

Special Issue

Molecular Insights in Kidney Cancer

Message from the Guest Editors

Kidney cancer (renal cell carcinoma, RCC) encompasses multiple subtypes with disparate pathological and molecular characteristics and clinical outcomes. Several genetic lesions are known to be pathogenic for subtypes of RCC. For instance, the inactivation or dysfunction of VHL (von Hippel Landau) tumor suppressor gene is oncogenic for clear cell RCC (ccRCC), while the dysfunction of fumarate hydratase (FH) is associated with hereditary leiomyomatosis and renal cell cancer (HLRCC). Importantly, the interplay between genetic and metabolic alterations in tumor cells, and their influences on immune cells and microenvironmental components clearly modulate cancer progression and therapeutic response. A greater understanding of the molecular communication superhighway in the tumor microenvironment of RCC will be instrumental to devise more effective targeted therapies in order to improve the outcome of this cancer. This Special Issue will focus on these molecular translational researches in RCC.

Guest Editors

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