

Prof. Leonardo Emberti Gialloreti, MD, PhD

Full Professor of **Epidemiology and Biostatistics**
University of Rome *Tor Vergata*

Teaching Appointments

Professor of:

- Medical Statistics
- Epidemiology
- Research Methodology
- General and Applied Hygiene
- Global Health
- Demography

Education and Training

- MD, *Medicine and Surgery*, Catholic University of Rome, Italy
- Specialization in *Public Health, Epidemiology and Preventive Medicine*, University of Rome *Tor Vergata*
- PhD in *Epidemiology and Microbiology*, University of Rome *La Sapienza*

Main Areas of Scientific Activity

1. **Public Health and Global Health**, with a focus on health programs in low-resource settings and conflict-affected areas.
2. **Epidemiological and Biostatistical Methods**, including mathematical modeling of infectious and non-communicable diseases and vaccination impact; design and statistical analysis of clinical trials, observational and ecological studies; analysis of complex datasets.
3. **HIV/AIDS**, including antiretroviral therapy and HIV-related syndromes in low-income countries; co-infections (Herpes viruses, malaria), malnutrition, HIV subtype distribution, drug resistance, and identification of reliable predictors of CD4 counts in resource-limited settings.
4. **Neuroepidemiology**, with research on epidemiology, etiology, and pathogenesis of Autism Spectrum Disorder; eating disorders and pica; apathy and depression; chronic fatigue syndrome; epidemiology of cerebrovascular diseases; effectiveness of rehabilitation interventions in neurological patients.
5. **Neuroimaging**, particularly Diffusion Tensor Imaging (DTI) and tractography in individuals with Autism Spectrum Disorder.
6. **Neurovirology**, focusing on viral infections of the central nervous system, including the epidemiology of Varicella-Zoster Virus.
7. **Rehabilitation Research**, including standardization and validation of outcome measures for rehabilitation effectiveness.
8. **Genetic and Epigenetic Epidemiology**, with emphasis on central nervous system disorders.
9. **Machine Learning Applications in Medicine and Epidemiology**.
10. **Aging Biology and Geroscience Research**.

Research Keywords

Public Health; Infectious Diseases; Epidemiological Methods and Mathematical Modeling; Biostatistics; Autism Spectrum Disorder; Neurodevelopment and Genetics; Neuroepidemiology; Rehabilitation Sciences; Global Health.