



ABSTRACTS OF
AICTE SPONSORED
INTERNATIONAL CONFERENCE
ON POST-COVID SYMPTOMS AND
COMPLICATIONS IN HEALTH

28-29 APRIL 2022

ORGANIZED BY

LR INSTITUTE OF PHARMACY, SOLAN (H.P.)-173223

IN COLLABORATION WITH

AICTE, NEW DELHI



EDITORS

Shweta Agarwal

Priya Thakur

Vivek Kumar

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Shweta Agarwal
Priya Thakur
Vivek Kumar
(Editors)

*Abstracts of AICTE Sponsored International Conference on
Post-COVID Symptoms and Complications in Health
(28-29 April 2022)*

Organized by

LR Institute of Pharmacy, Solan (H.P.)-173223

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AICTE, New Delhi

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Abstracts of AICTE Sponsored International Conference on Post-COVID Symptoms and Complications in Health (28-29 April 2022)

Editors

- **Dr. Shweta Agarwal** (Co-ordinator PCSCH-2022, Principal, LR Institute of Pharmacy, Solan)
- **Mrs. Priya Thakur** (Assoc. Professor, LR Institute of Pharmacy, Solan)
- **Mr. Vivek Kumar** (Asst. Professor, LR Institute of Pharmacy, Solan)

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*Abstracts of AICTE Sponsored International Conference
on Post-COVID Symptoms and Complications in Health*

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About the Conference

The 1st International Conference being organized by L.R. Institute of Pharmacy on “POST COVID, SYMPTOMS AND COMPLICATIONS IN HEALTH” aims to focus on the implications of long-term symptoms on public health, ways to mitigate these complications, improve understanding of the disease process in COVID-19 patients, use of computational methods and artificial intelligence in predicting complications and role of various drug delivery systems in combating the complications. The Conference will provide an international forum & platform for researcher, clinicians, computational biologists, drug-delivery experts to share their research, practical experiences & expertise from different perspective on this theme. The multi –faceted understanding of all aspects of COVID-19 pandemic including long term symptoms will allow all to respond to the global health challenges thus paving the way to a stronger public health.

Areas identified for conference but not limited to:

- Computational methods for Drug Repurposing for COVID-19 complications
- Artificial intelligence for predicting and combating COVID.
- Role of NDDS in mitigating complications due to COVID
- Role of biomarkers in identification of COVID complications
- Use of complementary and alternative medicines for rescue from COVID
- Post COVID complications in mental health and their management
- Pediatric COVID complications
- Post COVID immunological imbalances and their management
- Translation research for COVID complications

About the Conference Organizers

L.R Institute of Pharmacy was established in the year 2006 to impart high quality education in the field of pharmacy. The College is running D. Pharm, B. Pharm & M. Pharm in Pharmaceutics, approved by AICTE and affiliated to H.P.T.U Hamirpur. D. Pharm, B. Pharm and M. Pharm courses are approved by Pharmacy Council of India. The College provides a stimulating and productive environment for Pharmaceutical education and research. It provides a healthy academic atmosphere for the students to achieve their goals with developed personality & fosters an academic environment in which the performance, goals and growth of each individual is ensured.

L.R Institute of Pharmacy aims to create research ambience in the institute by promoting research and innovations in Pharmacy in established and newer technology areas; and to generate best pharmacist, scientist, and academician to augment the supply of faculty and research personnel in the country. Research and development activities are considered as an essential component of higher education because of their role in creating new knowledge and insights and imparting excitement and dynamism to the educational process, as well as need based in view of the national requirements.

L.R Institute of Pharmacy believes in quality education and for that it has been serving the nation since 2006. The institute has produced technically sound graduates who are providing service in various governments and private organization in the country.

About AICTE

The AICTE was constituted in 1945 as an advisory body in all matters relating to technical education. Even though it had no statutory powers, it played a very important role in the development of technical education in the country. It had four regional committees with offices at Chennai, Mumbai, Kanpur, and Calcutta. All the new schemes and proposals for starting new institutions/Programmes were approved by the corresponding Regional Committee and subsequently vetted by the Council.

AICTE became a statutory body through an Act of Parliament 52, in 1987. The Council, i.e., AICTE was established with a view to the proper planning and co-ordinated development of the technical education system throughout the country, the promotion of qualitative improvement of such education in relation to planned quantitative growth and the regulation and proper maintenance of norms and standards in the technical education system for matters connected therewith.

The conference was organized under the GOC scheme of AICTE, New Delhi.

About the Editors



Dr. Shweta Agarwal is the Principal of LR Institute of Pharmacy, Solan. She has more than 17 years of research and teaching experience. She completed M. Pharm (Pharmaceutics) from M.S University of Baroda and Ph. D from I.K.G Punjab Technical University, Kapurthala. Her research interests include colloidal drug delivery, topical drug delivery, pharmacokinetic studies, formulation development by QbD etc. She has guided 20 M. Pharm students in their dissertation work. She has published 40 research and review articles in peer reviewed national and international journals and has 1 published patent and 3 book chapters. She has played key role in organization of 2 national conferences as organizing secretary and 1 international conference as coordinator. She has rendered services as a reviewer for several highly indexed journals.



Mrs. Priya Thakur is an Associate professor at L.R Institute of Pharmacy. She has 8 years of research and teaching experience and has completed M. Pharm in Pharmaceutics. She has a strong academic background, and her research interests include herbal formulation development, green synthesis of nanoparticles, topical drug delivery. She is a versatile, focused and a devoted teacher. She has played an important role in organization of all major events of the institute.



Mr. Vivek Kumar is an Asst. Professor at LR Institute of Pharmacy, Solan. He has more than 6 years of experience including that of industry and academia. He specializes in Pharmaceutical Chemistry and synthesis of medicinal compounds. He has been coordinator of the NSS wing of the institute and along with academics takes keen interest in social welfare activities. He has several papers in peer reviewed journals has 1 patent published. His research interests include synthesis of chalcone derivatives and their anti-cancer activity, in-silico studies, Hedgehog pathway etc.

Message from Coordinator



It is my pleasure to welcome all the dignitaries, invited speakers, distinguished guests and delegates, on behalf of the organizing committee, staff, students, and management of LR Institute of Pharmacy, to the AICTE sponsored 1st International E-Conference on “Post COVID symptoms and complications in Health” being held on 28-29 April 2022.

I am grateful to All India Council for Technical Educations, Delhi (AICTE) for the financial support for the conference through their GOC Scheme.

A word of thanks to the eminent speakers for accepting our invitation to be a part of the conference and for agreeing to hold deliberations on the theme of the conference. I express gratitude to all the participants, and delegates from all over India for their overwhelming response and scientific contribution in form of oral and poster presentations.

I am grateful to the management of LR Group of Institutes for their constant support and encouragement during the organizational work. I am thankful to the organizing committee for putting in their best efforts in the organization of this conference.

The conference would provide a common platform to the scientist, academicians, students and industry personnel for interactions and deliberations on the topic, Covid and its complications, which has touched almost everybody’s life in the past 2 years.

I am confident that the information being shared during the conference would add to our knowledge on COVID for developing innovative ideas to tide over this health crisis.

I extend my best wishes to all the participants for a motivating and fruitful experience and hope for many more partnerships in future. Hope the knowledge and experiences shared would go a long way in building a prosperous, strong, and healthy nation.

I am glad to announce that the abstracts of all scientific presentations would be published as an abstract book with ISBN and DOI.

Wishing the conference, a Great Success.

Best Regards

Dr. Shweta Agarwal

Coordinator PCSCHE-2022

Principal, LR Institute of Pharmacy, Solan

Message from Director's Desk



I am very happy to note that L R Institute of pharmacy associated with LR Group of Institute is organizing an International Conference on “Post COVID symptoms and complications in health” on 28 & 29 April 2022. During the current situation an online platform is an excellent idea to exchange the views by the scientist and researchers. It is heartening to know that the organizing committee has been able to ensure participation of some very eminent national and international speakers for discussions and deliberations during the conference.

It is my great pleasure to welcome all the respected dignitaries, sponsors and all the delegates to this online international conference. I am sure that this conference will provide a good platform for exchanging the ideas, learning, and making good academic and professional connections. I take this opportunity to congratulate the organizers and wish the conference a great success.

Best Wishes,

Capt. Neesha Dhankar

Director, L.R. Group of Institutes, Solan.

Keynote Speaker



Dr. Pramil Tiwari

Head of Pharmacy Practice, NIPER, Mohali India

An alumnus of the Banaras Hindu University

30 years of experience in academia, he has created effective networks with the practitioners at multiple hospitals for the professional training of students. His research group had more than 225 accepted abstracts presentations in various national & international scientific meetings, multiple pharmacy-centric publications and many book chapters. He is a member of the core committee for the revision of the national formulary since 2009. Prof. Tiwari is also honorary Joint Secretary of the India chapter of ISPOR at NIPER, Mohali. He is the Faculty Advisor of the student chapter of ISPOR.

Invited Speakers



Dr. Kamal Dua

Senior Lecturer, University of Technology, Sydney
Graduate School of Health, Sydney, New South Wales, Australia
Senior Research Fellow (ARCCIM), Faculty of Health,
University of Technology, Sydney, Australia

Title: Biological Targets for Therapeutic Interventions in Chronic Obstructive Airway Disease.

Dr. Kamal Dua is an award-winning pharmaceuticals and drug delivery researcher who has deep roots in teaching, research and industry spanning three nations and two continents. He holds dual expertise in Pharmaceutical Sciences and Immunology & Microbiology and has also completed four professional diplomas in the areas of clinical research, product development, drug regulation, and documentation and intellectual property rights.

Dr. Dua is also an Adjunct Assistant Professor, Faculty of Pharmacy & Pharmaceutical Sciences, University of Alberta, Canada; Core member, Australian Research Centre in Complementary and Integrative Medicine (ARCCIM), UTS; Adjunct Fellow, NICM Health Research Institute, Western Sydney University, Australia; Adjunct Faculty, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, India, and Research Associate at the Australia-China Relations Institute (UTS: ACRI). He also held a Conjoint Lecturer position with the School of Biomedical Sciences and Pharmacy, The University of Newcastle, Australia.

Dr. Dua's academic research has contributed significantly to the field of managing chronic inflammatory diseases, especially airway diseases, using novel nano-carriers to deliver potential therapeutic molecules including phytoconstituents. His research involves identifying potential key targets regulating the pathophysiology of the disease and formulating them into effective drug delivery systems that could be translated to clinical settings.

Dr. Kamal's work has been recognized by various awards and fellowships including the Faculty of Health Deans Academic Excellence Award for Faculty Engagement (2019), Excellence Award in Pharmacy (2018), Young Scientist Award (2011), International Association for Dental Research Southeast Asian Division (IADR SEA); DENTSPLY Student Clinician Program Award (2014); the Educational Workshop Fellowship/Travel award by the World Society for Pediatric Infectious Diseases - WSPID (2011 and 2013); and the Sri. K. Sri Harsha Memorial Gold Medal and Rank Certificate (2004).



Dr. Shazia Qasim Jamshed

Assoc. Prof. Department of Clinical Pharmacy & Practice,
Faculty of Pharmacy University, Sultan Zainal Abidin, Malaysia

Dr. Shazia Qasim Jamshed is working as an Associate Professor, Clinical Pharmacy and Practice, Faculty of Pharmacy, University Sultan Zainal Abidin, Terengganu, Malaysia. She is also holding the post of Network Coordinator, External Linkages. She earned PhD in Pharmacy Practice (2011) from University Science Malaysia. Previously, she served as faculty in different medical and pharmacy institutes of Pakistan, India, and Malaysia.

Over the past two years she worked on issues associated with care perspectives in oral health, Alzheimer's disease, alternative therapies, self-medication practices, antibiotic resistance, cosmetovigilance and Pharmacovigilance. She published more than 100 national and international research articles in peer-reviewed journals, periodicals, and newspapers. She is presently serving as Section Editor Journal of Pharmacy and Bio allied Sciences, Editorial Board Member BMC Public Health and BMC Health Services Research, Nature Scientific Reports. She is on the international advisory board of BMC Journal of Pharmaceutical Policy and Practice and Perspectives in Public Health, Royal Society of Public Health, UK. She attended more than 20 national and international conferences and shared her research work through more than 30 oral and poster presentations.

She has written book chapters and Encyclopaedia chapter titled "Introduction to Social Pharmacy" (Elsevier-USA), "The Pharmaceutical Industry, Intellectual Property Rights and Access to Medicines in Pakistan" (McMillan and Palgrave), Pharmacy Practice in Pakistan: Opportunities and Challenges in Pharmacy Practice in Developing Countries (Elsevier-USA) and Management of Neurological Disorders and Pharmacist's Role: Multiple Sclerosis, Encyclopaedia of Pharmacy practice and Clinical Pharmacy, Elsevier USA.

She participated as a facilitator and invited speaker in more than 15 workshops and seminars. Currently she is serving as member/life member of different pharmaceutical and healthcare professional bodies around the globe, most notable being Fellow of the Royal Society of Public Health and Committee member Public Policy ISPE.



Dr. Vinod Tiwari

Asst. Prof. Dept. of Pharmaceutical Engineering & Technology
IIT / BHU, Varanasi, India

Visiting Professor: Johns Hopkins University School of Medicine, Baltimore, Maryland, USA.

Postdoctoral Fellow: Johns Hopkins University School of Medicine, Baltimore, Maryland, USA.

Ph.D.: University Institute of Pharmaceutical Sciences (UIPS), Panjab University, Chandigarh, India.

Research Associate: Nicholas Piramal Research Center, Goregaon (E), Mumbai, India.

M. Pharm : N.D.M.V.P. Samaj's College of Pharmacy, University of Pune, Maharashtra, India.

B. Pharm : Birla College Campus, H. N. B. Garhwal University, Srinagar, Uttarakhand, India.

PATENTS:

Title of Patent: Targeting Peripheral Neurons Using Opioid-Encapsulated Pegylated Albumin Nanoparticles for Safe and Effective Antinociceptive Activity

Indian Patent No.: 201821043610 (Publication Date: 20/05/2020).

Inventor Name: Tekade RK, Tiwari V, Bidve PA, Sharma D, Prajapati N, Raval N, Kalia

Funding: ECR/2016/001846 awarded by SERB to Dr. Vinod Tiwari in 2017 & NIPER Ahmedabad.

Title of Patent: Analgesic activity of Dermorphin [D-Arg², Lys⁴] (1-4) amide (DALDA) Nano formulation in Chronic Constriction Injury Induced Neuropathic Pain, Indian patent (Submitted). (Date: 08/02/2021).

Inventor Name: Tiwari V, Somesh Agrawal, Uniyal A, Kotiyal A.

Funding: ECR/2016/001846 awarded by SERB to Dr. Vinod Tiwari in 2017 & IIT (BHU), Varanasi.

PUBLICATIONS:

Research Articles: - 51

Review Articles: - 16



Mr. Joachim Gerlach

Chairman, Vedicinals India Pvt. Ltd.

Co-Founder VEDICINALS INDIA PRIVATE LIMITED

Co-Founder VITALIS FOUNDATION SPAIN

Co-Founder GREEN INDUSTRY GROUP

Shareholder & Managing Director ORGATEX GmbH & Co.KG

Title: Long COVID: Comprehensive Nutraceutical Interventions.

Joachim Gerlach, a German entrepreneur, best described as an innovator with many patents and inventions to his name. In the past years the 63 year old R&D expert initiated various sustainability projects, focusing on restoring health in ecosystems, animals, and humans.

He is Chairman of Green Industry GmbH, as well as Vedicinals India Pvt. Ltd, overseeing and financing reforestation projects, organic farming, and the development of phyto-based therapeutics for the treatment of environmentally caused illnesses.

In 2014, Joachim Gerlach set up the Vitalis foundation in Spain to address the substantial rise in chronic illnesses caused by pollution (Air, water, soil) and nutrient deficiency, aligned with the Sustainable Development Goal 3.

By advising and facilitating projects on organic food production, and agriculture sustainability, as well as extensive research on plant-based medicines, Vitalis Foundation was able to build a large, global network of scientists. Simultaneously the Green Industry Group GmbH was established to deal with excessive energy consumption as well as reforestation projects.



Dr. Dilip Sharma

Post-doctoral Research fellow, Department of Anaesthesiology
New Jersey Medical School, Rutgers University, New York, U.S.A

Title: The Effect of COVID-19 on Diabetic Patients.

Ph. D- National Institute of Pharmaceutical Education and Research (NIPER-A), Ahmedabad, Gandhinagar, Gujarat, India

M.S. Pharm- National Institute of Pharmaceutical Education and Research (NIPER), SAS Nagar Mohali (Punjab), India

B. Pharm- Dr. Hari Singh Gour Central University, Sagar (M.P.)

ACADEMIC ACHEIVEMENTS

Selected to participate in 68th Nobel Laureate Meeting held at Lindau, Germany 2018. Got sponsorship by Department of Science and Technology (DST), Ministry of Science and Technology, Government of India to participate in the same.

Qualified “TIFR” PhD all India entrance examination in 2015.

Qualified “INST” PhD all India entrance examination in 2015.

Qualified “NIPER” PhD all India entrance examination with 9th Rank in 2015.

Achieved AIR rank 83 in Graduate Pharmacy Aptitude Test (GPAT) organized by All India Council for Technical Education (AICTE) in 2013. Achieved AIR rank 69 NIPER JEE 2013 organized by NIPER in 2013. Performed project on Drug interaction with smoking” in 2013 during B. Pharm.

PATENT:

Tekade R, Tiwari V, Bidve P, Sharma D, Prajapati N, Raval N., Kalia K.

Targeting Peripheral Neurons using Tramadol Hydrochloride Opioiden Capsulated Pegylated Albumin Nanoparticles for Safe and Effective Antinociceptive Activity. Indian Patent No.: 201921010920 (20 March 2019)

PUBLICATIONS:

Research Articles:- 8

Review Articles:- 8



Dr. Gaurav Kaithwas

Associate Dean-Academics

Head-Department of Pharmaceutical Sciences

Dean-School of Pharmaceutical Sciences

Title: Frequent Brushing of Teeth Inhibits The Dissemination of SARS-COV2.

Prof. Kaithwas has pursued his Master's in Pharmacology from Department of Pharmacology, Faculty of Pharmacy, Jamia Hamdard, New Delhi and Ph. D from Department of Pharmaceutical Sciences, Sam Higginbottom University of Agriculture, technology & Sciences, Allahabad (Formerly Allahabad Agricultural Institute-Deemed to be University), India. He carries more than 15 years of academics and scientific experience. He along with his research team is actively involved in execution of several government funded research projects for establishment of novel strategy against hypoxia mediated solid tumors.

He has been awarded Young Scientist Award, European Institute of Scientific Research on Ayurveda, Netherland in 2015, and Research Excellence Award from BBAU for his contribution in research in 2014 and 2020. He has been awarded sanctioned project research grant from several funding agencies including the SERB, MOFPI and the ICMR to carry out their research. He has been awarded appreciation award for the work "Modulating Prolyl hydroxylase (PHD2) An activity to alter glycolytic pathway and fatty acids synthase expression in tumor cells" Cancer Research Foundation, India 2020. He has 02 "Patents", 02 books, 04 chapters in his credit, in addition to more than 89 research publications in reputed International Journals with 1417+ creations 21H-Index

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on Post-COVID Symptoms and Complications in Health*

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Program Schedule

DAY – 1 (28th April 2022)

Time	Event / Session	Session Chair
10:00 AM	Inauguration of Conference Welcome of delegates Prayer Song Welcome Address by Co-ordinator Inaugural Address by Chief Guest Vote of thanks by Director, LR Group	
10:45 – 10:55 AM	BREAK	
10:55 – 12:00 PM	Keynote Address by Dr. Pramil Tiwari , Head of Pharmacy Practice, NIPER, Mohali, India.	
	TECHNICAL SESSION - I	
12:05 – 12:50 PM	Invited Talk by Dr. Dilip Sharma , Post-Doctoral Research fellow, New Jersey Medical school, Rutgers University, New York, USA. Title: "The effect of Covid -19 on diabetes patients". Moderator: Mrs. Priya Thakur	Dr. Alok Mukherjee, Principal, United Institute of Pharmacy, Prayagraj.
12:50 – 01:45 PM	LUNCH BREAK	
	TECHNICAL SESSION - II	
01:45 – 02:30 PM	Invited Talk by Dr. Vinod Tiwari , Asstt. Prof. Dept. of Pharmaceutical Engg & Tech, IIT-BHU, Varanasi, India. Moderator: Ms. Vishav Kiran	Dr. Ajay Khushwaha, HOD & Assoc. Prof. Deptt. Of Pharmacology, Amar Shaheed Baba Ajit Singh Jujhar Singh Memorial College of Pharmacy, Bela, Ropar.
02:30 – 05.00 PM	Oral Presentations Moderator: Ms. Vishav Kiran	
05:00 – 05:05 PM	Closing of Day-1 of Conference & Vote of thanks	

DAY – 2 (29th April 2022)

Time	Event / Session	Session Chair
10:00 AM	Welcome of delegates to day -2	
	TECHNICAL SESSION - III	
10:15 – 11:00 AM	Invited talk by Dr. Shazia Qasim Jamshed , Assoc. Prof. Deptt of Clinical Pharmacy & Practice, Faculty of Pharmacy Universiti Sultan Zainal Abidin, Malaysia. Title: Pharmacists in addressing Post-Covid Symptoms & Complications Moderator: Mr. Vivek	Dr. Nitin Verma, Prof. & Principal, School of Pharmacy, Chitkara University, HP.
11:00 – 11:50 AM	Invited joint talk by Mr. Joachim (Chairman, Vedicinals India Pvt. Ltd, Germany) & Dr. Kamal Dua (Sr. Lecturer & Research fellow, University of Technology Sydney Australia). Title: Long Covid: Comprehensive Nutraceutical Intervention. (Mr. Joachim) Biological Targets for Therapeutic Intervention in Chronic Obstructive Airway Disease. (Dr. Dua) Moderator: Mr. Vivek	
11:55 – 12:45 PM	LUNCH	
	TECHNICAL SESSION - IV	
12:50 – 01:35 PM	Invited talk by Dr. Gaurav Kaithwas , Prof. Deptt. Of Pharmaceutical Sciences, Babasaheb Bhim Rao Ambedkar University, Lucknow. Title: Frequent Brushing of teeth Inhibits the dissemination of SARS-COV2. Moderator: Mr. Anil Kumar	Dr. Pallavi Rai, Principal, Institute of Pharmacy, Ram-Eesh Institute Of Vocational & Technical Education, Greater Noida
01:40 – 03:45 PM	Poster Presentations Moderator: Ms. Priyanka Sen Ms. Taruna	Dr. Vinay Pandit, Prof. & HOD, Laureate Institute of Pharmacy Jwalaji, HP
03:45 – 04:00 PM	Valedictory function & Feedback	

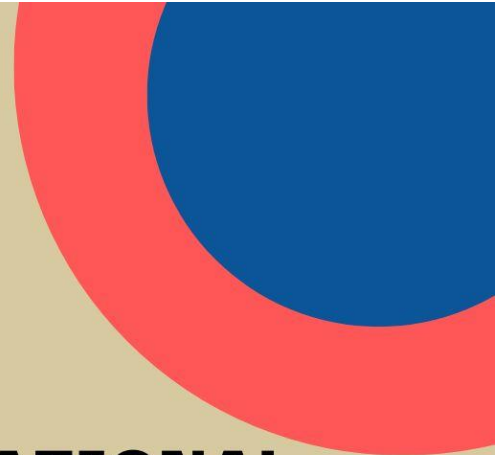
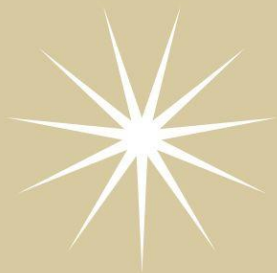
Acknowledgement

We would like to express our deep gratitude to all the dignitaries, distinguished guests, delegates and all the participants for being a part of this international conference. A word of thanks to the keynote speaker Dr. Pramil Tiwari and guest speakers Dr. Dilip Sharma, Dr. Vinod Tiwari, Dr. Shazia Qasim Jamshed, Dr. Kamal Dua, Mr. Joachim Gerlach and Dr. Gaurav Kaithwas who's presence with joint efforts of management & organizing committee will make this event a success.

We are grateful to the All India Council for Technical Education (AICTE) for their financial support for the conference. We are also thankful to all the session chairs, Dr. Alok Mukerjee, Dr. Ajay Kuswah, Dr. Nitin Verma, Dr. Pallavi Rai, and Dr. Vinay Pandit for kindly consenting to chair the scientific sessions.

Our acknowledgement to all the participants for their scientific contributions, motivating and knowledgeable interactions which will surely help build a prosperous and healthy World.

*Abstracts of AICTE Sponsored International Conference
on Post-COVID Symptoms and Complications in Health*



ABSTRACTS OF
AICTE SPONSORED INTERNATIONAL
CONFERENCE ON POST-COVID SYMPTOMS
AND COMPLICATIONS IN HEALTH

EDITED BY



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PRIYA THAKUR



VIVEK KUMAR

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