

Shri Shivaji Shikshan Prasarak Mandal

Karmveer Dr. Mamasahab Jagadale established Shri Shivaji Shikshan Prasarak Mandal and vocational education up to university level in 1934. The institution aims at imparting liberal and vocational education in social, cultural, agricultural, scientific, commercial and industrial education to the rising generation of India, especially from rural area. The sanstha efficiently runs many primary and pre-primary schools, high schools, colleges, including boardings. Sanstha has its very own, well equipped "Jagdale Mama Hospital" that serves people from various surrounding districts. During COVID-19 pandemic, hospital extended its services through "Covid Dedicated Center" for patients from nearby Bhoom, Beed, Latur, Osmanabad regions. Hospital's new "Trauma Unit" has started to offer its services to needy people.

Shri Shivaji Mahavidyalaya

Shri Shivaji Mahavidyalaya, Barshi (Est. 1960) is one of the leading colleges in Maharashtra. It is affiliated to Punyashlok Aahilyadevi Holkar, Solapur University, Solapur. The college, right from its inception has shown academic excellence and students have won meritorious awards and have maintained top ranks in the university examinations as well as in extra-curricular activities. Shri Shivaji Mahavidyalaya, Barshi is a full-fledged Arts and Science college having numerous UG, PG departments and highly equipped Research Centers. Highly qualified and experienced teachers along with their teaching duties are actively engaged in research. College receives funding through various national funding agencies like UGC, DBT, DST etc. It is evident by many completed and ongoing research projects. Some major achievements have highlighted here:

- In 2013, Government of India and Maharashtra State Government have approved community college to our college.
- During 2017, National Institutional Ranking Framework has placed our college in '100-150' rank band.
- In 2018, Punyashlok Aahilyadevi Holkar, Solapur University, Solapur awarded college with "Best College" award.
- In May, 2019 NAAC Bangalore has re-accredited (3rd Cycle) college with 'A' Grade (CGPA 3.14).
- College has been awarded with STAR status in 2020 by Department of Science & Technology, New Delhi.

Seminar Theme

The COVID-19 pandemic has highlighted the importance of the Microbial Sciences to the entire world. Covid-19 - "This is fundamentally a microbial problem". COVID-19 has increased public interest in the microbial sciences, and scientists have become public figures with the responsibility to communicate scientific findings and knowledge. Many unusual things have become "New Normal" for us. We have now got used to never heard words like Mask, Sanitizers, Social distancing, quarantine, RT-PCR etc.

During this tough time microbial sciences has gone through many innovations. Scientist world over have conducted the critical research to identify the infectious agent, study their reproduction and biology, develop and test vaccines and antimicrobial drugs, making them available to the broader medical community for treatment and prevention. This seminar is a small attempt to highlight some of the innovations in microbial sciences during this COVID-19 pandemic

- Areas to be covered -
- Medical Virology
- Medical Microbiology
- Molecular Microbiology
- Biotechnology
- Biostatistics & Bioinformatics
- Developmental Microbiology
- Biophysics & Bioinstrumentation



Shri Shivaji Shikshan Prasarak Mandal, Barshi's
PG Department of Microbiology & Research center,
DBT STAR College Scheme,
Internal Quality Assurance Cell (IQAC)
Shri Shivaji Mahavidyalaya, Barshi



Organizes
Online National Level Seminar

On

**"INNOVATIONS IN MICROBIAL SCIENCES IN
THE ERA OF COVID -19 PANDEMIC"**

In Association with

Punyashlok Aahilyadevi Holkar, Solapur University, Solapur

7th & 8th February, 2022

**I/C Principal
Dr. Bharti D. Revadkar**

Day 1 [7/2/2022]

- **Inaugural Session**
10:30-11:00am

• **Keynote Address - 11:00-12:30pm**
Prof. Kharat A. S.
School of life sciences,
JNU, New Delhi 110067

• **Technical Session I - 1:00-2:30pm**
Dr. Bhagwat P. K.
Post-doctoral Researcher
Department of Biotechnology & Food Science,
Durban University of Technology,
Durban 4001, South Africa.

• **Technical Session II - 3:30-5:00pm**
Mr. Chandwad Chandrasen
Head
Research & Development- Enzyme
Shilpa Medicare Ltd. Raichur, Karnataka 584102

Day 2 [8/2/2022]

- **Technical Session III - 11:00-12:30pm**

Mr. Kadam N. S.
Analyst
Central Instrumentation Facility Center,
Savitribai Phule University,
Pune 411007

- **Technical Session IV - 1:00-2:30pm**

Dr. Chobe S. V.
Assistant Professor
Swami Vivekananda Yoga Anusandhan Sanstha
University,
560105, Bangalore.

- **Valedictory & Vote of Thanks - 3:30-4:00pm**

Patrons

- ☑ **Chief Patron -**
 - **Dr. Yadav B. Y.** - President
Shri Shivaji Shikshan Prasarak Mandal, Barshi
- ☑ **Patrons -**
 - **Shri. Jagdale N. N.** - Vice President
Shri Shivaji Shikshan Prasarak Mandal, Barshi
 - **Shri. Patil P. T.** - General Secretary
Shri Shivaji Shikshan Prasarak Mandal, Barshi
 - **Shri. Debadwar A. P.** - Joint Secretary
Shri Shivaji Shikshan Prasarak Mandal, Barshi
 - **Shri. Shitole J. C.** - Treasurer
Shri Shivaji Shikshan Prasarak Mandal, Barshi
- ☑ **Director -**
 - **Dr. Bharti D. Revadkar**
I/C Principal
Shri Shivaji Mahavidyalaya, Barshi.
- ☑ **Convener -**
 - **Smt. Lokhande S. R.**
HOD, Dept. of Microbiology,
Shri Shivaji Mahavidyalaya, Barshi.
- ☑ **Organizing Secretary -**
 - **Shri. Mane D. B.**
Associate Professor
Dept. of Microbiology, Shri Shivaji Mahavidyalaya, Barshi.

Advisory & Organizing Committee

- **Dr. Pawar S. D.** - Coordinator, IQAC
Shri Shivaji Mahavidyalaya, Barshi.
- **Dr. Gurame V. M.** - Coordinator, DBT STAR College Scheme,
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- **Shri. Bhise D. S.**
Asst. Prof., Dept. of Botany, Shri Shivaji Mahavidyalaya, Barshi
- **Dr. Jalkute C. B.**
Asst. Prof., Dept. of Microbiology, Shri Shivaji Mahavidyalaya, Barshi
- **Dr. Shelke R. R.**
Asst. Prof., Dept. of Microbiology, Shri Shivaji Mahavidyalaya, Barshi
- **Shri. Sathe U. M.**
Asst. Prof., Dept. of Microbiology, Shri Shivaji Mahavidyalaya, Barshi

Registration Details

- **Registration Link -**
https://docs.google.com/forms/d/e/1FAIpQLSiOLaGffFDY70rOK4PmC6xWt48TXLL5qla3gKceOMy7f8O/viewform?usp=sf_link
- ***No registration fee***
- **Online Platform - Zoom**
- **Programme Link -**
<https://us2web.zoom.us/j/9757786217?pwd=cUZlZmc0RTBBME1lRFBYb0c5N2t0T09>

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REPORT

Key note address speaker Prof. Dr. Arun Kharat, JNU Delhi spoke about journey of Covid-19 from China to India. He focused on statistical analysis of Covid-19 with reference to age geographical features, genetic make-up and vaccine development strategy. He also mentioned about polymicrobial saga, coinfection diagnosis and management.

In 1st technical session Dr. Prashant Bhagwat from Durban University of Technology, South Africa, illustrated significance of peptides and peptidomimetics in the treatment of Corona. He shared his ideas about use of fish waste for production of collagen protein which may be used for wound healing, liver cirrhosis and as antioxidants. At the end Dr. Bhagwat guided students about different opportunities and fellowships for abroad research.

In 2nd session Mr. Chandrasen Chanwad, who is alumini of our college and currently working as Head of Research and Development, Shilpa Medicare Ltd. Raichur, Karnataka. He expressed innovative research work on drug designing and discovery. He highlighted the use of recombinant DNA technology for drug development.

In 3rd session Dr. Shivaji Chobe, Assistant Professor, Swami Vivekananda Yoga Anusandhan Sanstha, University Bangalore emphasized his views on Yoga and Ayurveda in Covid-19 pandemic management. He defined total health in one sanskurt shloka समदोषः समाग्निश्च, समधातु मलक्रियः। प्रसन्नात्मेन्द्रिय मनः, स्वस्थ इत्यभिधीयते।।

In his speech he explained role of AYUSH. He told the importance of life style to boost immunity which include यम, नियम, आसन, प्राणायाम, प्रत्याहार, धारणा, ध्यान और समाधि।

In Ayurveda 80% of antimicrobial, anticancer, immunosuppressive and cardiovascular drugs are derived from plants. Herbal medicines produced in India have higher demand in International market.

In 4th and last session of seminar, Mr. Nitin Kadam who is working as analyst at Central Facility Center of Savitribai Phule Pune University, Pune illustrated role of Biophysics and

Bioinstrumentation in life Sciences. He focused on use of advanced chromatography and mass spectrometry in Covid-19 antigen rapid diagnosis test. He also explained use of instruments in separation of antibiotics, peptides and peptidomimetics which are used for treatment of Corona.

During these two days of Seminar, knowledge shared by experts will help in further understanding and effective management of disease. It could be also used in new technology development and improving overall quality of life. Microbiologists can play crucial role in establishing viral testing laboratories, conductance of PCR, specimen collection, handling and transportation. They can assist in development and production of Covid-19 vaccine and antiviral therapies. Microbiologists can contribute in research with respect to diagnosis, prevention and control.

In spite of performing versatile duties, many microbiologists are dumping their innovative thoughts and ideas due to lack of motivations. Currently the whole world is looking at microbiologists as a ray of hope in further understanding the virus properties and treatment for the same. A microbiologist can propagate research in sound direction by nurturing research ideas, if the government as well as private sectors nurture them with possible funding.

Translational research, teaching programmes need to be available to generate a young and well-trained scientific work-force with an integrated understanding on Covid-19 pandemic.

Perspective of microbiologist can help quashing the pandemic and boost Covid-19 research in India. The Covid-19 pandemic has understood the importance of microbiology to combat current and future pandemics.

For different lecture 100 Participants were present

Thank you!



Shri. Mane D. B.
Organizing Secretary



Mrs. Suman Jadhav Lokhande
Convener
HEAD
Microbiology Department & Research Centre
Shri Shivaji Mahavidyalaya, Barshi- 413411



Prof. Dr. Bharati Revdkar
(Principal)
Vc. PRINCIPAL
Shri Shivaji Mahavidyalaya, B.