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3.3.2. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

S.No	Title of Book Published/papers	Name of the Author	Name of Publisher	ISBN No.	Year of Publication
1	Pharmaceutical Dosage form Technology	Dr.T.E Gopala Krishna Murthy	Brillion Publishing	978-81-19238-28-6	2023
2	Molecular Docking Studies to improve Bioavailability of p-gp Substrate	Dr.T.E Gopala Krishna Murthy	LAP LAMBERT Academic Publishing GmbH & Co. KG, (Germany)	978-620-6-78443-2	2023

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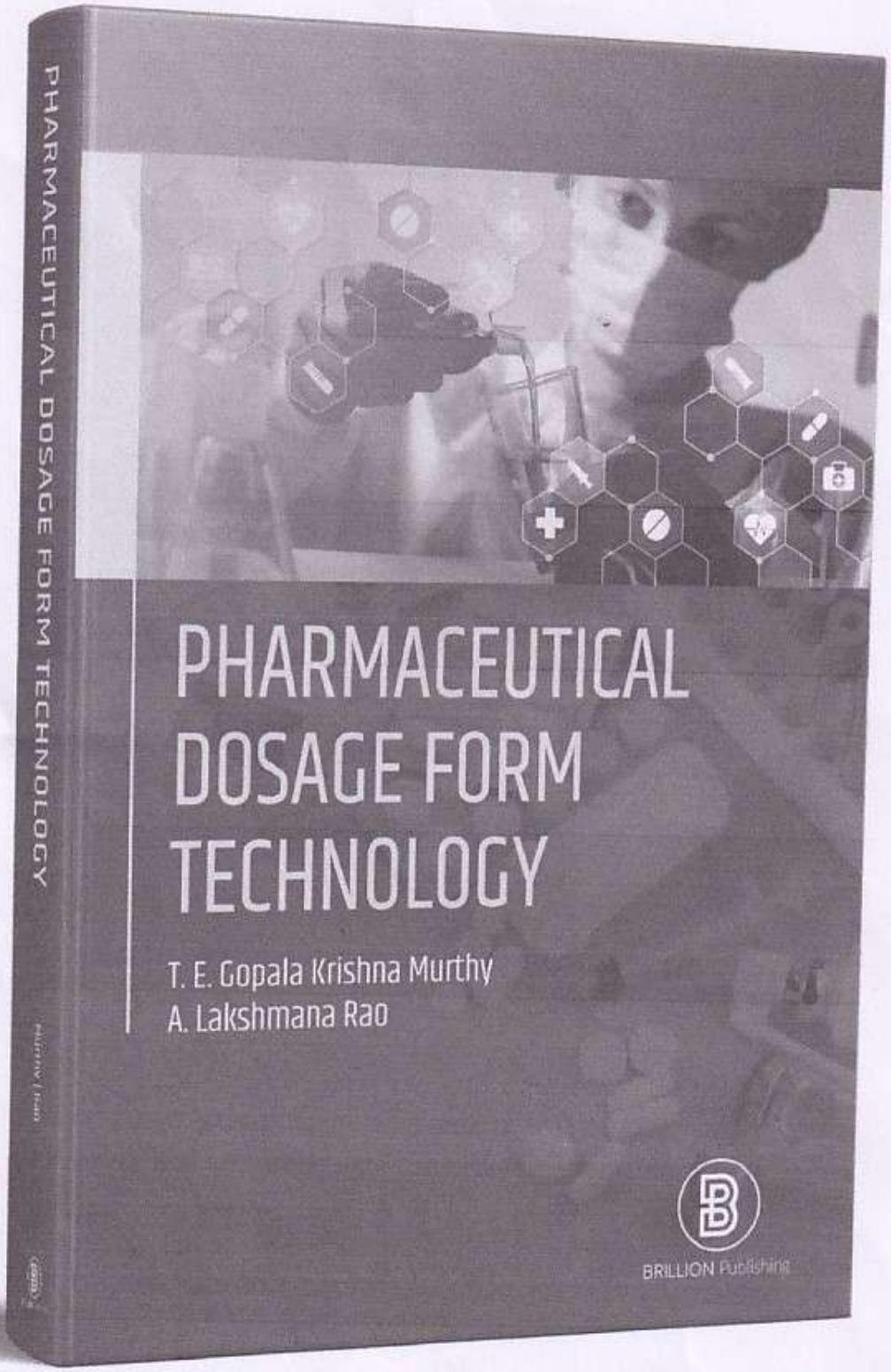

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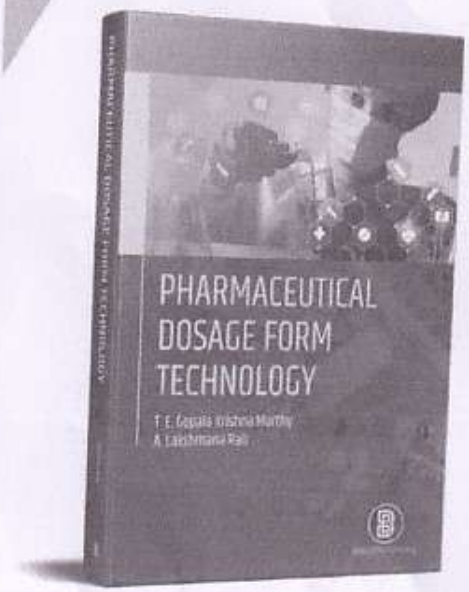

PHARMACEUTICAL DOSAGE FORM TECHNOLOGY

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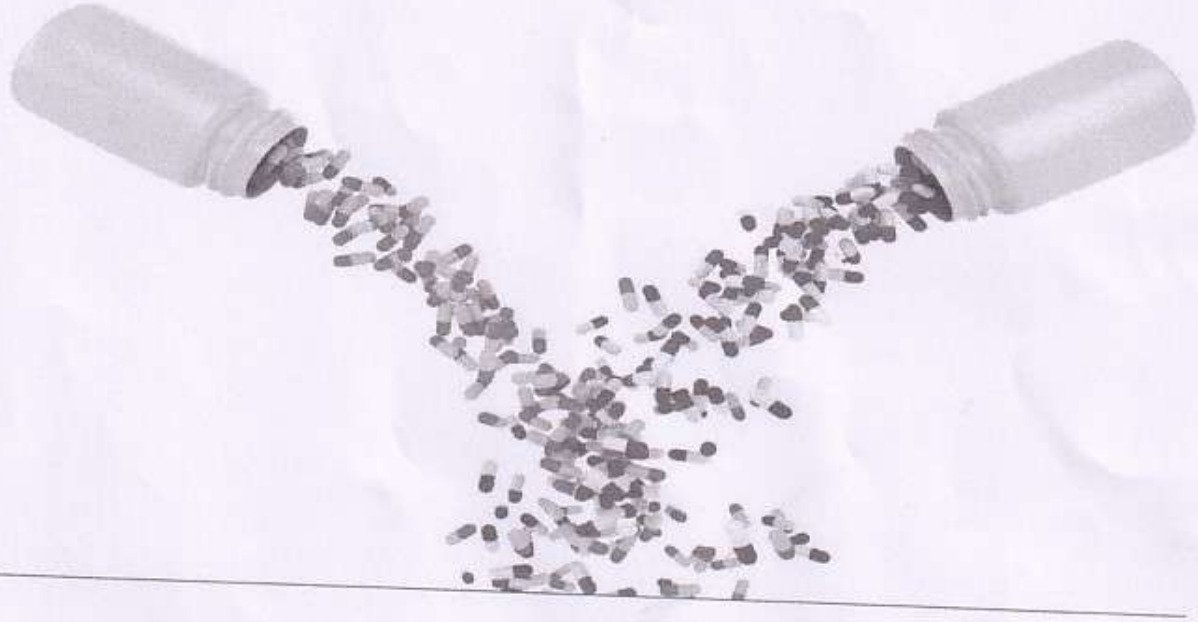

Gopala Krishna Murthy Talasila
Ramya Alahari
Dhana Lakshmi Neelapala

Molecular Docking Studies to Improve Bioavaliability of P-gp Substrate

p-gp substrate pharmaceutical excipients

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Molecular Docking Studies to Improve Bioavaliability of P-gp Substrate

p-gp substrate pharmaceutical excipients

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P-glycoprotein (P-gp) known as multi drug resistance (MDR) protein was discovered by Juliano and Ling in 1976 and belong to the adenosine triphosphate (ATP)-binding cassette sub-family B member 1 (ABCB1). Active pharmaceutical ingredients, natural constituents, and pharmaceutically inert excipients have been widely studied as P-gp inhibitors. Three excipients ghee, badam oil and fenugreek oil were selected as excipients as there are enriched with p-gp substrates. Molecular docking studies were conducted to identify the binding energy involved in between p-gp and the components of selected excipients. The selected drugs affinity with p-gp was also estimated by molecular docking studies. The diffusion of selected drugs through the intestine membrane was also estimated. Good correlation was observed between the docking score and the estimated diffusion rate from the diffusion data. Thus, these studies conclude that the molecular docking studies are beneficial to select the suitable excipients for improving the bioavailability of reported p-gp substrates.

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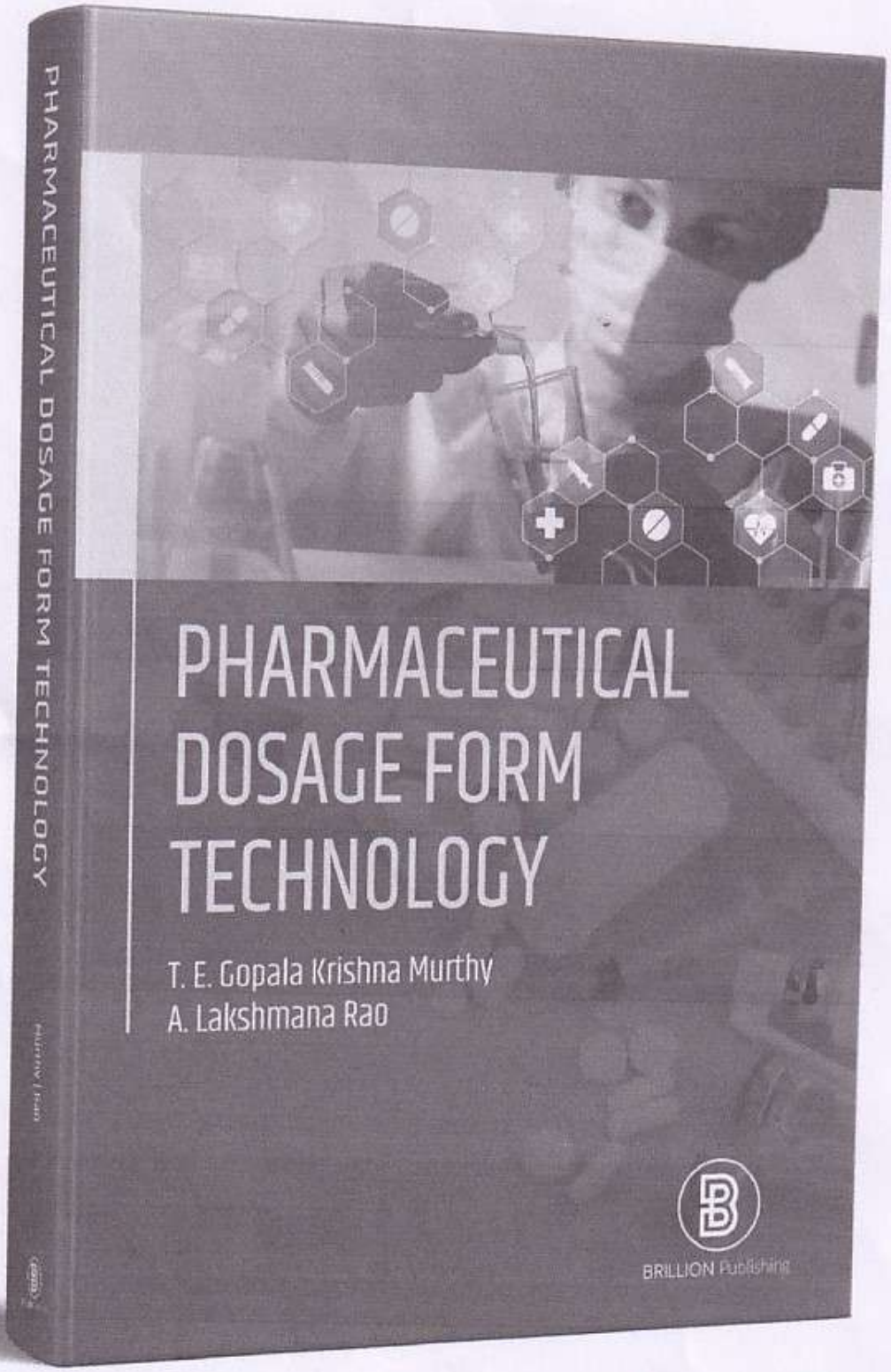

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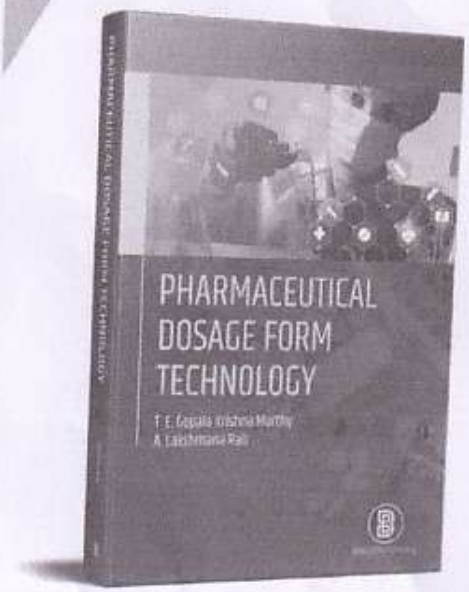

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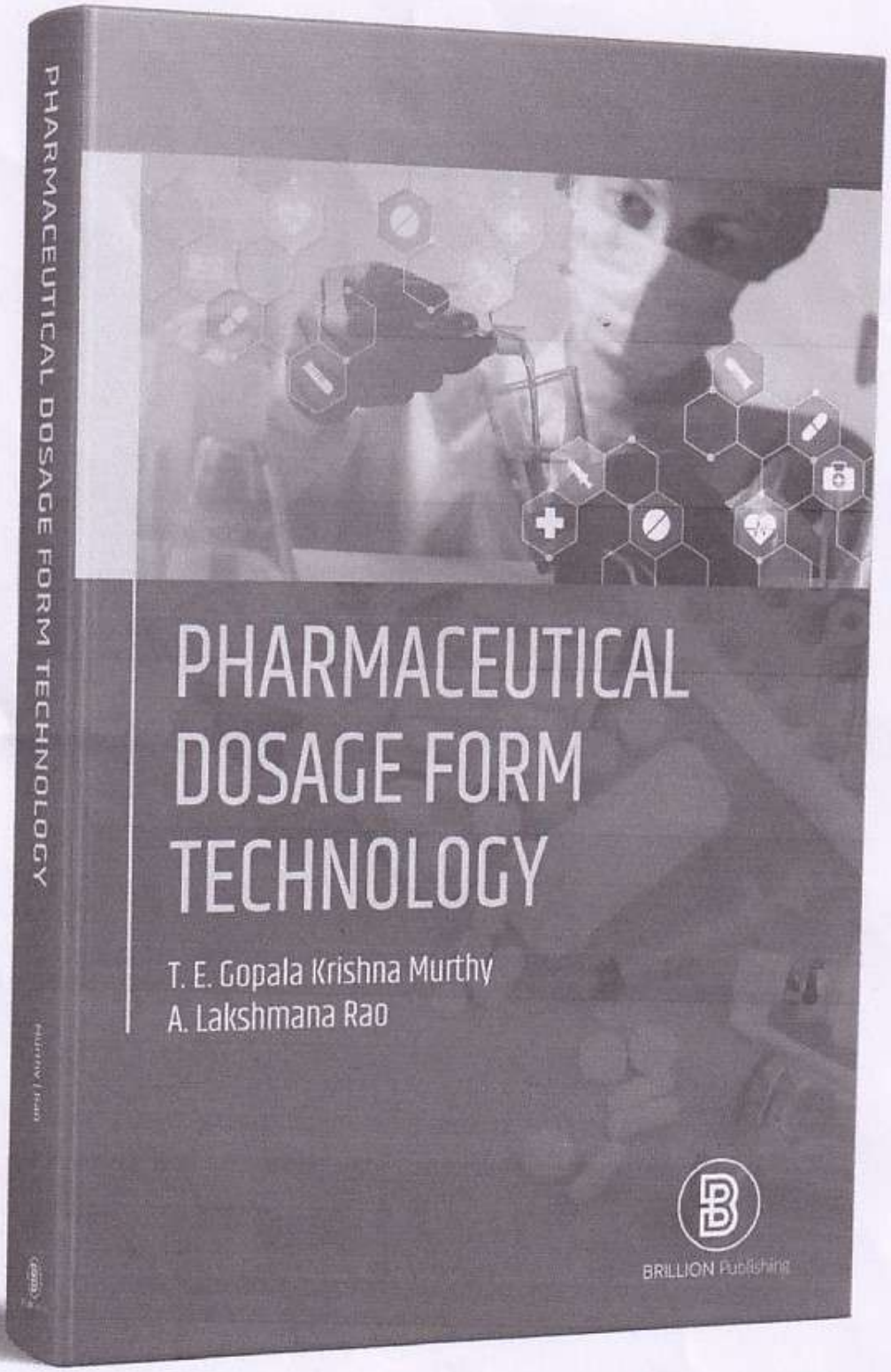

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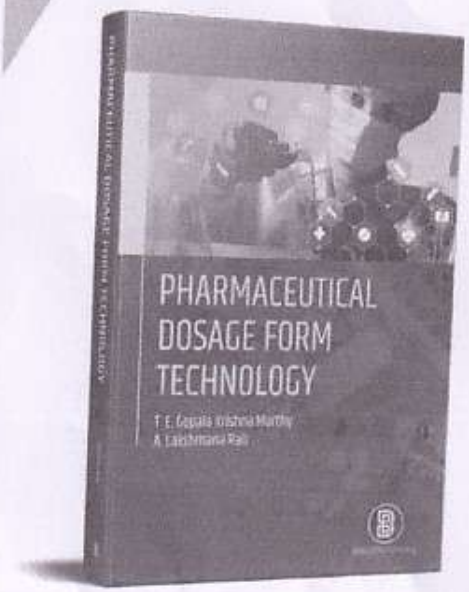

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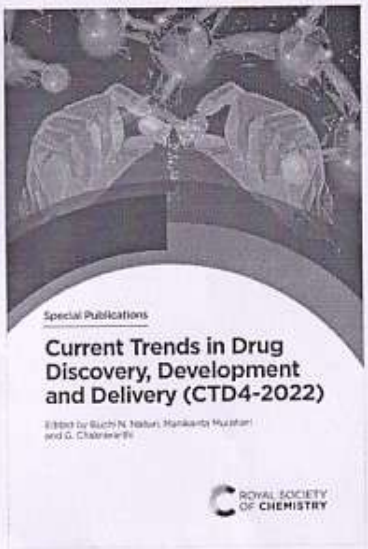

SPECIAL PUBLICATIONS

Current Trends in Drug Discovery, Development and Delivery (CTD4-2022)

Edited by Manikanta Murahari; Buchi N Nalluri; G Chakravarthi

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About this book

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DOI: https://doi.org/10.1039/9781837671090-00304

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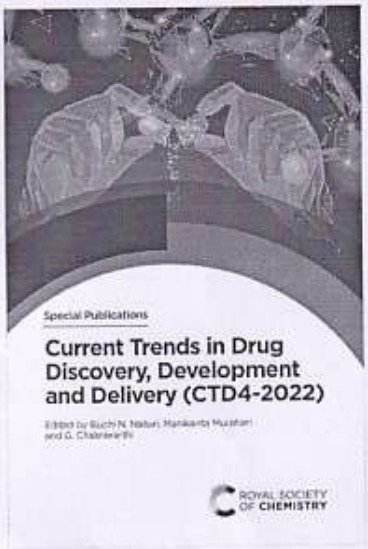

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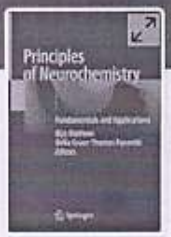

Principles of Neurochemistry pp 93–98

Pathophysiology of Neurodegenerative Diseases: Basics to Advanced

Sathish Kumar Manoharan & Poonguzhali Sathish Kumar

Chapter | First Online: 22 September 2020

Abstract

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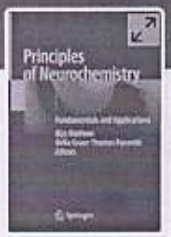

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