



Mitochondrial DNA: Methods and Protocols (Methods in Molecular Biology)

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This third edition is comprised of well-established protocols that are considered the gold standard in the field as well as new methodologies for mitochondrial DNA analysis. *Mitochondrial DNA: Methods and Protocols* describes protocols for detecting mutations in mitochondrial DNA, techniques to assess mitochondrial DNA damage, visualization of mitochondrial DNA *in situ*, detection of mitochondrial DNA nucleoids within the mitochondria, methods for analyzing mitochondrial DNA replication, mitochondrial DNA-encoded protein translation and mitochondrial DNA copy number, the latest technologies for modifying the mitochondrial genome and methods for the purification of proteins involved in the replication and transcription of mitochondrial DNA. Written for the *Methods in Molecular Biology* series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls.

Authoritative and practical, *Mitochondrial DNA: Methods and Protocols, Third Edition* will be useful not only for mitochondrial researchers but also for scientists studying human diseases where mitochondrial DNA variation has been recognized as an important pathogenic factor, including cancer and neurodegeneration.

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