



# SYMBIOSIS SCHOOL OF BIOLOGICAL SCIENCES

## Symbiosis International (Deemed University)

(Established under section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A++' Grade | Awarded Category - I by UGC

Founder: Prof. Dr. S. B. Mujumdar, M. Sc., Ph. D. (Awarded Padma Bhushan and Padma Shri by President of India)

### 7.2.1\_SSBS\_Best Practices 1\_2023-2024

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Director



SSBS

QIC Coordinator

## **7.2.1 Best Practices 1 (2023 – 2024)**

### **1. Title of the Practice: Finishing School**

### **2. Objectives of the Practice:**

- Equip students with the essential skills and knowledge required to secure and succeed in job opportunities across various industries.
- Ensure that students are prepared for the transition from academic life to the professional world by aligning their education with industry needs.
- Provide students with up-to-date information on job market trends, high-demand sectors, and emerging industries.

### **3. The Context:**

With rapid technological advancements and evolving industry requirements, there is an increasing need for students to be well-prepared for the job market. Many graduates face challenges in securing employment due to a lack of practical skills, industry knowledge, and professional preparedness. Universities have a responsibility to not only educate students academically but also to prepare them for successful careers by integrating finishing school concepts and job readiness into the curriculum.

### **4. The Practice:**

Lectures on finishing school and job opportunities are incorporated into the final year curriculum, covering topics such as resume writing, interview skills, networking, and workplace etiquette. Guest lectures and workshops are conducted by industry professionals, providing students with real-world insights and practical advice.

### **5. Evidence of Success:**

An increase in the number of graduates securing jobs after graduation, as evidenced by employment statistics. Students expressed high levels of satisfaction with the content and delivery of the lectures, as well as the perceived value in their job search efforts.

### **6. Problems Encountered and Resources Required:**

Ensuring that lecture content remains current with the fast-paced changes in job market trends and industry demands. Financial resources to support the organization of events.

## Finishing School Schedule for M.Sc (Biotechnology and Biochemistry, batch 2022-2024)

SSBS Finishing School Program for M.Sc (Biotechnology and Biochemistry, Batch 22-24)				
Speaker	Designation and Affiliation	Topic	Date	Time
Dr. Vinayak Brahmakshatriya	Scientist, Venkys, Pune	Navigating the Shift from Academia to Professional Life	02-Dec-23	9 am to 12 pm
Dr. Anil Raut	CEO, Algenomix, Pune	From Pipettes to Profits: Navigating Biotech Entrepreneurship	04-Dec-23	10 am to 11 am
Dr. Rewa Kohli	Head, Jehangir Centre for Learning, Pune	Career Opportunities in Clinical Research	04-Dec-23	2 pm to 3 pm
Mr. Madha K.P.	Science Communicator, Pune	Research and Communication - rectifying the lacunae in India	05-Dec-23	9.30 am to 11.30 am
Dr. Yashwant Chavan	Technical Director, geneOmnia Technologies Pvt Ltd., Pune	Entrepreneurial Aspects and Career Opportunities in Life Sciences and Healthcare Sector	05-Dec-23	2.30 pm to 3.30 pm
Dr. Srikant Pawar	MyLab Discovery Solutions Pvt. Ltd., Pune	Skill enhancement in the current era	05-Dec-23	3 pm to 4 pm

## Finishing School Schedule related Circular to students



Dr. Selvan Ravindran <selvan.ravindran@ssbs.edu.in>

### Finishing School Schedule for 22-24 Batch (Biotechnology and Biochemistry)

Dr. Selvan Ravindran <selvan.ravindran@ssbs.edu.in>  
To: batch22-24bt@ssbs.edu.in, batch22-24bc@ssbs.edu.in  
Cc: "Dr. Vinaykumar Rale" <director@ssbs.edu.in>, "Dr. Anuradha Vaidya" <dydirector@ssbs.edu.in>, faculty <faculty@ssbs.edu.in>, Anup Thakur <anup.thakur@ssbs.edu.in>, Kanchan Joshi <kanchan.joshi@ssbs.edu.in>, Priyanka Neal <priyanka.neal@ssbs.edu.in>, Priyanka Itape <priyanka.itape@ssbs.edu.in>

Fri, Dec 1, 2023 at 10:47 AM

Dear All,

Please find attached the schedule for finishing school from December 2, 2023, to December 6, 2023. Good opportunity for everyone to network with experts from different scientific backgrounds. Mandatory for all of you to attend. This event will take place in the third floor classroom.

Best

Dr. Selvan Ravindran

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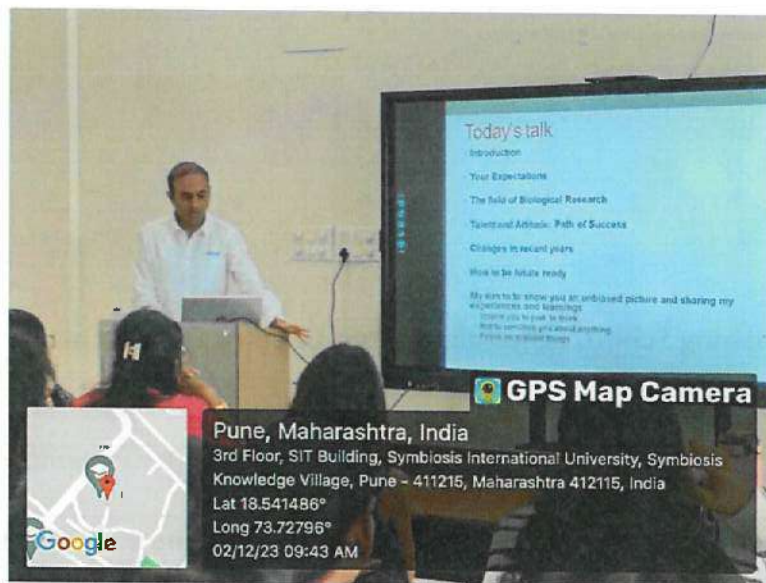
Finishing School Schedule for M.Sc (22-24 batch) 2 to 6 December 2023.pdf  
417K

## Industry Talks for M.Sc (Biotechnology and Biochemistry) (Batch 22-24)

**Dr. Vinayak Brahmashakti, Scientist from Venkys, Pune** gave a talk on  
“Navigating the shift from Academia to Personal Life”

Date: 2/December/23

Time: 9 am to 11 am



**Dr. Amol Raut, CEO from Airgenomix, Pune** gave a talk on  
“From Pipettes to Profits: Navigating Biotech Entrepreneurship”

Date: 4/December/23

Time: 10 am to 11 am



**Dr. Srikant Pawar, Scientist from Mylab discovery solutions pvt ltd, Pune gave a talk on “Skill enhancement in the current era”**

**Date: 5/December/23**

**Time: 3 pm to 4 pm**



**Dr. Yashwant Chavan, Technical Director from GenOm bio Technologies pvt ltd, Pune gave a talk on “Entrepreneurial aspects and career opportunities in life sciences and health care sector”**

**Date: 5/December/23**

**Time: 2.30 pm to 3.30 pm**





## 7.2.1 Best Practices 2 (2023 – 2024)

### 1. Title of the Practice: Journal Club Presentation

**2. Objectives of the Practice:** The principal aim of the Biocolloquium is to provide a suitable platform where recent and relevant scientific research papers, ongoing research work are presented by Ph.D. students to M.Sc. students and faculty members, are

- critically analyzed and discussed with regards to current research.
- improves the understanding of complex biological functions and
- foster an environment that encourages knowledge sharing and intellectual growth.

**3. The Context:** This format is an intensive participatory learning environment for the students who have a chance to raise questions, critically discuss the material, and learn both from their presenters and professors. The Ph.D. students will also be benefitting from it as explaining the literature of their field to the wider audience often enhances their own understanding of the material.

**4. The Practice:** The Biocolloquium usually takes place once a week. The Ph.D. students choose recent scientific publications which correspond to the research interests of the department and which are relevant to their own work. Presentation is followed by a interactive discussion and constructive feedback by faculty.

**5. Evidence of Success:** Students take a more active role in discussions, demonstrating increased critical thinking about scientific articles. students gain more significant confidence in their ability to present complex research ideas to an unfamiliar audience.

**6. Problems Encountered and Resources Required:** The research papers are complex at times to be grasped by M.Sc. students, especially when topics are outside their immediate field of study. Both the Ph.D. and M.Sc. students have very tight schedules, and finding a time that suits all them is quite difficult. Separate seminar hall, other than the classroom to accommodate all the students and faculty.

SSBS hosted regular journal club presentations. Every Saturday, Ph.D. students plan and coordinate the event. Junior research fellows delivered high-impact research pieces, followed by an intensive discussion. M.Sc students, JRFs, and faculty members attend the journal club presentation.

S. No	Name of the PhD student	Date	Topic
1	Godse Ravish	18-Nov-23	"Bifidobacteria metabolize lactulose to optimize gut metabolites and prevent systemic infection in patients with liver disease".
2	Vipul Wagh	25-Nov-23	"Identification of Potential Biomarkers and Their Correlation with Immune Infiltration Cells in Schizophrenia using Combinative Bioinformatics Strategy"
3	Prajakta Teli	02-Dec-23	"Priming mesenchymal stem cells with $\alpha$ -synuclein enhances neuroprotective properties through induction of autophagy in Parkinsonian models"
4	Dasharath Shinde	23-Dec-23	"Calcium Determines <i>Lactiplantibacillus planiarum</i> Intraspecies Competitive Fitness"
5	Kadam Komal Mohan	30-Dec-23	"Operation of a TCA cycle subnetwork in the mammalian nucleus"
6	Sukeshini Khandagale	06-Jan-24	"Gene Expression Signature Predicts Rate of Type 1 diabetes progression"
7	Isha Milind Behere	13-Jan-24	"Immunomodulatory potential of mesenchymal stromal cell-derived extracellular vesicles in chondrocyte inflammation".
8	Amrita C Bhagwat	20-Jan-24	"Antibiotics promote intestinal growth of carbapenem-resistant Enterobacteriaceae by enriching nutrients and depleting microbial metabolites"
9	Himal Sapkota	27-Jan-24	"Safety assessment of <i>Enterococcus faecalis</i> strains complemented with comparative genomics analysis reveals probiotic and safety characteristics of the entire species".
10	Nilima Bangar	03-Feb-24	"VDR Activation Attenuates Renal Tubular Epithelial Cell Ferroptosis by Regulating Nrf2/HO-1 Signaling Pathway in Diabetic Nephropathy"

S. No	Name of the PhD student	Date	Topic
11	Rucha Wagh	10-Feb-24	"Cord blood DNA methylation of immune and lipid metabolism genes is associated with maternal triglycerides and child adiposity"
12	Muskan Rajkumar Thakur	17-Feb-24	"Adiponectin receptor agonist ameliorates cardiac lipotoxicity via enhancing ceramide metabolism in type 2 diabetic mice."
13	Ujjayni Biswajeet Saha	24-Feb-24	"Gut colonisation with multidrug-resistant <i>Klebsiella pneumoniae</i> worsens <i>Pseudomonas aeruginosa</i> lung infection"
14	Dharitree Saunil	02-Mar-24	"Self-renewing human naive pluripotent stem cells dedifferentiate in 3D culture and form blastoids spontaneously"
15	Vinay Kamble	09-Mar-24	"A diagnostic model based on bioinformatics and machine learning to differentiate bipolar disorder from schizophrenia and major depressive disorder"
16	Taru Dixit	16-Mar-24	"Improving dexamethasone drug loading and efficacy in treating arthritis through a lipophilic prodrug entrapped into PLGA-PEG nanoparticles"
21	Pankhuri Bhutada	23-Mar-24	"A novel Fc-enhanced humanized monoclonal antibody targeting B7-H3 suppresses the growth of ESCC"
22	Sahara Sarang	30-Mar-24	"A microbial process for the production of benzyl acetate."
17	Vipul Wagh	06-Apr-24	"Identification of Potential Biomarkers and Their Correlation with Immune Infiltration Cells in Schizophrenia using Combinative Bioinformatics Strategy"
18	Anushree Nandan	13-Apr-24	"RNF2 inhibits E-Cadherin transcription to promote hepatocellular carcinoma metastasis via inducing histone mono-ubiquitination"
19	Anusha Baneerjee	27-Apr-24	"AZGP1 in POMC neurons modulates energy homeostasis and metabolism through leptin-mediated STAT3 phosphorylation"
20	Rupama Samaddar	04-May-24	"Caffeic Acid, a Polyphenolic Micronutrient Rescues Mice Brains against A $\beta$ -Induced Neurodegeneration and Memory Impairment"
21	Tiyasa Halder	11-May-24	"Gonococcal OMV-delivered PorB induces epithelial cell mitophagy"

The online link for the SSBS website that provides best practices is <https://www.ssbs.edu.in/best-practices>.

  
Director



  
QIC Coordinator

