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I am currently a Professor in the Division of Molecular Biology and Human Genetics at Stellenbosch University, which also houses the DSI-NRF Centre of Excellence in Biomedical Tuberculosis Research and South African Medical Research Council Centre for Tuberculosis Research. My primary research focus is on finding the genetic underpinnings of infectious diseases, especially tuberculosis (TB).

My insights into the latest genetic analyses available have allowed the work on genetic susceptibility to infectious diseases to benefit from population genetic analyses and next generation sequencing. My work leverages the complex ancestry of the admixed people in South Africa, specifically the unique genetic contribution from hunter-gatherer ancestry, to find novel genes and pathways involved in infectious disease resistance or susceptibility.