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| Descrizione fisica      | 1 electronic resource (200 p.)  |
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| Sommario/riassunto      | The kidney performs important functions in the human body and can<br>inflict either acute kidney injury (AKI) or chronic kidney disease (CKD).<br>AKI can be induced by kidney ischemia, drugs such as cisplatin, and<br>heavy metals such as cadmium and arsenic. CKD can be induced by<br>drugs, heavy metals, hypertension, and diabetes, as well as cancer.<br>Importantly, nearly all kidney disorders have been shown to involve<br>redox imbalance, reductive stress, oxidative stress, and mitochondrial<br>abnormalities such as impaired mitochondrial homeostasis, including<br>disrupted mitophagy and deranged mitochondrial unfolded protein<br>responses. Understanding how these redox-related dysregulated<br>pathways operate may give us new insights into how to design novel<br>approaches to fighting kidney disease. This Special Issue of<br>Biomolecules entitled "Redox imbalance and mitochondrial<br>abnormalities in kidney disease" covers a variety of topics focusing on<br>oxidative stress, mitochondrial dysfunction, and antioxidation<br>enhancement implicated in kidney disease or kidney transplantation. |

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