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Lingua di pubblicazione Formato Livello bibliografico Nota di bibliografia Nota di contenuto	Inglese Materiale a stampa Monografia Includes bibliographical references at the end of each chapters. PrefaceChapter 1 Introduction/Overview Chapter 2 Structural Biology of the DJ-1 Superfamily Chapter 3 Expression of DJ-1 in patients with neurodegenerative diseases Chapter 4 DJ-1 as an oncogene and its clinical significance Chapter 5 Role of DJ-1 in fertilization Chapter 6 Anti-oxidative stress function of DJ-1 Chapter 7 Ttranscriptional regulation of DJ-1 Chapter 8 Regulation of Signal Transduction by DJ-1 Chapter 9 Protein repair by DJ-1 from glycation by glyoxal and methylglyoxal Chapter 10 DJ-1 as a biomarker of Parkinson's disease Chapter 11 Roles of DJ-1 in diabetes mellitus Chapter 12 Therapeutic activities of DJ-1 and its binding compounds against neurodegenerative diseases Chapter 13 DJ-1 as an oncogene and promising target for cancer chemotherapy

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gene for a familial form of Parkinson's disease (PD), park7. The DJ-1 gene is therefore the first gene discovered that is known to cause cancer and neurodenegerative diseases, including PD. The research field has expanded as the research has developed. Thus this volume begins with a general introduction of DJ-1, and explains the history and research development to understand the following chapters. Those chapters present the roles of DJ-1 in various oxidative stress-related diseases such as neurodegenerative diseases, as well as cancer, diabetes, and fertility. Moreover, several chapters present evidence that DJ-1 is useful for therapeutic strategies against these diseases. The reader will discover that DJ-1 is a promising protein both for basic cell biology and for the mechanism and therapy for oxidative stress-related diseases. .