

Department of Internal Medicine

Division of Diabetes, Metabolism and Endocrinology

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General Summary

We expanded medical treatment with the Division of Diabetes, Metabolic and Endocrinology because of a rapid increase in the number of patients, mainly with diabetes and internal secretion diseases, such as those of the thyroid gland, pituitary gland, adrenal gland, the gonads.

By using such an increase in the number of patients as a basis, we are performing high-quality studies.

Research Activities

Study on diabetes complications

1. Rho/Rho kinase signal and symptoms of very small blood vessels with diabetes
2. Rho/Rho kinase signal and symptoms of great vessels with diabetes

Study on epidemiology

1. Clinical study of diabetes with continuous glucose monitoring
2. Study of lifestyle-related diseases of local inhabitants and insulin resistance

Molecular biologic study of the pancreas's islets of Langerhans

Elucidation of the molecular mechanism change by obesity of the power of protein kinase C δ -dependent pancreas β -cell capacity change by the fat toxicity

Study on endocrinology

1. Fundamental researches
 - 1) Study of mineral-corticoid receptor in diabetes
 - 2) Study of Ca channel subclass and depression mechanism
 - 3) Study of the potential transient receptor transient channel of fat cells
2. Clinical study

Clinical study of adrenal tumors

Study of blood pressure variation

The main purpose of this study was to elucidate the mechanisms by which blood sugar

levels, blood pressure, cholesterol, and changes in acylglycerol are related to the complications of diabetes and cardiovascular events.

Publications

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Ikeda K, Fujioka K, Tachibana T, Kim SU, Tojo K, Manome Y. Secretion of urocortin I by human glioblastoma cell lines, possibly via the constitutive pathway. *Peptides.* 2015; **63**: 63-70.

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