



New Findings and Insights in Inflammation-Induced DNA Damage, Mutations and Cancer

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Inflammation and mutagenesis are well-known hallmarks of cancer, and while the mechanisms linking inflammation or mutagenesis to cancer are frequently interrogated, the interrelationships between inflammation and mutagenesis and subsequent influences on cancer are less well studied. DNA damage is a key node in the network that connects inflammation and mutagenesis—inflammation both causes and is caused by DNA damage, and DNA damage is the dominant cause of mutagenesis (aside from spontaneous replication errors). Additionally, increases in cellular proliferation (a result of inflammation and a feature of carcinogenesis) sensitize cells to DNA damage-induced mutations. Environmental exposures and endogenous processes can increase inflammation, DNA damage, and/or proliferation, in turn provoking the progressive accumulation of mutations that leads to carcinogenesis. This Special Issue of the *International Journal of Molecular Sciences* is dedicated to recent advances in understanding the complex relationships between inflammation, DNA damage, and mutagenesis that govern cancer development.

Dr. Jennifer Kay





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Message from the Editor-in-Chief

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