022
- 08 Aug 2018 – 24 Jul 2018 **Degree as Specialist in Hygiene and Preventive Medicine**
 University of Modena and Reggio Emilia, Modena, Italy
 Final evaluation 110/110 *cum laude*
- 2 Nov 2012 – 7 Feb 2013 **Professional Medical Qualification**
 University of Modena and Reggio Emilia, Modena, Italy
 Final evaluation 247.5/270
- 12 Sep 2006 – 4 Oct 2012 **Degree in Medicine and Surgery**
 University of Modena and Reggio Emilia, Modena, Italy
 Final evaluation 110/110 *cum laude*
- 12 Sep 2001 – 9 Jul 2005 **High school diploma (classical studies)**
 Liceo classico-scientifico Ariosto-Spallanzani, Reggio Emilia, Italia
 Final evaluation: 100/100

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDESTANDING		SPEAKING		WRITING
	Listenig	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1
French	A2	B2	A1	A1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Digital skills

SELF ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user

- good command of office suite (word processor, spread sheet, presentation software)
- good command of statistical software analysis (STATA: proficient user; SPSS: independent user)

Driving licences A, B (+ boating licence type Cat. A)

ADDITIONAL INFORMATION

- National abilitation - Italian National Scientific Qualification (ASN) 2018 for Associate Professor in 06/M1 sector, SSD MED/42 "General and Applied Hygiene" valid from May 10, 2019 to May 10, 2025
 - Italian National Scientific Qualification (ASN) 2018 for Full Professor in 06/M1 sector, SSD MED/42 "General and Applied Hygiene" valid from April 26, 2021 to April 26, 2030
- Publications **Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=56638659600>
Author ID: 56638659600 - H-index 32, Publications: 107; Total citations 30013 (22 Sept 2022)
 Publons: <https://publons.com/researcher/2296267/tommaso-filippini/>
 ResearchGate: <https://www.researchgate.net/profile/Tommaso-Filippini>

Publications in peer-reviewed journals (last 3 years):

- Adani G, **Filippini T**, Michalke B, Vinceti M. Selenium and other trace elements in the etiology of Parkinson's disease: a systematic review and meta-analysis of case-control studies. *Neuroepidemiology*. 2020;54(1):1-23. DOI: 10.1159/000502357
- Malagoli C, Malavolti M, Agnoli C, Farnetani F, Longo C, **Filippini T**, Pellacani G, Vinceti M. Food and beverage consumption and melanoma risk: a population-based case-control study in Northern Italy. *Nutrients*. 2019;11(9):2206. DOI: 10.3390/nu11092206
- **Filippini T**, Tancredi S, Malagoli M, Malavolti M, Bargellini A, Vescovi L, Nicolini F, Vinceti M. Dietary estimated intake of trace elements: risk assessment in an Italian population. *Exposure and Health*. 2020;12(4):641-655. DOI: 10.1007/s12403-019-00324-w
- **Filippini T**, Fiore M, Tesaro M, Malagoli C, Consonni M, Violi F, Arcolin E, Iacuzio L, Oliveri Conti G, Cristaldi A, Zuccarello P, Zucchi E, Mazzini L, Pisano F, Gagliardi I, Patti F, Mandrioli J, Ferrante M, Vinceti M. Clinical and lifestyle factors and risk of amyotrophic lateral sclerosis: a population-based case-control study. *International Journal of Environmental Research and Public Health*. 2020;17:857. DOI: 10.3390/ijerph17030857
- **Filippini T**, Malavolti M, Borrelli F, Izzo AA, Fairweather-Tait SJ, Horneber M, Vinceti M. Green tea (*Camellia sinensis*) for the prevention of cancer. *Cochrane Database of Systematic Reviews* 2020;3(3):CD005004. DOI: 10.1002/14651858.CD005004.pub3
- Loomba R, **Filippini T**, Chawla R, Chaudhary R, Cilloni S, Datt C, Singh S, Dhillon KS, Vinceti M. Exposure to a high selenium environment in Punjab, India: effects on blood chemistry. *Science of the Total Environment*. 2020;716:135347. DOI: 10.1016/j.scitotenv.2019.135347
- Chawla R, **Filippini T**, Loomba R, Cilloni S, Dhillon KS, Vinceti M. Exposure to a high selenium environment in Punjab, India: biomarkers and health conditions. *Science of the Total Environment*. 2020;719:134541. DOI: 10.1016/j.scitotenv.2019.134541
- **Filippini T**, Upson K, Adani G, Malagoli C, Baraldi C, Michalke B, Vinceti M. Comparison of Methodologies to Estimate Dietary Cadmium Intake in an Italian Population. *International Journal of Environmental Research and Public Health*. 2020;17(7):2264. DOI: 10.3390/ijerph17072264
- Adani G, **Filippini T**, Wise LA, Halldorsson TI, Blaha L, Vinceti M. Dietary intake of acrylamide and risk of breast, endometrial and ovarian cancers: A systematic review and dose-response meta-analysis. *Cancer Epidemiology, Biomarkers & Prevention*. 2020;29(6):1095-1106. DOI: 10.1158/1055-9965.EPI-19-1628
- Fiore M, Parisio R, **Filippini T**, Mantione V, Platania A, Odone A, Signorelli C, Pietrini V, Mandrioli J, teggi S, Costanzini S, Cristaldi A, Zuccarello P, Oliveri Conti G, Nicoletti A, Zappia M, Vinceti M, Ferrante M. Environmental exposure to cyanotoxins and risk of amyotrophic lateral sclerosis: A population based case-control study. *Environmental Research*. 2020;186:109530. DOI: 10.1016/j.envres.2020.109530
- **Filippini T**, Tesaro M, Fiore M, Malagoli C, Consonni M, Violi F, Iacuzio L, Arcolin E, Oliveri Conti G, Cristaldi A, Zuccarello P, Zucchi E, Mazzini L, Pisano F, Gagliardi I, Patti F, Mandrioli J, Ferrante M, Vinceti M. Environmental and occupational risk factors of amyotrophic lateral sclerosis: a population-based case-control study. *International Journal of Environmental Research and Public Health*. 2020;17(8):2882. DOI: 10.3390/ijerph17082882
- Tinkov AA, Ajsuvakova OP, **Filippini T**, Zhou J-C, Lei XG, Gatiatulina ER, Michalke B, Skalnaya MG, Vinceti M, Aschner M, Skalny AV. Selenium and selenoproteins in adipose tissue physiology and obesity. *Biomolecules*. 2020;10(4):65. DOI: 10.3390/biom10040658
- **Filippini T**, Naska A, Kasdagli M-I, Torres D, Lopes C, Carvalho C, Moreira P, Malavolti M, Orsini N, Whelton PK, Vinceti M. Potassium intake and blood pressure: A dose-response meta-analysis of randomized controlled trials. *Journal of the American Heart Association*. 2020;9(12):e015719. DOI: 10.1161/JAHA.119.015719
- Malavolti M, Fairweather-Tait SJ, Malagoli C, Vescovi L, Vinceti M, **Filippini T**. Lead exposure in an Italian population: Food content, dietary intake and risk assessment. *Food Research International*. 2020;137:109370. DOI: 10.1016/j.foodres.2020.109370
- **Filippini T**, Torres D, Lopes C, Carvalho C, Moreira P, Naska A, Kasdagli M-I, Malavolti M, Orsini N, Vinceti M. Cadmium exposure and risk of breast cancer: a dose-response meta-analysis of cohort studies. *Environment International*. 2020;142:105879. DOI: 10.1016/j.envint.2020.105879
- Vinceti M, **Filippini T**, Malavolti M, Naska A, Kasdagli M-I, Torres D, Lopes C, Carvalho C, Moreira P, Orsini N. Dose-response relationships in health risk assessment of nutritional and toxicological factors in foods: development and application of novel biostatistical methods. *EFSA Supporting Publications*. 2020;17(7):EN-1899. DOI: 10.2903/sp.efsa.2020.EN-1899
- **Filippini T**, Rothman KJ, Goffi A, Ferrari F, Maffei G, Orsini N, Vinceti M. Satellite-detected tropospheric nitrogen dioxide and spread of SARS-CoV-2 infection in Northern Italy. *Science of the Total Environment*. 2020;739:140278. DOI: 10.1016/j.scitotenv.2020.140278
- Vinceti M, **Filippini T**, Rothman KJ, Ferrari F, Goffi A, Maffei G, Orsini N. Lockdown timing and efficacy in controlling COVID-19 using mobile phone tracking. *EClinicalMedicine*.

- 2020;25:100457. DOI: 10.1016/j.eclinm.2020.100457
- Di Castelnuovo A, Bonaccio M, Costanzo S, Gialluisi A, Antinori A, Berselli N, Blandi L, Bruno R, Cauda R, Guaraldi G, My I, Menicanti L, Parruti A, Patti G, Perlini S, Santilli F, Signorelli C, Stefanini GG, Vergori A, Abbeddaim A, Ageno W, Agodi A, Agostoni P, Aiello L, Al Moghazi S, Aucella F, Barbieri G, Bartoloni A, Bologna C, Bonfanti P, Brancati S, Cacciatore F, Caiano L, Cannata F, Carrozzi L, Cascio A, Cingolani A, Cipollone F, Colomba C, Crisetti A, Crosta F, Danzi GB, D'Ardes D, de Gaetano Donati K, Di Gennaro F, Di Palma G, Di Tano G, Fantoni M, **Filippini T**, Fioretto P, Fusco FM, Gentile I, Grisafi L, Guarnieri G, Landi F, Larizza G, Leone A, Maccagni G, Maccarella S, Mapelli M, Maragna R, Marcucci R, Maresca G, Marotta C, Marra L, Mastroianni F, Mengozzi A, Menichetti F, Milic J, Miurri R, Montineri A, Mussinelli R, Mussini C, Musso M, Odone A, Olivieri M, Pasi E, Petri F, Pinchera B, Pivato CA, Pizzi R, Poletti V, Raffaelli F, Ravaglia C, Righetti G, Rognoni A, Rossato M, Rossi M, Sabena A, Salinaro F, Sangiovanni V, Sanrocco C, Scarafino A, Scorzolini L, Sgariglia R, Simeone PG, Spinoni E, Torti C, Trearichi EM, Vezzani F, Veronesi G, Vettor R, Vianello A, Vinceti M, De Caterina R, Iacoviello L, THE COVID-19 RISK and Treatments (CORIST) collaboration. Common cardiovascular risk factors and in-hospital mortality in 3,894 patients with COVID-19: survival analysis and machine learning-based findings from the multicentre Italian CORIST Study. *Nutrition, Metabolism and Cardiovascular Diseases*. 2020;30(11):1899-1913. DOI: 10.1016/j.numecd.2020.07.031
 - Di Castelnuovo A, Costanzo S, Antinori A, Berselli N, Blandi L, Bruno R, Cauda R, Guaraldi G, Menicanti L, My I, Parruti G, Patti G, Perlini S, Santilli F, Signorelli C, Spinoni E, Stefanini GG, Vergori A, Ageno W, Agodi A, Aiello L, Agostoni P, Al Moghazi S, Astuto M, Aucella F, Barbieri G, Bartoloni A, Bonaccio M, Bonfanti P, Cacciatore F, Caiano L, Cannata F, Carrozzi L, Cascio A, Ciccullo A, Cingolani A, Cipollone F, Colomba C, Crosta F, Dal Pra C, Danzi GB, D'Ardes D, de Gaetano Donati K, Del Giacomo P, Di Gennaro F, Di Tano G, D'Offizi G, **Filippini T**, Fusco FM, Gentile I, Gialluisi A, Gini G, Grandone E, Grisafi L, Guarnieri G, Lamonica S, Landi F, Leone A, Maccagni G, Maccarella S, Madaro A, Mapelli M, Maragna R, Marra L, Maresca G, Marotta C, Mastroianni F, Mazzitelli M, Mengozzi A, Menichetti F, Meschiari M, Minutolo F, Montineri A, Mussinelli R, Mussini C, Musso M, Odone A, Olivieri M, Pasi E, Petri F, Pinchera B, Pivato CA, Poletti V, Ravaglia C, Rinaldi M, Rognoni A, Rossato M, Rossi I, Rossi M, Sabena A, Salinaro F, Sangiovanni V, Sanrocco C, Scorzolini L, Sgariglia R, Simeone PG, Spinicci M, Trearichi EM, Venezia A, Veronesi G, Vettor R, Vianello A, Vinceti M, Vocciante L, De Caterina R, Iacoviello L. Use of hydroxychloroquine in hospitalised COVID-19 patients is associated with reduced mortality: findings from the observational multicentre Italian CORIST Study. *European Journal of Internal Medicine*. 2020;82:38-47. DOI: 10.1016/j.ejim.2020.08.019
 - Gandolfi D, Pagnoni G, **Filippini T**, Goffi A, Vinceti M, D'Angelo EU, Mapelli J. Dynamic causal modeling of the COVID-19 pandemic in northern Italy predicts possible scenarios for the second wave. *medRxiv*. 2020.08.20.20178798. DOI: 10.1101/2020.08.20.20178798
 - **Filippini T**, Tesaro M, Fiore M, Malagoli C, Consonni M, Violi F, Iacuzio L, Arcolin E, Oliveri Conti G, Cristaldi A, Zuccarello P, Zucchi E, Mazzini L, Pisano F, Gagliardi I, Patti F, Mandrioli J, Ferrante M, Vinceti M. Reply to Comment on "Environmental and occupational risk factors of amyotrophic lateral sclerosis: a population-based case-control study". *International Journal of Environmental Research and Public Health*. 2020;17(18):E6492. DOI: 10.3390/ijerph17186492
 - Chiari A, Vinceti G, Adani G, Tondelli M, Galli C, Fiondella L, Costa M, Molinari MA, **Filippini T**, Zamboni G, Vinceti M. Epidemiology of early onset dementia and its clinical presentations in the province of Modena, Italy. *Alzheimer's and Dementia*. 2021;17(1):31-88. DOI: 10.1002/alz.12177
 - Adani G, **Filippini T**, Garuti C, Malavolti M, Vinceti G, Zamboni G, Tondelli M, Galli C, Costa M, Vinceti M, Chiari A. Environmental risk factors for early-onset Alzheimer's dementia and frontotemporal dementia: a case-control study in Northern Italy. *International Journal of Environmental Research and Public Health*. 2020;17(21):7941. DOI: 10.3390/ijerph17217941
 - **Filippini T**, Rothman KJ, Cocchio S, Narne E, Mantoan D, Saia M, Goffi A, Ferrari F, Maffei G, Orsini N, Baldo V, Vinceti M. Association between mortality from COVID-19 in two Italian regions and outdoor air pollution as assessed through tropospheric nitrogen dioxide. *Science of the Total Environment* 2021;760:143355. DOI: 10.1016/j.scitotenv.2020.143355
 - **Filippini T**, Adani G, Garuti C, Malavolti M, Cilloni S, Vinceti G, Zamboni G, Tondelli M, Galli C, Costa M, Chiari A, Vinceti M. Dietary habits and risk of early onset dementia in an Italian case-control study. *Nutrients*. 2020;12(12):3682. DOI: 10.3390/nu12123682
 - Grasso A, Ferrante M, Zuccarello P, **Filippini T**, Arena G, Fiore M, Cristaldi A, Oliveri Conti G, Copat C. Chemical characterization and quantification of titanium dioxide nanoparticles (TiO₂-NPs) in seafood by single-particle ICP-MS: Assessment of dietary exposure. *International Journal of Environmental Research and Public Health*. 2020;17(24):9547. DOI: 10.3390/ijerph17249547
 - Tesaro M, Bruschi M, **Filippini T**, D'Alfonso S, Mazzini L, Corrado L, Consonni M, Vinceti M, Fusi P, Urani C. Metal(loid)s role in the pathogenesis of amyotrophic lateral sclerosis:

- Environmental, epidemiological, and genetic data. *Environmental Research*. 2021;192:110292. DOI: 10.1016/j.envres.2020.110292
- Carducci AL, Agodi A, Ancona C, Angelini P, Bagordo F, Barbone F, Birbaum L, Carreri V, Casuccio A, Conti A, Conversano M, De Donno A, De Giglio O, Desiante F, Di Pietro A, Dogliotti E, Donato F, Fara GM, Fiore M, Forastiere F, Giammanco G, Izzotti A, Montagna MT, Oliveri Conti G, Petronio MG, Sciacca S, Signorelli C, Testai E, Verani M, Vinceti M, Vitale F, Ferrante M, Adani G, Berghella L, Calia C, Calzolari R, Canale A, Castiglione D, Conti A, Copat C, Crisaldi A, Cuffari G, Coronel Vargas G, De Vita E, De Nard F, Federigi I, **Filippini T**, Grasso A, Leonardi N, Letzqus M, Lo Bianco G, Mazzucco W, Nicolosi I, Orlandi P, Paladino G, Pizzo S, Pousis C, Raffo M, Rivolta S, Scarpitta F, Trani G, Triggiano F, Tumbarello A, Vecchio V, Zuccarello P, Vassallo M. Impact of the environment on the health: From theory to practice. *Environmental Research*. 2021;194:110517. DOI: 10.1016/j.envres.2020.110517
 - **Filippini T**, Mandrioli J, Malagoli C, Costanzini S, Cherubini A, Maffei G, Vinceti M. Risk of amyotrophic lateral sclerosis and exposure to particulate matter from vehicular traffic: A case-control study. *International Journal of Environmental Research and Public Health*. 2021;18(3):973. DOI: 10.3390/ijerph18030973
 - **Filippini T**, Malavolti M, Whelton PK, Naska A, Orsini N, Vinceti M. Blood pressure effects of sodium reduction: A dose-response meta-analysis of experimental studies. *Circulation*. 2021;143(16):1542-1567. DOI: 10.1161/CIRCULATIONAHA.120.050371
 - Vinceti M, Bonaccio M, **Filippini T**, Costanzo S, Wise LA, Di Castelnuovo A, Ruggiero E, Persichillo M, Cerletti C, Donati MB, de Gaetano G, Iacoviello L, on behalf of the Moli-sani Study Investigators. Dietary selenium intake and risk of hospitalization for type 2 diabetes in the Moli-sani Study cohort. *Nutrition, Metabolism and Cardiovascular Disease*. 2021;31(6):1738-1746. DOI: 10.1016/j.numecd.2021.02.016
 - Neagu M, Calina D, Docea AO, Constantin C, **Filippini T**, Vinceti M, Drakoulis N, Poulas K, Nikolouzakakis TK, Spandidos DA, Tsatsakis A. Back to basics in COVID-19: Antigens and antibodies – Completing the puzzle. *Journal of Cellular and Molecular Medicine*. 2021;25:4523-4533. DOI: 10.1111/jcmm.16462
 - Vinceti M, **Filippini T**, Rothman KJ, Di Federico S, Orsini N. SARS-CoV-2 infection incidence during the first and second COVID-19 waves in Italy. *Environmental Research*. 2021;197:111097. DOI: 10.1016/j.envres.2021.111097
 - Vinceti M, **Filippini T**, Wise LA, Rothman KJ. A systematic review and dose-response meta-analysis of exposure to environmental selenium and the risk of type 2 diabetes in nonexperimental studies. *Environmental Research*. 2021;197:111210. DOI: 10.1016/j.envres.2021.111210
 - **Filippini T**, Hatch EE, Vinceti M. Residential exposure to electromagnetic fields and risk of amyotrophic lateral sclerosis: A dose-response meta-analysis. *Scientific Reports*. 2021;11:11939. DOI: 10.1038/s41598-021-91349-2
 - Di Castelnuovo A, Costanzo S, Antinori A, Berselli N, Blandi L, Bonaccio M, Bruno R, Cauda R, Gialluisi A, Guaraldi G, Menicanti L, Mennuni M, My I, Parruti A, Patti G, Perlini S, Santilli F, Signorelli C, Stefanini GG, Vergori A, Ageno W, Aiello L, Agostoni P, Al Moghazi S, Arboretti R, Aucella F, Barbieri G, Barchitta M, Bartoloni A, Bologna C, Bonfanti P, Caiano L, Carrozzi L, Cascio A, Castiglione G, Chiarito M, Ciccullo A, Cingolani A, Cipollone F, Colomba C, Colombo C, Crosta F, Dalena G, Dal Pra C, Danzi GB, D'Ardes D, de Gaetano Donati K, Di Gennaro F, Di Tano G, D'Offizi G, **Filippini T**, Maria Fusco F, Gaudiosi C, Gentile I, Gini G, Grandone E, Guarnieri G, Lamanna GLF, Larizza G, Leone A, Lio V, Losito AR, Maccagni G, Maitan S, Mancarella S, Manuele R, Mapelli M, Maragna R, Marra L, Maresca G, Marotta C, Mastroianni F, Mazzitelli M, Mengozzi A, Menichetti F, Milic J, Minutolo F, Molena B, Mussinelli R, Mussini C, Musso M, Odone A, Olivieri M, Pasi E, Perroni A, Petri F, Pinchera B, Pivato CA, Poletti V, Ravaglia C, Rossato M, Rossi M, Sabena A, Salinaro F, Sangiovanni V, Sanrocco C, Scorzolini L, Sgariglia R, Simeone PG, Spinicci M, Trecarichi EM, Veronesi G, Vettor R, Vianello A, Vinceti M, Visconti E, Vociante L, De Caterina R, Iacoviello L; COVID-19 RISK and Treatments (CORIST) Collaboration. Lopinavir/Ritonavir and Darunavir/Cobicistat in Hospitalized COVID-19 Patients: Findings From the Multicenter Italian CORIST Study. *Frontiers in Medicine*. 2021;8:639970. DOI: 10.3389/fmed.2021.639970
 - Urbano T, **Filippini T**, Lasagni D, De Luca T, Sucato S, Polledri E, Bruzziches B, Malavolti M, Baraldi C, Santachiara A, Pertinhez TA, Baricchi R, Fustinoni S, Vinceti M. Associations between urinary and dietary selenium and blood metabolic parameters in a healthy Northern Italy population. *Antioxidants*. 2021;10(8):1193. DOI: 10.3390/antiox10081193
 - Berselli N, **Filippini T**, Paduano S, Malavolti M, Modenese A, Gobba F, Borella P, Marchesi I, Vivoli R, Perlini P, Bellucci R, Bargellini A, Vinceti M. Seroprevalence of anti-SARS-Cov-2 antibodies in a Northern Italy population before the COVID-19 second wave. *International Journal of Occupational Medicine and Environmental Health*. 2022;35(1):63-74. DOI: 10.13075/ijom.1896.01826
 - Modenese A, Mazzoli T, Berselli N, Ferrari D, Bargellini A, Borella P, **Filippini T**, Marchesi I,

- Paduano S, Vinceti M, Gobba F. Frequency of Anti-Sars-Cov-2 Antibodies in various occupational sectors in an industrialized area of Northern Italy from May to October 2020. *International Journal of Environmental Research and Public Health*. 2021;18(15):7948. DOI: 10.3390/ijerph18157948
- Malavolti M, Naska A, Fairweather-Tait SJ, Malagoli C, Vescovi L, Marchesi C, Vinceti M, **Filippini T**. Sodium and potassium content of foods consumed in an Italian population and the impact of adherence to a Mediterranean diet on their intake. *Nutrients*. 2021;13(8):2681. DOI: 10.3390/nu13082681
 - Di Lorenzo R, Balducci J, Poppi C, Arcolin E, Cutino A, Ferri P, D'Amico R, **Filippini T**. Children and adolescents with ADHD followed up to adulthood: a systematic review of long-term outcomes. *Acta Neuropsychiatrica*. 2021;33(6):283-298. DOI: 10.1017/neu.2021.23
 - Balboni E, **Filippini T**, Crous-Bou M, Guxens M, Erickson LD, Vinceti M. The association between air pollutants and hippocampal volume from magnetic resonance imaging: A systematic review and meta-analysis. *Environmental Research*. 2022;204(Pt A):111976. DOI: 10.1016/j.envres.2021.111976
 - Urbano T, **Filippini T**, Lasagni D, De Luca T, Grill P, Sucato S, Polledri E, Djeukeu Nombi G, Malavolti M, Santachiara A, Pertinhez TA, Baricchi R, Fustinoni S, Michalke B, Vinceti M. Association of urinary and dietary selenium and of serum selenium species with serum alanine aminotransferase in a healthy Italian population. *Antioxidants*. 2021;10(10):1516. DOI: 10.3390/antiox10101516
 - **Filippini T**, Zagnoli F, Bosi M, Giannone ME, Marchesi C, Vinceti M. An assessment of case-fatality and infection-fatality rates of first and second COVID-19 waves in Italy. *Acta Biomedica*. 2021;92(S6):e2021420. DOI: 10.23750/abm.v92iS6.12241
 - Paduano S, Facchini MC, Greco A, Borsari L, Mingrone VM, Tancredi S, Fioretti E, Creola G, Iacuzio L, Casaletti G, Vinceti M, Bargellini A, **Filippini T**. Characteristics and risk factors of isolated and quarantined children and adolescents during the first wave of SARS-CoV-2 pandemic: A cross-sectional study in Modena, Northern Italy. *Acta Biomedica*. 2021;92(S6):e2021449. DOI: 10.23750/abm.v92iS6.12225
 - **Filippini T**. Vinceti SR. Italian National Recovery and Resilience Plan: a Healthcare Renaissance after the COVID-19 crisis? *Acta Biomedica*. 2021;92(S6):e2021463. DOI: 10.23750/abm.v92iS6.12339
 - Urbano T, Vinceti M, Wise LA, **Filippini T**. Light at night and risk of breast cancer: A systematic review and dose-response meta-analysis. *International Journal of Health Geographics*. 2021;20:44. DOI: 10.1186/s12942-021-00297-7
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Book chapters

- **Filippini T**, Urbano T. Emergency Planning and Community Right-to-Know Act (EPCRA). In: Tsatsakis A (Ed). *Encyclopedia of Toxicology*, 4th edition. Elsevier Academic Press 2022. ISBN. doi: 10.1016/B978-0-12-824315-2.00084-1. In press
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- Berselli N, **Filippini T**, Adani G, Vinceti M. Chapter 27. Dismissing the use of P-values and statistical significance testing in scientific research: new methodological perspectives in toxicology and risk assessment. In: Tsatsakis AM (eds). *Toxicological Risk Assessment and Multi-System Health Impacts from Exposure*. Elsevier Academic Press. 2021. ISBN 978-0-323-85215-9. doi: 10.1016/B978-0-323-85215-9.00002-7
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- Vinceti M, **Filippini T**, Balzarini F, Malagoli C, Bossi E, Nucci D. Capitolo 3: Determinanti di salute e malattia. In: Signorelli C, Capolongo S, Cattaruzza MS, Fabiani L, Mantovani L, Nante N, Odone A, Pasquarella C, Pellissero G, Privitera G, Squeri R, Stracci F, Vinceti M (eds). *Igiene e Sanità Pubblica - Secrets Domande e Risposte 2021*. Società Editrice Universo, Roma. 2021 ISBN 978-8865-151839
- Vinceti T, **Filippini T**. La pandemia COVID-19 a Modena nel 2020: quadro epidemiologico ed efficacia degli interventi di sanità pubblica. In: Porro CA, Faloni P. *Emergenza COVID-19: Impatto e prospettive*. Collana: Casadei T, Zanetti F (a cura di). Prassi sociale e teoria giuridica. Mucchi Editore, Modena. ISSN 2612-002X
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- **Filippini T**, Michalke B, Mandrioli J, Tsatsakis AM, Weuve J, Vinceti M. Selenium Neurotoxicity and Amyotrophic Lateral Sclerosis: An Epidemiologic Perspective. (2018) In: Michalke B. (eds) *Selenium. Molecular and Integrative Toxicology*. Springer, Cham. ISBN: 978-3-319-95389-2
- Vinceti M, **Filippini T**, Balzarini F, Malagoli C. Capitolo 3: Determinanti di salute e malattia. In: Signorelli C, Fabiani L, Mantovani L, Nante N, Odone A, Pasquarella C, Squeri R, Stracci F, Vinceti M (eds). *Igiene e Sanità Pubblica - Secrets Domande e Risposte 2017*. Società Editrice Universo, Roma. 2017 ISBN 978-8865-151396
- Vinceti M, Burlingame B, **Filippini T**, Naska A, Bargellini A, Borella P. Chapter 31 The Epidemiology of Selenium and Human Health, in Hatfield DL et al. (Eds), *Selenium - Its Molecular Biology and Role in Human Health*. Springer-Verlag New York. ISBN: 978-1-4899-9445-5. doi: 10.1007/978-3-31-41283-2_31

Presentations

- **Filippini T**, Iacuzio L, Arcolin E, Violi F, Storani S, Costanzini S, Fabbi S, Malagoli C, Vinceti M. The GIS methodology and its application in exposure assessment – Experience of the University of

- Modena and Reggio Emilia. Presentazione orale alla Terza Edizione delle Giornate degli Specializzandi SItI. Milano, 19-21 Marzo 2015. *Euromediterranean Biomedical Journal*. 2015; 10(S1):52
- **Filippini T**, Malagoli C, Fiore M, Violi F, Costanzini S, Ledda C, Mauceri C, Dimartino A, Mandrioli J, Fini N, Patti F, Teggi S, Ferrante M, Vinceti M. Comparison of questionnaire exposure data to land cover map from geographical information system to assess passive exposure to pesticides: a methodological study. Presentazione Orale alla IV Edizione delle Giornate degli Specializzandi SItI. Bologna, 25-27 Maggio 2017. *Euromediterranean Biomedical Journal*. 2017;12(S1):7-8
 - **Filippini T**, Vinceti M. Indications for good quality Systematic Reviews and Meta-analysis in Public Health. Presentazione orale al workshop "Training and team-working on the WHO/ILO Systematic Reviews for estimating the Global Burden of Diseases due to Occupational Exposure to Ultraviolet Radiation". 7-9 Marzo 2018. Modena e Bologna, Italia.
 - Cilloni S, **Filippini T**, Violi F, Malavolti M, Malagoli C, Ferrari A, Vescovi L, Vinceti M. Contaminazione alimentare da piombo e stima dell'assunzione giornaliera in una popolazione del Nord Italia. Presentazione orale al 51° Congresso Nazionale SItI. 17-20 Ottobre 2018. Riva del Garda (TN).
 - Vinceti M, **Filippini T**. Geographic Information System (GIS). Co-presentazione orale alla Riunione Scientifica Annuale del Childhood Leukemia International Consortium (CLIC). 12-15 Novembre 2018. Tokyo
 - **Filippini T**, Malagoli C, Malavolti M, Vinceti M. Dietary cadmium exposure and risk of melanoma: an Italian population-based case-control study. Oral presentation at the 7th International Symposium of the Federation of European Societies on Trace Elements and Minerals (FESTEM). April 2-5, 2019. Potsdam, Germany.
 - **Filippini T**, Vinceti M. Risk factors and lifestyles of early onset dementia in Modena. Oral presentation at the Meeting: [Le demenze oltre lo stigma e i luoghi comuni. Modena per l'Alzheimer]. September 20, 2019. Modena, Italy
 - **Filippini T**, Malagoli C, Malavolti M, Vinceti M Dietary cadmium intake and risk of cutaneous melanoma: a population-based case-control study in Northern Italy. Oral presentation at the 52° National Congress of the Italian Society of Hygiene and Preventive Medicine (SItI). October 16-19, 2019 Perugia, Italy
 - **Filippini T**, Malavolti M, Vinceti M. Green tea consumption and risk of cancer: a systematic review and meta-analysis of observational studies. Oral presentation at the I Edition of "Le giornate della ricerca scientifica e delle esperienze professionali dei giovani". December 19-21, 2019. Rome.
 - **Filippini T**, Garuti C, Adani G, Vineti G, Galli C, Zamboni G, Tondelli M, Costa M, Malavolti M, Vinceti M, Chiari A. Risk of early onset dementia (EOD) in relation to fruit and vegetable consumption: a case-control study. Oral presentation at the I Edition of "Le giornate della ricerca scientifica e delle esperienze professionali dei giovani". December 19-21, 2019. Rome.
 - **Filippini T**, Adani G, Garuti C, Malavolti M, Vinceti G, Zamboni G, Tondelli M, Galli C, Costa M, Chiari A, Vinceti M. Atrial fibrillation and other risk factors for early-onset dementia: an Italian case-control study. Oral presentation at the 2nd edition of "Le giornate della ricerca scientifica e delle esperienze professionali dei giovani", December 17-18, 2020. Webinar.
 - Urbano T, Vinceti M, **Filippini T**. Is artificial light-at-night associated with increased breast cancer risk? A systematic review and dose-response meta-analysis. Oral presentation at the 2nd edition of "Le giornate della ricerca scientifica e delle esperienze professionali dei giovani", December 17-18, 2020. Webinar.
 - **Filippini T**, Goffi A, Maffei G, Gianfreda R, Dal Zovo LA, Giorgi Rossi P, Mancuso P, Sciannone V, Jahier Paglieri D, Berchiolla P, Vinceti M. [EPICO19: uno strumento web basato su informazioni satellitari della European Space Agency per analizzare e predire l'evoluzione epidemiologica del COVID-19]. Oral presentation at the 54th Congress of the Italian Society of Hygiene and Preventive Medicine. Lecce, 3-6 November 2021.
 - **Filippini T**. "[Big data, telefonia cellulare ed evoluzione pandemica]". Oral presentation at the Congress "[L'epidemiologia del COVID-19, i dati satellitari e l'Intelligenza Artificiale per la lotta alle pandemie]". Reggio Emilia, 2 December 2021.
 - Tancredi S, Urbano T, Vinceti M, **Filippini T**. Light at night exposure and risk of depression and other mental disorders: a systematic review. 2022 Annual ISEE meeting, September 18-21, 2022 Athens

Projects

- CLIC project: 2022-ongoing: member of the Integrative Cancer Research Group (ICARE) working group of UC Berkeley for the investigation of the relation between radiologic medical examinations and risk of childhood leukemia - a pooled analysis within the Childhood Leukemia International Consortium - CLIC, PI Prof. Catherine Metayer
- Project Co-PI in FAR2021 (Fondo di Ateneo per la Ricerca 2021), PI Prof. Alessandro Bigi, Title: "Mitigating Indoor Risk of Airborne Infections: MIRAI". Funded by University of Modena and Reggio Emilia & Fondazione di Modena (2021-2023/ongoing)

- Project Co-PI in FAR2020 (Fondo di Ateneo per la Ricerca 2020), PI: Prof. Sergio Teggi, Title: "Valutazione dei possibili effetti della radiazione solare UV sulla trasmissione del virus SARS-CoV-2". Funded by University of Modena and Reggio Emilia & Fondazione di Modena (2020-2022/ongoing)
- Project Participation in FAR2019 (Fondo di Ateneo per la Ricerca 2019). PI: Prof. Alessandro Bigi, Title: "BlackAir – Black Carbon, Air pollution and Health in Modena" - BlackAir – Black Carbon, Inquinamento dell'Aria e Salute a Modena". Funded by University of Modena and Reggio Emilia & Fondazione di Modena (2019-2021)
- PI of the project titled: "[Valutazione tempi di guarigione delle lesioni croniche dei pazienti seguiti dal Servizio Infermieristico Domiciliare dell'AUSL di Reggio Emilia]" in collaboration with Local Health Authority of Reggio Emilia, Dr. Davide Simonazzi. Approval n. 1063/2020/OSS/AUSLRE (2020-2021)
- Member of the Task Force COVID19 of the University of Modena and Reggio Emilia coordinated by Prof. Paola Borella to support correct information and research on COVID-19 pandemics, particularly in the field of Public Health (2020-ongoing)
- Systematic reviews and meta-analysis within the Cochrane Collaboration. Project about Selenium and cancer (2015-2018) and green tea and cancer (2017-2019). PI: Prof Marco Vinceti
- Research activity as collaborator for "Search and selection of scientific literature about the relationship between potassium, cadmium and human health; database preparation and conduction of dose-response meta-anlysis (from 15 August to 30 October 2018). grant agreement "GA/EFSA/AFSCO/2017/01- GA09" – CUP: E91117000180004)
- Assessment of chronic diseases in a population exposure to high levels of inorganic selenium through drinking water. Co-PI and data analyst (2015-2019), PI: Prof. Marco Vinceti
- Levels of selenium and cadmium in an Italian population e their correlation with indicator of oxidative stress and genotoxicity. Co-PI and data analyst (2016-2019), PI: Prof. Marco Vinceti.
- Projects Collaboration within UNIMORE unit in the "European Human Biomonitoring Initiative – HBM4EU" from 2017. Grant Agreement number: 733032 — HBM4EU — H2020-SC1-2016-2017/H2020-SC1-2016-RTD - www.hbm4eu.eu
 - Deliverable Report D 7.3 - WP 7 - Survey design and fieldwork preparation: "1st prioritisation Report on survey design: Study protocols, SOPs and Guidelines, tailored and transferred questionnaires for recruitment and sampling". Role: co-author
 - Deliverable Report D 13.1 - WP 13 - Establishing exposure-health relationships: "List of criteria for selecting cohort studies". Role: co-author
 - Additional Deliverable Report AD 15.3 - WP 15 - Mixtures, HBM and human health risk: "HBM mixture database description and proposal statistical analysis plan". Role: co-author
 - Deliverable 13.3 – WP13 - Inventory of available samples and data collected from existing cohorts and preliminary results on exposure-response associations for 1st list of priority substances". Role: co-author
 - Deliverable Report D 7.6 – WP7 - 2nd prioritisation Report on survey design: Study protocols, SOPs and Guidelines, tailored and transferred questionnaires for recruitment and sampling Role: co-author
 - WP13&14-joint-activities-LEADERS-and-PARTNERS Role: co-author
 - Scoping Document (2nd round of prioritization). Prioritized substance group: Mercury and its organic compounds. Role co-author
- Collaboration within UNIMORE unit in the Partnering Grant "Dose-response relationship in health risk assessment nutritional and toxicological factors in foods: development and application of novel biostatistical methods - GP-EFSA-AFSCO-2017-01 GA09 of the European Food Safety Authority. Technical Report available at: Vinceti M, Filippini T, Malavolti M, Naska A, Kasdagli M-I, Torres D, Lopes C, Carvalho C, Moreira P, Orsini N. Dose - response relationships in health risk assessment of nutritional and toxicological factors in foods: development and application of novel biostatistical methods. EFSA Supporting Publications. 2020;17(7):EN - 1899. DOI: 10.2903/sp.efsa.2020.EN-1899
- Space in response to COVID-19 outbreak - EPICO19: an EPIdemiological and logistic COvid-19 model, funded by the European Space Agency (ESA contract No. 4000131356/20/NL/AF) for the implementation of a web application to support public health technicians and decision makers in managing health resource planning to forecast the impact map of the contagion outbreak, estimating the diffusion of the pandemic, and support the design and the ex-ante evaluation of the effect of restrictions policies (www.epico19.eu). Role: UNIMORE Project partner and WP leader (WP3100: "EPI-data assessment").

Seminars

- Indications for good quality Systematic Reviews and Meta-analysis in Public Health. Invited presentation at the workshop "Training and team-working on the WHO/ILO Systematic Reviews for

estimating the Global Burden of Diseases due to Occupational Exposure to Ultraviolet Radiation". March 7, 2018. Modena, Italy

- [Big data, telefonia cellulare ed evoluzione pandemica]. Invited presentation at the Congress "[L'epidemiologia del COVID-19, i dati satellitari e l'Intelligenza Artificiale per la lotta alle pandemie]". Reggio Emilia, 2 December 2021.

Awards

- Selected best contribution at the IV Edition of National Conference of Italian Medical Residents in Public Health. May 25-27, 2017. Bologna Italy. Abstract: Filippini T, Malagoli C, Fiore M, Violi F, Costanzini S, Ledda C, Mauceri C, Dimartino A, Mandrioli J, Fini N, Patti F, Teggi S, Ferrante M, Vinceti M. Comparison of questionnaire exposure data to land cover map from geographical information system to assess passive exposure to pesticides: a methodological study.
- Candidate for "best poster" presentation at ISEE Young 2018. March 19-20, 2018, Freising, Germany. Abstract: Filippini T, Malagoli C, Michalke B, Vinceti M. Comparison of two alternative methodologies to estimate the weekly intake of cadmium in an Italian population.
- Travel grant for participation at the International Scientific and Medical Conference 2018 "Cancer in Children and Young People", September 12-14, 2018, Westminster, London.
- Travel grant for participation at the annual meeting of the Childhood Leukemia International Consortium (CLIC). November 12-15, 2018. Tokyo
- Travel award for participation to 32nd the Annual Conference of the International Society for Environmental Epidemiology (ISEE). August 24-27, 2020. Converted in waived registration to the Virtual Meeting.
- Registrations award for participation to the 33rd Annual Conference of the International Society for Environmental Epidemiology (ISEE). August 23-26, 2021.

Congress Organizing Committee

- FESTEM (Federation of European Societies on Trace Elements and Minerals) Conference "Trace Elements between deficiency and toxicity: update and perspectives". Modena (Italy), 1-2 October 2015.
- 6th International FESTEM (Federation of European Societies on Trace Elements and Minerals) Symposium "New horizons on trace elements and minerals role in human and animal health". Catania (Italy), 26-28 May 2016
- AISETOV (Associazione Italiana per lo Studio degli Elementi in Traccia negli Organismi Viventi) Meeting "Trace elements in human and animal health: focus on neurological disease", Reggio Emilia (Italy), 20 October 2017.
- AISETOV (Associazione Italiana per lo Studio degli Elementi in Traccia negli Organismi Viventi) Meeting "The role of trace elements in health: from healthy environments to healthy living organisms", Ozzano Emilia, Bologna (Italy), 12 October 2018.
- UNIMORE Congress: [EPICO19: uno strumento web basato su informazioni satellitari della European Space Agency per analizzare e predire l'evoluzione epidemiologica del COVID-19], Reggio Emilia, 2 December 2021.
- ISEE 2022 International Congress. Chair of ORAL PRESENTATIONS SESSION 24: Light at night, sleep and impacts of urbanicity on health and of – WITH ETHICS DISCUSSION ORAL PRESENTATIONS SESSION 27: In search of epigenetic signatures of environmental exposures, September 20, 2022

Membership

- Member of Società Italiana di Igiene (SIItI) from 2013
- Member of The European Public Health Association (EUPHA) from 2013
- Member of Associazione Italiana per lo Studio degli Elementi in Traccia negli Organismi Viventi (AISETOV) from 2017
- Member of The Federation of European Societies on Trace Elements and Minerals (FESTEM) from 2017
- Member of the 'Accademia Lombarda di Sanità Pubblica' from 2019

TEACHING

Supporting activities

- Support in teaching activities as Expert Matter (SSD MED/42) in the Degree Nursing (Reggio Emilia course) University of Modena and Reggio Emilia (AY 2017/2018 and AY 2018/2019)
- Support in teaching activities as Expert Matter (SSD MED/42) Nursing and Midwifery Sciences University of Modena and Reggio Emilia (AY 2017/2018)

Courses

- Epidemiology and Hygiene. Nursing Degree (Reggio Emilia course), University of Modena and Reggio Emilia (from AY 2019/2020)
- Epidemiology and Hygiene. Education and Human Development Degree, University of Modena and Reggio Emilia (AY 2020/2021)
- Hygiene and Preventive Medicine. Medical Degree Medical School, University of Modena and Reggio Emilia (from AY 2020/2021).
- Epidemiology and Hygiene. Digital Education Degree, University of Modena and Reggio Emilia (from AY 2021/2022)

Master

- Sostenibilità ed Efficienza della Salute, Ambiente e Sicurezza (MASAS) – School of Management – Università LUM – January 14-15, 2022

Modena, September 22, 2022

(Tommaso Filippini)

