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The Intra-Nephron Renin-Angiotensin System – Insights from Gene Targeting

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Dr. Kohan’s research focuses on kidney regulation of blood pressure and salt balance in health and in hypertension. He developed cell-specific gene targeting in the kidney and has used these genetically modified mice to identify the role of a variety of factors, including endothelins, nitric oxide synthases, thiazolidinediones, adenylyl cyclase isoforms, and others in the control of renal sodium and water transport and blood pressure. His most recent work examines how intra-nephron angiotensinogen, renin/prorenin and the prorenin receptor regulates renal salt and water excretion and blood pressure in health and in angiotensin-II mediated hypertension. His work has been translated to clinical studies showing promise for the treatment of hypertension and chronic kidney disease.