



REPORT

International Immunology Day – 2022

A One-day Online Symposium on Vaccines

[A One-day Online Symposium was organized by the Postgraduate Department of Zoology in association with the Indian Immunology Society, New Delhi to spread awareness about Immunity and infection, vaccines, different aspects of vaccine development and significance in this COVID 19 pandemic]

Date: 29 April 2022

Time: 10:30 Am – 03:30 PM

Swami Sahajanand College, Jehanabad

A constituent unit of Magadh University, Bodh Gaya

NAAC Accredited Grade 'B'

Jehanabad – 804417

International Immunology Day – 2022

A One-day Symposium on “Vaccines”

29 April 2022

Postgraduate Department of Zoology, Swami Sahajanand College, Jehanabad in association with the Indian Immunology Society, New Delhi celebrated the International Immunology Day – 2022 on 29 April 2022 by organizing a One-day Online Symposium. The theme of the symposium was “Vaccines” as decided by the International Union of Immunology Society (IUIS) for this year. This symposium proved to be a unique opportunity to increase the awareness among the college students about immunology and immune responses in different pathologies like infection, malignancies, autoimmunity, etc. As the theme of the symposium is vaccines, participants learned about the vaccines, their types and mechanism of action, and recent trends in vaccine development. About 85 UG and PG students of this department and three other colleges of Jehanabad where UG courses are being conducted in the Science stream namely Satyendra Narayan Sinha College, Teni Bigha, Jehanabad, Shri Krishna Mahila College, Main Road, Jehanabad, and Jehanabad. College, Arwal More, Jehanabad participated in this symposium. Eminent speakers comprising faculties and physicians from Magadh University, Bodh Gaya, AIIMS, Ruban Hospital, Patna were invited to deliver the lecture and to encourage all the participants to study such fascinating subjects. Prof. (Dr.) Arun Kumar, President, Science for Society, Bihar was invited as the distinguished speaker at the event.

The program started with the welcome address by the Convener Mr. Praveen Deepak, Assistant Professor, Post Graduate Department of Zoology, Swami Sahajanand College, Jehanabad, and the introduction of the symposium theme to the participants. In his introductory remarks, he discussed the brief aspects of infection and immunity, and the importance of vaccines in fighting against infectious

diseases, particularly, how important vaccines are in this COVID 19 pandemic times. He then invited the Principal, Swami Sahajanand College, Jehanabad, Prof. (Dr.) Sudhir Kumar Mishra for the welcome address on behalf of the College.

Principal Prof. (Dr.) Sudhir Kumar Mishra welcomed the eminent speakers of the symposium and all the participants for their active participation. He praised the students for their overwhelming participation. He later explained the significance of vaccines in curbing various diseases and how they helped mankind in getting rid of fear and suffering and elevate the lives of individuals suffering from infectious agents, whether it is cholera, typhoid, pertussis, rabies, rotavirus, measles, or polio. He further asserted that everyone should be aware of the Universal Immunization Program (UIP) run by the Government of India for healthy mothers and children and spread awareness thereof to the deep of the society. Finally, he congratulated and also praised the Department of Zoology for organizing such a Symposium in the College.

Next in the program, Convener invited Dr. Vinod Kumar Roy, Coordinator, IQAC, and Assistant Professor, Department of Sanskrit, Swami Sahajanand College, Jehanabad to take forward the program. Dr. Vinod Kumar Roy first of all welcomed the Guest on behalf of the IQAC and played pre-recorded Kulgeet on this occasion before the formal start of the session. Then Convener formally started the technical session by inviting the Distinguished speaker of the symposium Prof. (Rtd.) Dr. Arun Kumar, President, Science for Society, Bihar for his inaugural lecture.

Prof. (Rtd.) Dr. Arun Kumar congratulated the organizer for organizing the seminar on Vaccines for college students on the occasion of International Immunology Day before starting the lecture. He delivered a very informative and comprehensive lecture on the topic 'Discovery and Development of Vaccines' through PPT. He began his lecture by addressing the students on the basics of vaccines, such as what is a vaccine, and what is the importance of a vaccine, and discussed many historical aspects of the vaccine in detail. He explained how the development of the vaccine started by Jenner accidentally from an observation of a family of a cow herder in the United Kingdom protected from smallpox because they inoculated a scratch of cowpox pustules on the bruises made to his family members. He later described a series of vaccine developmental timelines and the researchers who

contributed to the development of different types of vaccines. He further described the history of development as well as the various immunization programs with timelines carried out in India. Along with this, he also answered many questions of students related to vaccines and vaccination during Covid 19.

Thereafter, Dr. Birendra Kumar, University Department of Biotechnology, Magadh University, Bodh Gaya, Bihar delivered his presentation on the topic “Recombinant vaccines”. Dr. Kumar explained the mechanism of the development of recombinant vaccines in a very simple way. In addition, he clearly explained to the students the mechanism of the immune response against the virus and the mechanism of action of the vaccines in immunized/vaccinated individuals and also answered their queries.

Next, Dr. Kumar Lav Kush Tarun, University Department of Biotechnology has delivered a comprehensive lecture on the topic “How do we survive? An immunological Perspective”. With his presentation, he beautifully explained with a neat diagram and cartoon the concept of immunology, components of the immune system, the mechanism of different types of immune responses in infection, and other immunopathology. He further described the development and types of vaccines briefly and gave answers to the queries of students.

Thereafter, Convener Mr. Praveen Deepak, Assistant Professor, Swami Sahajanand College, Jehanabad addressed students and delivered a presentation on “Emergence of viral zoonoses and emerging health challenges” in place of Dr. Chaitanya Prakash, Ruban Hospital, Patna. Dr. Prakash couldn't join the symposium due to his ill health. Mr. Praveen Deepak has presented a detailed account of zoonoses and the emergence of viral zoonoses as well as the mechanism of immune response generated against the viruses in the host. The next speaker Dr. Ashish Bansal joined the symposium on time, and therefore Convener handed over the session to him by inviting him to the session.

Dr. Akash Bansal gave a comprehensive yet lucid lecture on the topic “Types of vaccines”. Dr. Bansal explained the detailed accounts of types of vaccines with suitable example and their advantages and disadvantages with a simple approach from live attenuated vaccines to present-day sub-unit vaccines, DNA vaccines, and RNA vaccines. Students enjoyed his lecture to the end and put forwarded their queries with zeal. Dr. Bansal answered all the queries in a very simple way.

The symposium was then concluded by giving the vote of thanks by Dr. Vinod Kumar Roy, Coordinator, IQAC, Swami Sahajanand College, Jehanabad, and finally with the playing of Rashtragan.

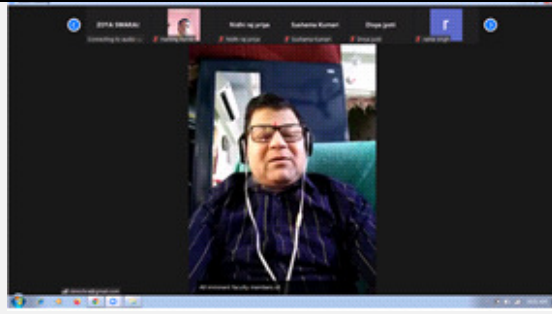
The outcome of the symposium

Symposium organized on the theme “Vaccines” led a huge impact on the UG and PG students who participated in the symposium. They listened to the whole session with curiosity and engaged with each speaker with his/her queries with zeal. Faculties of the college and other participating colleges sent very good remarks to the organizers and praised the Post Graduate Department of Zoology, Swami Sahajanand College, Jehanabad for organizing the symposium on “Vaccines”. In a nutshell, the symposium successfully reached the participants with its objective and disseminate knowledge about immunology, immunity and infection, vaccines, the composition of vaccines, history of the development of vaccines, types of vaccines, and recent trends in vaccines development.

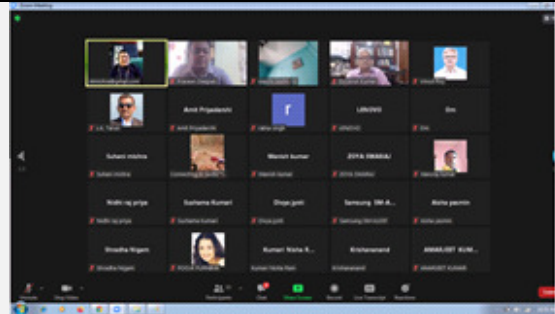
Organizer

Praveen Deepak
Assistant Professor in Zoology
Swami Sahajanand College
Jehanabad

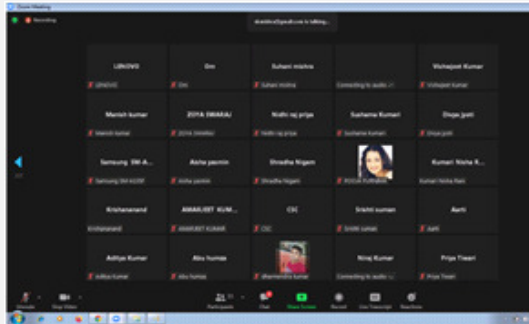
Few Snaps of the Symposium Proceedings



Principal Prof. (Dr.) Sudhir Kumar Mishra addressing the symposium



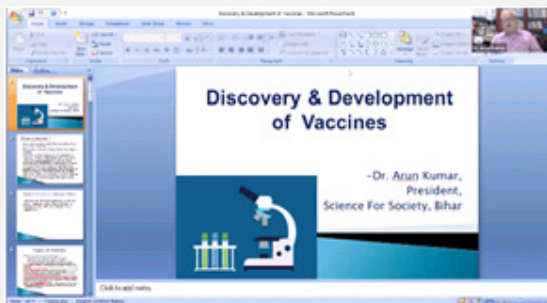
Participants joined the online symposium on Vaccine



Participants joined the online symposium on Vaccine



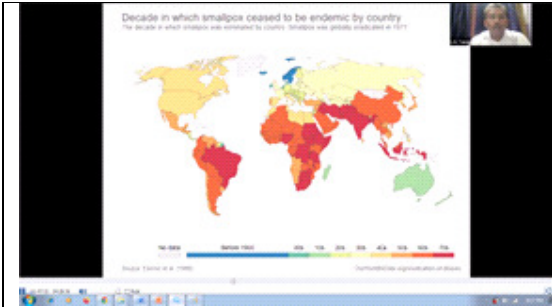
Dr. Arun Kumar, President, Science for Society, Bihar delivering the lecture



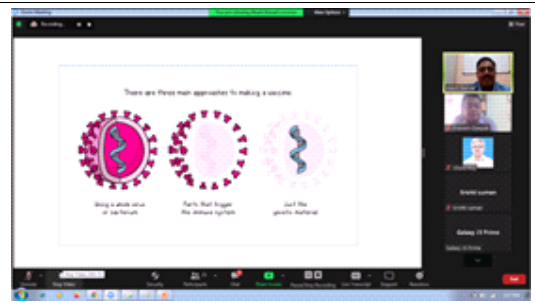
One of the slide of Dr. Arun Kumar, President, Science for Society, Bihar



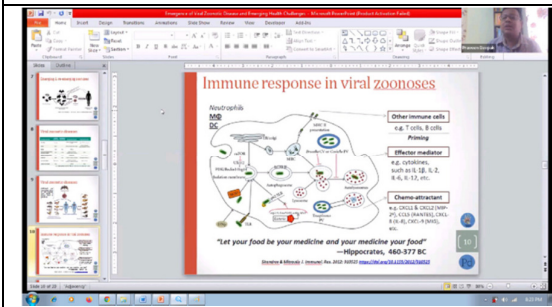
Dr. Birendra Kumar, Assistant Professor, University Department of Biotechnology, Magadh University, Both Gaya delivering his lecture



Dr. Kumar Lav Kush Tarun, Assistant Professor, Department of Biotechnology, Magadh University, Bodh Gaya delivering the lecture



One of the slides of Dr. Kumar Lav Kush Tarun, Assistant Professor, Department of Biotechnology, Magadh University, Bodh Gaya



Convener of the symposium Praveen Deepak, Assistant Professor, P.G. Department of Zoology, Swami Sahajanand, Jehanabad delivering the lecture

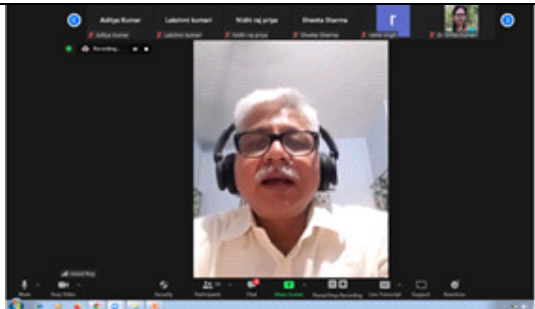
TYPES OF VACCINES & RECENT ADVANCES

Dr. Akash Bansal
Associate Professor
Department of Biochemistry
AIIMS, Patna

Dr. Akash Bansal, Associate Professor, Department of Biochemistry, All India Institute of Medical Sciences, Patna, Bihar delivering the lecture

Common agents used for passive immunization	
Disease	Agent
Diphtheria	Horse antitoxin
Tetanus	Horse antitoxin
Measles	Pooled human immunoglobulin or horse antitoxin
Rabies	Human or horse polyclonal Ab
Hepatitis A and B	Pooled human immunoglobulin

Dr. Akash Bansal, Associate Professor, Department of Biochemistry, AIIMS, Patna, Bihar delivering the lecture



Dr. Vindo Kumar Roay, Coordinator, IQAC, Swami Sahajanand College, Jehanabad giving vote of thanks

Some graphics of the symposium for wide circulation

International Immunology Day - 2022

PG Department of Zoology, Swami Sahajanand College, Jehanabad

in association with
Indian Immunology Society, New Delhi
welcome you in

A One-day Online Symposium on "Vaccines"

Date: 29 April (Friday) | Time: 10:30 AM

Google Meet

Sponsored by:
Indian Immunology Society, New Delhi

www.sscollegejehanabad.org

Banner of the symposium

INTERNATIONAL IMMUNOLOGY DAY - 2022

**Post Graduate Department of Zoology & IQAC
Swami Sahajanand College, Jehenabad**

in association with
Indian Immunology Society, New Delhi
presents

A One-day Online Symposium on "Vaggines"

Date: 29 April 2022 | Time: 10:30 AM
Register at <http://tiny.cc/sscollege-vaccine>

Guest Speakers:
Dr. Akash Bansal, AIIMS, Patna Dr. Chaitanya Prakash, Ruban Hospital, Patna
Dr. L. K. Tarun, MU, Bodh Gaya Dr. Amit Kumar, Mahaveer Cancer San, Patna
Prof. (Rtd) Arun Kumar, President, Science for Society, Bihar & more

Scan to register

Sponsored by: **Indian Immunology Society, New Delhi**

Circulation of Graphics for Registration to the symposium

INTERNATIONAL IMMUNOLOGY DAY - 2022

Post Graduate Department of Zoology, Swami Sahajanand College, Jehenabad



दीव्यते ज्ञानस्योत्पत्तिर्जायते

in association with



Indian Immunology Society, New Delhi

presents

A One-day Online Symposium on "Vaccines"

Date: 29 April 2022 | Time: 10:30 AM
Google meet: <https://meet.google.com/ghu-tioc-aob>

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& more

Sponsored by: Indian Immunology Society, New Delhi

Circulation of Graphics for meeting link to the symposium*

* Due to some technical error, meeting for the symposium had been organized on Zoom Video Conference meeting

Invitation

PG Department of Zoology & IQAC,
Swami Sahajanand College,
Jehanabad



in association with

Indian Immunology Society,
New Delhi

cordially invite you in a One-day

Online Symposium on "Vaccines"

on the occasion of

INTERNATIONAL IMMUNOLOGY DAY – 2022

on

Date: 29 April 2022 | Time: 10:30 AM

Register @ <http://tiny.cc/sscollege-vaccine>

INTERNATIONAL IMMUNOLOGY DAY – 2022

Online Symposium on "Vaccines"

on

Date: 29 April 2022 | Time: 10:30 AM

Program Schedule

10:30 AM *Welcome & Introduction to the Symposium*

10:40 AM *Kul-Geet*

10:45 AM *Welcome address by the Principal*

Technical Session

11:00 AM Prof. (Rtd.) Arun Kumar, President, Science for Society Bihar, Patna
Discovery and development of vaccines

11:45 AM Dr. L. K. Tarun, Department of Biotechnology, MU, Bodh Gaya
An immunological perspective

12:30 PM Dr. Chaitanya Prakash, Ruban Hospital, Patna

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01:15 PM Dr. Birendra Kumar, Department of Biotechnology, MU, Bodh Gaya

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02:00 PM Dr. Akash Bansal, Department of Biochemistry, AIIMS, Patna
Types of vaccines and their present status

02:45 PM Dr. Amit Kumar, Mahaveer Cancer Sansthan, Patna
Vaccines, its importance in disease prevention and safety measures

03:30 AM *Vote of Thanks*

03:35 AM *Rashtragan*

Meeting link



<https://tinyurl.com/zoom-ssc>

(Meeting ID: 892 5759 2489 & Passcode: 0000-0000)





S. S. COLLEGE, JEHANABAD
A Constituent unit of Magadh University, Bodh Gaya
NAAC Accredited Grade "B"