



**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 14<sup>th</sup> 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: SDGs and Pandemics**

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

### **Webinar II: Pandemics Preparedness, One Health: Lessons Learnt**

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

### **Webinar III or 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: ----- (Naseer will provide link)

Details of the meeting link (Zoom) will follow in due course upon the registration.

Any further inquiries about the Webinar address to ----- (Z.K. Shinwari/ Irum/Noman)



	environment, ethics, and psychology on the global stage	
<b>12:30 - 12:40</b>	Alternative Therapies for Pandemic Diseases using Herbal Drinks	Prof. Dr. Mushtaq Ahmad
<b>12:40 - 12:50</b>	Artificial Intelligence and Predictive Survival Analysis for Covid-19	Engr. Dr. Farhan Khan
<b>12:50 - 13:00</b>	Development of an Assessment Method for Investigating the Impact of Climate of Lahore on Confirmed Cases of COVID-19	Prof. Dr. Farkhanda Manzoor Dugal
<b>13:00-13:20</b>	Questions, Discussions and closing remarks by moderator	Prof. Masoom Yasinzai

## WEBINAR II

### Pandemics Preparedness, One Health: Lessons Learnt

May 04, 2021, Tuesday

10:00 to 13:00 (PST)

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

<b>10:00 - 10:10</b>	<b>Proceedings of Webinar I</b>	Prof. Zabta K. Shinwari
<b>10:10 - 10:25</b>	Current situation of COVID-19 in Japan	Prof. Nariyoshi Shinomi, Japan
<b>10:25 - 10:40</b>	Biosecurity & neglected aspects of pandemics in Pakistan	Prof. Zabta K. Shinwari
<b>10:40 - 10:50</b>	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
<b>10:50 - 11:00</b>	Nanotechnologies for COVID-19 Theranostics	Dr. Mohammad Ovais

<b>11:00 - 11:10</b>	Development of biodegradable surgical facemask made of marine algae to confront COVID-19 pandemic challenges.	Hira Rafi
<b>11:10 - 11:20</b>	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
<b>11:20-11:50</b>	Speakers Bangladesh/India/Srilanka	TBC
<b>11:20-12:00</b>	Questions and Discussions	
<b>12:00-12:15</b>	Key note address Pandemics in Pakistan: Lessons learnt (Title TBC)	Gen. Aamer Ikram
<b>12:15-12:35</b>	New presentors (TBC)	
<b>12:35-12:45</b>	Speaker from Indonesia TBC	
<b>12:45-13:00</b>	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)**

**Chair: Gen. Aamer Ikram (TBC)**

<b>09:30 – 11:00</b>		
<b>09:30 – 10:00</b>	Registration and Proceedings of Webinar I & II	
<b>10:00 - 10:10</b>	Plant Biotechnology; an Important Avenue for Medicine during Pandemics	Dr. Tariq Khan
<b>10:10- 10:20</b>	Understanding COVID-19 Pandemic concerning Anti-scientific and Pseudoscientific World Views	Dr. Mubarak Ali Khan
<b>10:20 - 10:30</b>	The Effective role of the Scientists to counter the Infodemics	Dr. Muhammad Ishtiaq Ali

<b>10:30 - 10:40</b>	<i>In Ovo</i> Antiviral Testing of Cholistani Plants Against Swine Influenza Virus and Confirmation through Real-Time PCR	Dr. Mirza Imran Shahzad
<b>10:40 - 10:50</b>	Public Awareness and Management of COVID-19 by Medicinal Herbs Grown in Bhimber, AJK	Dr. Tanveer Hussain
<b>10:50 - 11:00</b>	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**

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