



**AASSA-PAS Webinar Series on
Pandemic Preparedness: Science and Countermeasures**

Islamabad; Pakistan

April 27, 2021 (Tuesday)

May 4, 2021 (Tuesday)

May 25, 2021 (Tuesday)

TENTATIVE PROGRAMME

Organized by

Pakistan Academy of Sciences, Islamabad
Academy of Sciences, Malaysia
Korean Academy of Science and Technology (KAST)
National Academy of Young Scientists (NAYS), Pakistan

Sponsored & Collaborated by

InterAcademy Partnership (IAP)
Association of Academies and Societies of Sciences in Asia (AASSA)
Pakistan Academy of Sciences (PAS)

Venue

Pakistan Academy of Sciences
3-Constitution Avenue, G-5/2
Islamabad

BACKGROUND

Throughout human history, there have been several pandemics that caused a huge loss to humanity. Most famous of these are 14th century black death (estimated 75-200M deaths), 1918 Spanish flu (~50M), 1957-58 Asian Flu (estimated 2M), 1968 Hong Kong flu (estimated 1M), 2009-10 Swine flu (~150,000-500,000) etc. Responding to or planning for a pandemic is a complex process. Most important global pandemic preparedness indicators include prevention for the emergence or release of the potential pathogen, early detection and assessing their expansion, emergency response, global risk mitigation, strong healthcare system, commitment to improving national capacity in compliance with the global needs, an overall assessment of country's vulnerability to risk/biological threat. COVID-19 has proved that more work needs to be done for preparedness and countermeasures of possible pandemics. At the same time, in the era of information technology, one has to use social media for the good of humanity. But unfortunately, this is being counterproductive in a current pandemic.

To deliberate upon the gigantic role of scientists, researchers, medical practitioners, policymakers, students, media, etc. and to arrive at possible strategies, webinar on **Pandemic Preparedness: Science and Countermeasures** are being organized jointly by the Pakistan Academy of Sciences (PAS) and the Association of Academies and Societies of Sciences in Asia (AASSA) consisting of a series of three events scheduled for **April 27, May 4 and May 25, 2021**. The resource persons in the Workshop are leading foreign experts from different countries of Asia & Central Asia (i.e., Indonesia, Japan, Korea, Turkey, Malaysia, Nepal, and USA). The webinar will provide an opportunity to share lessons learnt among the participating countries and scientists about the Covid-19 and its relation to sustainable development goals; Strategy of the current issues, challenges while facing pandemics; Increasing awareness about the preparedness of the future pandemics.

Use of emerging technologies like Artificial Intelligence Applications in Tracking Health Behaviors During Disease Epidemics and Encouraging the use of ICT technologies and social media for tackling the spread of misinformation regarding different aspects of the pandemic will be discussed beside Pandemic: Bio-safety & Biosecurity and Ethics.

THEMES OF WEBINAR SERIES/EVENTS

WEBINAR I: Pandemic Preparedness: Science and Countermeasures

Date: April 27, 2021; Time: 10:00 to 13:30 (PST)

WEBINAR II: Pandemics Preparedness, One Health: Lessons Learnt

Date: May 04, 2021; Time: 10:00 to 13:00 (PST)

WEBINAR III / HYBRID WORKSHOP (May 25, 2021)

Technical Session I: How to counter Infodemics: Role of Scientists & Role of Complementary medicine in Pandemics; Time: 10:00 to 11:00 (PST);

Poster Session: 11:00 to 13:00 (PST)

Technical Session II: Extraordinary Session on Diagnosis, Critical Care; Vaccines and Herd Immunity Time: 14:00 to 15:30 (PST)

Concluding Session: 15:30 – 17:30

REGISTRATION:

Please register to:

Webinar I: <https://zoom.us/meeting/register/tJukce6vpjovHdz88zQATdnid5vdwMcSS8mx>

Webinar II: <https://zoom.us/meeting/register/tJEvdOqrqTopEt3aUC-K37ureWnHW6PwwSlg>

Webinar III/Hybrid Workshop: TBD

Details of the meeting link (Zoom) will follow in due course upon registration. Please submit any questions to: Mr. Muhammad Naseer (m.naseer@paspk.org)

Any further inquiries about the AASSA-PAS Webinar Series address to:

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WEBINAR I

Pandemic Preparedness: Science and Countermeasures

Inauguration

April 27, 2021, Tuesday

10:00 to 13:30 (PST)

Moderator: Prof. Dr. Zabta K. Shinwari

10:00-10:10	Welcome address: Prof. Khalid Mahmood Khan (President PAS)
10:10-10:20	Address by Prof. Yoo Hang Kim (President AASSA)
10:20-10:30	Future activities of AASSA (President Elect) Prof. Dato Dr. Khairul Anuar Bin Abdullah
10:30-10:40	Pandemic Preparedness: Science and Countermeasures Prof. Z. K. Shinwari
10:40-10:50	Address by Chief Guest (TBC)
10:50-11:00	Vote of thanks: Prof. Tasawar Hayat (Sec. Gen. PAS)
11:00-11:15	Break

SDGs and Pandemics

Moderator: Prof. Dr. Masoom Yasinzai

11:15 - 11:30	Keynote lecture: The Role of Science Academies in terms of Cooperation in Pandemics	Prof. Dr. Muzaffer Şeker, President of TÜBA Turkey
11:30 – 11:40	Asian Council of Science Editors (ACSE)	Maryam Sayab
11:40 - 11: 50	Impact of COVID-19 Pandemic on Women in Nepal: A Glimpse	Prof. Dr. Anjana Singh, Nepal
11:50 - 12:00	Dealing of Virus Infected Biological Samples using Modern Mass Spectrometry Tools: Hepatitis C Virus as an Example	Prof. Dr. Syed Ghulam Musharraf
12:00 - 12:10		Request Korean Speaker
12:10 - 12:20	COVID-19 pandemic and other co-epidemics: a challenge for the overburdened healthcare system in developing countries	Dr. Muhammad Ali

12:20 - 12:30	COVID-19 pandemic as a test case in the anthropocene epoch; the interplay of environment, ethics, and psychology on the global stage	Dr. Ali Talha Khalil
12:30 - 12:40	Alternative Therapies for Pandemic Diseases using Herbal Drinks	Prof. Dr. Mushtaq Ahmad
12:40 - 12:50	Artificial Intelligence and Predictive Survival Analysis for Covid-19	Engr. Dr. Farhan Khan
12:50 - 13:00	Development of an Assessment Method for Investigating the Impact of Climate of Lahore on Confirmed Cases of COVID-19	Prof. Dr. Farkhanda Manzoor Dugal
13:00-13:20	Questions, Discussions and closing remarks by moderator	Prof. Masoom Yasinzai

WEBINAR II

May 04, 2021, Tuesday

Pandemics Preparedness, One Health: Lessons Learnt

10:00 to 13:00 (PST)

Moderator: Prof. M. Ali (VC-QAU) TBC

10:00 - 10:10	Proceedings of Webinar I	Prof. Zabta K. Shinwari
10:10 - 10:25	Current situation of COVID-19 in Japan	Prof. Nariyoshi Shinomi, Japan
10:25 - 10:40	Biosecurity & neglected aspects of pandemics in Pakistan	Prof. Zabta K. Shinwari
10:40 - 10:50	Design of a Novel Multi Epitope-Based Vaccine for Pandemic Coronavirus Disease (COVID-19) by Vaccinomics and Probable Prevention Strategy against Avenging Zoonotics	Dr. Sikander Azam
10:50 - 11:00	Nanotechnologies for COVID-19 Theranostics	Dr. Mohammad Ovais
11:00 - 11:10	Development of biodegradable surgical facemask made of marine algae to confront COVID-19 pandemic challenges.	Hira Rafi
11:10 - 11:20	The Role of Social Finance in Achieving the Objectives of Sustainable Development Goals	Prof. Mehmet Bulut, Turkish Science Academy (TUBA) Istanbul Sabahattin Zaim University, Turkey
11:20-11:50	Speakers Bangladesh/India/Srilanka	TBC
11:20-12:00	Questions and Discussions	
12:00-12:15	Key note address Pandemics in Pakistan: Lessons learnt (Title TBC)	Maj. Gen. Aamer Ikram
12:15-12:35	New presentors (TBC)	
12:35-12:45	Speaker from Indonesia TBC	
12:45-13:00	Questions and concluding remarks by Moderator	

WEBINAR III/HYBRID WORKSHOP

May 25, 2021, Tuesday

TECHNICAL SESSION I

How to counter Infodemics: Role of Scientists & Role of Complementary medicine in Pandemics

10:00 to 13:00 (PST)

Moderator: Maj. Gen. Aamer Ikram (TBC)

09:30 – 11:00		
09:30 – 10:00	Registration and Proceedings of Webinar I & II	
10:00 - 10:10	Plant Biotechnology; an Important Avenue for Medicine during Pandemics	Dr. Tariq Khan
10:10- 10:20	Understanding COVID-19 Pandemic concerning Anti-scientific and Pseudoscientific World Views	Dr. Mubarak Ali Khan
10:20 - 10:30	The Effective role of the Scientists to counter the Infodemics	Dr. Muhammad Ishtiaq Ali
10:30 - 10:40	<i>In Ovo</i> Antiviral Testing of Cholistani Plants Against Swine Influenza Virus and Confirmation through Real-Time PCR	Dr. Mirza Imran Shahzad
10:40 - 10:50	Public Awareness and Management of COVID-19 by Medicinal Herbs Grown in Bhimber, AJK	Dr. Tanveer Hussain
10:50 - 11:00	Practices of Complementary & Alternative Medicines in COVID-19 Pandemic	Dr. Adeela Rehman

Poster Session: 11:00 - 13:00

13:00 - 14:00 Lunch & Prayer Break

TECHNICAL SESSION II

Diagnosis, Critical Care; Vaccines and Herd Immunity

14:00 to 15:30 (PST)

Moderator: Prof. Dr. Zabta Khan Shinwari

14:00-14:10	Ice-breaking, Introduction of Theme and Participants <i>Prof. Zabta K. Shinwari</i>
14:10-14:25	Vaccination Strategy of Pakistan: Challenges <i>Prof. Dr. Atta-ur Rehman, FRS, Chairman Task Force on Covid 19</i>
14:25-14:35	COVID-19 and priorities for research & development: findings from a PAS Round Table <i>Prof. Zulfiqar Bhutta; Founding Director, IGHD-AKU</i>
14:35-14:50	Building the Global Vaccine Manufacturing capacity needed to Respond to Pandemics <i>Prof. Nancy Connell, Johns Hopkins Center for Health Security, USA</i>
14:50-15:00	Vaccine <i>Maj. Gen. Aamer Ikram, NIH-Pakistan</i>
15:00-15:30	Questions; Discussions and way forward

CONCLUDING SESSION

15:30 – 17:30

Chief Guest: H.E. Asad Umar (Minister TBC)

Recommendations and Conclusions

Speakers:

- Prof. Khalid Mahmood Khan
- Prof. Yoo Hang Kim (President AASSA)
- Prof. Tasawar Hayat
- Prof. Dato Dr. Khairul Anuar Bin Abdullah
- Maj. Gen. Aamer Ikram
- Prof. Zabta Khan Shinwari

Certificate and Shield Distribution

Special AASSA President Prize for the Best Poster