

## Personal Information

Leonardo Maria Siena

## Appointments and professional experience

| Time period             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01/11/2024 - ongoing    | <p>PhD student in Advances in Infectious Diseases, Microbiology, Legal Medicine and Public Health Sciences - Sapienza University of Rome</p> <ul style="list-style-type: none"><li>• Research activities on the impact of climate change on health at the U.O.C. Environmental and Occupational Epidemiology and Cancer Registry - Department of Epidemiology, Lazio Regional Health Service - ASL Roma 1</li></ul>                                                |
| 26/01/2021 - ongoing    | <p>Medical Recidency in Hygiene, Preventive Medicine and Public Health<br/>Department of Public Health and Infectious Diseases, Sapienza University of Rome</p> <ul style="list-style-type: none"><li>• Research activities at the Hygiene section of the Department of Public Health and Infectious Diseases, Sapienza University of Rome</li><li>• Clinical activities at the Hospital Hygiene Unit of Policlinico Umberto I Teaching Hospital in Rome</li></ul> |
| 01/09/2024 - ongoing    | <p>Research Activity at INMP - Istituto Nazionale per la promozione della salute delle popolazioni Migranti ed il contrasto delle malattie della Povertà</p> <p>Secondment at the National Institute for Health, Migration and Poverty.</p>                                                                                                                                                                                                                        |
| 01/10/2023 – 01/04/2024 | <p>Research Activity at National Institute of Health<br/>ISS – Istituto Superiore di Sanità</p> <p>Secondment at the National Center for Drug Research and Evaluation, Pharmacoepidemiology and Pharmacosurveillance Unit</p>                                                                                                                                                                                                                                      |
| 01/10/2023 – 01/04/2024 | <p>Research Activity at Fondazione GIMEMA - Franco Mandelli Onlus<br/>Fondazione GIMEMA - Franco Mandelli Onlus</p> <p>Secondment at GIMEMA foundation, an independent, non-profit organization that coordinates and conducts national and international clinical and translational research to improve standards of care for patients with hematologic diseases</p>                                                                                               |
| 01/11/2022 – 01/06/2023 | <p>Visiting Postdoctoral Scholar<br/>Stanford University – California, US</p> <p>Secondment at Meta-Research Innovation Center at Stanford (METRICS) through "The European network staff eXchange for integrAting precision health in the health Care sysTems" (ExACT), a Marie SkłodowskaCurie Research and Innovation Staff Exchange (RISE) project. Metascience and clinical research were the main research topics</p>                                         |
| 02/11/2020 – 01/04/2022 | <p>Physician at the Department of Preventive Medicine and Public Health<br/>ASL Viterbo</p> <p>COVID 19 positive case tracing activities: disposition of isolations and quarantines, cluster reconstruction, and everything related to contact tracing. Employed in vaccination campaign and monoclonal antibody administration.</p>                                                                                                                               |

|                         |                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 10/10/2020 – 15/01/2021 | Physician at Hospice Casa Di Cura Salus Viterbo<br>Casa Di Cura Salus Viterbo                                                |
|                         | Hospice and palliative care clinic with home-hospice service.                                                                |
| 03/08/2020              | Professional license to practice and registration to the Register of Physicians, Surgeons and Dentists of Viterbo, No. 02786 |

## Education and Training

| Type                                  | Time period             | Description                                                                                                                                                                                    |
|---------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Training Course                       | 05/12/2024 - 06/12/2024 | Meta-analysis in STATA<br>TStat S.r.l. - Stata Official Trainer in Europe                                                                                                                      |
| Post-Graduate Course                  | 01/03/2023 - 01/06/2023 | Course MED 206: Meta-research Appraising Research Findings, Bias, and Meta-analysis (uditor)<br>Stanford University, California, US                                                            |
| Post-Graduate Course                  | 01/03/2023 - 01/06/2023 | Course EPI 273: Essentials of Clinical Research (uditor)<br>Stanford University, California, US                                                                                                |
| Post-Graduate Course                  | 01/03/2023 - 01/06/2023 | Course EPI 251: Design and Conduct of Clinical Trials (uditor)<br>Stanford University, California, US                                                                                          |
| Post-Graduate Course                  | 25/03/2022 - 01/04/2022 | Migrant Health: an equity challenge for the public health system<br>International School of Epidemiology and Preventive Medicine "G. D'Alessandro"                                             |
| Professional Healthcare Certification | 11/11/2020              | Pre-Hospital Trauma Care (PTC)<br>Centro di Formazione - Associazione di promozione sociale "Salute e Solidarietà"                                                                             |
| Professional Healthcare Certification | 23/10/2020              | Advanced Cardiovascular Life Support (ACLS)<br>American Heart Association                                                                                                                      |
| Professional Healthcare Certification | 17/10/2020              | Basic Life Support - Defibrillation & Pediatric Basic Life Support - (BLSD)<br>Centro di Formazione - Associazione di promozione sociale "Salute e Solidarietà"                                |
| University Graduation                 | 14/07/2020              | Degree in Medicine and Surgery (110/110 with honors)<br>Sapienza University of Rome<br>Thesis: "Antalgic efficacy of low-dose transdermal buprenorphine in the elderly osteoarthritic patient" |
| High School Diploma                   | 01/07/2014              | High School Diploma (Scientific Studies)<br>Istituto Omnicomprensivo "Fabio Besta" Orte (VT)                                                                                                   |
| Certificates of Foreign Language      | 05/06/2013              | First Certificate in English B2<br>University of Cambridge ESOL Examinations                                                                                                                   |
| Certificates of Digital Literacy      | 31/10/2012              | ECDL European Computer Driving Licence<br>AICA Associazione Italiana per l'Informatica                                                                                                         |

## Teaching experience

| Academic year(s) | Institution                 | Role                                                                                                                         |
|------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 2023/2024        | Sapienza University of Rome | Teaching assistant at "Health Promotion and Safety" course (module: MED/42, 1 credit), at "Nursing Sciences H" degree course |
| 2023/2024        | Sapienza University of Rome | Teaching assistant at "Epidemiology" course (module: MED/42, 2 credits), at "Nursing Sciences B" degree course               |

## Personal competencies

|                 |               |         |                 |                    |
|-----------------|---------------|---------|-----------------|--------------------|
| Mother tongue   | Italian       |         |                 |                    |
| Other languages | COMPREHENSION |         | ORAL PRODUCTION | WRITTEN PRODUCTION |
|                 | Listening     | Reading |                 |                    |
|                 | English<br>C1 | C1      | C1              | C1                 |
| French          | B1            | B1      | A2              | A2                 |

## Society memberships

|                |                                                                                           |
|----------------|-------------------------------------------------------------------------------------------|
| 2022 - ongoing | Member of the Italian Society of Hygiene, Preventive Medicine, and Public Health (S.It.I) |
| 2024 - ongoing | Member of the European Public Health Association (EUPHA)                                  |
| 2024 - ongoing | Member of the Italian Association of Epidemiology (AIE)                                   |

## Projects and funding information (grants as PI-Principal Investigator, I-Investigator, or SC-Scientific Coordinator)

| Years       | Title                                                                                                                                                                                                                                                                                                                                        | Institution/organization, funding program                                                                     | Total grant value, role (PI, I, SC) |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 2019 - 2023 | European network staff eXchange for integrAting precision health in the health Care sysTems (EXACT)                                                                                                                                                                                                                                          | European Commission, Horizon 2020 - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE 2018) | 1.090.200 EUR, I                    |
| 2019 - 2023 | Definizioni e promozione di programmi per l'implementazione delle azioni centrali di supporto al "Piano --per l'innovazione del sistema sanitario basata sulle scienze omiche" [Definitions and promotion of programs for the implementation of central actions to support the "Plan--for health system innovation based on omics sciences"] | Ministry of Health, CCM Project 2019 - Central Actions                                                        | 120.000 EUR, I                      |

|      |   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                      |                    |
|------|---|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|
| 2021 | - | 2023 | Strategia genomica italiana: istituzione di una cabina di regia a supporto dell'iniziativa europea 1+Million Genomes (1+MG) e Beyond 1+MG (B1MG) e del coordinamento interistituzionale per la genomica in sanità pubblica [Italian Genomics Strategy: establishment of a steering committee to support the European 1+Million Genomes (1+MG) and Beyond 1+MG (B1MG) initiative and interinstitutional coordination for genomics in public health]                                                                            | Ministry of Health, CCM Project 2021 - Central Actions                               | 800.000 EUR, I     |
| 2022 | - | 2025 | La cultura delle vaccinazioni come salvaguardia della salute pubblica ed individuale: pianificazione, realizzazione e valutazione di un intervento formativo negli studenti universitari di Sapienza ed elaborazione di strategie per la promozione dell'adesione vaccinale [Immunization culture as a tool to safeguard public and individual health: planning, implementation and evaluation of an educational intervention at Sapienza University students and development of strategies to promote vaccination adherence] | Sapienza University of Rome, Medium Research Projects 2021                           | 10.000 EUR, I      |
| 2022 | - | 2025 | PREvenire, Sorvegliare e Ulteriormente MONitorare le Infezioni Correlate all'Assistenza (PRE.S.U.MO-ICA) [Preventing surveilling and further monitoring healthcare-associated infections],                                                                                                                                                                                                                                                                                                                                    | Sapienza University of Rome, Medium Research Projects 2021                           | 10.460 EUR, I      |
| 2022 | - | 2025 | HEAL ITALIA – Health Extended ALLiance for Innovative Therapies, Advanced Lab-research, and Integrated Approaches of Precision Medicine                                                                                                                                                                                                                                                                                                                                                                                       | European Union, Italian National Recovery and Resilience Plan (PNRR) - projects 2022 | 114.700.000 EUR, I |
| 2023 | - | 2025 | Analisi sull'accessibilità dei servizi di cure primarie e dell'impatto sugli accessi ad un Dipartimento di Emergenza Urgenza e Accettazione di I livello di un ospedale della Città Metropolitana di Roma [Analysis on the accessibility of primary care services and the impact on access to a Level I – Emergency Department of a hospital in the Metropolitan City of Rome]                                                                                                                                                | Sapienza University of Rome, Medium Research Projects 2022                           | 10.000 EUR, I      |
| 2023 | - | 2025 | TRACER-ICA: sviluppo di un approccio integrato evidence-based per monitorare, conoscere e prevenire le infezioni correlate all'assistenza in terapia intensiva neonatale [TRACER-ICA: development of an integrated evidence- based approach to monitor, study, and prevent healthcare-associated infections in the neonatal intensive care unit]                                                                                                                                                                              | Sapienza University of Rome, Medium Research Projects 2022                           | 10.000 EUR, I      |

## Publications

- a1. Russo L, [Siena LM](#), Farina S, Pastorino R, Boccia S, Ioannidis JPA. Genetic and other omics-based information in the most-cited recent clinical trials (submitted for publication)
- a2. Messina M, Piciocchi A, [Siena LM](#), Soddu S, Buccisano F, Mecucci C, Martinelli G, Curti A, Cairoli R, Fazi P, Vignetti M, Voso MT, Venditti A, Candoni A. A GIMEMA Survey on therapeutic use and response rates of FLT3 inhibitors in Acute Myeloid Leukemia: Insights from Italian Real-World Practice. *eJHaem* (2024) DOI: 10.1002/jha2.1045
- a3. [Siena LM](#), Mussetto I, Renzi E, Baccolini V, Migliara G, Sciurti A, Covelli A, De Vito C, Marzuillo C, Villari P, Massimi A. Decline in academic performance and mental health during the COVID-19 pandemic: a cross-sectional survey among Sapienza University of Rome students. *Frontiers in Public Health* 2024;17,12. DOI: 10.3389/fpubh.2024.1408191 [IF 3.0, JCR 2023]
- a4. De Marchi C, Bellini A, Tosti ME, D'Angelo F, Declich S, Mazzalai E, Gatta A, Ferrari C, Scarso S, Marchetti G, Mondera F, Mancini G, Aloise I, Sabato M, [Siena LM](#), Pizzarelli S, Giannini D, Jaljaa A, Turatto F, Marceca M. Access to COVID-19 information, diagnosis, and vaccination for migrants and ethnic minorities in the WHO European region: a systematic review. *J Public Health (Berl.)* (2024). DOI: 10.1007/s10389-024-02325-9 [IF 3.6, JCR 2023]
- a5. Renzi E, Baccolini V, Covelli A, [Siena LM](#), Sciurti A, Migliara G, et al. Keeping university open did not increase the risk of SARS-CoV-2 acquisition: A test negative case-control study among students. *PLoS One*. 2024;19(3):e0301215. DOI: 10.1371/journal.pone.0301215 [IF 2.9, JCR 2023]
- a6. Sciurti A, Baccolini V, Renzi E, De Blasiis MR, [Siena LM](#), Isonne C, Migliara G, Massimi A, De Vito C, Marzuillo C, Villari P. Attitudes of University Students towards Mandatory COVID-19 Vaccination Policies: A Cross-Sectional Survey in Rome, Italy. *Vaccines*. 2023;11(4):721. DOI: 10.3390/vaccines11040721 [IF 5.2, JCR 2023]
- a7. Sanna A, Pellegrino D, Messina E, [Siena LM](#), Baccolini V, D'Antoni L, Landini N, Baiocchi P, Villari P, Catalano C, Panebianco V, Palange P. The role of pulmonary function testing and lung imaging in the long-term follow-up of patients with COVID-19 pneumonia. *Respiration*. 2023;102(4):287–95. DOI: 10.1159/000529441 [IF 3.5, JCR 2023]
- a8. [Siena LM](#), Papamanolis L, Siebert MJ, Bellomo RK, Ioannidis JPA. Industry Involvement and Transparency in the Most Cited Clinical Trials, 2019-2022. *JAMA Network Open*. 2023;6(11): e2343425. DOI: 10.1001/jamanetworkopen.2023.43425 [IF 10.5, JCR 2023]
- a9. Siebert M, [Siena LM](#), Ioannidis JPA. Twitter and Mastodon presence of highly-cited scientists. *bioRxiv* 2023; 537950. DOI: 10.1101/2023.04.23.537950 (preprint)
- a10. P. Giorgi Rossi, P. Barretta, M. Affronti, S. La Placa, E. Petrona Baviera, M. Aragona, M. Mazzetti, G. Baglio, E. Eugeni, S. Geraci, A. Sparaco, P. Immordino, M.L. Russo, D. Giannini, F. Turatto, A. Gatta, C. De Marchi, [L. Siena](#), A. Bellini, S. Scarso, M. Sabato, the 59th Course Participants and the other Signatories of the final document. The Erice 58 Charter on “The health of migrants. An equity challenge for the public health system” – *Annali di Igiene*. 2023; DOI: 10.7416/ai.2023.2577 [IF 1.5, JCR 2023]
- a11. [Siena LM](#), Isonne C, Sciurti A, De Blasiis MR, Migliara G, Marzuillo C, De Vito C, Villari P, Baccolini V. The Association of Health Literacy with Intention to Vaccinate and Vaccination Status: A Systematic Review. *Vaccines*. 2022;10(11):1832. DOI: 10.3390/vaccines10111832 [IF 7.8, JCR 2022]
- a12. Baccolini V, [Siena LM](#), Renzi E, Migliara G, Colaprico C, Romano A, Massimi A, Marzuillo C, De Vito C, Casini L, Antonelli G, Turriziani O, Angeloni A, D'Alba F, Villari P, Polimeni A; Collaborating Group. Prevalence of SARS-CoV-2 infection and associated risk factors: A testing program and nested case-control study conducted at Sapienza University of Rome between March and June 2021. *Front Public Health*. 2022; 10:1010130. DOI: 10.3389/fpubh.2022.1010130. [IF 5.2, JCR 2022]
- a13. Ceparano M, Baccolini V, Migliara G, Isonne C, Renzi E, Tufi D, De Vito C, De Giusti M, Trancassini M, Alessandri F, Ceccarelli G, Pugliese F, Villari P, Angiulli M, Battellito S, Bellini A, Bongiovanni A, Caivano L, Castellani M, Coletti M, Cottarelli A, D'Agostino L, De Giorgi A, De Marchi C, Germani I, Giannini D, Mazzeo E, Orlandi S, Piattoli M, Ricci E, [Siena LM](#), Territo A, Vrenna G, Zanni S, Marzuillo C. *Acinetobacter baumannii* Isolates from COVID-19 Patients in a Hospital Intensive Care Unit: Molecular Typing and Risk Factors. *Microorganisms*. 2022;10(4):722. DOI: 10.3390/microorganisms10040722. (collaborating group) [IF 4.5, JCR 2022]
- a14. Isonne C, Baccolini V, Migliara G, Ceparano M, Alessandri F, Ceccarelli G, Tellan G, Pugliese F, De Giusti M, De Vito C, Marzuillo C, Villari P, Barone LC, Giannini D, Marotta D, Marte M, Mazzalai E, Germani I, Bellini A, Bongiovanni A, Castellani M, D'Agostino L, De Giorgi A, De Marchi C, Mazzeo E, Orlandi S, Piattoli M, Ricci E, [Siena LM](#), Territo A, Zanni S. Comparing the Occurrence of Healthcare-Associated Infections in Patients with and without COVID-19 Hospitalized during the Pandemic: A 16-Month Retrospective Cohort Study in a Hospital Intensive Care Unit. *J Clin Med*. 2022;11(5):1446. DOI: 10.3390/jcm11051446. (collaborating group) [IF 3.9, JCR 2022]

## Abstracts/Oral and Poster Presentations at National and International Conferences

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### *European Public Health Conference/World Congress on Public Health*

- b1. Siena LM, Isonne C, Sciurti A, De Blasiis MR, Migliara G, Marzuillo C, De Vito C, Villari P, Baccolini V. The role of health literacy in vaccination behaviours: a systematic review. 15<sup>th</sup> European Public Health Conference Abstract Supplement, European Journal of Public Health; 2022, 32(3).
- b2. De Marchi C, Bellini A, Gatta A, Tosti ME, D'Angelo F, Declich S, Mazzalai M, Scarso S, Marchetti G, Ferrari C, Mondera F, Mancini G, Aloise I, Sabato M, Siena LM, Giannini D, Jaljaa A, Turatto F, Marceca M. Access to COVID-19 prevention, diagnosis and care for migrants and ethnic minorities in the WHO European Region: a systematic review. Population Medicine. 2023;5 DOI: 10.18332/popmed/163820
- b3. Siena LM, Riccio M, Rosso A, Baccolini V, Migliara G, Isonne C, Leone I, Marzuillo C, Villari P Economic evaluation of Polygenic Risk Scores in healthcare interventions: a systematic review, European Journal of Public Health 2024 DOI:10.1093/eurpub/ckae144.1948
- b4. Sciurti A, Migliara G, Isonne C, Siena LM, Marzuillo C, Villari P, Baccolini V, Leveraging ChatGPT for systematic reviews: how accurate is it for screening by title and abstract? European Journal of Public Health, 2024 DOI:10.1093/eurpub/ckae144.410
- b5. Baccolini V, Isonne C, Siena LM, Sciurti A, Migliara G, Leone I, Marzuillo C, La Torre G, Villari P, What are the challenges in the Health Technology Assessment of genetic and genomic applications? European Journal of Public Health 2024 DOI:10.1093/eurpub/ckae144.1562

### *Italian Society of Hygiene, Preventive Medicine, and Public Health National Congress/ Italian Association of Epidemiology Congress*

- b6. Siena LM, Isonne C, Sciurti A, De Blasiis MR, Migliara G, Sinopoli A, Marzuillo C, De Vito C, Villari P, Baccolini V. Associazione tra health literacy e comportamenti vaccinali: una revisione sistematica. 55<sup>°</sup> SItI National Congress Abstract Book, Journal of Preventive Medicine and Hygiene, 2022; 63(2).
- b7. Sciurti A, Baccolini V, Renzi E, Migliara G, Siena LM, De Vito C, Marzuillo C, Villari P. Attitudes of university students towards mandatory COVID-19 vaccination: a cross-sectional survey. 55<sup>°</sup> SItI National Congress Abstract Book, Journal of Preventive Medicine and Hygiene, 2022; 63(2).
- b8. Siena LM, Renzi E, Baccolini V, Covelli A, Migliara G, Sciurti A, Marzuillo C, De Vito C, P Villari. Decline in academic performance during the COVID-19 pandemic: a cross-sectional survey among Sapienza university students. 55<sup>°</sup> SItI National Congress Abstract Book, Journal of Preventive Medicine and Hygiene, 2022; 63(2).
- b9. Baccolini V, Siena LM, Renzi E, Migliara G, Colaprico C, Romano A, Massimi A, Marzuillo C, De Vito C, Casini L, Antonelli G, Turriziani O, Angeloni A, D'Alba F, Villari P, Polimeni A; Collaborating Group. Prevalence of SARS-CoV-2 infection and associated risk factors: A testing program and nested case-control study conducted at Sapienza University of Rome between March and June 2021. 2023; Scientific research days for SITI
- b10. Siena LM, Riccio M, Rosso A, Baccolini V, Migliara G, Isonne C, Leone I, Marzuillo C, Villari P Economic evaluation of Polygenic Risk Scores in clinical practice: a systematic review (accepted)

### *European Respiratory Society (ERS) Congress*

- b11. Sanna A, Pellegrino D, Messina E, Siena LM, Baccolini V, D'Antoni L, Landini N, Baiocchi P, Villari P, Catalano C, Panebianco V, Palange P. Post-Covid Interstitial Lung Disease (PC-ILD): the role of pulmonary function testing and lung imaging in the long-term follow-up of patients with COVID-19 pneumonia. 2022; Eur Respir J 2022; 60: Suppl. 66, 3271

### *Health Technology Assessment International Annual Meeting*

- b12. Baccolini V, Migliara G, Siena LM, Riccio M, Rosso A, Isonne C, Leone I, Marzuillo C, De Vito C, La Torre G, Villari P. Economic evaluation of Polygenic Risk Scores in clinical practice: a systematic review Health Technology Assessment international (HTAi) 2024 Annual Meeting. Seville, Spain, June 15-19 2024.
- b13. Baccolini V, Isonne C, Siena LM, Sciurti A, Migliara G, Leone I, Marzuillo C, La Torre G, Villari P. What are the challenges in the Health Technology Assessment of genetic and genomic applications? Health Technology Assessment international (HTAi) 2024 Annual Meeting. Seville, Spain, June 15-19 2024.

## Bibliometric Parameters

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Total publications 11

Total citations\* 86

Total impact factor\* 51.6

Average impact factor per  
product\*\* 4.69

\* Source: Scopus (accessed 04/01/2025);

\*\* Calculated using the JCR report referring to the product's publication year or the latest available (for 2023)

**SELF-AFFIDAVIT (ARTICLE 46 AND 47 OF PRESIDENTIAL DECREE 445/2000)**

I, the undersigned Leonardo Maria Siena, born in Viterbo (VT) on 23/07/1995, permanent resident address: Contrada Madonna di Loreto 13 B, Soriano nel Cimino (VT), 01038, aware of the consequences of making false statements, falsehood of acts and use of false facts, punishable by law according to art. 75 and 76 D.P.R. n. 445/2000 and art. 496 of the Italian Penal Code, under my own responsibility,

DECLARE

that the above particulars of facts and information stated are true, correct, and complete to the best of my belief and knowledge.

I hereby authorize the use of my personal data in accordance with the 2016/679 European Regulation on the protection of personal data and the Code on protection of personal data (art. 13 d. lgs.196/2003).

Rome, 04/01/2025