

ISBN : 978-81-986662-4-6

Chemical & Biological

Study of

Curcumin



Dr. Girija Shankar Tripathi

Ph.D., P.D.F. (Appl.Chem.)



Dedicated to



**LATE NAGESHWER PARSAD TRIPATI
& SHREEMATI DEV KUMARI**

Humanitarian, Philanthropist, Teacher and a true Parents

“His life was gentle, and the elements
So mix’d in him that Nature might stand up
And say to all the world, ‘This was a man!’ “

William Shakespeare
Julius Caesar, Act V, Scene 5.

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Aditi Publication

Publisher :

Aditi Publication, Raipur, Chhattisgarh, India

Ph.: +91 9425210308

Chemical and Biological Study of Curcumin

Year: **2025**
Edition - **01**

Authors

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Jaunpur, Uttar Pradesh, India

ISBN : 978-81-986662-4-6

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Price : Rs. **850/-**

Publisher & Printer:

Aditi Publication,

Opp. New Panchajanya vidya Mandir, Near Tiranga Chowk,
Kushalpur, Raipur, Chhattisgarh, INDIA

+91 9425210308

Preface

To The First Edition

Medicinal chemistry is a new branch of science which aims to study medicinal plants growing on the earth. It develops Ayurveda for at answering, in chemical language, questions such as 'what is the life made of?' and 'How does it work?' In other words, it Operate at a molecular level and thus brings to light the hidden secrets of life.

Turmeric is a herbal plant (*curcuma longa*) used traditionally from many years in Asia for edible, medicinal and other purpose. Curcumin is a potent bioactive compound present in rhizome & *curcumin longa*. Most of biologist and chemical properties of turmeric due to curcumin derivation. I had divide this discipline in two broad categories name chemistry and biochemistry of curcumin.

The book contains the basic concept of medicinal plants turmeric written in a manner suited to the broad spectrum for chemist & Ayurveda practicenor. The matter has been lucidly presented, orderly arranged and profusely illustrated. References have been included at the end of book in order to guide the reader to the classical and current literature. These may, however, prove useful to the reader. Some illustrations have been adapted from standard tests, journals and research papers. The sources of all such figures have been duly acknowledged in their legends. The author feels greatly beholden to their authors and publishers.

I am also thankful to my publishers and to my wife Mrs. Sadhana Tripathi, younger brother Dr. Shiva Shankar tripathi for inspiring me in proceeding from thoughts to print.

Helpful suggestions for improvement are welcome.

Jaunpur

G.S. Tripathi

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Dr. Girija Shankar Tripathi

Dr Tripathi had completed Ph D and PDF from I M S Banaras Hindu University Varanasi. He taught biotechnology and Applied Chemistry for 13 years and provide administrative services as Principal in Post Graduate College Jaunpur. He has published 39 research article and participate 79 national and international seminar.



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ISBN : 978-81-986662-4-6



₹ 850