

*Futuristic Trends in*  
**Medical Sciences**

*Volume 3, Book 21, 2024, IIP Series*



*Futuristic Trends in*

# **MEDICAL SCIENCES**

*Volume 3, Book 21, 2024, IIP Series*



**Title of the Book: Futuristic Trends in Medical Sciences**

**Edition: Volume 3, Book 21, 2024, IIP Series**

**Copyright © 2024 Authors**

No part of this book may be reproduced or transmitted in any form by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owners and publisher.

### **Disclaimer**

The authors are solely responsible for the contents published in this book. The publisher or editors do not take any responsibility for the same in any manner. Errors, if any, are purely unintentional and readers are requested to communicate such errors to the editors or publishers to avoid discrepancies in future.

**E- ISBN: 978-93-6252-593-2**

### **Publisher, Printed at & Distribution by:**

Selfypage Developers Pvt. Ltd.,  
Pushpagiri Complex,  
Beside SBI Housing Board,  
K.M. Road Chikkamagaluru, Karnataka.  
Tel.: +91-8861518868  
E-mail: info@iipseries.org

**IMPRINT: I I P Iterative International Publishers**

# PREFACE

Book series on Medical Science gives the opportunity to students and doctors from all over the world to publish their research work in a set of Preclinical sciences, Internal medicine, Surgery and Public Health. This book series aim to inspire innovation and promote academic quality through outstanding publications of scientists and doctors. It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to publish the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Medical Science. It also provides a remarkable opportunity for the academic, research and doctors communities to address new challenges and share solutions and discuss future research directions in the below field but not limited to

1. Surgery
2. Obstetrics
3. Pathology
4. Biomedical Sciences
5. Epidemiology and Public Health
6. Otolaryngology
7. Anaesthesia
8. Medicine
9. Paediatrics
10. Odontology
11. Odontology
12. Orthopaedic Medicine
13. Dermatology
14. Radiology
15. History of Medicine
16. Psychiatry
17. Neurological Sciences
18. Rheumatology and Rehabilitation
19. Ophthalmology
20. General Practice
21. Genito Urinary Medicine
22. Bioengineering
23. Health Informatics
24. Dental Surgery
25. Ayurveda
26. Unani
27. Homoeopathy

# **EDITORIAL BOARD MEMBERS**

## **Dr. Dinesh Shankar. J**

Professor

Department of Oral Pathology and Microbiology

Vivekanandha Dental College for Women

Tiruchengode, Tamil Nadu.

## **Dr. Aparna Bachkaniwala**

Assistant Professor

SPB Physiotherapy College

Morabhal, Surat, Gujarat.

## **Dr. Sachin Hundekari**

Interventional Cardiologist

Elite Heart Clinic Shop no 209 Solitaire Business Hub Kaspte Wasti Road Wakad

Pune, Maharashtra.

## **Dr. Shaik Balkhis Banu**

Assistant Professor

Fatima College of Health Sciences

Villa 45, House 8, Al Ameriya, Al Ain, UAE.

## **Dr. Hiba Memon**

Professor

Royal College of Physiotherapy

Malegaon.

**Dr. Anwesha Biswas**

Senior Lecturer

Guru Nanak Institute of Dental Sciences

Kolkata.

**Dr. Ramesh N**

Professor AND Head

Department of Public Health Dentistry

The Oxford Dental College and Hospital, Bommanahalli

Hosur Road, Bangalore.

**Dr. Kamakshi Gupta**

Dental Surgeon

Ndc Dera Bassi Mohali

National Dental College

Bhagat Singh Nagar

Dera Bassi, Punjab.

**Dr. Navneet kaur**

Associate Professor

Department of Periodontology

National Dental College Derabassi

Mohali, Punjab.

**Dr. Atul Kumar Singh**

Professor

Department of Community Medicine

Rama Medical College Hospital and Research Center

Rama University, Kanpur.

**Dr. Lalit Gupta**

Professor

Department of Anaesthesia

Maulana Azad Medical College and Lok Nayak Hospital

Bahadur Shah Zafar Marg

New Delhi, Delhi.

**Dr. Rohini**

Assistant Professor

Vels Institute of Science

Technology and Advanced Studies

Velan Nagar Pallavaram.

# CONTENTS

	<b>Page No.</b>
<b>PART 1</b>	
<b>Chapter 1</b> THE TECHNIQUE USED FOR PRE-PROCESSOR FOR NOISE REMOVAL FROM THE INCOMING SOUND FOR THE COCHLEAR IMPLANT USER .....	<b>1-16</b>
<b>Chapter 2</b> DIGITAL ESCAPADES: JOURNEY OF MEDICINE IN VIRTUAL WORLD .....	<b>17-27</b>
<b>Chapter 3</b> AR-MED: ILLUMINATING HEALTHCARE’S PATH WITH AUGMENTED REALITY .....	<b>28-39</b>
<b>Chapter 4</b> ARTIFICIAL INTELLIGENCE: THE FUTURE OF DENTISTRY .....	<b>40-45</b>
<b>Chapter 5</b> ADVANCED DIAGNOSTIC AIDS IN ORAL CANCER.....	<b>46-57</b>
<b>Chapter 6</b> EXPLORING THE ROLE OF ARTIFICIAL INTELLIGENCE IN PROSTHODONTICS.....	<b>58-65</b>
<b>Chapter 7</b> STEM CELLS IN DENTISTRY.....	<b>66-72</b>
<b>Chapter 8</b> REVOLUTIONARY ADVANCES OF DIAGNOSTIC MICROBIOLOGY.....	<b>73-82</b>
<b>Chapter 9</b> AUTOIMMUNE DISEASE-REVISITED.....	<b>83-90</b>
<b>Chapter 10</b> AYURVEDIC DERMATOLOGY: A FRONTIER OF SKIN CARE.....	<b>91-102</b>
<b>Chapter 11</b> TINY MIRACLE WITH ENORMOUS POTENTIAL – NANOBOTS.....	<b>103-109</b>
<b>Chapter 12</b> TELEDENTISTRY.....	<b>110-114</b>

## **PART 2**

<b>Chapter 1</b> ARTIFICIAL INTELLIGENCE IN MEDICINE.....	<b>115-119</b>
<b>Chapter 2</b> AUGMENTED REALITY FOR SCHOOL ORAL HEALTH PROMOTION – A NARRATIVE REVIEW.....	<b>120-126</b>
<b>Chapter 3</b> VIRTOPSY: LIFTING THE VEIL.....	<b>127-133</b>
<b>Chapter 4</b> COMPUTERIZED TOMOGRAPHY AND RADIOLOGICAL DIAGNOSIS OF TWO CASES OF EAGLE SYNDROME.....	<b>134-139</b>
<b>Chapter 5</b> ARTIFICIAL INTELLIGENCE IN DENTISTRY.....	<b>140-149</b>
<b>Chapter 6</b> ROBOTIC SURGERY IN MODERN WORLD.....	<b>150-154</b>
<b>Chapter 7</b> PRE-PAID PLAN: DENTAL INSURANCE FOR PENURY.....	<b>155-162</b>
<b>Chapter 8</b> ADVANCES IN SPACE MAINTAINERS.....	<b>163-174</b>
<b>Chapter 9</b> CERVICAL CANCER CONTROL PROGRAM IMPLEMENTATION BY USING THE “SPICE” STRATEGY OF RAJ © .....	<b>175-182</b>

## **PART 3**

<b>Chapter 1</b> USING AI MACHINE LEARNING AND BIG DATA TO CALCULATE PERIOPERATIVE RISK – THE FUTURE IS HERE.....	<b>183-189</b>
---	----------------







*IIP Series is online, open access, peer-reviewed, interdisciplinary Journal. IIP Series provides a comprehensive solution for conferences and edited books that covers research topics across various scientific, technical, and medical disciplines. It aims at disseminating high-level research results and developments to researchers and research groups. It mainly focuses on presenting practical solutions for the current problems in Applied Sciences and Applied Social Sciences. It features original research work, reviews, case reports, tutorial papers, and accounts of practical developments.*

## *Futuristic Trends in Medical Sciences*

*Volume 3 Book 21, 2024, IIP Series*

ISBN : 978-93-6252-593-2

