



**SWAMI VIVEKANANDA UNIVERSITY,  
BARRACKPORE**

**SCHOOL OF  
LIFE SCIENCES**

**DEPARTMENT  
OF  
BIOTECHNOLOGY**

**ANNUAL NEWSLETTER  
2023**



SWAMI VIVEKANANDA UNIVERSITY,  
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## ABOUT THE DEPARTMENT

The Department of Biotechnology, part of the School of Life Sciences at Swami Vivekananda University, is dedicated to supporting a group of ambitious individuals on their journey to excellence, providing them with an ideal platform for self-redefinition. The department accommodates a diverse range of students, including postgraduates, undergraduates, and PhD scholars, in addition to academic staff that includes emerging researchers.

With a focus on achieving great heights, the department offers a highly specialized laboratory infrastructure that encompasses four labs specializing in Microbiology, Molecular Biology & Biochemistry, Plant Biotechnology, and Bioengineering. The library is stocked with a collection of well-informed books in relevant fields, creating a continuous space for students to explore the latest developments. The perfect blend of theoretical knowledge and practical application is facilitated through classes held in spacious classrooms and well-equipped labs. This setup provides students with an essential environment for experiential learning, personal development, and successful placement in reputable industries. The department places a strong emphasis on exposure through internships, hands-on training, and industry visits, ensuring a comprehensive educational experience for its students.



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# MISSION

Our mission lies in the translation of academic knowledge into practical application is a key focus, emphasizing outcome-based teaching approaches. Central to our educational philosophy is the establishment of a cooperative relationship between the industry and academia, fostering a dynamic exchange of ideas and experiences. Our commitment extends to conducting research that addresses local, national, and global challenges, ensuring that our academic endeavors have a meaningful impact on the broader community.

Furthermore, we are dedicated to developing graduate students who are not only well-versed in their academic disciplines but also equipped with robust analytical and leadership skills. Through this holistic approach, we aim to prepare our students to navigate and contribute effectively to the complex demands of their chosen fields, fostering a new generation of professionals capable of making significant and positive contributions to society.





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# VISION

In the Biotechnology department, our focus lies in seamlessly translating academic knowledge into practical applications. We employ outcome-based teaching methodologies to enhance the learning experience, ensuring that students acquire not only theoretical understanding but also practical skills. A key aspect of our approach involves establishing a cooperative relationship between the industry and academia, creating opportunities for students to engage with real-world challenges and industry practices. Our commitment extends to conducting impactful research that addresses issues at local, national, and global levels, contributing to the advancement of biotechnological knowledge. Moreover, we aim to develop graduate students who not only possess a strong academic foundation but are also equipped with analytical and leadership skills, empowering them to thrive in the dynamic field of biotechnology.



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# OBJECTIVE

1. **Academic Excellence:** Our commitment is to deliver high-quality education and training across diverse academic levels within the expansive field of biotechnology.
2. **Cutting-Edge Research:** We foster a culture that encourages innovative and impactful research, pushing the boundaries of biotechnological sciences.
3. **State-of-the-Art Facilities:** Our dedication extends to maintaining and upgrading specialized laboratories that provide students with practical learning experiences at the forefront of biotechnology.
4. **Interdisciplinary Collaboration:** We actively seek collaborations with other departments, research institutions, and industries, fostering interdisciplinary approaches to biotechnological research.
5. **Holistic Learning:** Through the integration of theoretical knowledge and hands-on practical experiences, we emphasize the diverse applications of biotechnology to provide a comprehensive educational experience.
6. **Library Resources:** Our comprehensive library boasts a rich collection of resources tailored to the field of biotechnology, supporting the academic endeavors of our students.
7. **Industry Exposure:** Students benefit from internships, hands-on training, and industry visits, gaining valuable insights into the real-world applications of biotechnological principles.
8. **Ethical Practices:** We instill a strong sense of ethical conduct and responsibility in both research and professional practices within the field of biotechnology.



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## OBJECTIVE

**9. Global Perspective:** Our programs are designed to prepare students for success in a diverse and interconnected professional landscape, providing a global perspective on biotechnological challenges and opportunities.

**10. Community Engagement:** We actively engage with the community through outreach programs and collaborative initiatives, emphasizing the application of biotechnological solutions for societal benefit.

**11. Continuous Improvement:** In response to evolving trends and challenges in biotechnology, we maintain a dynamic curriculum, ensuring the highest standards of education and research.

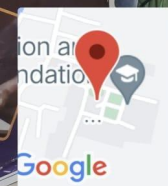
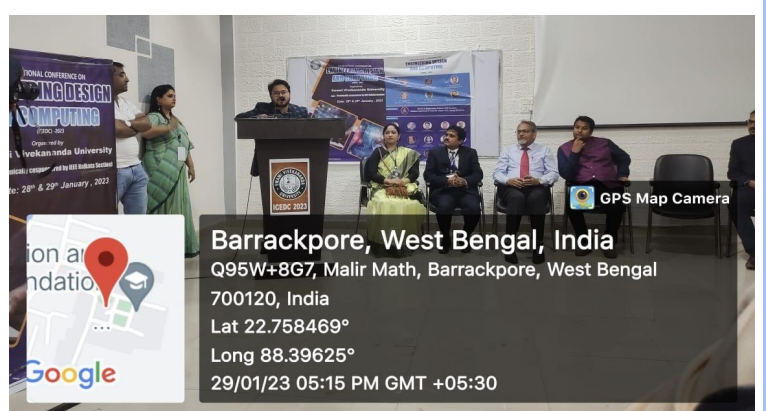


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# PROGRESS REPORT

## JANUARY - 2023

**Swami Vivekananda University Hosts Star-Studded ICEDC 2023:  
A Groundbreaking Confluence of Tech Titans, Innovators, and Visionaries**



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# PROGRESS REPORT

## JANUARY - 2023

Swami Vivekananda University commenced the year with a momentous academic occasion. On January 28, 2023, the university proudly organized the International Conference on Engineering Design and Computing (ICEDC). This prestigious event drew influential figures from three crucial domains—Computer Science, Engineering, and Medical Research. The conference aimed not only to exhibit but also to catalyze notable advancements and contributions in the continually evolving realm of innovative thinking. Prominent personalities such as Prof. Balaguruswamy, Prof. R.S. Salaria, Prof. Celia Shahnaz, Prof. Shorif Uddin, and others graced the occasion, elevating the conference's stature and bringing together collective wisdom and expertise from around the world. This convergence of minds sparked insightful discussions, introduced fresh ideas, and revitalized the field of engineering design and computing.

Beyond its academic significance, the Swami Vivekananda University event generated a buzz in the academic community. The presence of these notable figures added an extra layer of appeal to the conference, capturing the interest not only of scholars and researchers but also of enthusiasts eager to stay informed about the latest developments in these fields. Overall, the ICEDC event proved to be a resounding success, fostering collaboration and innovation at the intersection of computer science, engineering, and medical research.



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# PROGRESS REPORT

## JANUARY - 2023



### **Distinguished JNU Professor Suman Kumar Dhar's Unforgettable Expert Visit at SVU Leaves a Lasting Impression**

Professor Dhar, with his profound knowledge and captivating insights, cast a spell of intellectual enchantment that deeply resonated within the academic community. His presence at the event was transformative, leaving an indelible mark on those fortunate enough to witness his expertise. As he shared his wealth of knowledge, the room seemed to come alive with the electricity of intellectual curiosity. Professor Dhar's remarkable advice and insights became the cornerstone of the event, propelling it to unprecedented heights of academic excellence. Attendees weren't mere observers but active participants in a symphony of ideas, conducted by the maestro himself. The exchange of thoughts and the intellectual discourse that ensued bore witness to the power of knowledge to transcend ordinary boundaries.

Professor Dhar's impact extended far beyond the event venue, leaving an enduring impression on the academic landscape. His teachings became a guiding light, steering aspiring minds toward innovation, critical thinking, and a pursuit of knowledge that surpassed the confines of textbooks. This intellectual legacy inspired a generation of scholars to aspire to new heights of excellence, creating a benchmark for academic achievement.



SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## JANUARY - 2023



### Industry Visit to Sugar and Spice

Accompanied by the esteemed Dr. Pritha Pal and Dr. Aritri Laha, the final-year undergraduate students of the Department of Biotechnology undertook a valuable industry visit to Sugar and Spice, a well-known player in the food industry. The objective of the visit was to offer students practical insights into the indispensable role of microbiology in the realm of food production. This visit wasn't just a routine field trip; it was a fully immersive experience crafted to bridge the gap between theoretical knowledge and its real-world applications. Dr. Pritha Pal and Dr. Aritri Laha, leveraging their extensive expertise in microbiology and biotechnology, expertly guided the students through different sections of Sugar and Spice, unveiling the intricate connections between microbiology and various aspects of food production and safety. Students witnessed firsthand the implementation of microbiological techniques, quality control measures, and hygiene protocols crucial for preserving the integrity of food products.





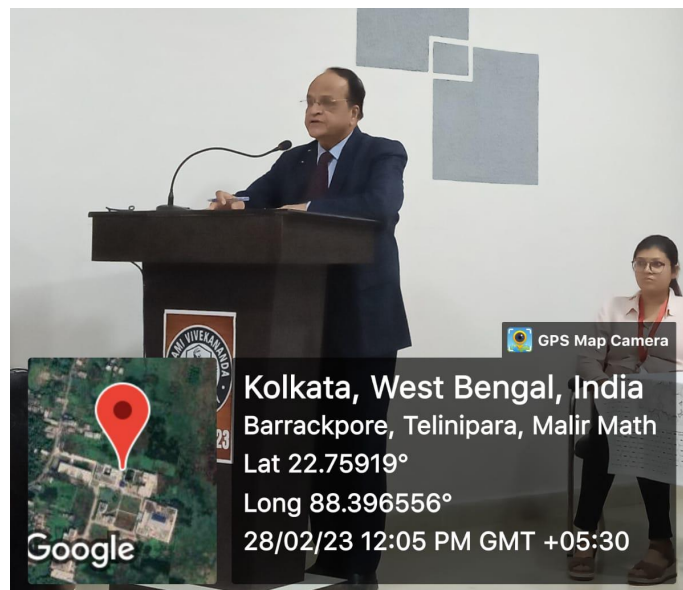
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# PROGRESS REPORT

## FEBRUARY - 2023

### **Spark of Brilliance: SVU Ignites ICALF 2023 International Conference, Fueling Innovation and Collaboration**

Under the visionary leadership of the esteemed Chief Operating Officer (COO) of SVU, the institution reaffirmed its status as a premier academic hub by successfully organizing the 2nd International Conference on Agriculture, Life Sciences, and Food & Nutrition (ICALF 2023) on February 27th and 28th. The conference unfolded at the SVU campus situated in Barrackpore, a culturally rich city with a vibrant heritage. ICALF 2023 gained widespread acclaim and drew active participation from distinguished scholars, experts, and dignitaries worldwide. Dr. Rejina Afrin from East West University in Bangladesh lent an international perspective to the event, enhancing its global significance. The presence of Prof. Dr. Rajasekharan Pillai, Former Chairman of the University Grants Commission (UGC), added another layer of importance to ICALF 2023. His endorsement and active involvement in the conference served as a testament to its academic rigor and quality. Prof. Dr. Pillai's wealth of experience and expertise undoubtedly enriched the discussions and deliberations that unfolded during the conference.







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# PROGRESS REPORT

FEBRUARY - 2023





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# PROGRESS REPORT

## MARCH - 2023

### **Enlightening Perspectives Revealed: Renowned Authorities Dr. Subhra Chakraborty and Prof. Prasanta Kumar Panigrahi Illuminate SVU with Visionary Talks**

Department of Biotechnology, School of Life Sciences, hosted a series of expert lectures featuring Dr. Subhra Chakraborty, Director of the National Institute of Plant Genome Research, and Prof. Prasanta Kumar Panigrahi, Director of IISER. Dr. Chakraborty delivered an engaging lecture on plant genome research, highlighting its applications in agriculture and conservation. She discussed the latest advancements and techniques, emphasizing the development of sustainable crops. Prof. Panigrahi spoke about interdisciplinary education and research, stressing the importance of collaboration across scientific disciplines. He showcased IISER's groundbreaking discoveries in various fields. These lectures provided an enriching experience for students, faculty, and researchers, expanding their knowledge and inspiring curiosity. The lectures facilitated knowledge exchange and networking, encouraging future collaborations.





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# PROGRESS REPORT

MARCH - 2023





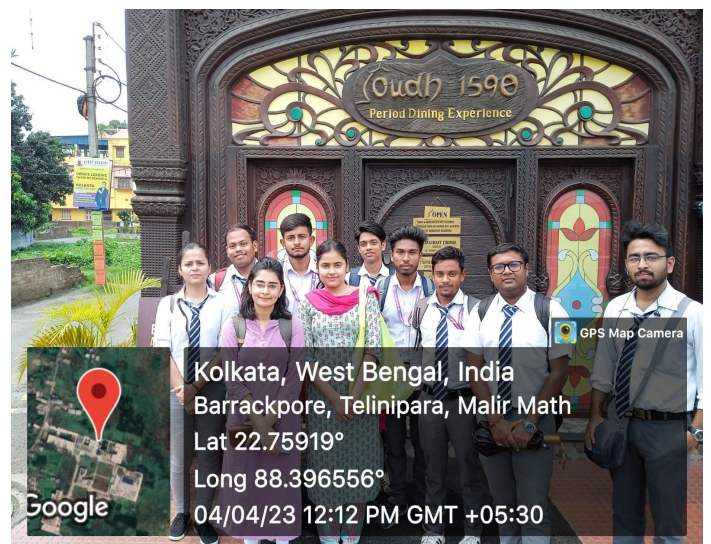
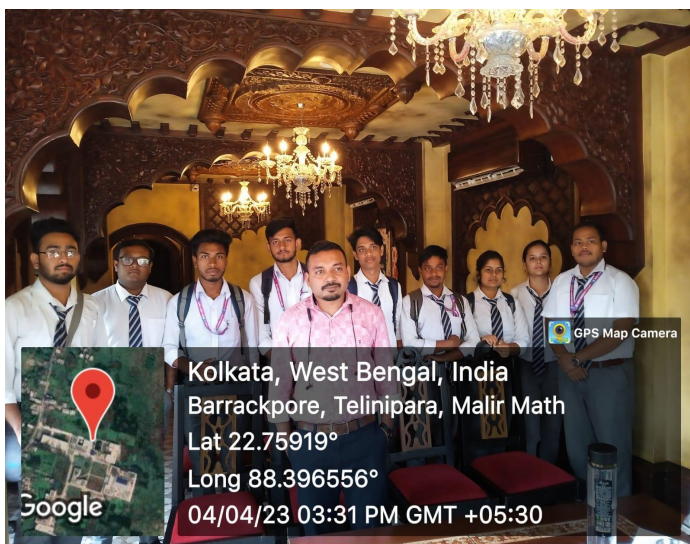
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# PROGRESS REPORT

## APRIL - 2023

### Industry Visit to Oudh 1590

Final-year undergraduate Biotechnology students explored the application of microbiological principles in the culinary world during an insightful industry visit to Oudh 1590, a renowned restaurant. Guided by academic mentors and microbiology experts, students witnessed the implementation of rigorous microbiological protocols, gaining first hand insights into ensuring food safety, quality, and hygiene. Interactions with chefs and staff provided valuable perspectives on preventing foodborne illnesses. The visit became a memorable and impactful chapter in their educational journey, inspiring as they approached the culmination of their undergraduate microbiology program.







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# PROGRESS REPORT

APRIL - 2023



## Industry Visits to Keventer & Parle

Biotechnology undergraduates recently visited Keventer Food and Parle as part of industry visits, gaining practical insights into microbiological applications in food processing. Guided by esteemed faculty members, Dr. Subhasis Sarkar and Dr. Sabyasachi Ghosh, students observed the implementation of microbiological techniques, quality control measures, and hygiene protocols in both establishments. Interactive sessions facilitated discussions with professionals, offering valuable insights into real-world challenges and innovative practices in maintaining high microbiological standards. These visits served as a bridge between classroom learning and practical application, enriching students' understanding of biotechnology in the food industry and preparing them for industry-academic pursuits.



SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

MAY - 2023



## **SVU's National Tech Day Triumph and Biotech Innovation Unveiled in Collaborative Program with Jilin University, China**

On National Technology Day, department of Biotechnology, School of Life Sciences organized an impressive event that featured Dr. Banerjee, a pioneering expert from China, captivating attendees with groundbreaking genomic analysis and diagnostic technologies. SVU's tech-savvy students added to the excitement by showcasing cutting-edge projects and impressive skills, reinforcing the university's leading position in technological advancements. The success of National Tech Day set a new standard for future tech celebrations, leaving a lasting impact on all participants. Additionally, Professor Santasree Banerjee led a faculty development program at Jilin University, China, emphasizing advancements in biotechnology and fostering interdisciplinary collaborations. The program aimed to empower faculty members to mentor the next generation of biotech professionals, enhancing their expertise and enabling excellence in the field.





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# PROGRESS REPORT

MAY - 2023





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# PROGRESS REPORT

MAY - 2023



## Placement

SVU opens remarkable opportunities for students with top companies like Panacea, ensuring success across diverse industries. The strong collaborations between SVU and these esteemed companies empower students to thrive in the ever-evolving job market. Through practical experiences, internships, and real-world projects, SVU ensures graduates are academically sound and industry-ready. This dynamic approach prepares students to navigate challenges and seize opportunities in today's fast-paced professional world. As SVU continues to forge new alliances and stays attuned to job market trends, students can expect exceptional education and placement prospects. The university's commitment to an outstanding learning experience, coupled with its focus on strong industry connections, solidifies SVU's position as a leading institution in higher education. Other actively recruiting companies include Healius, Focus Edumatics, Genpact, Cvent, GLS Ltd., and Breath Well Being and IDS Infotech.





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# PROGRESS REPORT

MAY - 2023



## Education Interface-2023

Under the visionary leadership of Mr. Saurabh Adhikari, the esteemed Chief Operating Officer (COO) of SVU, team SVU participated in Education Interface-2023, aiming at redefining the education interface, resulting in a remarkable and unparalleled experience. The harmonious integration of modernity and academia within the stadium has garnered admiration from both students and faculty. Vast spaces have been meticulously repurposed into cutting-edge classrooms, vibrant discussion forums, and collaborative learning hubs. This transformative initiative not only leaves a lasting imprint on the educational landscape but also serves as a compelling example for institutions worldwide, encouraging them to envision and enhance the future of learning.



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# PROGRESS REPORT

MAY - 2023

## **Celebrating Achievements: Farewell to the Inaugural Undergraduate Batch of 2020 in Biotechnology**

The Department of Biotechnology bids farewell to its inaugural undergraduate class of 2020, filled with a mix of emotions. The journey has been extraordinary, marked by growth, learning, and numerous accomplishments. While farewells are accompanied by a hint of sadness, the department takes immense pride in the achievements of this pioneering batch. Faculty and staff eagerly look forward to the next phase in the lives of these individuals, confident in their ability to make substantial contributions to the field of Biotechnology and beyond. Heartfelt congratulations to the graduating class of 2020! The department wishes them success, fulfillment, and a future marked by significant accomplishments. Even as they physically depart from the department, they will forever remain a cherished part of its history and legacy.







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# PROGRESS REPORT

JUNE - 2023

## 2-Month Crash Course on Modern Biological Techniques and Soft Skills Grooming Program



The Department of Biotechnology at the School of Life Sciences successfully conducted a transformative *"2-Month Crash Course on Modern Biological Techniques and Soft Skills Grooming Program."*

The program was designed as a strategic initiative to establish a strong connection between academic knowledge and industry requirements, simultaneously fostering a scientific mindset and curiosity among 1st-semester students. Over the course of two months, this intensive program successfully met its objectives, equipping students with a comprehensive skill set for a seamless transition into the professional sphere. Beyond imparting technical proficiency, the program also cultivated a scientific mindset, curiosity, and essential soft skills. The Department of Biotechnology remains unwavering in its commitment to providing transformative educational experiences, ensuring that students are well-prepared for success in both academic and professional endeavors.



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# PROGRESS REPORT

JUNE - 2023







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# PROGRESS REPORT

JUNE - 2023

## GCC Biotech Drive



The Department of Biotechnology at the School of Life Sciences recently conducted a strategic and successful recruitment drive in collaboration with GCC Biotech, a distinguished entity in the biotechnology sector. This well-planned initiative was carefully executed to offer students a dual advantage: the opportunity to engage in structured interviews and immerse themselves in a practical, industry-relevant experience. The recruitment drive played a pivotal role as a bridge, connecting theoretical knowledge gained in academic settings with the practical applications prevalent in the professional landscape. Its objective was not only to enable students to showcase their academic proficiency but also to empower them to demonstrate their practical skills and suitability to potential employers.





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# PROGRESS REPORT

JUNE - 2023



This exposure to industry practices is pivotal for students transitioning seamlessly from academia to the dynamic professional environment. The event featured well-organized interview sessions, providing a unique platform for students to interact directly with professionals from GCC Biotech. This interaction enriched students' perspectives on industry expectations, dynamics, and opportunities. As an institution committed to comprehensive education, our collaboration with GCC Biotech emphasizes our dedication to nurturing individuals with both theoretical knowledge and practical skills essential for success in microbiology and the broader life sciences. We are steadfast in providing ongoing platforms for the professional growth and success of our students.





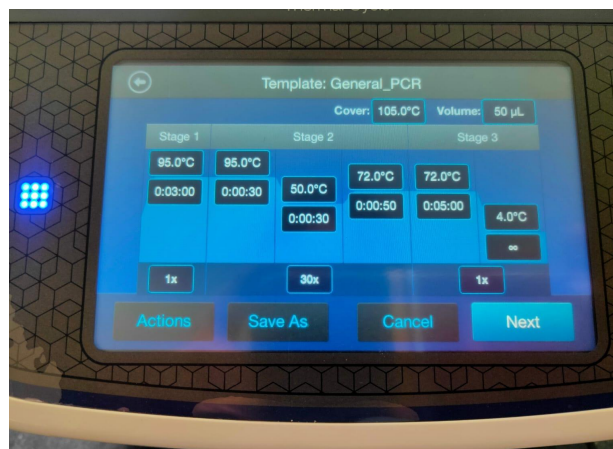
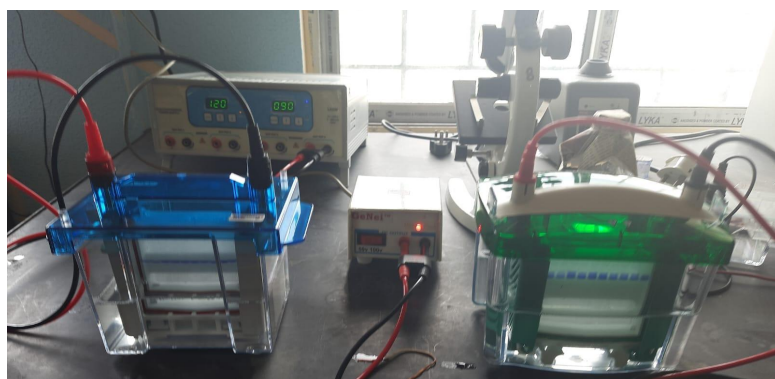
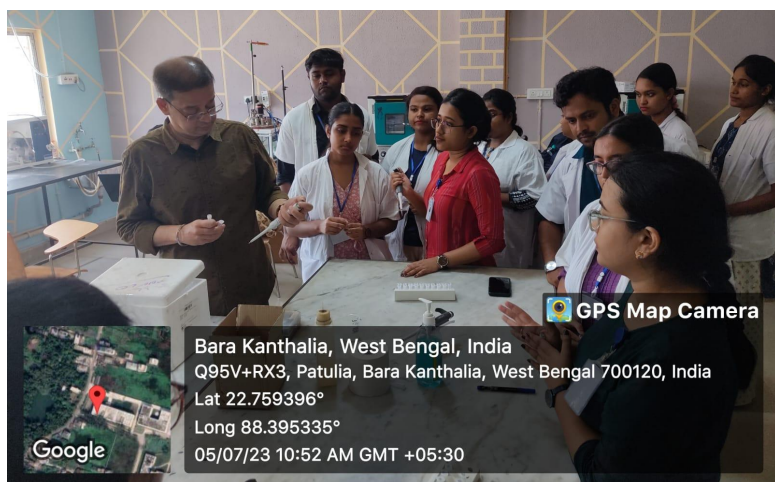
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# PROGRESS REPORT

## JULY - 2023

### Success in Action: Comprehensive Hands-on Training in Molecular Biology Techniques

The Department of Biotechnology, School of Life Sciences, successfully organized a comprehensive Hands-on Training Program on Basic Molecular Biology Techniques, with a specific focus on RNA and Protein Purification. Conducted through multiple sessions from July 4th to 7th, July 11th-12th, and July 20th-21st, the program aimed to provide expert training to students, equipping them with essential skills for professional aptitude. Positive feedback from both students and instructors highlights the program's effectiveness in nurturing the next generation of skilled professionals in the life sciences field. The Departments are committed to organizing impactful training initiatives in the future, fostering a culture of excellence and practical proficiency among students.



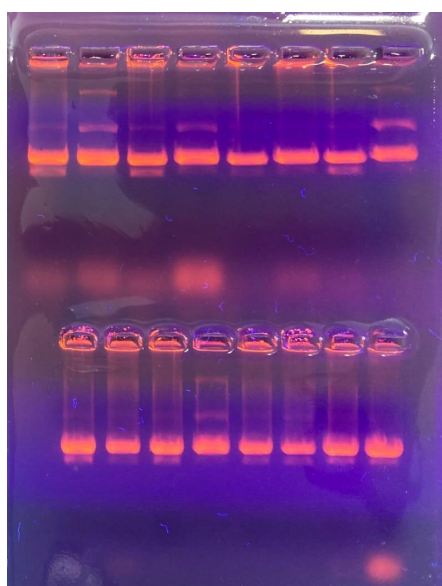


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# PROGRESS REPORT

## JULY - 2023

The program was conducted in three distinct sessions – from 4th to 7th July, focusing on foundational molecular biology techniques; 11th-12th July, delving into RNA techniques; and 20th-21st July, concentrating on protein purification.



In the inaugural session spanning from 4th to 7th July, participants were introduced to the fundamentals of molecular biology techniques. The program encompassed practical demonstrations and hands-on exercises, focusing on essential molecular biology techniques such as DNA isolation, DNA separation, Plasmid Isolation, and more. This hands-on approach provided students with a valuable opportunity to gain proficiency in executing fundamental laboratory protocols. In addition to the practical component, the session incorporated theoretical discussions aimed at enhancing participants' understanding of the underlying principles that govern these techniques. This holistic approach ensured that participants not only acquired practical skills but also developed a robust theoretical foundation in molecular biology.





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# PROGRESS REPORT

## JULY - 2023

During the second module conducted on 11th-12th July, the program advanced participants' knowledge into RNA techniques. This segment presented a unique opportunity for students to independently engage with sophisticated laboratory equipment, specifically focusing on RNA isolation, separation, and analysis. This hands-on experience aimed at fostering self-reliance and instilling confidence in executing complex procedures related to RNA manipulation. The interactive nature of the sessions facilitated deeper comprehension of the intricacies involved in working with RNA, ensuring that participants not only gained practical skills but also developed a comprehensive understanding of RNA-based techniques in the laboratory setting.





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# PROGRESS REPORT

## JULY - 2023

### Wall Magazine

In July, the Department of Biotechnology initiated a proactive project, urging students to create wall magazines for display in the departmental corridor. These magazines covered various life sciences topics, showcasing the students' knowledge depth and creativity. This well-structured initiative yielded notable outcomes, fostering increased interest, active engagement, and a strong sense of teamwork among microbiology students. Furthermore, it significantly contributed to cultivating a scientific mindset, enabling students to explore diverse aspects of life sciences and share their insights within the academic community. This collaborative effort not only enhanced the departmental exhibition corridor but also elevated the overall academic atmosphere for participating students, aligning with the department's commitment to fostering a culture of excellence and scholarly exploration.







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# PROGRESS REPORT

## JULY - 2023

### Visit to Vivekananda Water Treatment Plant

On July 10th, students of Biotechnology Undergraduate Semester - V undertook a significant on-site visit to the Vivekananda Water Treatment Plant in Belur. This visit was carefully planned to translate theoretical concepts learned throughout the semester into practical, real-world applications. The primary objective was to bridge the gap between classroom knowledge and hands-on experience by immersing students in the live application of microbiological principles within the context of water treatment processes. During the visit, students actively explored the intricacies involved in water treatment procedures. This hands-on learning experience was strategically designed to reinforce their academic knowledge and deepen their understanding of biotechnological applications in a professional setting. Furthermore, students had the valuable opportunity to interact with industry professionals at the water treatment plant, engaging in insightful discussions and gaining practical insights into the challenges faced in implementing biotechnology concepts.





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# PROGRESS REPORT

## JULY - 2023

### Acute Quality Consultants Campus Drive

On July 21st, recruitment initiative organized by the Departments of Biotechnology, School of Life Sciences resulted in the coordination of a campus drive by Acute Quality Consultants. This focused event was exclusively designed for postgraduate students, offering them a distinctive chance to connect with potential employers and delve into career opportunities within their respective fields. The campus drive aimed to narrow the divide between academia and industry, fostering a smooth transition for postgraduate students into the professional realm.







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# PROGRESS REPORT

## JULY - 2023

### MoU Andragogy

On the 21st of July, a significant strategic initiative was accomplished as Swami Vivekananda University and Chatto Life Sciences formalized a Memorandum of Understanding (MoU). This collaborative agreement is designed to provide students of Biotechnology departments with a unique opportunity for professional development through engaging workshops and training sessions focused on modern biological techniques.







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# PROGRESS REPORT

JULY - 2023

## Field Visit to SynBiogenesis

Biotechnology postgraduate students visited SynBiogenesis Biotech Park for an educational experience, including live demonstrations in molecular biology, immunology, bacteriology, and other domains. The hands-on exposure provided real-world insights, bridging the gap between theory and practice and offering a comprehensive understanding of biotechnology applications at SynBiogenesis Biotech Park.





SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## AUGUST - 2023

### Recruitment Drive by Virtual Physicians Scribes India Pvt. Ltd.

The Campus Recruitment Drive, a collaborative effort between Swami Vivekananda University and Virtual Physicians Scribes India Pvt. Ltd. on August 2nd, emerges as a pivotal initiative. It offers students specializing in Microbiology, Biotechnology, and Food & Nutrition an additional opportunity to enhance their professional acumen and transition into the job market. This meticulously organized event serves as a strategic platform for eligible students to refine their skills, interact with industry professionals, and gain valuable insights into their respective fields. By fostering a dynamic connection between academia and industry, the drive aims to empower students and facilitate their seamless entry into the professional realm, ultimately contributing to their career growth and success.







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# PROGRESS REPORT

## SEPTEMBER - 2023

### MoU with Ministry of Ayush

The Ministry of Ayush, whose inception on November 9, 2014, marked a significant milestone, had a visionary commitment to revive the profound knowledge embedded in ancient systems of medicine. The overarching goal of the ministry was to ensure the optimal development and widespread propagation of the Ayush systems of healthcare. This initiative succeeded the Department of Indian System of Medicine and Homoeopathy (ISM&H), established in 1995, which played a pivotal role in the initial development of these systems. In November 2003, recognizing the need for a more comprehensive approach, it was rechristened as the Department of Ayurveda, Yoga, and Naturopathy, Unani, Siddha, and Homoeopathy (Ayush), focusing specifically on education and research in these domains. With palpable excitement, Swami Vivekananda University collaborated with the MINISTRY OF AYUSH, a step that underscored our commitment to advancing the mission of promoting traditional healthcare systems. This collaboration signified a strategic move toward harnessing the wealth of knowledge present in Ayurveda, Yoga, Naturopathy, Unani, Siddha, and Homoeopathy for the benefit of society at large. The collaboration aims to advance Homeopathic research.







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# PROGRESS REPORT

## SEPTEMBER - 2023

### Faculty Development Programme

On September 1st, Swami Vivekananda University, School of Life Sciences, Department of Biotechnology and Microbiology jointly organized a Faculty Orientation Program on Innovation and Entrepreneurship. The distinguished event featured Dr. Saptarshi Chatterjee, Associate Director of Incubation & Chief Coordinator at the E-YUVA Centre, Adamas University, with support from BIRAC (Biotechnology Industry Research Assistance Council). The program aimed to provide faculty members with profound insights and strategic guidance on fostering a culture of innovation and entrepreneurship within the academic environment. Dr. Chatterjee's distinguished expertise significantly enriched the initiative, offering a nuanced perspective on incubation practices and the cultivation of entrepreneurial endeavors within the academic community.





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## SEPTEMBER - 2023

### International Microorganism Day

The Department of Biotechnology and Microbiology at the School of Life Sciences, Swami Vivekananda University, jointly organized a celebration in honor of International Microorganism Day. Dr. Susmita Mondal from Presidency University graced the event with her esteemed presence. A quiz competition, involving both undergraduate (UG) and postgraduate (PG) students from the School of Life Sciences, departments of Microbiology and Biotechnology took center stage. The students' enthusiastic participation was evident, and a notable achievement was secured by a team from UG Biotechnology Semester 3, emerging as the winners of the competition. This event not only marked the significance of microorganisms but also highlighted the academic prowess and competitive spirit of the students in the School of Life Sciences at Swami Vivekananda University.



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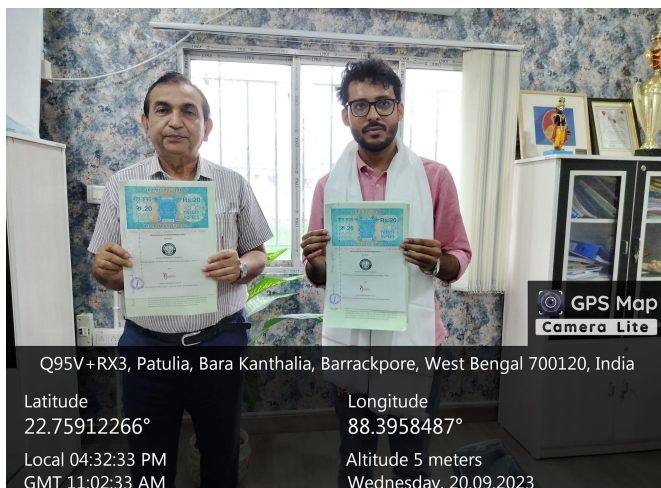
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# PROGRESS REPORT

## SEPTEMBER - 2023

### MoU with Synbiogenesis

On September 20th, Swami Vivekananda University in Barrackpore achieved a significant milestone through the signing of a Memorandum of Understanding (MoU). The collaborative agreement involved Synbiogenesis Pvt. Ltd. and Human Biogenesis Pvt. Ltd. The occasion included an interactive session with undergraduate (UG) and postgraduate (PG) students from the School of Life Sciences, specifically the departments of Microbiology and Biotechnology at SVU Barrackpore. As part of this comprehensive engagement, students were afforded the opportunity to visit laboratories, fostering a hands-on understanding of real-world applications.





SWAMI VIVEKANANDA UNIVERSITY,  
BARRACKPORE

# PROGRESS REPORT

## SEPTEMBER - 2023

### SVU Innovation-2023

Swami Vivekananda University proudly organized SVU Innovation- 2023, an intra-university Hackathon program, on September 22nd. The event was honored to welcome esteemed guests, including Mr. Prantik Sinha, Co-Founder of Agastya Invention; Prof. (Dr.) S N Roy, FIICer, Ex-Chief Scientist & Former Head of Ceramic Membrane Division at CSIR-Central Glass & Ceramic Research Institute; and Dr. Moumita Bhaumik (Ghosh), Scientist D at ICMR-National Institute of Cholera and Enteric Diseases. Their valuable insights, extensive experience-sharing, and generous guidance significantly contributed to the success of SVU Innovation 2023. We also acknowledge and celebrate the enthusiasm demonstrated by our students, who actively participated in the event with passion and commitment. The vibrant student of department of Microbiology engagement underscored the university's dedication to nurturing a culture of innovation. We extend our sincere congratulations and appreciation to all 62 participating groups for showcasing innovative ideas and research, thereby elevating the event to its zenith.







SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## SEPTEMBER - 2023

### **Charting Frontiers: Highlights from the International Conference on Life Sciences, Agriculture, and Food & Nutrition at SV**

Under the ideation and leadership of honorable COO sir of Swami Vivekananda University, Mr. Saurabh Adhikari, the International Conference on Scientific Advancements in Life Sciences, Agriculture, and Food & Nutrition, was organized at the University Campus in Barrackpore from September 28th to 30th, which proved to be a transformative gathering that brought together leading scientific minds. The success of the conference can be attributed to the visionary leadership and innovative thinking of the Honorable Chief Operating Officer, Mr. Saurabh Adhikary. His strategic guidance played a pivotal role in ensuring the seamless execution and achievement of the event's objectives. The conference provided a dynamic platform for robust knowledge exchange, intellectual discussions, and meaningful connections among scholars, researchers, and professionals. Over the course of three days, the event featured a diverse array of presentations, discussions, and workshops showcasing the latest advancements in Life Sciences, Agriculture, and Food & Nutrition. Global scholars shared their research findings, insights, and innovative approaches, addressing current challenges and paving the way for future breakthroughs.

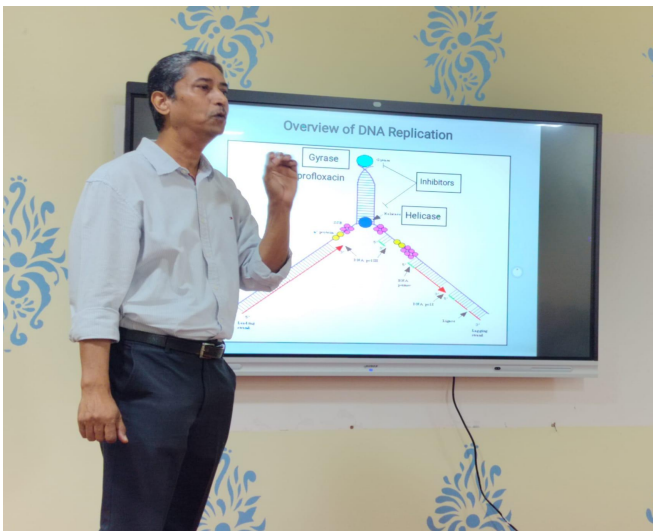




SWAMI VIVEKANANDA UNIVERSITY,  
BARRACKPORE

# PROGRESS REPORT

SEPTEMBER - 2023







SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## OCTOBER - 2023

### World Habitat Day Celebration

Swami Vivekananda University, School of Life Sciences, Department of Biotechnology and Microbiology, co-hosted a meaningful celebration for World Habitat Day on October 3rd. The event at Swami Vivekananda University evolved into a holistic experience, seamlessly blending academic insights with environmental consciousness and creative expression. It underscored the School of Life Sciences' dedicated commitment to fostering awareness and appreciation for the habitats that sustain life on our planet. The meticulously planned event featured Prof. Jayanta Kumar Biswas from the Department of Ecological Studies & International Centre for Ecological Engineering at the University of Kalyani as the esteemed guest speaker. Prof. Biswas delivered an enlightening talk on the challenges and importance of preserving Earth's natural habitats. The celebration was followed by a Wall magazine exhibition prepared by both undergraduate and postgraduate students of the department.







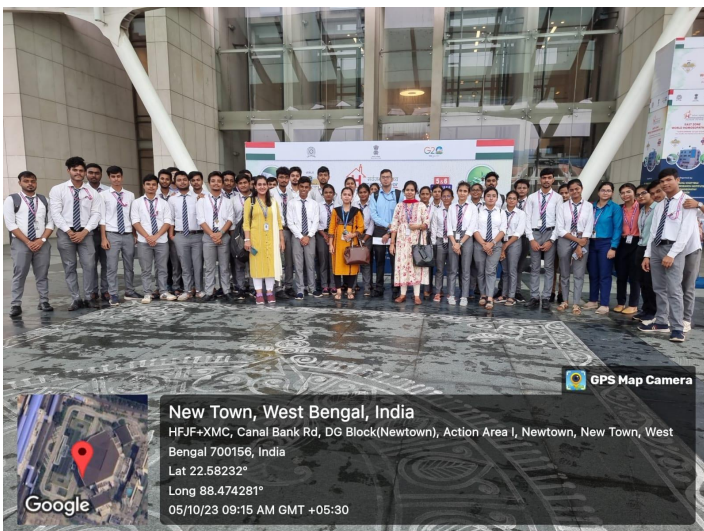
SWAMI VIVEKANANDA UNIVERSITY,  
BARRACKPORE

# PROGRESS REPORT

## OCTOBER - 2023

### Homeopathy Conference

Swami Vivekananda University had the honor of participating in a conference organized by the Dr. Anjali Chatterji Regional Research Institute For Homoeopathy, Kolkata, along with a delegation comprising five faculty members and a group of 50 students. The event, held at the prestigious Biswa Bangla Convention Center, proved to be an enlightening experience, offering valuable insights across various academic disciplines and fostering intellectual growth and exchange. The strong participation of faculty and students from department of Biotechnology significantly marked its presence in the conference forum. The active involvement and contributions from the faculty members showcased the university's commitment to academic excellence and engagement in scholarly discourse. Their meaningful participation further underscored Swami Vivekananda University's dedication to fostering a culture of knowledge-sharing and intellectual growth within the academic community.





SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## NOVEMBER - 2023

### International Bioinformatics Workshop

The School of Life Sciences at Swami Vivekananda University, in collaboration with the Departments of Microbiology and Biotechnology, successfully conducted an International Workshop on Computer-Aided Drug Designing and Discovery. Esteemed speakers, including Dr. Sudip Roy, CEO of Prescience Insilico Pvt. Ltd., Dr. Aishwarya Pawar, Senior Application Scientist at PreScience, Ms. Mahima Kori, Application Scientist at PreScience, and Ms. Adhithya, Software Tester at PreScience, shared their expertise. The workshop aimed to provide students from the Department of Microbiology and Biotechnology with valuable insights and hands-on experience in the fields of computer-aided drug design and discovery. Dr. Sudip Roy and the PreScience team covered topics related to these domains, grooming students to enhance their proficiency in utilizing computational tools for research and innovation. By bringing together industry and academia experts, the workshop served as a platform for knowledge exchange and skill development.





SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## NOVEMBER - 2023

### **World Cancer Awareness Day**

On November 7th, 2023, the collaborative efforts of the School of Life Sciences, departments of Biotechnology & Microbiology and the School of Allied Health Sciences at Swami Vivekananda University led to a significant event in honor of National Cancer Awareness Day. The occasion featured a distinguished panel of speakers, including Dr. Maharshi Krishna Deb, Founding Head of the Subhash Mukhopadhyay Centre for Stem Cell Biology and Regenerative Medicine; Dr. Vikash Agarwal, Senior Consultant Oncosurgeon; Dr. Puja Ray, Assistant Professor at Presidency University; Dr. Jyotirup Goswami, Consultant in Clinical Oncology and Head of Medical Services at Karkinos Healthcare Private Limited; Dr. Ushasi Banerjee, Senior Clinical Psychologist at AMRI Hospitals; and Sucharita Santra, an Acute Lymphoblastic Leukemia Survivor.

The event aimed to raise awareness about cancer, providing a comprehensive understanding of its biology, treatment methods, psychological impacts, and personal survivor experiences. The program also featured an E-poster presentation by students from the departments of Microbiology and Biotechnology, introducing an interactive element to the event. This platform allowed students to showcase their research, findings, and innovative projects through electronic posters, fostering a vibrant exchange of ideas and knowledge. The E-poster presentation segment enriched the event, providing students with an opportunity to engage with peers, experts, and attendees, creating a collaborative atmosphere that contributed to the overall success of the occasion.



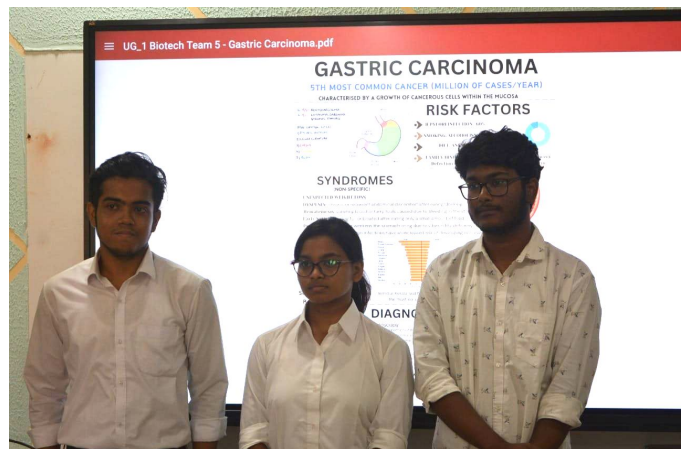


SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

NOVEMBER - 2023

## Glimpses from World Cancer Awareness Day Celebration





SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## NOVEMBER - 2023

### Plant Genome Sequencing Seminar

The departments of Microbiology and Biotechnology, School of Life Sciences at Swami Vivekananda University, Barrackpore, organized a seminar on 16th November, with the feature title "Plant Genome Sequencing: A Case Study of Tea." This insightful seminar, jointly conducted by the departments of Microbiology and Biotechnology, aimed to delve into the complexities of plant genome sequencing, using tea as a compelling case study. The distinguished guest speaker for this occasion was Dr. Tapan Kumar Mondal, Principal Scientist at ICAR-National Institute for Plant Biotechnology, LBS Centre, New Delhi. Dr. Mondal, with his expertise in the field, shared valuable insights into the intricacies of plant genome sequencing, particularly highlighting the case of tea. The seminar provided a platform for academic discourse, knowledge exchange, and a deeper understanding of advancements in plant biotechnology within the university community.







SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## NOVEMBER - 2023

### World Entrepreneurs' Day

The Department of Biotechnology, School of Life Sciences at Swami Vivekananda University in Barrackpore hosted a commemoration in honor of World Entrepreneurs' Day on November 9th. Organized by the departments of Microbiology and Biotechnology, the event welcomed Dr. Debabrata Mandal as the Chief Guest. Dr. Mandal, Co-founder of Human Biogenesis and Synbiogenesis, shared his entrepreneurial insights during the celebration. The occasion served as a platform to recognize and appreciate the spirit of entrepreneurship, especially in the fields of microbiology and biotechnology. It provided students, faculty, and participants with an opportunity to interact with Dr. Mandal, gaining valuable perspectives on the entrepreneurial landscape in these domains. The event contributed to fostering an entrepreneurial spirit and promoting innovation within the academic community at Swami Vivekananda University.



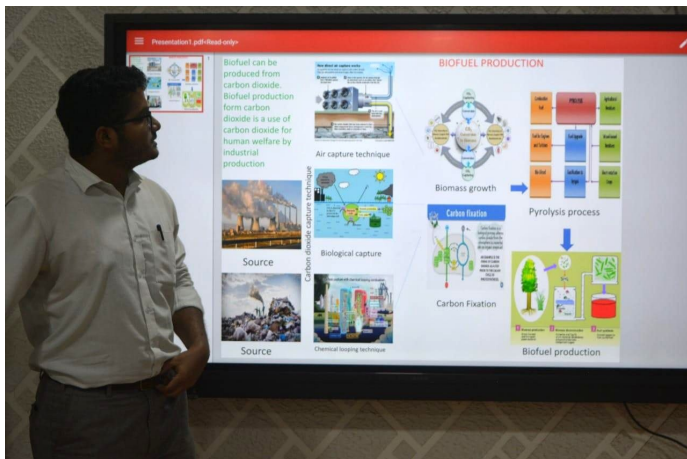


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# PROGRESS REPORT

NOVEMBER - 2023

## Glimpses from World Entrepreneurs' Day Celebration







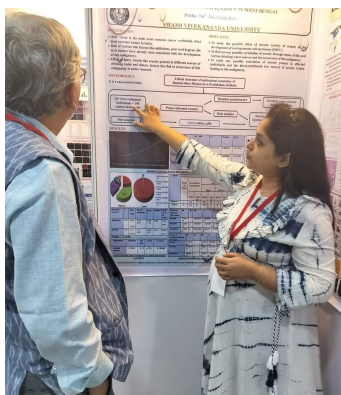
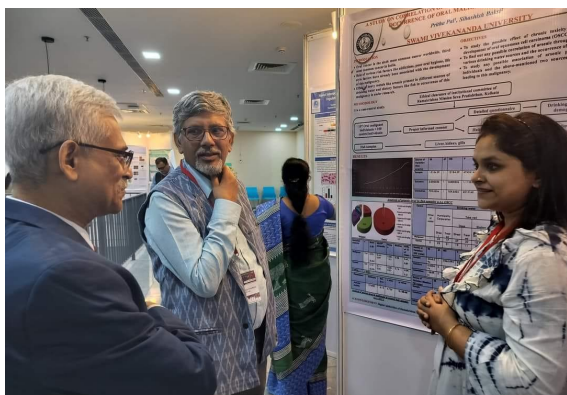
SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## DECEMBER - 2023

### Regional Young Investigators Meet

Esteemed faculty members from the Department of Biotechnology, including Dr. Pritha Pal, Head of the Department, and Dr. Satanu Pal, Associate Professor, and Dr. Sibashish Bakshi, Assistant Professor, demonstrated their expertise and research contributions at the Regional Young Investigators Meet hosted at Presidency University on December 7th and 8th. Actively engaging in the event, the faculty members presented their insightful research work, leaving a significant impact with their valuable contributions. Their participation not only highlighted their individual accomplishments but also emphasized the Department of Biotechnology's dedication to advancing research and promoting academic excellence. The entire department extends gratitude to the Honorable Chief Operating Officer, Mr. Saurabh Adhikari, for his invaluable encouragement and support, motivating and facilitating faculty members' participation in the Regional Young Investigators Meet at Presidency University. His commitment to promoting academic initiatives and providing opportunities for faculty members to showcase their research endeavors consistently propels young researchers toward the peak of excellence.





SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

DECEMBER - 2023







SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## DECEMBER - 2023

### Vivek Jyoti Ananya Samman

In a momentous occasion, Swami Vivekananda University conferred the prestigious Vivek Jyoti Ananya Samman upon Prof. Partha Pratim Majumder, a luminary in the academic realm and a distinguished National Science Chair for Scientific Excellence appointed by the Government of India. Prof. Majumder, holding esteemed positions as Distinguished Professor at the John C. Martin Centre for Liver Research & Innovations and Emeritus Professor at the Indian Statistical Institute, was honored for his outstanding contributions to the scientific community. The award ceremony served as a poignant acknowledgment of Prof. Majumder's exemplary achievements and dedication to advancing knowledge. Following this recognition, a profoundly insightful lecture session was organized, curated to enrich the intellectual pursuits of the students. This distinguished event not only underscores Swami Vivekananda University's commitment to celebrating excellence but also exemplifies its dedication to providing faculties and students with transformative opportunities to learn from and engage with eminent personalities who have left an indelible mark in their respective fields.



Q95V+RX3, Patulia, Bara Kanthalia, Barrackpore, West Bengal 700120, India

Latitude

22.75950567°

Local 04:17:30 PM

GMT 10:47:30 AM

Longitude

88.39540615°

Altitude 8 meters

Tuesday, 12.12.2023



SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

## DECEMBER - 2023

### Industry Visit to Bhagwati Foods Pvt, Ltd, Parle

Undergraduate students of department of Biotechnology, engaged in an enlightening industry visit to Bhagwati Foods Pvt. Ltd., Parle. This visit was designed to offer them firsthand exposure to the operational intricacies of the food industry. It proved to be a valuable opportunity for the students, allowing them to observe the practical applications of their academic knowledge in a real-world setting. During the visit, they gained insights into microbial quality control, biotechnological interventions, and the industrial technologies employed in food production at Bhagwati Foods Pvt. Ltd., Parle.







SWAMI VIVEKANANDA UNIVERSITY,  
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# PROGRESS REPORT

DECEMBER - 2023



## Government of West Bengal Department of Science & Technology and Biotechnology

### West Bengal DST R&D Project Proposal Submission

The faculty members of the Department of Biotechnology have showcased their unwavering commitment to leading-edge research and development by submitting comprehensive proposals to the West Bengal Department of Science and Technology (DST). These proposals encompass a diverse array of emergent domains, with a specific emphasis on Environmental Biotechnology, much emerging Cancer Biology & Agro-Biotechnology. The department's proactive involvement in these crucial areas underscores its steadfast dedication to advancing knowledge, addressing contemporary challenges, and making substantial contributions to the scientific and technological landscape in microbiology. This initiative is a testament to the department's relentless pursuit of excellence and its pivotal role in pushing the boundaries of research to create impactful contributions for the scientific community and society at large.



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# Planning (February-2024)

## 1. World Cancer Day Celebration

The Department of Biotechnology is excited to announce its participation in the celebration of World Cancer Day. This event serves as an opportunity for our department to raise awareness, promote education, and contribute to the global effort in the fight against cancer. Stay tuned for our upcoming activities and initiatives in support of World Cancer Day. Together, we strive to make a meaningful impact on this important health issue.

## 2. Tech-Fest

The Biotechnology Department will actively participate in the upcoming Tech Fest organized by Swami Vivekananda University. Our department looks forward to showcasing innovative contributions and engaging in the vibrant technological discussions and activities during this event. Stay tuned for exciting updates as we contribute to the dynamic atmosphere of the Tech Fest at Swami Vivekananda University.





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# Planning (February-2024)

## 3. ICALF-2024

The Department of Biotechnology at the School of Life Sciences is thrilled to announce the upcoming second edition of the International Conference (ICALF), scheduled for February 2024. We look forward to providing a platform for global experts, researchers, and enthusiasts to share insights and advancements in the dynamic field of applied life sciences and microbiology. Stay tuned for further details as we prepare for this exciting event.

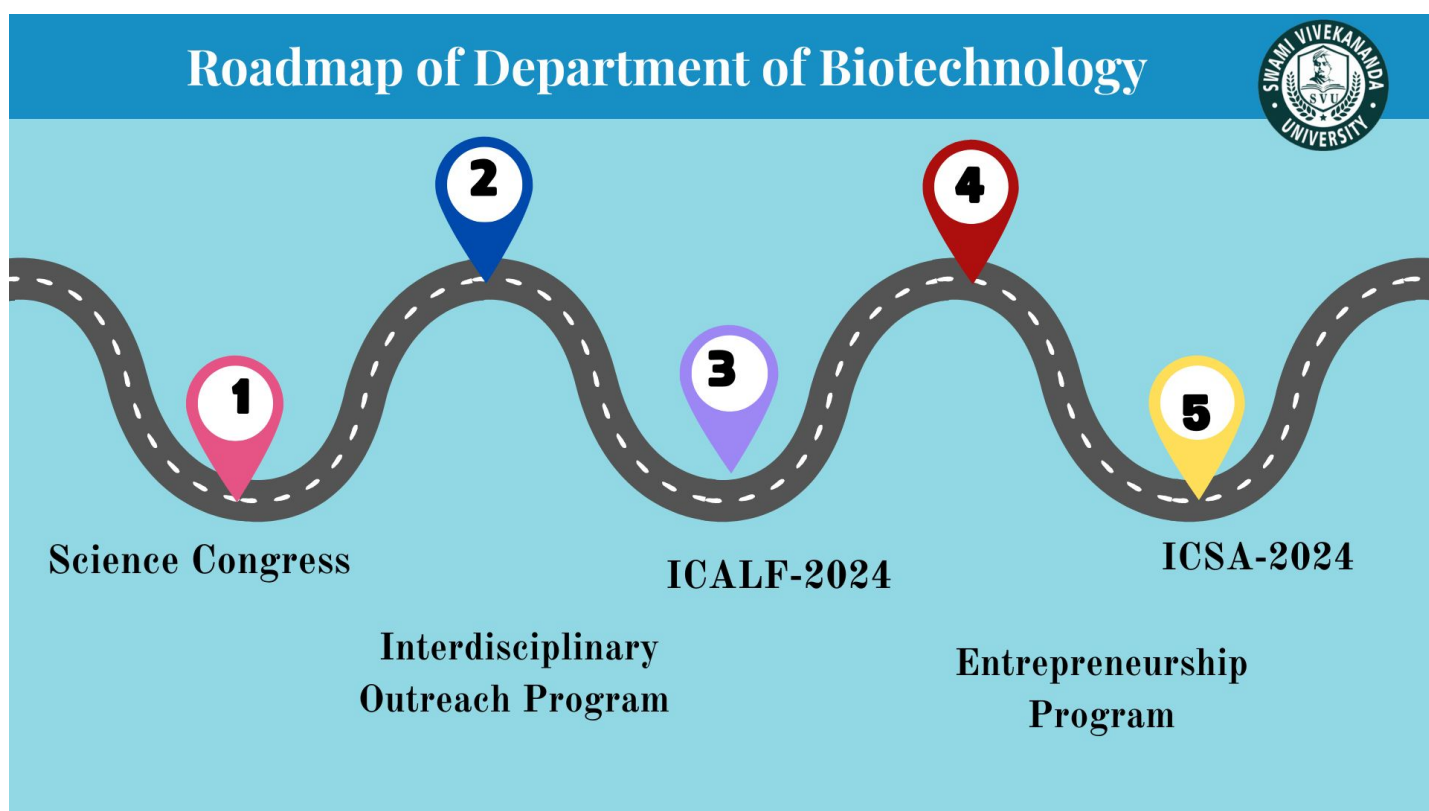
## 4. Science Day Celebration

The Department of Biotechnology is excited to announce its celebration of Science Day. This event will provide an opportunity for our department to engage in activities, discussions, and initiatives that highlight the significance of science in our lives. Stay tuned for updates as we join the global celebration of Science Day and showcase the enthusiasm and contributions of our microbiology community.



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# Departmental Roadmap



The Biotechnology department's strategic plan places a premium on academic excellence through pivotal initiatives. Active participation in science congress events enhances the visibility of our research, and outreach programs with interdisciplinary approaches promote collaborative efforts. The forthcoming International Conferences, ICALF-2024 and ICSA-2024, serve as noteworthy global platforms for knowledge exchange. Furthermore, our integrated entrepreneurship program empowers students to practically apply microbiological innovations. This roadmap epitomizes our dedication to excellence, collaboration, global engagement, and the cultivation of an entrepreneurial mindset among our students..





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## Editorial - From HoD's Desk



### **Dr. Pritha Pal**

Head, Department of Biotechnology  
School of Life Sciences  
Swami Vivekananda University

The Department of Biotechnology not only offers excellent undergraduate and postgraduate education, but it also develops bright young minds that will come up with ideas for scholarly research that will be implemented to solve pressing problems in the fields of cancer biology, computational biology, agricultural biotechnology, etc. Regarding academic activities, the department has concentrated on adhering to all CBCS and NEP policy rules and regulations while creating the course curriculum for UG and PG students, as well as the UGC laws for conducting research scholars' PhD activities. The BOS members present in passing the resolution of various academic activities include departmental faculties along with an External Expert, Dr. Koushik Pramanick, Department of Life Sciences, Presidency University, Kolkata. The year 2023 included the graceful completion of PG 2021 (25 students) and UG 2020 (13 students) batches of the concerned department and also welcomed the energetic beginning of UG 2023 (64 students) and PG 2023 (24 students) batches. Classes, both theoretical and practical, were structured according to credit hours, with a focus on providing students with opportunity for hands-on instruction in a variety of applied laboratory techniques. Research activities included developing original concepts in a variety of biotechnology fields, encouraging the practice of writing reviews, having faculty, PhD students, postgraduate students, and undergraduate students conduct various related experiments hands-on, and nurturing the habit of multiple publications by these groups.



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These efforts proved fruitful in 2023, with approximately 100 publications being presented orally at international conferences such as ICEDC 2023, ICALF 2023, and ICSA 2023. Both the registration process and the ongoing half-yearly Progress Report review of prior batches of PhD scholars were completed by a sizable number of scholars. The involvement of students in various programmes centred around entrepreneurship is noteworthy. Notable examples include the Smart India Hackathon 2023, in which participation from approximately 60% of the student body was encouraged, and their exposure to various programmes centred around skill enhancement, such as the Hands-on Training Workshop in Molecular Biology techniques for final-year students and the Hands-on Training Workshop in Modern Biological Techniques for beginners.

The final-year postgraduate students at prestigious universities and colleges, such as Kalyani University, Presidency University, Calcutta University, Ashutosh College, Scottish Church College, etc., conducted a three-month Out House Project as part of the skill-based trainings. Additionally, the students visited several renowned industries, including Parle, Oudh, Keventer, Sugar n Spice, Vivekananda Water Treatment Plant, etc. In order to prepare the students for the workforce rather than just the classroom, this also featured training programmes in Communicative English, which acted as a link between the two domains. In addition to promoting the practice of numerous oral and poster presentations, quiz competitions, wall magazine preparation, photography competitions, etc. on various emerging ideas of academics as well as entrepreneurship before defined personalities from various renowned universities and institutions, the department believes in focusing on applied exposure of students and scholars not only through books but also in global platforms. This opens the door to experiencing the high-profile knowledge and skill of the invited speakers and connecting with them for every support and guidance. With the goal of imparting knowledge and practical experience in various techniques required for both academics and research, the Department of Biotechnology at the School of Life Sciences is home to four laboratories dedicated to Microbiology, Biochemistry & Molecular Biology, Plant Biotechnology & Bio-engineering, and one research laboratory equipped with top-of-the-line instruments such as FTIR,





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UV-vis spectrophotometer, AAS, GC MS, HPLC, etc. This further motivates a constant proportion of students (about 80%) to attend regularly scheduled lessons and learn about all aspects of their studies. Additionally, the department starts the placement possibilities that last year's final-year students of the UG 2020 and PG 2021 batches seized, landing them in prestigious organisations like Panacea, GCC Biotech, Healius, IDS Infotech, etc., guaranteeing a 100% placement rate for the students. The story not only culminates the picture of students and scholars but also picturizes the enthusiastic spirit of the departmental faculties with a success of submitting 5 R&D projects to DST WB, Department of Science & Technology, West Bengal in various fields of Environmental Biotechnology, much emerging Cancer Biology & Agro-Biotechnology. In the coming month, the department will launch the new semester classes for the UG 2023 and PG 2023 batches. It will also host several events, such as the World Cancer Day celebration and the role-play competition in which the UG 2022 batch participated. Additionally, the department will host the International Conference on Technological Innovations in Agriculture, Life Sciences, and Food & Nutrition, or ICALF 2024, with the aim of meeting notable figures, learning from their expertise, and producing a large volume of publications featuring articles written in a variety of microbiology fields by UG, PG students, PhD scholars, and faculty members. The UG and PG students' industrial visit to the Amul Dairy industry is scheduled for the forthcoming month. This visit will serve as a capstone experience for their studies in dairy processing, dairy safety, and dairy biotechnological procedures.