

**Marian Ludgate, *Cardiff University School of Medicine***

I am currently Professor Emerita in the School of Medicine at Cardiff University, where I have spent most of my career. This has focused on all aspects of thyroid patho-physiology, especially autoimmune disease. I was also privileged to work for many years at the Interdisciplinary Research Institute of Human & Molecular Biology in Brussels with Sabine Costagliola, Gilbert Vassart and Jacques Dumont. I have conducted wide ranging research from in vitro experiments to in vivo animal models and studies in large patient cohorts to make major contributions which include (i) cloning thyroid autoantigens (ii) characterisation of major B cell epitopes of thyroid autoantigens; (iii) recombinant assays (patents in Europe and USA) for measuring pathogenic autoantibodies; (iv) development of animal models of Graves' disease/TED (v) elucidation of genetic causes of congenital hypothyroidism, thyroid cancer and sporadic goitre; (vi) effects of thyroid hormone in utero on child cognition, behaviour and metabolism; (vii) role of microbiome in Graves' disease/TED. Conflicts of Interest: Honoraria for scientific advice provided to Aspen/Merida; Ethyreal; Nandi Life Sciences.