

Division of Clinical Nephrology and Rheumatology (Kidney Research Center)

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Our task includes clinical practice, research and education in the area of nephrology and rheumatology.

A wide range of basic and clinical investigations and education are in progress to understand pathogenesis and to develop new treatment strategies for kidney diseases and autoimmune diseases. To accomplish these purposes, we apply clinicopathological methods, as well as varieties of experimental techniques, such as molecular and cellular biology, genetic and proteomic analysis, and those with experimental animal models. We have established a large-scale database of kidney biopsy specimens with clinical data and renal prognosis consisting of more than 18,000 cases of various glomerular and tubulointerstitial diseases. Particularly, we have performed extensive research and published many papers on the development and progression of IgA nephropathy, one of the most predominant type of primary glomerulonephritis. We have also contributed greatly in the research on the influence and treatment of uremic toxins on complications in patients with end stage kidney disease. Our department belongs to the Kidney Research Center. It is the sole institute in Japan that consists of basic, translational and clinical department. Each department specializes in research about kidney disease covering from basic to clinical science, working in a coordinated fashion.



Major Research Interests:

- Genetic study to clarify the mechanism of initiation and progression of IgA nephropathy
- Molecular genetics and cell biology of primary glomerulonephritis
- Molecular genetics and cell biology of diabetic kidney disease
- Bone and calcium metabolism in chronic kidney diseases
- Clinical and genetic analysis of autoimmune diseases
- Treatment of complications in ESRD patients
- Prevention and treatment of life style-related diseases including hypertension and diabetes
- Treatment of autosomal dominant polycystic kidney
- Treatment of rare kidney diseases including Fabry nephropathy