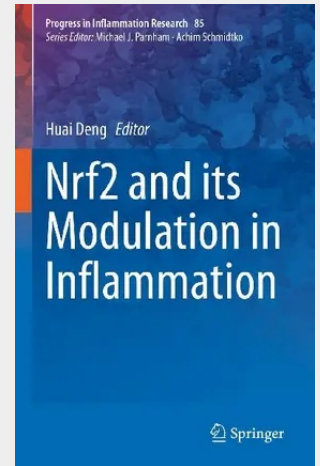


Nrf2 and its Modulation in Inflammation

Nrf2, a transcription factor that mediates transcriptional responses to oxidative and xenobiotic stresses, plays a central role in cellular protection against internal or external toxins. Defects in Nrf2 and the relevant regulatory pathways are associated with a number of pathologies including inflammation, respiratory diseases, cardiovascular dysfunctions, metabolic syndrome and diabetes, neurodegeneration, and cancer. This book comprehensively reviews the up-to-date discoveries for the roles of Nrf2 in several human diseases in the context of inflammation. In particular, the molecular mechanisms that mediate the functions of Nrf2 and its interacting network in inflammation and pathogenesis are explicated. In addition, the research and therapeutic applications of Nrf2-targeting compounds in different diseases were summarized. This book is expected to be a valuable reference for worldwide researchers conducting both mechanistic and therapeutic studies of Nrf2 and relevant factors.

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