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Zebrafish as a Model for Parkinson's Disease
(2024) *Zebrafish as a Model for Parkinson's Disease*, pp. 1-298.

DOI: 10.1201/9781003402893

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Abstract
The increasing demand for innovative techniques arises from the lack of safe, effective, and patient-friendly therapies for neurodegenerative disorders. With this objective in mind, the chapters of the book are structured to offer a thorough insight into recent advancements in utilizing the zebrafish (ZF) as a model for studying Parkinson's disease (PD). This book aims to present readers with a comprehensive understanding of the clinical application of the ZF model in treating PD, encompassing the latest developments, challenges, safety considerations, toxicity issues, regulatory aspects, future potential, and limitations. Individuals in academia, the scientific community, business, and education seeking a more effective approach to target the brain stand to benefit from this resource. Key Features • Provides a comparative perspective of the zebrafish-Parkinson's disease model • Highlights the restrictions of available medicines • Describes biochemical and histopathological characteristics, advantages, and disadvantages of this model • Emphasizes distinct facets of histopathology • Presents advances and developments of the future potential perspectives. © 2025 Taylor & Francis Group, LLC.

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Publisher: CRC Press

ISBN: 9781040115893; 9781032515779
Language of Original Document: English
Abbreviated Source Title: Zebrafish as a Model for Parkinson's Disease
2-s2.0-85212739570
Document Type: Book
Publication Stage: Final
Source: Scopus