PTPN22: Model Gene to Unravel the Interaction between Genetics and Environment in Type 1 Diabetes

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Dr. Stanford’s research focuses on the interplay between genetics and viral infection in the pathogenesis of type 1 diabetes (T1D). Dr. Stanford’s work is currently focused on the tyrosine phosphatase PTPN22, a critical mediator of host innate immunity and one of the strongest non-HLA genetic risk factors for T1D. Her research uses a variety of experimental models including transgenic mice and immune cells from T1D subjects to determine whether PTPN22 affects T1D pathogenesis by regulating host response to diabetogenic enteroviral infections.