

I09 NHRI TRG RFA

Topic #2: Mechanism and Prevention for Diabetic Complications

- **Objective:**

- NHRI is committed to facilitating the translation research to reduce impacts caused by diabetic complications. Therefore, NHRI is soliciting study proposals to tackle diabetic micro- and/or macro-vascular complications.

- **Background:**

- Diabetes-related cardiovascular diseases have been significantly reduced in the USA during the last decade; however, the incidence and prevalence of cardiovascular diseases and end-stage renal disease in patients with diabetes in Taiwan are still on the rise. Thus, a new approach is needed to solve these adverse health outcomes.

- **Research Priority:**

- Study outcomes should be focused on the important diabetic complications, particularly for the ones that incurred significant disease burden in Taiwan such as myocardial infarction, heart failure, and/or end-stage renal disease.
- The applicants are encouraged to adopt a multidisciplinary approach for this research. The methodology may include (not limited to) recent developments in genetics, immunology, cell biology, biomarker profiling, therapeutic options, diagnosis tools, prediction models, epidemiological analysis, and/or artificial intelligence application.
- The scope of this call should include at least 3 interrelated and integrated sub-projects to link a major pathway or target for the investigated outcomes.
- Research priority of this project is to offer innovative strategies, through elucidating causal association in disease pathogenesis to developing therapeutic interventions, to prevent or reduce the targeted diabetic complications.