

Special Issue

Renal Tumors: Molecular Biology and Therapeutic Vulnerabilities

Message from the Guest Editor

Renal neoplasms are a group of renal tumors arising from the nephron arising from a wide of genetic alterations. Many forms of kidney cancer have unique biology, but many have overlapping metabolic dysregulation in pathways regulating oxygen sensing, iron metabolism, and energy/nutrient sensing. Both sporadic and hereditary forms of kidney cancer contain genetic alterations that are often overlapping. Benign renal tumors also have unique biology with defects in mitochondrial biology, as well as the TSC/mTOR pathway. Prognosis is extremely variable, as tumors range from indolent with no potential to harm patients to extremely aggressive being refractory to most treatments. This Special Issue will contain translational research focus on various types of renal tumors, both malignant and benign, with special emphasis on preclinical models, genetic characteristics, methods for prognostication, molecular imaging, and novel approaches for therapeutic targeting.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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