

Brief CV of Francesca Romana Grati, Ph.D. , ErCLG



Francesca Romana Grati Ph.D. is a Biologist, Medical Geneticist, and European registered Clinical Laboratory Geneticists (ErCLG, European Board of Medical Genetics). She is the R&D Director and Head of the Molecular Cytogenetics Diagnostics Unit at TOMA, Advanced Biomedical Assays S.p.A. laboratory (Busto Arsizio, Varese, Italia). She is also Contract Professor at the Graduate School of Medical Genetics (University of Milan).

She is currently active member of the cytogenetics and cytogenomics working group of the Italian Society of Human Genetics (SIGU), member of the Board of Directors at International Society for Prenatal Diagnosis and therapy (ISPD), of the Faculty of the Virtual Academy of Genetics (CoGen) and of the editorial board of Prenatal Diagnosis journal. She's also a member of the advisory Board for Roche.

Dr. Grati's special interests are in prenatal diagnosis and fetal genetics. Her research is mainly focused on the understanding of the epidemiology of chromosome abnormalities in prenatal population, genetics and epigenetics of placenta, feto-placental mosaicisms and their impact on preimplantation, prenatal diagnosis and non invasive prenatal testings. She is also committed to the evaluation of new technologies in clinical settings, their setup and validation (eg: preimplantation genetic screenings (PGS), chromosomal microarray (CMA), and cfDNA testing).

She has published several articles in peer-reviewed journals including Prenatal Diagnosis, Ultrasound in Obstetrics and Gynecology, Genetics in Medicine and contributed to scientific books. She is an invited speaker at national and international scientific meetings and she also serves as a regular reviewer for numerous international journals, including Prenatal Diagnosis, Ultrasound in Obstetrics and Gynecology, Journal of Translational Medicine, American Journal of Pathology and American Journal of Medical Genetics.

In 2000 Dr. FR Grati completed her graduation (*summa cum laude*) in Medical Genetics at University of Pavia in collaboration with the University of Milan (Dept. Medical Genetics, San Paolo Hospital) with a thesis on genetics and epigenetics of head and neck cancers. Thereafter, she trained as a Ph.D. at University of Pavia and, in 2004, she graduated *summa cum laude* with a thesis on the genetics and epigenetics of intrauterine growth restriction (IUGR) developed in collaboration with the University of Milan (Dept. Medical Genetics, San Paolo Hospital). In 2011 she collaborated with the European Joint Research Community (JRC) on a project for the European harmonization for NIPT technologies and wrote the 'Applied Genomics in the Clinic' Policy Report by the JRC of the European Commission .