



# BAPATLA COLLEGE OF PHARMACY

(Sponsored by Bapatla Education Society), (Recognized by A.I.C.T.E & PCI)

(Affiliated to Jawaharlal Nehru Technological University, Kakinada)

Bapatla, Bapatla (Dist), Andhra Pradesh-522101

**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                |

| S.No | Title of Book Published /papers                                                                                                                                    | Name of the Author | Name of Book Chapter                                                                        | Name of Publisher                            | ISBN NO           | Year of Publication |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------|----------------------------------------------|-------------------|---------------------|
| 1    | Pharmaceutical Dosage form Technology                                                                                                                              | Ch.Venu Babu       | Semi solid Dosage forms                                                                     | Brillion Publishing                          | 978-81-19238-28-6 | 2023                |
| 2    | Pharmaceutical Dosage form Technology                                                                                                                              | B.Sudheer Chowdary | Liquid Dosage Forms                                                                         | Brillion Publishing                          | 978-81-19238-28-6 | 2023                |
| 3    | Design and Development of Itrazonazole loaded nanosponges for topical drug delivery                                                                                | V. Sai kishore     | Vol. 16(Supplement Issue 2)                                                                 | Current trends in Biotechnology and Pharmacy | 2230-7303         | 2022                |
| 4    | Development and Validation of Stability Indicating Related Substances Method for Montelukast Sodium and Levocetirizine Dihydrochloride Combined Tablets by RP-HPLC | K. Ranjith         | SPECIAL PUBLICATIONS Current Trends in Drug Discovery, Development and Delivery (CTD4-2022) | Royal Society of Chemistry                   | 978-1-83767-109-0 | 2023                |

Dr. K. Rajyalakshmi



T. Gopalakrishna  
PRINCIPAL  
Bapatla College of Pharmacy  
Bapatla 522 101



# BAPATLA COLLEGE OF PHARMACY

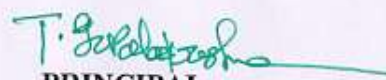
(Sponsored by Bapatla Education Society), (Recognized by A.I.C.T.E & PCI)

(Affiliated to Jawaharlal Nehru Technological University, Kakinada)

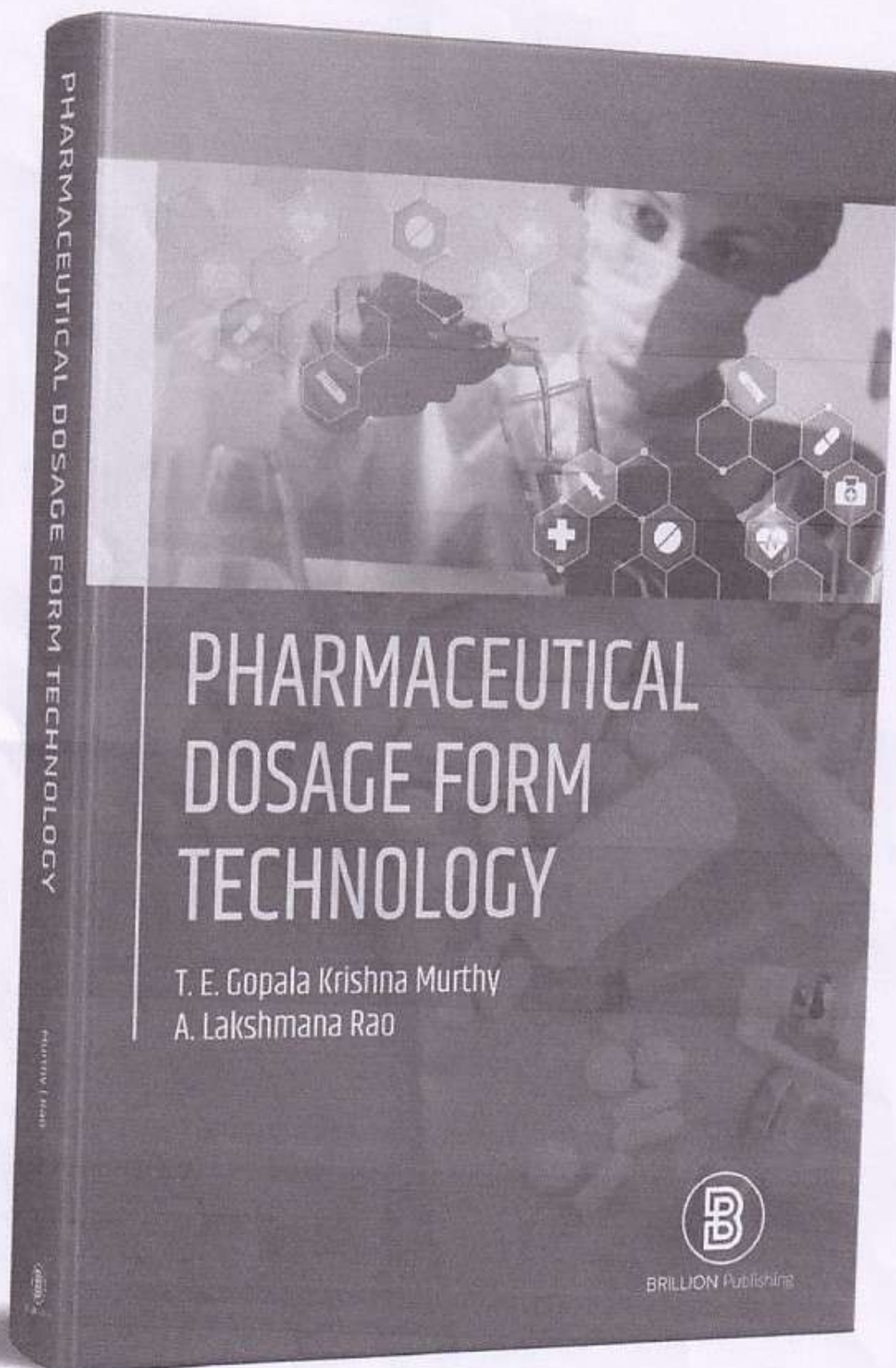
Bapatla, Bapatla (Dist), Andhra Pradesh-522101

**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**

|   |                                                                                                                                                                    |                                  |                                                                                             |                            |                   |      |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------|----------------------------|-------------------|------|
| 5 | Development and Validation of Stability Indicating Related Substances Method for Montelukast Sodium and Levocetirizine Dihydrochloride Combined Tablets by RP-HPLC | Dr. T.E.Gopala Krishna Murthy    | SPECIAL PUBLICATIONS Current Trends in Drug Discovery, Development and Delivery (CTD4-2022) | Royal Society of Chemistry | 978-1-83767-109-0 | 2023 |
| 6 | Principles of Neurochemistry                                                                                                                                       | Manoharan, Sathish Kumar         | Pathophysiology of Neurodegenerative Diseases: Basics to Advanced                           | Springer                   | -----             | 2020 |
| 7 | Principles of Neurochemistry                                                                                                                                       | <u>Poonguzhali Sathish Kumar</u> | Pathophysiology of Neurodegenerative Diseases: Basics to Advanced                           | Springer                   | -----             | 2020 |

  
PRINCIPAL

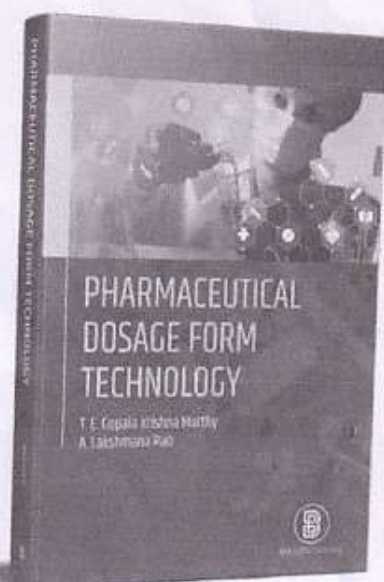
PRINCIPAL  
Bapatla College of Pharmacy  
BAPATLA - 522 101



*T. Gubal Krishna*  
PRINCIPAL  
Bapatla College of Pharmacy  
Bapatla 522 101



BRILLION Publishing



ISBN: 978-81-19238-28-6  
e-ISBN: 978-81-19238-26-2  
Pages: 289  
2023  
Printed Copy  
Paperback ₹ 695/-

## PHARMACEUTICAL DOSAGE FORM TECHNOLOGY

### About the Book

Drug substances are rarely administered alone; however they are given as formulation in combination with one or more excipients to attribute specialized pharmaceutical functions. Selective use of these additives produces various types of dosage forms. The proper design and formulation of a dosage form requires consideration of the physical, chemical, and biologic characteristics of the drug substances and the excipients used to formulate a pharmaceutical dosage form. Various dosage forms were discussed in depth, and also were in accordance with the nationwide syllabus for the students, hence a textbook has been written keeping in mind the urgent need.

### Features:

- Efforts have been made to describe different dosage forms in a systematic and comprehensive manner. The subject matter is illustrated with figures and tables, wherever, felt necessary.
- Each chapter has been divided into introduction, formulation, evaluation aspects including regulatory aspects and covers all aspects required to design and development of pharmaceutical dosage forms such as solid dosage forms, liquid dosage forms, semisolid dosage forms, sterile dosage forms, inhalation drug delivery systems and multi particulate dosage forms.
- The book has been written keeping in view the requirements of the graduate, post graduate students, teachers and research scientists as per the latest updations.

T. E. Gopala Krishna Murthy • A. Lakshmana Rao

### (Contents)

- Solid Dosage Forms
- Liquid Dosage Forms
- Semisolid Dosage forms
- Sterile Dosage Forms
- Inhalation Drug Delivery Systems
- Multi-Particulate Dosage Forms (Pellets)

For e-version of the book or sample chapter for personal perusal contact:  
[info@brillionpublishing.com](mailto:info@brillionpublishing.com)  
[www.brillionpublishing.com](http://www.brillionpublishing.com)

ISBN: 978-81-19238-28-6



*T. Gopalakrishna*

PRINCIPAL

Bapatla College of Pharmacy  
Bapatla 522 101



Gopala Krishna Murthy Talasila  
Ramya Alahari  
Dhana Lakshmi Neelapala

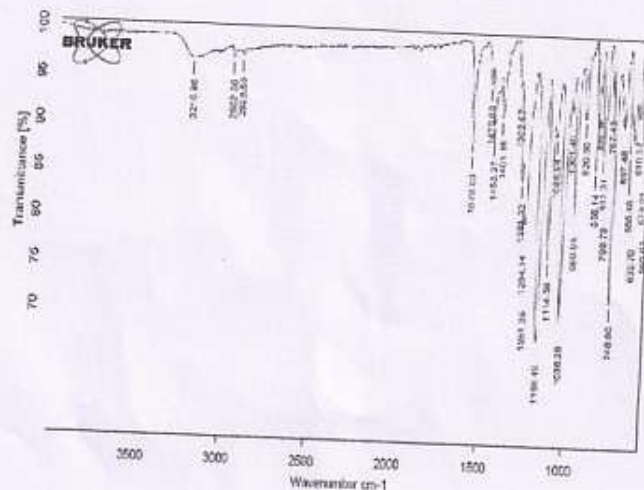
# Molecular Docking Studies to Improve Bioavailability of P-gp Substrate

p-gp substrate pharmaceutical excipients

 **LAMBERT**  
Academic Publishing

*T. Gopalakrishna*

PRINCIPAL  
Bapatla College of Pharmacy  
Bapatla 522 101



# Design and development of itraconazole loaded nanosponges for topical drug delivery

Swalin Parija, V. Sai Kishore

179 - 186

PDF

**PRINCIPAL**  
Bapatla College of Pharmacy  
BAPATLA - 522 101

*T. Gopalakrishna*

MAKE A SUBMISSION

ISSN 0973-8916

# Current Trends in Biotechnology and Pharmacy



[www.abap.co.in](http://www.abap.co.in)

SABINP-2023

NAAS Rating (National Academy of Agricultural Sciences, New Delhi) - 4.42

*T. G. K. K. K.*  
PRINCIPAL  
Bapatla College of Pharmacy  
Bapatla 522 101

[Chapter Navigation](#)

BOOK CHAPTER

# Development and Validation of Stability Indicating Related Substances Method for Montelukast Sodium and Levocetirizine Dihydrochloride Combined Tablets by RP-HPLC



By K Ranjith ; D. Rama Sekhara Reddy ; TEGK Murthy

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

Published: 15 Dec 2023

Special Collection: 2023 ebook collection

Get permissions

Cite

Share

In this paper authors presented the development and validation of RP-HPLC method for determination of related substances present in Montelukast sodium and Levocetirizine dihydrochloride combined tablets. Chromatographic separation was achieved on Hypersil ODS (150 x 4.6 mm), 5  $\mu$  column with flow rate 1 mL/min, detection wavelength 238 nm, injection volume 10  $\mu$ L, column temperature 40°C and run time 75 mins. Gradient programming was used with mobile phase-A (MP-A)-50mM acetate buffer pH 5.5 and mobile phase-B(MP-B)-methanol: MP-A (90:10 %v/v). Developed method was validated as per ICH Q2(R1) guideline. As the method was able to analyse forced degradation samples successfully, it proved to be stability-indicating.

This content is only available via PDF.

You do not currently have access to this chapter, but see below options to check access via your institution or sign in to purchase.

**Log in****Institutional access**  
Skip to Main Content[Access via institution](#)**My account**[Log in](#)[Register](#)[My purchases](#)  
**PRINCIPAL**  
**Bapatia College of Pharmacy**  
**Bapatia 522 101**

# Principles of Neurochemistry

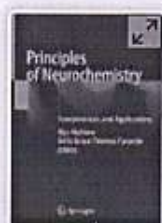
Fundamentals and Applications

Bijo Mathew  
Della Grace Thomas Parambi  
*Editors*

 Springer

*T. Gopalakrishna*

PRINCIPAL  
Bapatla College of Pharmacy  
BAPATLA - 522 101



**Principles of Neurochemistry** pp 93–98

[Home](#) > [Principles of Neurochemistry](#) > Chapter

## Pathophysiology of Neurodegenerative Diseases: Basics to Advanced

[Sathish Kumar Manoharan](#) & [Poonguzhali Sathish Kumar](#)

Chapter | [First Online: 22 September 2020](#)

497 Accesses

### Abstract

Neurodegenerative diseases are heterogeneous group of diseases characterized by the progressive damage to the structure and functions of the components of central nervous system (CNS) and/or the peripheral nervous system (PNS). Millions of people are affected worldwide by various types of neurodegenerative diseases, among which Alzheimer's disease (AD) and Parkinson's disease (PD) are the most common types. Other neurodegenerative diseases are Huntington's disease (HD), motor neuron disease (MND), spinocerebellar ataxia (SCA), spinal

PRINCIPAL  
Bapatla College of Pharmacy  
BAPATLA - 522 101

T. Gopalakrishna