



**SONOPANT DANDEKAR SHIKSHAN MANDALI'S
SONOPANT DANDEKAR ART'S, V.S. APTE COMMERCE AND
M.H. MEHTA SCIENCE COLLEGE, PALGHAR
INTERNAL QUALITY ASSURANCE CELL (IQAC)**

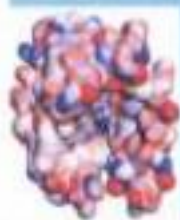
**AND
SHRI. DAHYABHAI AMRITALAL SHAH INSTITUTE OF BIOTECHNOLOGY**

**Jointly organizes
Interdisciplinary Online Workshop On**

**Bioinformatics:
A Tool in Drug Designing and its Role in
Research Methodology**

Guest Speaker

**Dr. Afaque Momin,
Post Doctoral Research Fellow,
KAUST University, Saudi Arabia**



Schedule for the Workshop

Day 1: January 7th, 2022

- Introduction to Bioinformatics
- Drug Design Process
- Theory- DGIdb
- Practical 1- How to work with the DGIdb tool?- LIVE

Day 2: January 8th, 2022

- Theory-ProBis
- Practical 2-ProBis: How to work with the tool-LIVE

**Dr. Shilpa M.Gharat
Head, Dept of Biotechnology and
Convener**

Day 3: January 14th, 2022

- Theory-MultiBind
- Practical 3-MultiBind: How to work with the tool-LIVE

Day 4: January 15th, 2022

- Theory- AutoDock
- Example from Animals and Plants for docking molecules on proteins

**Asst.Prof.Mahesh Deshmukh
IQAC Co-Ordinator**

Day 5: January 21st, 2022

- Practical 4:How the software works? - Live

Day 6: January 22nd, 2022

- Conclusion - Doubts
- Manuscript Writing in Research
- What reviewers want from authors?

**Dr.Kiran Save
Principal**

CO- CONVENERS

- Asst Prof. Shailaja Palan
- Asst Prof. Ishwari Mehta
- Asst Prof. Shagufta Fazalbhoy
- Asst Prof. Ketaki Rahalkar

ORGANIZING COMMITTEE

- Asst Prof.Runali Raut
- Asst Prof.Apurva Save
- Asst Prof.Lisa Sam
- Asst Prof.Niyati Patil
- Asst Prof.Hardik Churi

CONTACT US

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- 9833825453
- 7972256886
- 9422021306

Who can attend the workshop?

Students of M.Sc Part II Biotechnology, Botany, Zoology, Maths, Chemistry, Physics

Registration is compulsory

Registration link: <https://forms.gle/x3QfEz2Mhh8s3rTQZ>

Certificates will be provided at the End of Workshop

Online on ZOOM meeting platform

Limited Seats -100 participants

Link and time for each day will be provided one day prior.

Aim: To organize Interdisciplinary online workshop on bioinformatics: a tool in drug designing and its role in research methodology with international guest speakers.

Objective:

1. The objective of the workshop is to highlight various applications in bioinformatics, which play crucial role in today's biological research.
2. Focus on recent development in the field of bioinformatics and its application in drug designing.
3. Live demonstration and hands-on practical of DGIdb tool, Multiband software, ProBis software, and molecular docking software.
4. Describe advanced bioinformatics programmes such as Drug Gene Interaction Database (DGIdb), Protein Binding Sites (ProBiS), and protein structure visualization software RasMol/Jmol and Computational protein-ligand docking using AutoDock.
5. Help students to understand various tools used in bioinformatics to study biological data such as genomic data, protein-sequence data and structural data of macromolecules.

Guest Speaker- Dr. Afaque Momin, KAUST University, Kingdom of Saudi Arabia.

Date of Workshop: 7th January 2022

8th January 2022

14th January 2022

15th January 2022

21st January 2022

22nd January 2022.



Sonopant Dandekar Shikshan Mandal's

**SONOPANT DANDEKAR ARTS, V. S. APTE COMMERCE
AND M. H. MEHTA SCIENCE COLLEGE**

Tal Palghar, Dist. Palghar, Pin - 401 404.

Code : (02525) 252163, Prin : 252317 • Resl : 252316

website : www.sdsmcollege.com • Email: sdsmcollege@yahoo.com
(NAAC Reaccredited 'B' Grade)

Ref. No. :

Date: 16/12/2021

To
Dr. Afaq Momim
Post Doctorate research fellow,
KAUST University, Saudi Arabia,

Sub: Invitation as a Guest Speaker for conducting Online
Interdisciplinary Workshop on "Bioinformatics –A
Research tool in Drug Designing and its role in Research
Methodology" organized by Sonopant Dandekar College,
Palghar

Respected Sir,

We are pleased to invite you as a Guest Speaker for conducting Online
Interdisciplinary Workshop on "Bioinformatics –A Research tool in Drug
Designing and its role in Research Methodology", organized by Shri
Dahyabhai Amritlal Shah Institute of Biotechnology, Sonopant Dandekar
College, Palghar.

We will be looking forward to your expertise, time and efforts in
contributing to this webinar.

Kindly confirm your availability.
Thanking you in anticipation.

Yours sincerely,

(Dr. K.J. Save)

Principal

Sonopant Dandekar Arts College
V. S. Apte Commerce College &
M. H. Mehta Science College,
PALGHAR (N.R.)
Dist. Palghar, Pin 401 404.

Department of Biotechnology

Event Report

Name of the Event – 6 Days Interdisciplinary Online Workshop on Bioinformatics - A tool in drug designing and its role in research methodology

Date – 07/01/2022, 08/01/2022, 14/01/2022, 15/01/2022, 21/01/2022 and 22/01/2022

Time – 3.30pm -5.30pm

Venue – Sonopant Dandekar College, Palghar

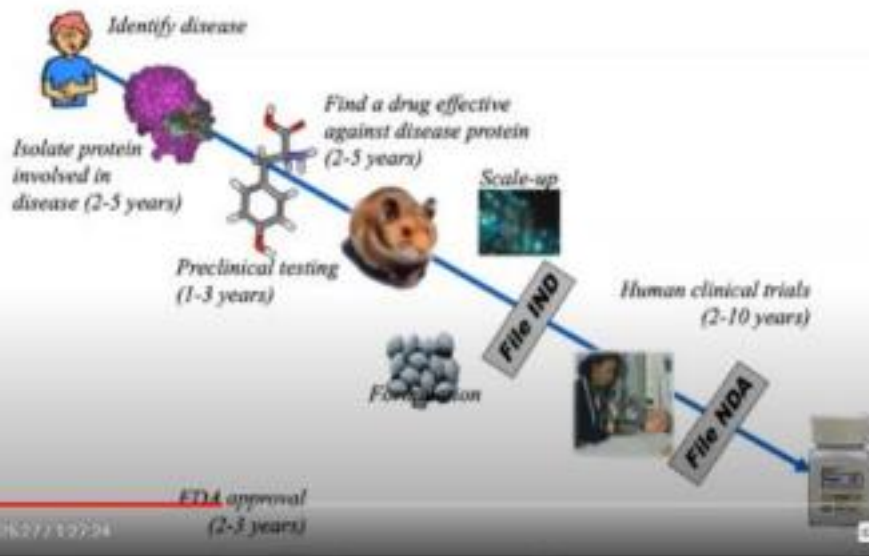
No. of participants: 100

About the Event- Shri Dahyabhai Amritlal Shah Institute of Biotechnology Organized a 6 days interdisciplinary 39 online workshop on “Bioinformatics- A Tool in Drug Designing and its Role in Research Methodology” in association with IQAC for students of M.Sc. Biotechnology, Botany, Zoology, Chemistry, Mathematics and Physics. Dr. Afaque Momin, KAUST University, Kingdom of Saudi Arabia was the Guest Speaker for this workshop. The speaker highlighted various applications in Bioinformatics, which play a crucial role in today's biological research. This workshop helped students understand various tools used in bioinformatics to study biological data such as genomic data, proteinsequence data, and structural data of macromolecules. This workshop provided an in-depth knowledge of advanced bioinformatics programs such as Drug Gene Interaction Database (DGldb), Protein Binding Sites (ProBiS), protein structure visualization software RasMol/Jmol, and Computational protein-ligand docking using AutoDock.



Dr. Shilpa Gharat,

Drug Discovery & Development



Query protein

PDB library

Local structural similarities

Transpose & cluster ligands

Protein ligands

Small molecule

Nucleic acid

Ion ligands

Full screen (f)

24:33 / 1:08:11





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**SONOPANT BANDEKAR ART'S, V.S. APTE COMMERCE AND
M.H. MENYA SCIENCE COLLEGE, PALGHAR**
INTERNATIONAL QUALITY ASSURANCE CELL (IQAC)

SHRI. KANTARAO GADGAL SHRI. DEVIYATI DE. BIRYOLINGANE
Organizers
Interdisciplinary Doctoral Study Group
State Association
**A Tool in Drug Designing and its Role in
Research Methodology**

Guest Speaker
Dr. Anupam Mishra,
Post Doctoral Research Fellow,
KAJIKT University, Saudi Arabia

ON
7th, 8th, 14th, 15th, 21st, 22nd January 2022



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Participants 100

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