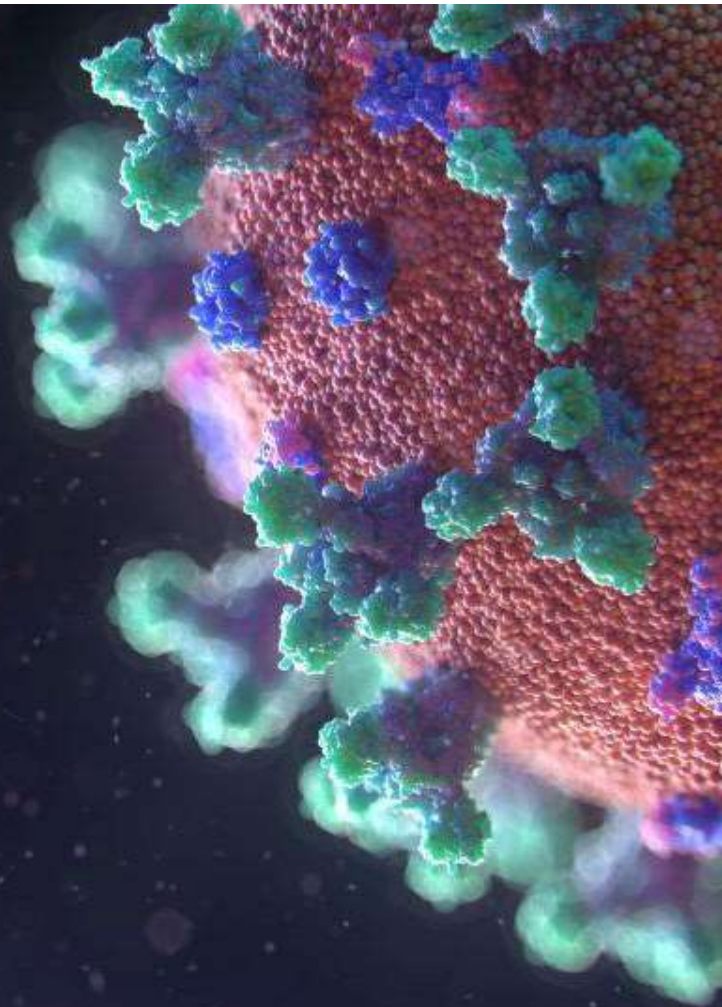


International Webinar on
**Management of COVID-19 Pandemic:
Current Facts, Challenges & Future
Prospects**

Webinar Report

26-28 May 2020



Organised by



Pratiksha Institute of Pharmaceutical Sciences

(Under Pratiksha Educational Trust)

Chandrapur Road, Panikhaiti, Guwahati-26, Assam, India

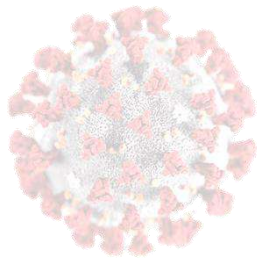
In association with



Assam Pharmacy Council

Pharmacy Bhawan, Director of Health Services Campus, Hengrabari,
Guwahati-36, Assam, India

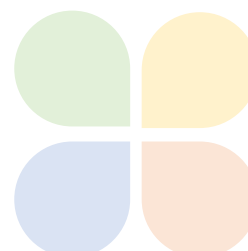
Introduction



Sublimely nestled in the lap of nature away from the hustle of city life, Pratiksha Institute of Pharmaceutical Sciences under Pratiksha Educational trust was established to impart top quality education to its students in the field of Pharmaceutical sciences so that they can shine brilliantly in their careers. Here the students are not confined to books and classrooms only, but efforts are also made to develop their skills, intensive thinking, and most importantly, character, for the betterment of their family, society and the nation. Apart from classroom lectures, the students are also exposed to people from different fields so that they can grasp the importance of new research in shaping their futures.

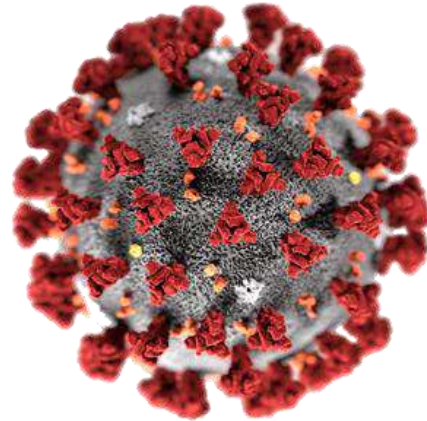
Through the advent of the internet and digitalization, the world has become a much smaller place. This has enabled us to use the power of the internet to forge relationships with people across the globe and invite them to enlighten us with their knowledge. As of now, the world is reeling under the onslaught of COVID-19, the highly virulent and communicable virus which has changed the lifestyle of people across the globe.

Within six months of the occurrence of this disease in Wuhan, China it has spread all around the globe affecting more than 65 lakhs of people with the death of more than 4 lakhs till now. India is also unable to escape out of its outbreak. Currently in India, more than 2 lakhs peoples are found to be positive and above 6 thousand peoples are died in this disease. The positive cases continue to increase day by day. Since it is a new disease, its proper treatment protocol is still in research. Therefore, it is very much essential to aware of COVID-19 by each and every person of this world right from a child to a geriatric. Across countries, lockdowns are being enforced and schools, colleges, and offices are closed altogether or working with half the force. Despite this, the thirst for knowledge should never stop and therefore, Pratiksha Institute of Pharmaceutical Sciences in association with Assam Pharmacy Council has taken an initiative of conducting a webinar by inviting resource persons working in various academic and research organizations from across the world to educate us regarding how humanity has taken up the fight against COVID-19. This webinar was entitled as “*Management of COVID-19 Pandemic: Current Facts, Challenges and Future Prospects*” and hold on 26th, 27th and 28th of May, 2020 through ZOOM meeting platform.



Aim

The main aim of the webinar was to provide the latest update about the present scenario of COVID-19 research and its current and future prospects of mitigation.



Objectives

- ❖ To provide a platform to the experts and curious minds to gather knowledge on COVID-19 across the globe.
- ❖ To provide the insight on the microbiology and pathophysiology of COVID-19 disease.
- ❖ To provide the information about preventive measures against COVID-19 in individual and community level.
- ❖ To provide the information on the advances in of COVID-19 disease.
- ❖ To provide the information about COVID-19 management.
- ❖ To provide current and future potential of research on COVID-19 including drug delivery and vaccine invention.





DAY 1

Inauguration Ceremony



WELCOME SPEECH

Dr. Pramod Kr. Sharma
President, Pratiksha Educational Trust &
CMD, Pratiksha Group of Hospitals, Guwahati,
Assam, India.

BEST WISHES SPEECH

Mr. Munindra Ch. Deka
President, Assam Pharmacy Council, Guwahati,
Assam. &
Former Drug Controller, Department of Health and
Family Welfare, Govt. of Assam, India

CHIEF GUEST

Prof. (Dr.) B. Suresh
President, Pharmacy Council of India, New Delhi,
India. &
Pro-Chancellor, JSS Academy of Higher Education
& Research, Mysuru, Karnataka, India

SPECIAL GUEST

Prof. (Dr.) Dhiraj Bora
Vice-Chancellor, Assam Science and Technology
University, Guwahati, Assam, India

Prof. (Dr.) Dipika Deka
Vice-Chancellor, Srimanta Sankaradeva University
of Health Sciences, Guwahati, Assam, India

VOTE OF THANKS

Dr. Satyendra Deka
Principal, Pratiksha Institute of Pharmaceutical
Sciences, Guwahati, Assam, India.

MODERATOR

Dr. Chandrajit Dohutia
Assistant Professor, Pratiksha Institute of
Pharmaceutical Sciences, Guwahati, Assam, India

The Inaugural Session was held on 26th May, 2020 from 09:45 AM onwards in the presence of the guests and delegates. The inaugural session was hosted by Dr. Chandrajit Dohutia.



“Crisis sometime leads to the great invention but people should give effort for it”

The webinar began with the opening remarks of **Dr. Pramod Kr. Sharma**. In his inaugural remarks he formally welcomed the dignitaries and expressed sincere thanks to all participants for sharing their time at the platform and highlighted the objectives of organizing webinar series in this situation. He had briefly explained about the critical phase that is currently faced by the entire world due to COVID-19 and its devastating effects. He had mentioned the importance of scientific discussions in such pandemic. He had also point it out that the knowledge and learning should go hand in hand whatever the situation in the world because crisis sometime leads to the great invention but people should give effort for it.

Inauguration Ceremony



“For every problem there is a solution”

Mr. Munindra Chandra Deka had congratulated PIPS for adapting quickly to the unprecedented situation and expressed his best wishes to the webinar from the bottom of his heart. He expressed his feelings on the different problems arises due to COVID-19 pandemic and mentioned that for every problem there is definitely a solution. He expected that the webinar would not only benefit the pharmacist and people of Assam but also the citizen of India. He had also explained the role and responsibility of registered pharmacist in this crisis due to COVID-19 in ground level. He urged the government to fully utilize the strength of pharmacist force in the management of COVID-19.

Prof. (Dr.) B. Suresh had delivered a motivational, inspiring and informative talk on the inauguration ceremony of the webinar for the pharmacy fraternity of India.

“Extraordinary time requires extraordinary leadership”

He has highlighted the COVID-19 pandemic situation in India and status of awareness among people. As there is no medicine and vaccine

available for COVID-19 till now and people can only know when it actually comes. Therefore, till then he has encouraged the registered pharmacist to help and aware the people with responsibility to the nation by delivering and keeping other medicines available during lockdown and post lockdown. He had mentioned that the extraordinary time requires extraordinary leadership. So he urges the leaders to adapt the situation smartly and motivate his fellow with sound knowledge and efficiency.



“There is a world beyond COVID-19”

He expressed his gratitude towards the teachers for their remarkable effort of teaching through the online mode in this pandemic and encouraged them to cope up any kind of crisis. He had motivated teachers by saying that there is a world beyond COVID-19 and urged everyone not to be obsessed only with COVID-19.

“World does not begin and end with corona”

He also emphasized on the need to continue the regular teaching-learning process and provide the

Inauguration Ceremony

students with the essential services and resources and for continuation of their activities. Online platform for education is acceptable but it never be a substitute. The role of teacher in this pandemic should not confined only to the teaching rather they should become a mentor and motivator for the students because virtual world cannot carry the human values. Lastly he had concluded by saying that world does not begin and end with corona.

Prof. (Dr.) Dhiraj Bora had addressed to the audience with his charming talk. He had nicely pointed out the positive and negative effects of COVID-19 pandemic. The economy along with the education system had faced a great challenge in this crisis. He had also mention the positive affects like the clean and green environment, hymen and reduced pollution. He urged the people to keep continue the positive changes of habits even after the pandemic for the betterment of humankind and the society.



“In the crisis higher educational institute should go for collaboration rather than cooperation”

No online system of education can replace the effectiveness of face to face interaction in the class.

There is some pitfall in virtual learning where individual learning can be possible rather collective learning which is possible through conventional process. To cope up such crisis he was demanding for implementation of both online and face to face system of teaching learning process and collaboration among higher educational institute rather than cooperation. He had also point it out that in the context of Assam, the online mode of education is not so effective instantly. He requested to the government to invest more fund in research and provide emergency education loans to manage such kind of emergencies for the future. At the end he is hopeful by mentioning that India did not produced a single PPE kit earlier but on demand in this crisis now India stand at 2nd in the production of PPE kit across the world.



Prof. (Dr.) Dipika deka had given an inspiring and simulating talk on the management of COVID-19.

“Pharmacist have major role in Drug Research and it is the golden time for that”

She had talked about the various technical terms related to COVID-19 such as suspect, contacts etc.

Inauguration Ceremony

She urged the faculties to adapt the online classes as it would be the future of education. As per her opinion pharmacist are nicely maintain the COVID-19 protocols in pharmacies but it should also be followed at home by keeping him quarantine from the other member of the family.

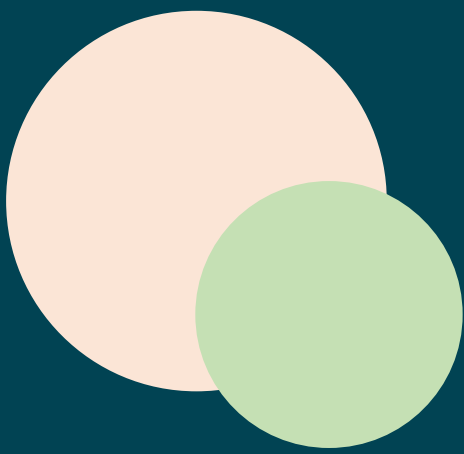
“We should not think only local but also national and international”

In this pandemic, pharmacist can play an important role in the management of stress and stigma of common people as they are available in the community. She also emphasised the potential of research during this pandemic and urge the researchers to grab the opportunity to serve for the betterment of mankind and society.



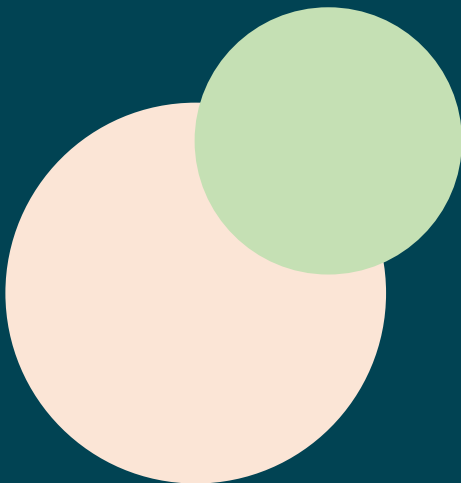
At the end of the inauguration ceremony **Dr. Satyendra Deka** had expressed his feeling in the vote of thanks that no webinar is successful without the wholehearted support from some personals. At first he shared his gratitude towards the guests and resource persons for making themselves available for the webinar. He also gave thanks to the

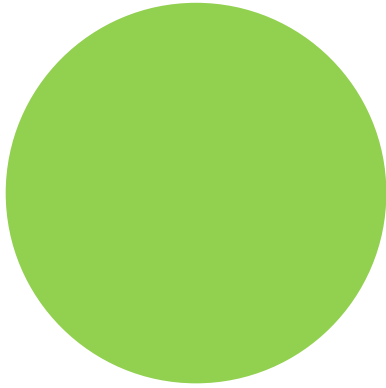
members of the organizing and advisory board of the webinar for their intensive hard work along with the Rely Healthcare Technologies for the technical support. At last but none the less he gave thanks to the participants who made the event successful.



DAY 1

Technical Sessions





Technical Session - I

Prevention of COVID-19 infection in the community

SPEAKER

Dr. Ankur Barua
MBBS, MD, Ph.D., FRSPH (UK)
Consultant Physician, Public Health Professional
AMRI Hospital, Kolkata, India

MODERATOR

Dr. Chandrajit Dohutia
Assistant Professor,
Pratiksha Institute of Pharmaceutical Sciences,
Guwahati, Assam, India

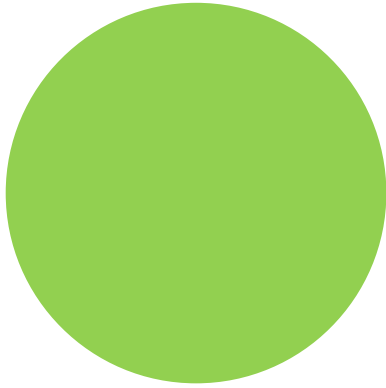


Dr. Ankur Barua began the webinar with an introductory presentation, first explaining briefly about the COVID-19, which is wreaking the havoc worldwide. Next, he explained the importance of public health control measures including the community containment strategies like isolation and quarantine in decelerating the SARS-CoV-2 infection. In his presentation, he mainly discussed on the measures to be followed to prevent transmission and inadvertent exposures to the virus. Dr. Barua concluded his presentation by highlighting the importance of public health control measures- the only recommended tactics available, as currently there are no vaccines or FDA approved drugs for the ongoing crisis.



- ❖ **Soak Fruits and Vegetables in Warm Water with Vinegar and Baking Soda for 20 minutes**
- ❖ **Rinse and Dry them with Kitchen Tissue or Clean Towel**

SURFACE PROTECTION



Technical Session - II

Best practices to combat COVID-19

SPEAKER

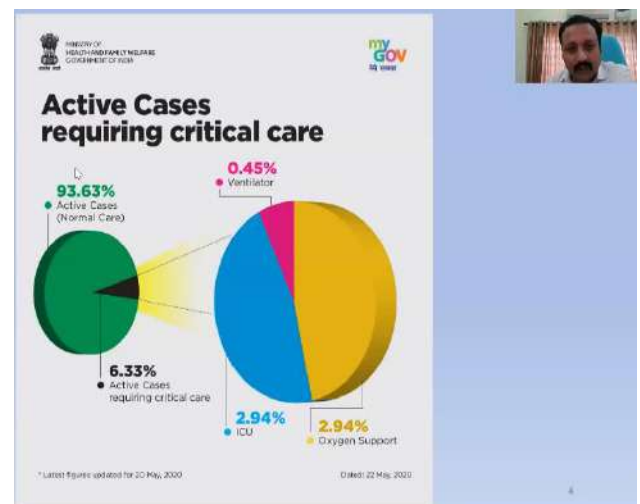
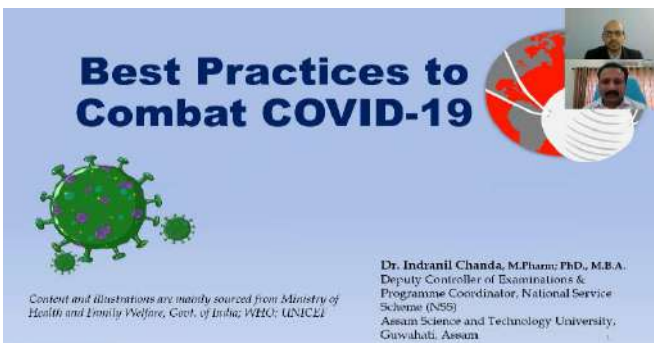
Dr. Indranil Chanda
M.Pharm, Ph.D., MBA
Deputy Controller of Examination &
Program Coordinator, NSS,
Assam Science and Technology University, Assam,
India

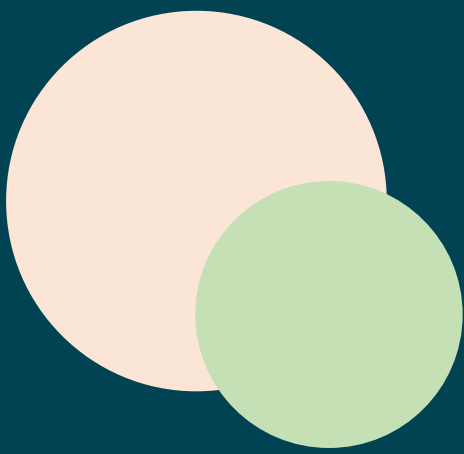
MODERATOR

Dr. Chandrajit Dohutia
Assistant Professor,
Pratiksha Institute of Pharmaceutical Sciences,
Guwahati, Assam, India



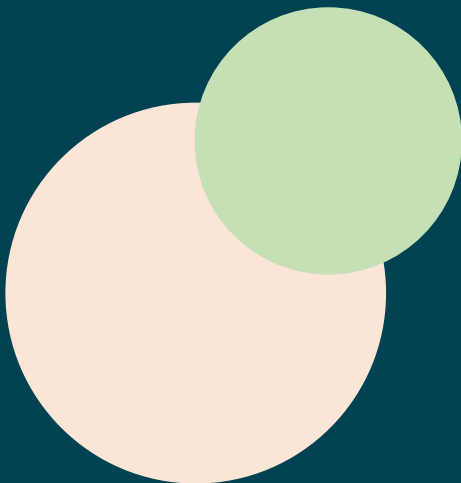
Dr. Indranil Chanda highlighted the best practices to be adopted while fighting against the coronavirus pandemic with suitable contents and illustrations sourced from Ministry of Health and Family Welfare, Govt. of India; World Health Organization (WHO) and United Nations International Children's Fund (UNICEF). He summarized all the recommended guidelines provided by frontline health organizations or authorities on preventive measures such as hand hygiene, respiratory hygiene, mask management etc. During his presentation, Dr. Chanda urged everyone not to ignore the preventive measures for the safety of the society.

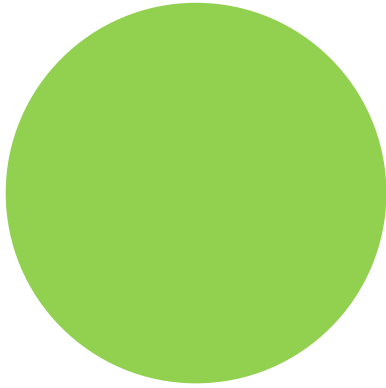




DAY 2

Technical Sessions





Technical Session - III

Artificial Intelligence and Pharmaceuticals

SPEAKER

Mr. Rajesh Vagh
B. Pharm
CEO & Founder PharmaTutor,
Gujarat, India

MODERATOR

Mr. Anupam Sarma
Assistant Professor,
Pratiksha Institute of Pharmaceutical Sciences,
Guwahati, Assam, India

Mr. Rajesh Vagh shared the experiences and utilities of artificial intelligence (AI) in pharmaceutical and healthcare sectors, especially for disease identification or diagnosis, personalized treatment, drug discovery, clinical research, health record maintenance and epidemic outbreak prediction etc. He elaborated the growth of artificial intelligence and machine learning in the past decade. Mr. Vagh also highlighted the significance of artificial intelligence in COVID-19 crisis. He emphasized on the utilization of AI in understanding the virus, diagnosis, surveillance and contact tracing etc.



The global pharma market was worth \$1.2 trillion in 2018 and will reach \$1.5 trillion in 2023, growing at 5.8%.

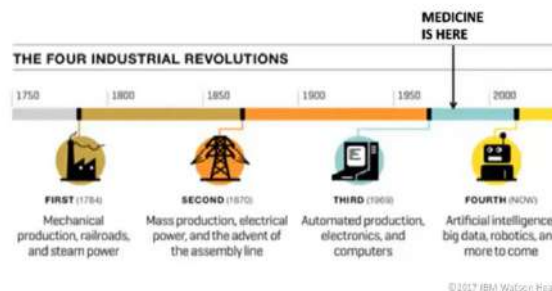
Pharmaceutical industry is one of the Top 3 industries in the world. The industry invests nearly 190 Billion USD a year on drug development and clinical trials, making it one of the biggest contributors to the international economy.

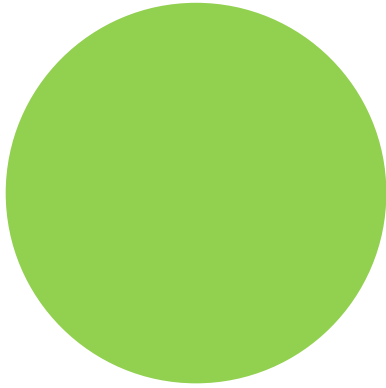


Applications of AI in pharma & healthcare

- Disease Identification/Diagnosis
- Personalized Treatment
- Drug Discovery
- Clinical Research
- Smart Electronic Health Records
- Epidemic Outbreak Prediction







Technical Session - IV

Recent Advances in the Management of COVID-19

SPEAKER

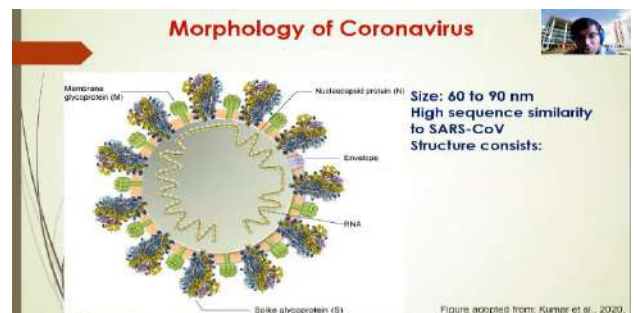
Dr. Bapi Gorain
M.Pharm, Ph.D.
Senior Lecturer II, School of Pharmacy
Faculty of Health & Medical Sciences
Taylor's University, Subang Jaya, Malaysia

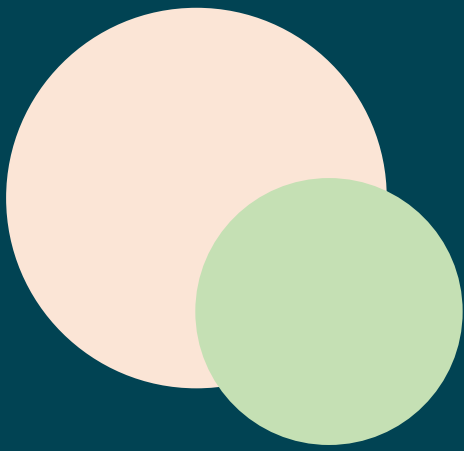
MODERATOR

Dr. Chandrajit Dohutia
Assistant Professor,
Pratiksha Institute of Pharmaceutical Sciences,
Guwahati, Assam, India



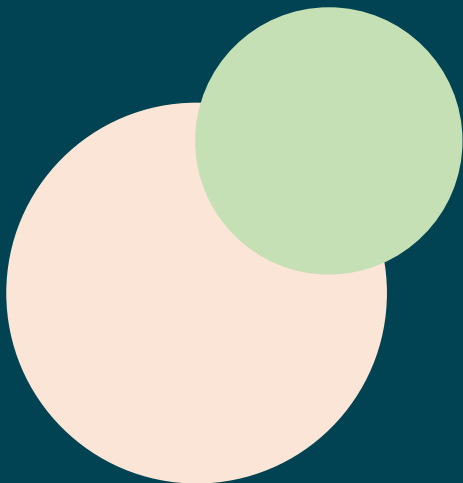
Dr. Bapi Gorain highlighted on the current COVID-19 guidelines and the potential drugs undergoing preclinical and clinical development. He discussed about the progresses on the antiviral drugs such as remdesivir, chloroquine and hydroxychloroquine, and immune based therapies like convalescent plasma, immune globulins and interleukin-6 inhibitors. At the end, he mentioned about the promising future interventions like stem cell therapy, antiviral combinations and Traditional Chinese Medicine.

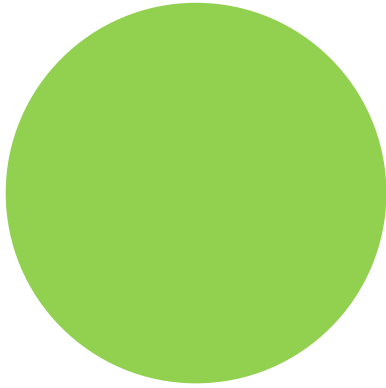




DAY 3

Technical Sessions





Technical Session - V

Nanomedicine: The new magical item to fight COVID-19

SPEAKER

Dr. Izzat Suffian
B.E., Ph.D.
Assistant Professor, Kulliyah of Pharmacy
International Islamic University Malaysia,
Kuantan Campus, Malaysia

MODERATOR

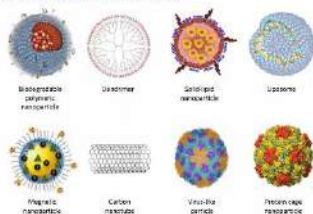
Mr. Anupam Sarma
Assistant Professor,
Pratiksha Institute of Pharmaceutical Sciences,
Guwahati, Assam, India

Dr. Izzat Suffian, being a nanomedicine researcher elaborated the significance of the nanocarriers in the delivery of the drugs in viral infections. He also explained the rationale behind the nanomedicines on targeting the SARS-CoV-2 virus and other viruses. Further underscoring the advantages of nanocarriers as promising carrier in viral diagnosis and therapeutic, he emphasized the possible interactions between nanocarrier and SARS-CoV-2 virus. Lastly, he mentioned the current evidences on optimizing theranostic nanoparticles as a life-saving strategy for COVID-19 management by citing several published articles.



WORLD OF NANOCARRIERS

What do you know about nanocarriers?

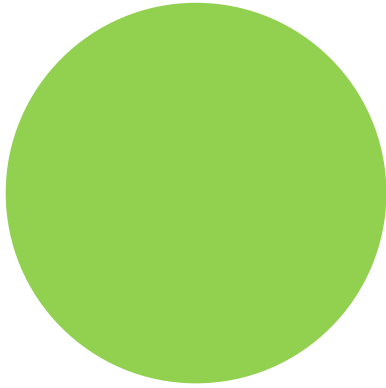


NANOMEDICINE

The new magical item to fight COVID-19

Asst. Prof. Dr Izzat Suffian
Kulliyah of Pharmacy
International Islamic University Malaysia





Technical Session - VI

COVID-19: Pathogenesis, immune response & role of antioxidants

SPEAKER

Dr. Rinku Baishya
 M.Pharm., Ph.D., Post doc.
 Scientist (Pharmacology), Chemical Science &
 Tech. Division, CSIR-NEIST, Jorhat, Assam, India

MODERATOR

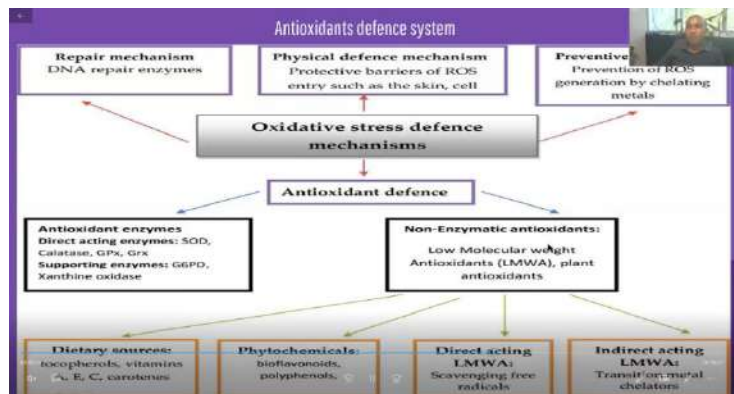
Mr. Satyash Sandilya
 Assistant Professor,
 Pratiksha Institute of Pharmaceutical Sciences,
 Guwahati, Assam, India

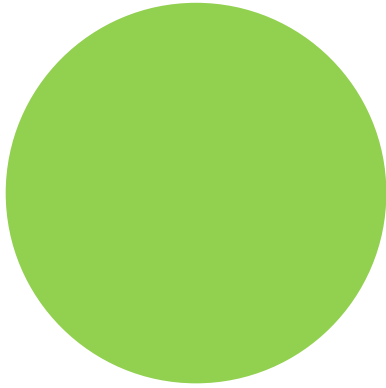
Dr. Rinku Baishya, in his presentation shared the current understanding on the pathogenesis of COVID-19, caused by the SARS-CoV-2. He also discussed the immune response elicited by the virus in the host body and the clinical manifestations or complications developed thereof. A detailed overview was given on the host immunity and the cellular damage induced by oxidative stress during the SARS-CoV-2 infection. He emphasized on the mechanistic basis and multi-level regulation of antioxidant-related pathway in viral infection. Finally, he outlined the importance of antioxidants in boosting the immunity against the disease and suggested everyone to consume food-rich in antioxidants.



FOOD SOURCES OF ANTIOXIDANTS

- Beta-carotene- Green vegetables, ripe yellow fruits & vegetables like papaya ,mango ,pumpkin and carrots.
- Vitamin A – Milk fat, Egg yolk,liver,kidney & fortified vanaspati.
- Vitamin C – Fresh & Citrus fruits- amla,orange,lemon,sweet lime,guava and gooseberry, green leafy vegetables & sprouted pulses.
- Vitamin E – Oil seeds,cereals,nuts,cereal products, vegetable oils & egg yolk.
- Selenium & Zinc – Meat,Sea-food,Cereals & pulses.
- Copper – Oysters, Mushroom, Liver & nuts.
- Iron- Green leafy vegetables, cereals, millets,pulses,nuts,meat and liver





Technical Session - VII

Vaccines: Their preparation, development and challenges

SPEAKER

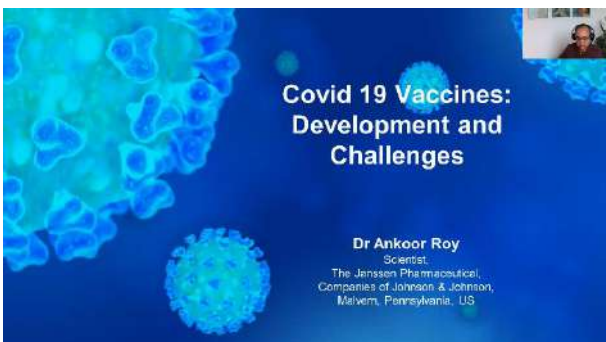
Dr. Ankoor Roy
M.Sc., M.Phil, Ph.D.
Scientist, Downstream processing / purification
The Janssen Pharmaceutical Companies of
Johnson and Johnson, Pennsylvania, USA

MODERATOR

Dr. Chandrajit Dohutia
Assistant Professor,
Pratiksha Institute of Pharmaceutical Sciences,
Guwahati, Assam, India

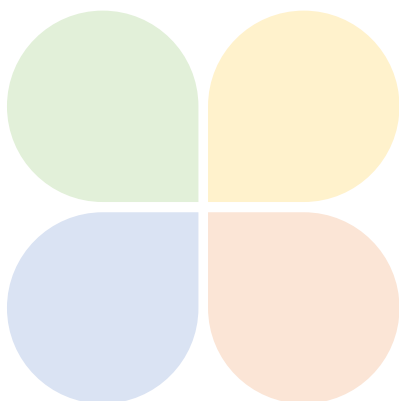


Dr. Ankoor Roy being associated with the vaccine development programme at the Janssen Pharmaceutical Company of Johnson & Johnson, USA shared his experience on the vaccine field. In his presentation, he discussed in details about the vaccine and their preparation and emphasized on the different types, flow path, and steps in vaccines development. He briefly summarized the development of vaccine candidates from top pharmaceutical companies like Moderna, AstraZeneca etc. Finally, he gave an overview about the vaccine development at the Janssen Pharmaceutical Company, USA. "Rather than seeing the public health control measures as a nuisance, we should think of them as a necessity for humanity' Dr. Roy mentioned in his presentation, as currently there is no pharmaceutical interventions available.

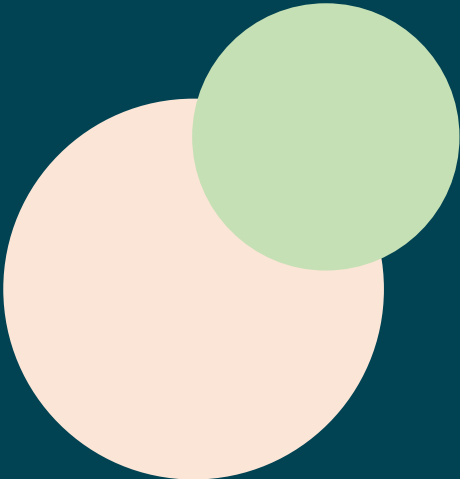
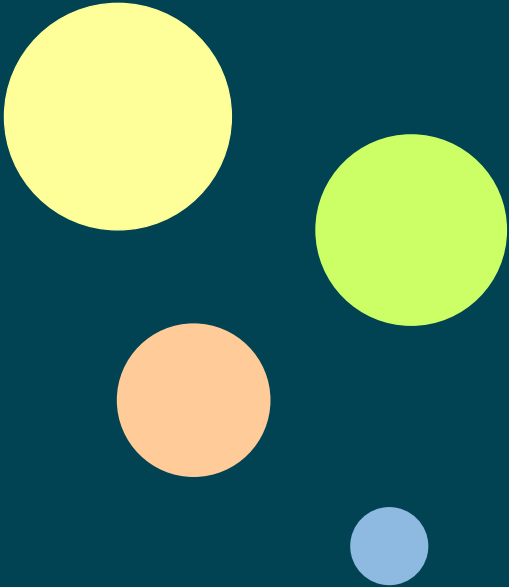
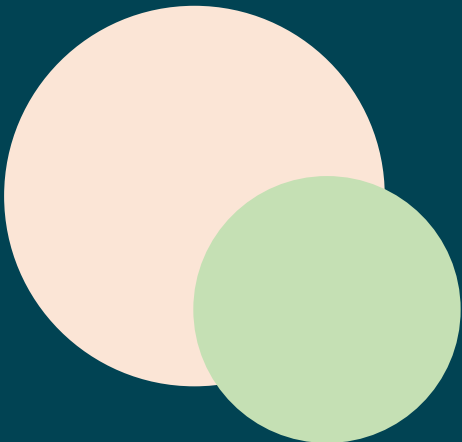


Conclusion

The webinar was concluded after the vote of thanks given by Dr. Chandrajit Dohutia. There were more than 400 curious minds including students, researchers and academicians participated in the international webinar from India and abroad as well. The webinar was smoothly conducted throughout the three days and successfully ended as per the agenda. All the resource persons were able to express their knowledge from their field of expertise in a very interesting and agreeable way to the audience that is reflected in the participant's feedback. We hope through this webinar the participants were able to learn important information regarding the challenges presented by the virus, which would be beneficial to spread the necessary awareness among the vulnerable society as well as enable us to partake in new research activities.



Appendices



Webinar Program

DAY ONE

TUESDAY 26 MAY 2020

TIME	EVENT
09:45 – 11:00	Inauguration Ceremony
	<i>Welcome Speech</i> Dr. Pramod Kr. Sharma President, Pratiksha Educational Trust & CMD, Pratiksha Group of Hospitals, Guwahati, Assam, India.
	<i>Best Wishes Speech</i> Mr. Munindra Ch. Deka President, Assam Pharmacy Council, Guwahati, Assam. & Former Drug Controller, Department of Health and Family Welfare, Govt. of Assam, India.
	<i>Speech of Chief Guest</i> Prof. (Dr.) B. Suresh President, Pharmacy Council of India, New Delhi, India. & Pro-Chancellor, JSS Academy of Higher Education & Research, Mysuru, Karnataka, India.
	<i>Speech of Special Guest</i> Prof. (Dr.) Dhiraj Bora Vice-Chancellor, Assam Science and Technology University, Guwahati, Assam, India. Prof. (Dr.) Dipika Deka Vice-Chancellor, Srimanta Sankaradeva University of Health Sciences, Guwahati, Assam, India.
	<i>Vote of Thanks</i> Dr. Satyendra Deka Principal, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
11:00 – 12:00	Technical Session – I Prevention of COVID-19 infection in the community
	Speaker Dr. Ankur Barua MBBS, MD, Ph.D., FRSPH (UK) Consultant Physician, Public Health Professional AMRI Hospital, Kolkata, India
12:00 – 12:30	Tea Break

Webinar Program

TIME	EVENT
12:30 – 13:30	Technical Session – II Best practices to combat COVID 19 Speaker Dr. Indranil Chanda M.Pharm, Ph.D., MBA Deputy Controller of Examination & Program Coordinator NSS, Assam Science and Technology University, Assam, India

DAY TWO

TUESDAY 27 MAY 2020

TIME	EVENT
11:00 – 12:00	Technical Session – III Artificial Intelligence and Pharmaceuticals Speaker Mr. Rajesh Vagh B. Pharm CEO & Founder PharmaTutor, Gujarat, India
12:00 – 12:30	Tea Break
12:30 – 13:30	Technical Session – IV Recent Advances in the Management of COVID 19 Speaker Dr. Bapi Gorain M.Pharm, Ph.D. Senior Lecturer II, School of Pharmacy Faculty of Health & Medical Sciences Taylor's University, Subang Jaya, Malaysia

Webinar Program

DAY THREE

TUESDAY 28 MAY 2020

TIME	EVENT
11:00 – 12:00	Technical Session – V Nanomedicine: The new magical item to fight COVID-19 Speaker Dr. Izzat Suffian B.E., Ph.D. Assistant Professor, Kulliyah of Pharmacy International Islamic University Malaysia, Kuantan Campus, Malaysia
12:00 – 12:30	Tea Break
12:30 – 13:30	Technical Session – VI COVID 19: Pathogenesis, Immune Response and Role of Antioxidants Speaker Dr. Rinku Baishya M.Pharm., Ph.D., Post doc. Scientist (Pharmacology), Chemical Science & Tech. Division, CSIR-NEIST, Jorhat, Assam, India
19:00 – 20:00	Technical Session – VII Vaccines: Their preparation, development and challenges Speaker Dr. Ankoor Roy M.Sc., M.Phil, Ph.D. Scientist, Downstream processing / purification The Janssen Pharmaceutical Companies of Johnson and Johnson, Pennsylvania, USA
20:00 – 20:15	<i>Vote of Thanks</i> Dr. Chandrajit Dohutia Principal, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India

Structure of the Webinar

Chief Patron	Dr. Pramod Kr. Sharma President, Pratiksha Educational Trust & CMD, Pratiksha Group of Hospitals, Guwahati, Assam, India.
Patron	Mr. Munindra Ch. Deka President, Assam Pharmacy Council, Guwahati, Assam. & Former Drug Controller, Department of Health and Family Welfare, Govt. of Assam, India Mr. Kulesh Goswami Trustee, Pratiksha Educational Trust, Guwahati, Assam, India.
Chairman	Dr. Satyendra Deka Principal, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
Advisory members	Prof. (Dr.) Dipak Chetia Dean, Research and Development, Dibrugarh University, Dibrugarh, Assam, India. Dr. Nripen Das Registrar, Assam Science and Technology University, Guwahati, Assam, India. Dr. Pronobesh Chattopadhyay Scientist 'F', FNASc, Deputy Director, Division of Pharmaceutical Technology, Defence Research Laboratory, Tezpur, Assam, India. Dr. Sujit Bordhan Deputy Registrar, Srimanta Sankaradeva University of Health Sciences, Guwahati, Assam, India. Prof. (Dr.) Rama Kanta Sharma Head, Department of Rasa Shastra & Bhaisajya Kalpana, Govt. Ayurvedic College, Guwahati, Assam. & State drug licensing authority, Directorate of AYUSH, Guwahati, Assam, India. Mrs. Sukirti Das Head, Institute of Pharmacy, Guwahati Medical College and Hospital, Guwahati, Assam, India. Mr. Hitesh Barman Secretary, Pratiksha Educational Trust, Guwahati, Assam, India. Mr. Pankaj Bhimsaria CEO, Pratiksha Hospital, Guwahati, Assam, India. Mrs. Babita Yumnam Principal, Pratiksha School of Nursing, Panikhaiti, Guwahati, Assam, India. Mr. Dipak Singh General Manager, Ozone Pharmaceuticals Ltd. Amingaon, Guwahati, Assam, India. Prof. (Dr.) Gouranga Das Principal, Girijananda Chowdhury Institute of Pharmaceutical science, Guwahati, Assam, India.

Structure of the Webinar

Advisory members	Dr. Hauzel Lalhlenmawia Head, Department of Pharmacy, Regional Institute of Paramedical and Nursing Sciences, Aizawl, Mizoram, India.
	Prof. (Dr.) Biplab K. Dey Dean, Department of Pharmaceutical Science, Assam Downtown University, Panikhaiti, Guwahati, Assam, India.
	Dr. Pran Kishore Deb Associate Professor, faculty of Pharmacy, Philadelphia University, Philadelphia, Jordan.
	Dr. Bhargab Jyoti Sahariah Principal, NETES Institute of Pharmaceutical Science, Guwahati, Assam, India.
	Dr. Raja Chakraborty Principal, NEF College of Pharmacy, Guwahati, Assam, India.
	Prof. (Dr.) Saikat Sen Department of Pharmaceutical Science, Assam Downtown University, Panikhaiti, Guwahati, Assam, India.
	Mr. Rituraj Bharadwaj Vice-Principal, Rahman Institute of Pharmaceutical Sciences and Research, Guwahati, Assam, India.
	Mr. Girish Kashid Assistant Professor, Sanjivani College of Pharmaceutical Education and Research, Ahmednagar, Maharashtra, India.
	Dr. T. C. Lalhriatpuii Assistant Professor, Regional Institute of Paramedical and Nursing Sciences, Aizawl, Mizoram, India.
	Mr. Birendra K. Barman Sr. Pharmacy Officer, CGHS, Ministry of Health & Family Welfare, Govt. of India, Guwahati, Assam, India.
Mr. Deepak Singha Founder and MD, Rely Healthcare Technologies, Guwahati, Assam, ndia.	
All Members, Assam Pharmacy Council, Guwahati, Assam, India	
Secretary	Dr. Chandrajit Dohutia Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India
Organizing Secretary	Mr. Arup Chakraborty Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India

Structure of the Webinar

Joint Secretary	Mr. Anupam Sarma Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
	Mr. Pobitra Borah Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.

Registration Committee	Ms. Juti Rani Devi Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
	Mrs. Ratnali Bania Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
	Mr. Manash Pratim Pathak Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
	Mr. Satyasish Sandilya Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
	Mr. Sadique Hussain Tapadar Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.

Certificate Committee	Ms. Juti Rani Devi Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
	Mr. Manash Pratim Pathak Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
	Mr. Ananta Saikia Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
	Mrs. Ratnali Bania Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
	Mr. Sadique Hussain Tapadar Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.

Designing & Technical Committee	Mr. Ananta Saikia Assistant Professor, Pratiksha Institute of Pharmaceutical Sciences, Guwahati, Assam, India.
	Rely Healthcare Technologies , Guwahati, Assam, India.



**Pratiksha Institute of
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In association with
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**26
MAY
2020**

International Webinar on
**Management of COVID-19 Pandemic:
Current Facts, Challenges & Future
Prospects**

Live on **zoom**

Speech of Chief Guest



Prof. (Dr.) B. Suresh
Pro Chancellor

JSS Academy of Higher Education
& Research, Mysuru, Karnataka, India
President, Pharmacy Council of India,
New Delhi, India

Time: 10.10 AM to 10.30 AM



Speech of Special Guest



Prof. (Dr.) Dhiraj Bora
Vice Chancellor

Assam Science and Technology
University, Guwahati, Assam,
India

Time: 10.30 AM to 10.45 AM

Speech of Special Guest



Prof. (Dr.) Dipika Deka
Vice Chancellor

Srimanta Sankaradeva University
of Health Sciences, Guwahati,
Assam, India

Time: 10.45 AM to 11.00 AM

Webinar for Students, Academicians, Researchers, Industry Persons & Healthcare Professionals

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 In association with Assam Pharmacy Council

26 MAY 2020

International Webinar on Management of COVID-19 Pandemic: Current Facts, Challenges & Future Prospects

Welcome Speech by



Dr. Pramod Kr. Sharma
 President, Pratiksha Educational Trust
 CMD, Pratiksha Group,
 Guwahati, Assam, India

Live on  ZOOM

Speech Time: 10.00 AM to 10.10 AM

Webinar for Students, Academicians, Researchers, Industry Persons & Healthcare Professionals

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26 MAY 2020

International Webinar on Management of COVID-19 Pandemic: Current Facts, Challenges & Future Prospects

Best Wishes Speech By



Mr. Munindra Ch. Deka
 President
 Assam Pharmacy Council,
 Guwahati, Assam.

Live on  ZOOM

Speech Time: 10.00 AM to 10.10 AM

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26 MAY 2020

International Webinar on Management of COVID-19 Pandemic: Current Facts, Challenges & Future Prospects

Speech of Chief Guest



Prof. (Dr.) B. Suresh
 Pro Chancellor
 JSS Academy of Higher Education
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 President, Pharmacy Council of India,
 New Delhi, India

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Speech Time: 10.10 AM to 10.30 AM

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26 MAY 2020

International Webinar on Management of COVID-19 Pandemic: Current Facts, Challenges & Future Prospects

Speech of Special Guest



Prof. (Dr.) Dhiraj Bora
 Vice Chancellor
 Assam Science and Technology
 University, Guwahati, Assam,
 India

Live on  ZOOM

Speech Time: 10.30 AM to 10.45 AM

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26 MAY 2020

International Webinar on Management of COVID-19 Pandemic: Current Facts, Challenges & Future Prospects

Speech of Special Guest



Prof. (Dr.) Dipika Deka
 Vice Chancellor
 Srimanta Sankaradeva University
 of Health Sciences, Guwahati,
 Assam, India

Live on  ZOOM

Speech Time: 10.45 AM to 11.00 AM

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26 MAY 2020

International Webinar on Management of COVID-19 Pandemic: Current Facts, Challenges & Future Prospects

Vote of Thanks by



Dr. Satyendra Deka
 Principal
 Pratiksha Institute of
 Pharmaceutical Sciences,
 Guwahati, Assam, India

Live on  ZOOM

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**International Webinar on
Management of COVID-19 Pandemic:
Current Facts, Challenges & Future Prospects**

For registration, visit our website: www.pratiksha-edu.in

(Registration is on first come first basis)

26th, 27th & 28th May, 2020

Live on **Zoom**

* Inauguration by eminent personalities from 10:00 AM on 26th May, 2020

 Dr. Ankur Barua MBBS, MD, PhD, FRSPH(UK) Consultant Physician Public Health Professional AMRI Hospital, Kolkata, India 26 th May, 2020 11:00 AM Prevention of COVID-19 infection in the community	 Dr. Indranil Chanda M.Pharm, PhD, MBA Deputy Controller of Examinations and Programme Coordinator, NSS, Assam Science and Technology University, Assam, India 26 th May, 2020 12:30 PM Best practices to Combat COVID-19
 Mr. Rajesh Vagh B.Pharm CEO & Founder PharmaTutor.org Gujarat, India 27 th May, 2020 11:00 AM Artificial Intelligence & Pharmaceuticals	 Dr. Bapi Gorain M.Pharm, PhD Senior Lecturer II School of Pharmacy Faculty of Health & Medical Sciences Taylor's University, Malaysia 27 th May, 2020 12:30 PM Recent advances in the management of COVID-19
 Dr. Izzat Suffian BE, PhD Assistant Professor Kulliyah of Pharmacy IIUM, Malaysia 28 th May, 2020 11:00 AM Nanomedicine: The new magical item to fight COVID-19	 Dr. Rinku Baishya M.Pharm, PhD Scientist (Pharmacology) Chemical Science & Tech. Division CSIR-NEIST, Jorhat, Assam, India 26 th May, 2020 12:30 PM COVID-19: Pathogenesis, immune response & role of antioxidants
 Dr. Ankoor Roy M.Sc, M.Phil, PhD Scientist, Downstream processing The Janssen Pharmaceutical comp. of Johnson & Johnson, USA 28 th May, 2020 7:00 PM Vaccines: Their preparation, development and challenges 	

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**26
MAY
2020**

International Webinar on
Management of COVID-19 Pandemic:
Current Facts, Challenges & Future Prospects

Topic: Prevention of COVID-19 infection in the community

Speaker:



Dr. Ankur Barua
MBBS, MD, PhD, FRSPH(UK)
Consultant Physician
Public Health Professional
AMRI Hospital, Kolkata, India



zoom
Live at **11:00 AM**

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**26
MAY
2020**

International Webinar on
Management of COVID-19 Pandemic:
Current Facts, Challenges & Future Prospects

Topic: Best practices to combat COVID-19

Speaker:



Dr. Indranil Chanda
M.Pharm, PhD, MBA
Deputy Controller of Examinations
and Programme Coordinator, NSS,
Assam Science and Technology
University, Assam, India



zoom
Live at **12:30 PM**

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**27
MAY
2020**

International Webinar on
Management of COVID-19 Pandemic:
Current Facts, Challenges & Future Prospects

Topic: Artificial Intelligence & Pharmaceuticals

Speaker:



Mr. Rajesh Vagh
B.Pharm
CEO & Founder
PharmaTutor.org
Gujarat, India



zoom
Live at **11:00 AM**

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**27
MAY
2020**

International Webinar on
Management of COVID-19 Pandemic:
Current Facts, Challenges & Future Prospects

Topic: Recent advances in the management of COVID-19

Speaker:



Dr. Bapi Gorain
M.Pharm, PhD
Senior Lecturer II,
School of Pharmacy
Faculty of Health & Medical
Sciences, Taylor's University
Subang Jaya, Malaysia



zoom
Live at **12:30 PM**

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**28
MAY
2020**

International Webinar on
Management of COVID-19 Pandemic:
Current Facts, Challenges & Future Prospects

Topic: Nanomedicine: The new magical item to fight COVID-19

Speaker:



Dr. Izzat Suffian
BE, PhD
Assistant Professor
Kulliyah of Pharmacy
IIUM, Malaysia



zoom
Live at **11:00 AM**

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**28
MAY
2020**

International Webinar on
Management of COVID-19 Pandemic:
Current Facts, Challenges & Future Prospects

Topic: COVID-19: Pathogenesis, immune response & role of antioxidants

Speaker:



Dr. Rinku Baishya
M.Pharm, PhD
Scientist (Pharmacology)
Chemical Science & Tech. Division
CSIR-NEIST, Jorhat, Assam, India



zoom
Live at **12:30 PM**

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**28
MAY
2020**

International Webinar on
**Management of COVID-19 Pandemic:
Current Facts, Challenges & Future
Prospects**

Topic: Vaccines: Their preparation,
development and challenges

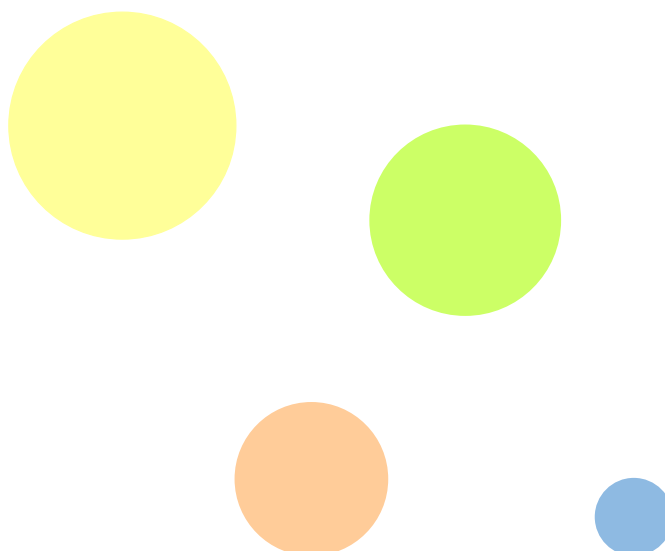
Speaker:

 **Dr. Ankoor Roy**
M.Sc, M.Phil, PhD
Scientist, Downstream processing
The Janssen Pharmaceutical comp.
of Johnson & Johnson, USA

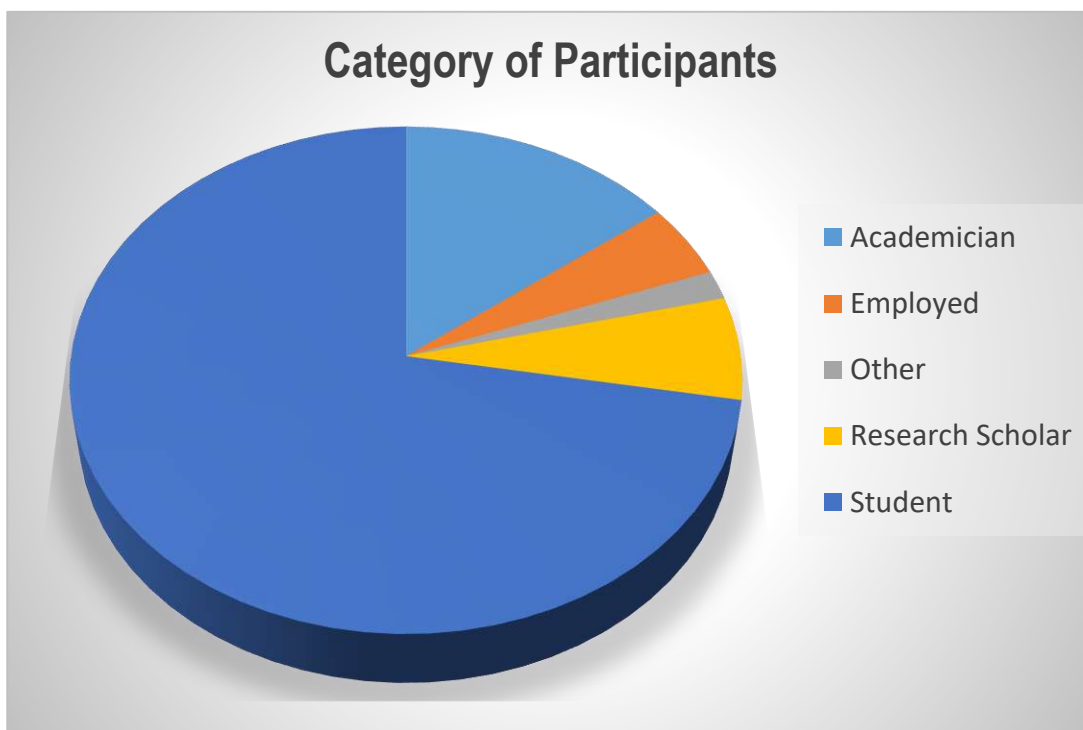
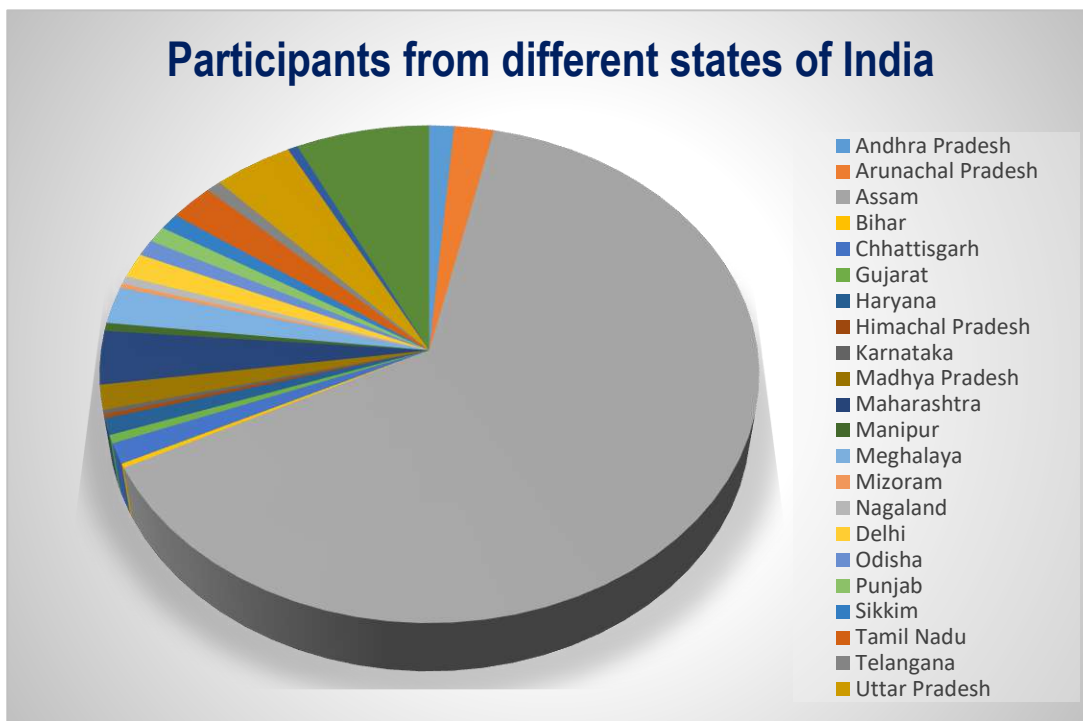
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Statistics of Participants



Appendix – V

Participant's Feedback

Arpon Biswas <arpon50biswas@gmail.com>
To: PIPS SEMINAR <seminarpips2020@gmail.com>

Sat, May 30, 2020 at 4:58 PM

Respected sir

I have got my participation certificate and its completely correct in all aspects.

Thank you for organising such informative Webinar once again.

Thanking you
Arpon Biswas

bonita chetia <bonitachetia41b@gmail.com>
To: PIPS SEMINAR <seminarpips2020@gmail.com>

Sat, May 30, 2020 at 10:02 PM

Thank you so much for such an wonderful event organized Sir. It was very informative for me.

Sanghita Nath Mazarbhuiya <sanghitanath456@gmail.com>
To: PIPS SEMINAR <seminarpips2020@gmail.com>

Sat, May 30, 2020 at 11:38 PM

Thank you for organizing this international webinar and giving me an opportunity to participate in the said webinar. I have received my e-certificate for the same.

Rajesh Kr Prasad <prasadraj337@gmail.com>
To: PIPS SEMINAR <seminarpips2020@gmail.com>

Sun, May 31, 2020 at 4:20 AM

Respected Mam/Sir,

Thank you for the E-certificate.

It was really a well organized wonderful webinar and I am looking for such events in near future.

Thanking you again.
Best regards

Srijita Chakrabarti <srijita1989@gmail.com>
To: PIPS SEMINAR <seminarpips2020@gmail.com>

Mon, Jun 1, 2020 at 10:30 AM

Dear Sir,

I have received your email and also received my certificate for participation in the international webinar. Thank you so much for organizing such a great webinar. The sessions were very much informative and helpful. Heartfelt congratulations to all the team members on your success and best wishes for your future event.

Thanks and Regards,
Srijita Chakrabarti
Assistant Professor
Department of Pharmaceutics
Himalayan Pharmacy Institute
Majhitar, Rangpo
Sikkim - 737136

Core Committee Members



Dr. Satyendra Deka
Principal



Mr. Arup Chakraborty
Assistant Professor



Dr. Chandrajit Dohutia
Assistant Professor



Ms. Juti Rani Devi
Assistant Professor



Mr. Pobitra Borah
Assistant Professor



Mr. Anupam Sarma
Assistant Professor



Mrs. Ratnali Bania
Assistant Professor



Mr. Satyasish Sandilya
Assistant Professor



Mr. Ananta Saikia
Assistant Professor



Mr. Sadique H. Tapadar
Assistant Professor



Mr. Manash P. Pathak
Assistant Professor

Report prepared and edited by

Mr. Anupam Sarma

Mr. Pobitra Borah

Links to watch the talks of the speakers



https://www.youtube.com/channel/UCqfnnPxZmG7eF-3wI_6JFGQ



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