

Prof. Dr. Annemieke Geluk

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Short Bio

Annemieke Geluk studied Chemistry at the University of Leiden and the University of Virginia (Charlottesville, USA). During her PhD, she specialized as an immunologist at the Department of Immunohematology and Blood Bank at the LUMC as well as Cytel Corporation in San Diego, USA and received postdoctoral training at the Mayo Clinic, Rochester, MN, USA. In 1996 the Royal Dutch Academy of Sciences acknowledged her a 5-year fellowship during which she focused on the immunology of Leprosy and tuberculosis (TB). Since 2015 she is appointed Professor of Immunodiagnostics at the LUMC Department of Infectious Diseases. Additionally, her group functions as the national reference centre for routine serological diagnosis of leprosy (with service in Europe and the Caribbean).

Based on longstanding experience in immunology of mycobacterial diseases, her research currently focuses on Immunodiagnostics of Leprosy and TB including basic-, translational-, applied- as well as field research and TB vaccine development, involving various "Omics" approaches. This includes a strong research line for host biomarker-based development of rapid, point-of-care (POC) diagnostic tests for leprosy and TB as public health tools in low resource settings.

She is PI on multiple international grants and has designed, coordinated and conducted several large-scale, multi-center studies in e.g. Bangladesh, Brazil, Ethiopia and Nepal. It is her vision that not only scientific but also societal and philanthropic valorization will result from her research through collaborations with field sites. Thus, her research aims at design of strategies to predict, diagnose, prevent and better treat leprosy and tuberculosis by translation of basic research in immunology and molecular biology to field applications.