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## Pilot Project Proposal

**Name of Project:** Winning the Fight Against Diabetes: Singapore to GP-write  
(SGP to GP-write)

**Proposer and Contact Information:**

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**Background:**

There is a global urgent need, and especially in Singapore, to better understand Type 2 diabetes (T2D) in a bid to improve therapies for the disorder. The prevalence of T2D is forecasted to double in Singapore by 2050 to inflict 15% of the population and the lifetime risk of the population is expected to reach approximately 50% by 2050. Being ethnically diverse, Singapore's public health trends are representative of Asia, thus the disconcerting growth in prevalence of T2D may be imminent for other Asian countries.

**Technical Idea:**

To win the war against T2D, we hope to accelerate our understanding of T2D through GP-write by constructing cell and animal models to investigate T2D-associated genes. These models will enable us to study genetic factors that render individuals predisposed to T2D and investigate variations at transcriptional and translational levels that cause anomalies, such as impaired glucose transport and suppressed insulin response, leading to T2D.

**Utility:**

The advancement in our knowledge of T2D through GP-write will aid our efforts to curb the rise of T2D and improve treatment regimens for T2D in Singapore and other Asian countries.

**“Fit” For GP-write:**

The effort is global, the implications are global, and the potential benefit to humanity align with the applications that arise from GP-write's other pilot projects that would have a positively significant impact on human health and lifespan.

**Submit to:**

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