

Gheona Altarescu obtained her *magna cum laude* diploma in Medicine at the Jassy University of Medicine and Pharmacy, Romania. She performed her training in medical genetics at the National Institutes of Health, Bethesda, USA during the years 1997 to 2000 under the supervision of Dr. Roscoe Brady. During this period of time she treated more than 100 patients with different lysosomal storage diseases: Gaucher disease type I, II and III, Fabry disease, Mucopolysaccharidosis type IV, Hunter and Hurler disease and performed basic molecular research in the field of lysosomal storage disorders. She is board certified in clinical and molecular genetics. Upon returning to Israel she established the Lysosomal clinic for Fabry disease patients at the Shaare Zedek Medical Center in Jerusalem. This is a multidisciplinary clinic. She is currently taking care of all Fabry patients in Israel. She also developed the Preimplantation Genetic Diagnosis Unit. The clinic is the largest of its kind in Israel and performed preimplantation genetic diagnosis for more than 800 different genetic disorders including lysosomal storage diseases (Gaucher, Fabry and Hunter syndrome) resulting in the birth of 1000 healthy children since the year 2005. She has been involved in clinical trials for different drugs for both Gaucher type I and Fabry disease. The lab has been involved in several randomized multicenter international trials in the field of preimplantation genetic diagnosis. New technologies involving single cell next generation sequencing for chromosomal abnormalities detection are used routinely for preimplantation genetic screening. Recently she has been involved in collaboration with Prof. A. Rolfs in developing a new technique for detecting molecular disorders (Gaucher Disease type 1) during pregnancy using a noninvasive approach. Gheona Altarescu has published almost 100 peer reviewed papers in the field of lysosomal diseases and preimplantation genetic diagnosis. She is a member of several genetic societies including the Preimplantation Genetic Society. She is currently an Associate Professor of Genetics at Hebrew University Hadassah Medical School Jerusalem and the Director of the Preimplantation Genetic Unit and Lysosomal diseases Clinic at Shaare Zedek Medical Center, Jerusalem.