



## Nephrotoxicity 2019

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### Message from the Guest Editor

Nephrotoxicity can be mediated through many different xenobiotics, including drugs, disinfection byproducts, environmental chemicals, metals, agricultural products, and solvents. The kidney is a target for toxicity by many structurally diverse chemicals, through poorly understood mechanisms. Part of the susceptibility of the kidney can be attributed to cellular accumulation to levels higher than plasma concentrations due to active transporter influx on the basolateral side of proximal tubular epithelial cells. Additionally, very little is known regarding the impact of nephrotoxic substances on the cell signaling pathways involved in cell death and repair. This Special Issue will focus on examining the mechanisms of nephrotoxicity as well as the potential of confounding factors to increase susceptibility to renal toxicity such as aging or the presence of diseases such as diabetes. Second, this Special Issue will examine potential biomarkers of nephrotoxicity. Third, articles in this Special Issue will address the impact of nephrotoxic substances on cell signaling and protein expression that would influence cell function.





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