

# **Developing novel treatment strategies for chronic kidney disease targeting the renal nerves**

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Approximately 10% of the population worldwide suffers from chronic kidney disease (CKD), which is associated with sustained inflammation and progressive fibrosis in the kidney. CKD can progress to end-stage kidney disease and is a potential risk factor for cardiovascular disease. Currently, even with widespread use of renin–angiotensin system blockers and sodium–glucose cotransporter 2 inhibitors, a substantial residual risk of CKD progression remains. Hence, it is important to develop novel therapeutic strategies for CKD. In this project, we aimed to selectively manipulate renal sympathetic nerve and sensory nerve. We have successfully ablated only renal sensory nerve with capsaicin in mice. We have also specifically labelled renal sensory nerve by microinjecting tracer into the kidney.