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Multilateral Approaches of Diabetes Millitus and Its Complications by Young Scientists -Development of Novel Therapeutic strategy

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The number of people with type-2 diabetes increases explosively in the world. At present, an estimated 425 million adults have diabetes in 2017. If these trends continue by 2045, 700 million people will have diabetes. A continuous hyperglycemia by diabetes induces various complications, e.g. retinopathy, nephropathy, and neuropathy, resulting in decline markedly in QOL and life-span of patients. Traditional drug therapies focused on only antihyperglycemic effect cannot prevent from an expansion of diabetes and its complications, therefore we need to develop novel diabetes treatments. In this symposium, six graduate students present about dysfunction of insulin secretion and insulin resistance, which are related to pathogenesis of type-2 diabetes, and diabetes complications such as vascular endothelial dysfunction, retinopathy, respiratory and cardiovascular disease. We hope that comprehensive discussions of results from basic to clinical research in this symposium lead to contribute the development of novel diabetes treatment, and that young researchers have the opportunity to share their ideas with other researchers including audience.