

EUROPEAN
CURRICULUM
VITAE FORMAT



PERSONAL INFORMATION

Name Carlo Torti
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SCOPUS links <https://www.scopus.com/authid/detail.uri?authorId=7003887787>

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E-mail torti@unicz.it

Nationality Italian

Date of Birth Oct 24th, 1969

Gender Male **ORCID:** 0000-0001-7631-5453 **Codice Fiscale:** TRT CRL 69R 24G 388T

PUBLICATIONS

Total number of publications in peer-review journals: **330** (Scopus)

Total number of citations: **9179** (Scopus)

H index: **48** (Scopus)

FIELD OF INTEREST

- Determinants and circulation of bacterial resistance to antibiotics, clinical response and control strategies
- Epidemiological and clinical studies on parasitic infections and zoonosis in migrant and non-migrant populations
- SARS-CoV-2 infection (virological, immunological and clinical aspects)
- Evaluation of predictors of clinical response to treatment of several viral infections (specifically HIV and viral hepatitis) through collaborations with statistical teams of experts in artificial intelligence and management of big data
- Observational studies focusing on HIV infection (virological, immunological and clinical studies) in collaboration with national and international centers

WORK EXPERIENCE

- Dates (from - to) 2012-present
- Name / address employer University "Magna Graecia", Catanzaro, ITA
- Type of business or sector University Unit of Infectious and Tropical Diseases
- Occupation or position held Director of Hospital Unit and Professor
- Activities & responsibilities Teaching, Research and Coordination of clinical activities
- Dates (from - to) 2001-2012
- Name / address employer University of Brescia, Brescia, ITA
- Type of business or sector University Department of Infectious Diseases
- Occupation or position held Consultant Physician and Assistant Professor
- Activities & responsibilities Clinical work and Coordination of a research group
- Dates (from - to) 2012-2015
- Name / address employer University of Makerere, Kampala, UGANDA
- Type of business or sector University Department of Internal Medicine
- Occupation or position held Honorary Lecturer
- Activities & responsibilities Teaching undergraduate and postgraduate students
- Dates (from - to) 2012-2020
- Name / address employer University "Magna Graecia", Catanzaro, ITA
- Type of business or sector Department of Surgical and Medical Sciences
- Occupation or position held Coordinator/Director of the School of Specialization of Infectious and Tropical Diseases

•Activities & responsibilities

Supervision of Doctors in training and Teaching

• Dates (from - to)

2021-present

• Name / address employer

Catholic University of Sacred Heart, Rome Campus, ITA

• Type of business or sector

School of Medicine

• Occupation or position held

Adjunct Professor of Infectious Diseases

• Activities & responsibilities

Teaching undergraduate students

EDUCATION AND TRAINING

• Dates (from - to)

2018

• Name organisation training

Catholic University of Sacred Heart, Rome Campus, ITA

• Principal subjects

Hospital Antimicrobial Stewardship

• Title of qualification awarded

Second Level Master Degree

• Dates (from - to)

1996-2000

• Name organisation training

University of Brescia, Brescia, ITA

• Principal subjects

Infectious Diseases

• Title of qualification awarded

Specialization

• Dates (from - to)

1988-1994

• Name organisation training

University of Pavia, Pavia, ITA

• Principal subjects

Medicine and Surgery

• Title of qualification awarded

MD, Degree (alumnus) of the Ghislieri College of Pavia - National Institute of Superior Culture under the High Patronage of the Presidency of the Republic)

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

Italian

OTHER LANGUAGES

ENGLISH

SCIENTIFIC SKILLS AND COMPETENCES

My research interests are clinical infectious diseases, focused on HIV/AIDS, HIV-hepatitis co-infections, and HCV hepatitis. Our research group is also conducting researches on multi-drug-resistant bacteria in the hospital setting and COVID-19. In my research, I recognize the importance of collaborating with other clinicians to capitalize on our own cohorts of patients. Also, I led my research group towards translational research, thanks to the collaboration with international experts in virology and immunology in the field. In this respect, my studies evaluating levels of virus resistance have influenced how clinicians used HIV drug resistance tests following virologic failure. Also, I have contributed to understanding of the use of antiretroviral therapy in patients with hepatitis coinfection, including the risks for hepatotoxicity and hyperlipidemia in HIV patients co-infected with hepatitis C, increased drug concentrations in HIV patients with hepatitis co-infection, and the importance of the use of tenofovir in patients co-infected with hepatitis B. In the EU funded Virolab project we have set up a clinical-virological platform, network, and methodology which are applicable to monitor and support clinicians for a tailored treatment of new and emerging viral infections. We have also made some interesting observations and reviews of the literature on epidemiology of drug-resistance bacteria in the hospital setting and use of new antibiotics. In collaboration with other research groups we have also obtained interesting observations on the actual prevalence of echinococcosis in the autochthonous population, as well as we have studied prevalence of parasitosis and HIV or chronic hepatitis in migrants in the Calabria Region through combined testing to provide insights on better ways to monitor and treat these infections. Importantly, during the course of these activities a research platform and network were built which may constitute the basis for future collaboration for the sake of the submitted project, including experts in the veterinary field, and colleagues working in the territorial health facilities. Lastly, we capitalized our observations in patients with COVID-19 producing some interesting papers on factors that could influence clinical outcome of these patients and use of some drugs such as tocilizumab or heparin. I am fostering PhD studentships and Doctors in training to create a specialized workforce that will enable the University "Magna Graecia" to excel in clinical research. I currently supervise one PhD student and several Doctors in Training at the School of Specialization in Infectious Diseases.

Carlo Torti acted as a referee for several international journals, among others:

- **The Lancet**

- The Lancet HIV
- Clinical Infectious Diseases
- The Journal of Antimicrobial Chemotherapy
- Clinical Microbiology and Infection
- Canadian Medical Association Journal
- BMC Public Health
- Drug Safety
- Pharmacoeconomics
- Hepatology
- Journal of Infection
- AIDS Research and Human Retroviruses
- Virology Journal
- European Journal of Clinical Microbiology and Infectious Diseases

He has been also reviewer of science projects applying for funding from: the **Medical Research Council South Africa**-Department of Health Comprehensive HIV/AIDS Care Treatment and Management Plan for South Africa; the **Research Council of the University of Leuven** (K.U. Leuven) Centres of Excellence; the **Istituto Superiore di Sanità**

He acts as **Expert reviewer for SSD MED/17 - Infectious diseases, Evaluation of the Quality of the Research, ANVUR**

Currently he is member of the Editorial Board for the Following Journals:

- **BMC Infectious Diseases** (Senior Editorial Board Member)
- **Mediterranean Journal of Haematology and Infectious Diseases** (Deputy Editor for Infectious Diseases)
- **PLOS-ONE**
- **Frontiers in Medicine**
- **Medicine**

Carlo Torti is member of several scientific societies such as the **Royal Society of Medicine**, London, UK (Fellow), the **Italian Society of Infectious and Tropical Diseases, SIMIT** (member and deputy auditor), **Patto trasversale per la Scienza** (member of the General Council)

Faculty Member of the PhD School of Health Sciences at the “*Magna Graecia*” University of Catanzaro. He previously was Faculty Member of the PhD School of Methodology of Clinical Research in Infectious Diseases at the University of Brescia. Also he is **teacher** at several **Schools of Specialization** and at the **Master degree course in Antimicrobial Stewardship** at “*Magna Graecia*” University

Author of numerous communication at national and foreign conferences in the field of Infectious Diseases, omitted for brevity (e.g., *ESCMID Summer School*, *BHIVA Annual Conference*, *EACS*, *International Workshop on HIV Drug Resistance*, *EACS Young Investigators Conference*, *AIFA-UNICRI-OPBG-NIMR Training Course on Good Clinical Practices in Developing Settings: the Promotion of International Harmonization for the Respect of Ethical Principles, Human Rights and Justice*)

Member of Independent Boards for Clinical guidelines such as those on HIV/AIDS and TB (WHO) and Antiretroviral Therapy (Italian Ministry of Health, promoted by SIMIT), management of HIV late presenters and HIV/Hepatitis co-infections (promoted by SIMIT).

Examining Board Member for the Italian Qualification of Full and Associate Professor for the Italian Ministry of the University (ACADEMIC DISCIPLINES LIST Scientific Sector: 06/D4, MED/17 - Infectious Diseases)

RELEVANT ROLES AND COMPETENCES

Coordination and administration of people, projects and budgets.

Chair of the Quality Board: Sixth Framework Programme Priority 2 - European Community: “VIROLAB A virtual laboratory for decision support in viral diseases treatment” Contract 027446 <http://www.virolab.org/>

Co-opted HIV Expert: EUCCO-Net, the European Network for global cooperation in the field of AIDS & TB (FP7 support action of the European Community, 2009) <http://www.euco-net.eu/>

Scientific Secretary: Italian National Cohort: Standardized Management of Antiretroviral Treatment (MASTER) database. (Scientific Supervisor: Prof. G. Carosi, Brescia University) <http://www.mastercohort.it/>

Member of the Steering Committee: RDI (Resistance Database Initiative) International Cohort (Scientific Supervisor: Dr. B. Larder, London, UK) <http://www.hivrdi.org/>

Member of the Steering Committee: COHERE International cohort (Chair: Prof. J.P. Lundgren,

Copenhagen, Denmark) <http://www.cphiv.dk/COHERE/tabid/295/Default.aspx>
Member of the Steering Committee: ICONA National Cohort (Scientific Supervisor: Prof. A. D'Arminio-Monforte, Milan University) up to 2012 <http://www.fondazioneicona.org/>
Member of the Steering Committee: National ARCA Cohort Project (Scientific Supervisor: Prof. M. Zazzi, Siena University) which includes the Calabrian cohort from 2013 SINERGIE (South Italian Network for Rational Guidelines and International Epidemiology) <http://www.hivarca.net/>
Member of the Study Group and Responsible of the Reference Centre (Calabria Region):
 Italian Registry of Cystic Echinococcosis (ISS)
<https://www.eurosurveillance.org/images/dynamic/EE/V20N18/art21115.pdf>
Participant: SITA Association studies (Società Italiana Di Terapia Antinfettiva Antibatterica-Antivirale-Antifungina) www.sitaonline.net
Local Scientific Supervisor: Vironet C www.vironet.org
Member of the Study Group and Local Reference Person: 4CE Consortium for Clinical Characterization of COVID-19 by HER <https://covidclinical.net/>
Member of the Academic Board: Research Centre for Cardiovascular Diseases at the “Magna Graecia” University
Proponent and Coordinator: Call 2020” of the EU Program ERASMUS+ KA107 “International Credit Mobility”
Member of Working Group for the “Frontier Microbiology” of the Italian Association of Clinical Microbiologists (AMCLI) for the advancement of clinical-diagnostic algorithms for the diagnosis of emerging and re-emerging diseases

Carlo Torti is **past-president of the SIMIT** (Italian Society for Infectious and Tropical Diseases) at the Section of the **Calabria Region**

RELEVANT PUBLICATIONS

- 1 Whole-genome analysis of SARS-CoV-2 in a 2020 infection cluster in a nursing home of Southern Italy. De Marco C, Marascio N, Veneziano C, Biamonte F, Trecarichi EM, Santamaria G, Leviyang S, Liberto M, Quattrone A, Matera G, **Torti C**, Costanzo FS, Viglietto G. Infect Genet Evol. 2022 Apr;99:105253. doi: 10.1016/j.meegid.2022.105253. Epub 2022 Feb 18. PMID: 35189404
- 2 Prevalence of Antibiotic Resistance Over Time in a Third-Level University Hospital. Scaglione V, Reale M, Davoli C, Mazzitelli M, Serapide F, Lionello R, La Gamba V, Fusco P, Bruni A, Procopio D, Giannotti A, Gallo L, Matera G, Liberto MC, Cesana BM, Costa C, Trecarichi EM, Quirino A, **Torti C**. Microb Drug Resist. 2022 Apr;28(4):425-435. doi: 10.1089/mdr.2021.0109. Epub 2021 Dec 15. PMID: 34910885
- 5 Molecular characterization of Schistosoma infections in African migrants: Identification of a Schistosoma haemat Marascio N, Loria MT, Lamberti AG, Pavia G, Adams NJ, Quirino A, Divenuto F, Mazzitelli M, Greco G, Trecarichi MC, **Torti C**, Matera G. J Travel Med. 2021 Dec 28;taab194. doi: 10.1093/jtm/taab194. Online ahead of print. PMID: 34962994
- 11 Use of subcutaneous tocilizumab in patients with COVID-19 pneumonia. Mazzitelli M, Arrighi E, Serapide F, Pelle MC, Tassone B, Lionello R, Marrazzo G, Laganà D, Costanzo FS, Matera G, Trecarichi EM, **Torti C**. J Med Virol. 2021 Jan;93(1):32-34. doi: 10.1002/jmv.26016. Epub 2020 Sep 30. PMID: 32410234
- 12 Clinical characteristics and predictors of mortality associated with COVID-19 in elderly patients from a long-term Trecarichi EM, Mazzitelli M, Serapide F, Pelle MC, Tassone B, Arrighi E, Perri G, Fusco P, Scaglione V, Davoli MT, Giudice A, Ricchio M, Cancelliere A, Lio E, Procopio G, Costanzo FS, Foti DP, Matera G, **Torti C**; IDTM UM Sci Rep. 2020 Nov 30;10(1):20834. doi: 10.1038/s41598-020-77641-7. PMID: 33257703
- 13 Evidence of Low Prevalence of Cystic Echinococcosis in the Catanzaro Province, Calabria Region, Italy. Manciuoli T, Serrano R, D'Alessandro GL, Cattaneo L, Maricanti M, Vola A, Taccari F, Narra R, De Vito G, Marascio N, Brunetti E, Tamarozzi F, **Torti C**. Am J Trop Med Hyg. 2020 Nov;103(5):1951-1954. doi: 10.4269/ajtmh.20-0119. PMID: 32975181
- 15 Apparent inefficacy of hydroxychloroquine combined with azithromycin on SARS-CoV-2 clearance in an incident Mazzitelli M, Davoli C, Scaglione V, Fusco P, La Gamba V, Matera G, Trecarichi EM, **Torti C**. Travel Med Infect Dis. 2020 Sep-Oct;37:101826. doi: 10.1016/j.tmaid.2020.101826. Epub 2020 Jul 31. PMID: 32739472
- 16 Potential implications of SARS-CoV-2 epidemic in Africa: where are we going from now? **Torti C**, Mazzitelli M, Trecarichi EM, Darius O. BMC Infect Dis. 2020 Jun 15;20(1):412. doi: 10.1186/s12879-020-05147-8. PMID: 32536344
- 17 The European Register of Cystic Echinococcosis, ERCE: state-of-the-art five years after its launch. Rossi P, Tamarozzi F, Galati F, Akhan O, Cretu CM, Vutova K, Siles-Lucas M, Brunetti E, Casulli A; ERCE network (including **Torti C**). Parasit Vectors. 2020 May 7;13(1):236. doi: 10.1186/s13071-020-04101-6. PMID: 32381109
- 18 Use of colistin in adult patients: A cross-sectional study. Giacobbe DR, Saffioti C, Losito AR, Rinaldi M, Aurilio C, Bolla C, Boni S, Borgia G, Carannante N, Cassola G, Rosa FG, Dentone C, Di Bella S, Di Lauria N, Feasi M, Fiore M, Fossati S, Franceschini E, Gori A, Granata

- Maraolo AE, Marinò V, Mazzitelli M, Mularoni A, Oliva A, Pace MC, Parisini A, Patti F, Petrosillo N, Pota V, Raffaelli F, Rossi M, Santoro A, Tascini C, **Torti C**, Trecarichi EM, Venditti M, Viale P, Signori A, Bassetti M, Del Bono V, Giannella Viscoli C; SITA GIOVANI (Young Investigators Group of the Società Italiana Terapia Antinfettiva) and the COLI-CROSS Study Group. *J Glob Antimicrob Resist*. 2020 Mar;20:43-49. doi: 10.1016/j.jgar.2019.06.009. Epub 2019 Jun 15. PMID: 31207379
- 19 Identification of pmrB mutations as putative mechanism for colistin resistance in *A. baumannii* strains isolated after in vivo colistin exposure. Marano V, Marascio N, Pavia G, Lamberti AG, Quirino A, Musarella R, Casalnuovo F, Mazzitelli M, Trecarichi EM, **Torti C**, Matera G, Liberto MC. *Microb Pathog*. 2020 Feb 11;142:104058. doi: 10.1016/j.micpath.2020.104058. Online ahead of print. PMID: 32058026
 - 21 Successful treatment with cefiderocol for compassionate use in a critically ill patient with XDR *Acinetobacter baumannii* and KPC-pa case report. Trecarichi EM, Quirino A, Scaglione V, Longhini F, Garofalo E, Bruni A, Biamonte E, Lionello R, Serapide F, Mazzitelli M, Marone P, **Torti C**; IMAGES Group. *J Antimicrob Chemother*. 2019 Nov 1;74(11):3399-3401. doi: 10.1093/jac/dkz318. PMID: 31369095
 - 22 Clinical outcomes of patients treated with intravenous zanamivir for severe influenza A(H1N1)pdm09 infection: a case report series. **Torti C**, Mazzitelli M, Longhini F, Garofalo E, Bruni A, Giacchetti A, Barreca GS, Quirino A, Liberto MC, Serapide F, Matera G, Trevisani M, **Torti C**; (Integrated MANAGEment of Sepsis) Group. *BMC Infect Dis*. 2019 Oct 16;19(1):858. doi: 10.1186/s12879-019-4530-1
 - 23 [Good practices for the surveillance and control of antimicrobial resistance]. Moro ML, Ciofi Degli Atti M, D'Amore C, Diegoli G, Forni S, Gagliotti C, Gemmi F, Iannazzo S, Miraglia V, Pan A, Pantosti A, Pittali B, **Torti C**, Zotti C. *Epidemiol Prev*. 2019 Mar-Jun;43(2-3):185-193. doi: 10.19191/EP19.2-3.P185.058. PMID: 31293138
 - 24 Prevalence of parasitic infections in migrants: do official symptom-driven guidelines apply to the current situation? Mazzitelli M, **Torti C**, Greco G, Strazzulla A, Costa C, Pisani V, Sorace C, Giacchetti A, Lamberti A, Barreca GS, Quirino A, Liberto MC. *Infez Med*. 2018 Dec 1;26(4):347-355. PMID: 30555139
 - 25 Depression of lymphocyte activity during cutaneous leishmaniasis: a case report. Matera G, **Torti C**, Mazzitelli M, Greco G, Rania A, Peronace C, Settembre P, Galati L, Giacchetti A, Lamberti AG, Barreca GS, Focà A. *Diagn Microbiol Infect Dis*. 2018 Nov;92(3):230-234. doi: 10.1016/j.diagmicrobio.2018.05.025. Epub 2018 Jun 2. PMID: 29950279
 - 27 Increase of Vascular Endothelial Growth Factor and Decrease of MCP-1 and Some Updated Epidemiology Aspects of Cystic Echinococcosis in Calabria Region. Matera G, Loria MT, Peronace C, Catanzariti T, Settembre P, Giacchetti A, Lamberti AG, Barreca GS, Galati L, Dodaro G, Mazzitelli M, Strazzulla A, **Torti C**, Quirino A, Liberto MC, Focà A. *Mediators Inflamm*. 2018 Jan 14;2018:4283672. doi: 10.1155/2018/4283672. eCollection 2018. PMID: 29535593
 - 28 Patterns of multi-drug resistant bacteria at first culture from patients admitted to a third level University hospital in Calabria from empirical therapy and infection control. Reale M, Strazzulla A, Quirino A, Rizzo C, Marano V, Postorino MC, Mazzitelli M, Greco G, Pisani V, Costa C, Cesana BM, Liberto MC, **Torti C**, Focà A. *Infez Med*. 2017 Jun 1;25(2):98-107. PMID: 28603227
 - 31 A case report of *Schistosoma haematobium* infection in a pregnant migrant raises concerns about lack of screening policies. Mazzitelli M, Matera G, Votino C, Visconti F, Strazzulla A, Loria MT, Peronace C, Settembre P, Giacchetti A, Liberto MC, Focà A, Zullo F, **Torti C**. *J Travel Med*. 2016 Oct 30;24(1):taw076. doi: 10.1093/jtm/taw076. Print 2016 Jul. PMID: 27799503

RELEVANT GRANTS

CCM 2014: "Good Practice in the control and monitoring of antibiotic resistance" - *Local PI*
PROGETTO RICERCA CORRENTE IZSME 14/20 RC: "Emergent zoonosis. *Candidatus* *Neoehrlichia mikurensis* in animals and the human host: an underdiagnosed problem?" - *Local PI*

Regional Objective Project, (POR, Progetto Obiettivo Regionale) Region of Calabria:
 "Epidemiological monitoring, phylogenetic characterization and study of the determinants of the response of HCV infection in the Region of Calabria -- SINERGIE" - *PI*

PRIN 2005: "Evaluation of the prevalence of HIV-1 resistant strains in the population treated with antiretroviral drugs and in new diagnoses. Creation of a national database for the study of determinants of primary and secondary resistance to antiretroviral drugs" - *Local PI*

FP6-2004-IST-4: "ViroLab: A virtual laboratory for decision support in viral diseases treatment" - *PI, Scientific Supervisor & Director of the Quality Board*

ISS National Research Project into AIDS: Agreement no. 31D.59 12 - *Proposer and supervisor*

FP6-2005-LIFESCIHEALTH: Network of Excellence, NEAT, contract no. 37570 72 - *Participant*

FP7/2007-2012: EuroCoord Network of Excellence, contract no. 260694 - *Participant*

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Catanzaro, January, 8, 2023

Prof. Carlo Torti

