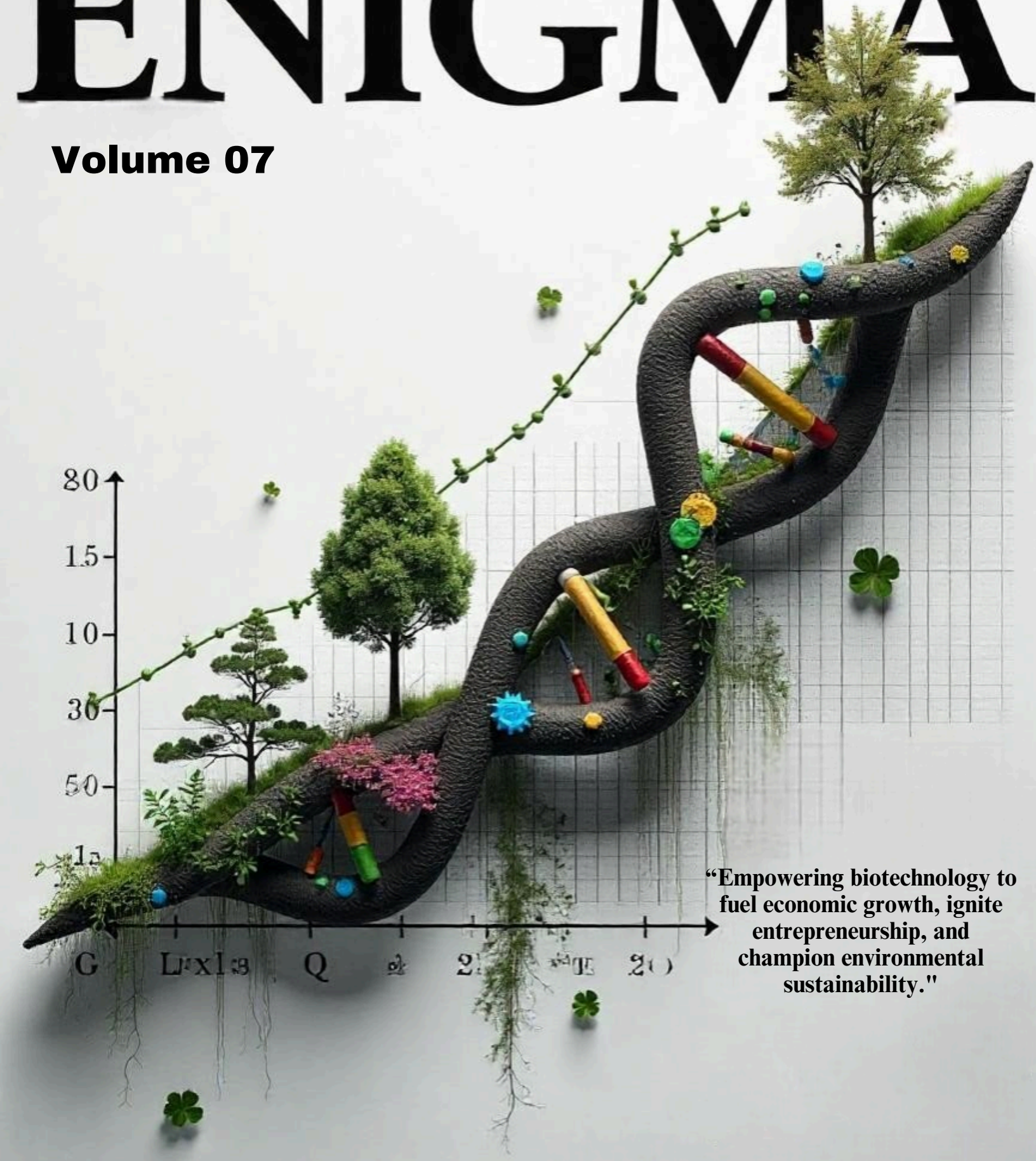
ENIGMA

Volume 07



“Empowering biotechnology to fuel economic growth, ignite entrepreneurship, and champion environmental sustainability."

DR. D. Y. PATIL BIOTECHNOLOGY AND BIOINFORMATICS INSTITUTE
DR. D. Y. PATIL VIDYAPEETH, PIMPRI, PUNE- 411033

ENIGMA 7.0

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From the Director's Desk

Dear Readers,

It brings me immense joy to address you in this special edition of our student magazine, which highlights the incredible work being carried out in the research laboratories of our institute. As a hub of innovation and discovery, our research laboratories form the core of our academic excellence and scientific advancement. This year has been particularly exciting with the introduction of new initiatives and the revision of our curriculum as per NEP2020 guidelines. We have launched several engaging courses, including Aptitude Building, Communication Skills, Science Communication, Science Filming, Indian Knowledge Systems, and Foreign Languages. Additionally, we have introduced an internship policy allowing students to gain hands-on experience in industries or laboratories, enhancing their understanding of industrial processes. We have also incorporated industrial visits and summer internships as part of experiential learning.

Moreover, we have registered with the AICTE Scholarship program for PG students, benefiting many of our students. Nearly 30 industry experts have shared their insights with students in specialized technical aptitude sessions. The "Connect Back to Campus" initiative was introduced to link juniors with seniors and alumni, with alumni conducting mock interviews to prepare juniors for real-world interview scenarios. We also established three clubs—Journal Club, Scholarship Club, and Entrepreneurs' Club—to raise awareness about the latest research, scholarship opportunities, and entrepreneurial ventures. We are delighted that our faculty and students have embraced these initiatives with a progressive spirit.

Our dedicated faculty, passionate researchers, and enthusiastic students continuously push the boundaries of knowledge, addressing some of the most pressing challenges of our time. From groundbreaking discoveries in biotechnology and bioinformatics to pioneering work in environmental sustainability and health sciences, the contributions of our research teams are truly remarkable.

This edition of our magazine showcases the diverse and dynamic research environment we cultivate at our institute. It reflects the collaborative spirit, intellectual rigor, and unwavering commitment of our community to foster an ecosystem of learning and innovation.

As you read through the articles and stories, I hope you feel as inspired and proud as I do of the extraordinary achievements of our researchers. Their dedication not only enhances our academic reputation but also paves the way for future breakthroughs that can transform lives and societies.

I encourage you all to actively engage with the research happening around you. Whether by participating in projects, attending seminars, or staying informed about the latest developments, your involvement is vital to our collective success.Let us continue to strive for excellence and make meaningful contributions to the world through our research and scholarships.

Dr. Neelu Nawani

Director

From the Editors

Dear Readers,

Welcome to the latest edition of our college magazine! We are thrilled to present this issue, filled with inspiring stories, insights, and achievements from our diverse campus community. This edition captures the dynamic spirit of our institution, showcasing a range of content from personal growth narratives and academic excellence to discussions on contemporary issues and creative expressions. It's a testament to the talent, hard work, and resilience of our students and faculty across various fields, whether in the academics, or sports.

Highlights in this version include inspiring accounts of innovative articles, insightful essays that tackle current global and local challenges, and coverage of the numerous events and activities that make our college experience so enriching. We also feature profiles of students who have made significant impacts in their fields, providing a source of inspiration for all.

In this edition, we renew our commitment to fostering a love for reading and writing among young minds. We believe in the power of words to ignite imaginations, broaden horizons, and deepen our understanding of the human experience. Our aim is to inspire and captivate, to bring a sense of wonder and discovery to every student. We have strived to ensure that each page reflects the diverse and vibrant spirit of our academic community, capturing the essence of this remarkable year. May these stories inspire you to dream bigger, reach higher, and embrace the endless possibilities that lie ahead.

As you explore these pages, we hope you feel a sense of pride and connection to our college community. This publication reflects your dedication and passion, bringing your stories to life and creating a lasting legacy for our institution.

Our deepest gratitude goes to everyone who contributed. Your creativity and enthusiasm are the driving forces behind this collection.

We present to you ENIGMA 7. 0. Happy reading!

Shruti Srivastava & Sanvi Nandwana.
Magazine secretaries 2023-24.

ABOUT THE COVER

Bio E3 Policy and Biomanufacturing: Paving the Way for a Sustainable Future

In an era where sustainability and innovation are paramount, the Bio E3 Policy stands as a beacon of progress. Introduced by the Department of Biotechnology, Government of India, this policy focuses on Biotechnology for Economy, Entrepreneurship, and Environment. It seeks to harness the transformative power of biomanufacturing to drive economic growth, foster entrepreneurial ventures, and protect the environment.

The first pillar, Economy, emphasizes the role of biotechnology in driving economic development. Biomanufacturing, through the use of advanced biological processes, has the potential to revolutionize industries ranging from pharmaceuticals to agriculture. By creating high-value products such as biofuels, biodegradable plastics, and novel therapeutics, biomanufacturing can significantly contribute to economic growth and job creation. The Bio E3 Policy encourages investment in biotechnological research and development, supporting the infrastructure and workforce needed to propel the bioeconomy forward.

Entrepreneurship is the second pillar of the Bio E3 Policy. This aspect focuses on fostering innovation and supporting start-ups and small businesses in the biotech sector. By providing resources such as funding, mentorship, and access to cutting-edge technology, the policy aims to cultivate a vibrant ecosystem where new ideas can flourish. Entrepreneurship in biomanufacturing not only drives technological advancement but also brings innovative solutions to market more rapidly, addressing unmet needs in healthcare, agriculture, and environmental management.

The third pillar, Environment, underscores the commitment to sustainability and ecological stewardship. Biomanufacturing offers environmentally friendly alternatives to traditional industrial processes, reducing reliance on fossil fuels and minimizing waste. For instance, using microorganisms to produce chemicals and materials can lead to lower greenhouse gas emissions and less environmental contamination. The Bio E3 Policy advocates for the integration of green practices in biomanufacturing, ensuring that economic and entrepreneurial gains do not come at the expense of the planet.

By promoting sustainable industrialization (SDG 9), ensuring responsible consumption and production (SDG 12), and fostering innovation and infrastructure (SDG 9), the Bio E3 Policy contributes to a broader global agenda of sustainable development. Additionally, by focusing on environmental sustainability, the policy supports climate action (SDG 13) and life on land (SDG 15). The emphasis on economic growth and entrepreneurship aligns with goals related to decent work and economic growth (SDG 8), while fostering partnerships for the goals (SDG 17).

As biomanufacturing continues to evolve, the Bio E3 Policy will play a crucial role in guiding its growth. By balancing economic, entrepreneurial, and environmental priorities, it ensures that this transformative technology benefits society as a whole and contributes to a sustainable future. The Department of Biotechnology's vision, embodied in the Bio E3 Policy, stands as a testament to the potential of biotechnology to drive meaningful progress towards a more sustainable and equitable world.

Shruti Srivastava
BBT 4th Year

WOLBACHIA BACTERIA

GENETIC MANIPULATION FOR CURBING HUMAN DISEASES

Ms. Aarti A. Nakat
M.Sc. Biotechnology 2nd year

Wolbachia are common intracellular, gram-negative bacteria that are found in arthropods and nematodes. These endosymbionts are transmitted vertically through host eggs and alter host biology in diverse ways, including reproductive manipulations, such as feminization, parthenogenesis, male killing and sperm-egg incompatibility. *Wolbachia* can be used for curbing human diseases by population replacement strategy, incompatible insect technique, genetic manipulation, etc.

WOLBACHIA BACTERIA

INTRODUCTION

Wolbachia pipientis was first described nearly a century ago as a Rickettsia-like organism in the gonads of various insects including culex mosquitoes. These are gram-negative bacterial symbionts, which are transmitted vertically through maternal lineage. Estimated to be present in up to 66% of insect species, the *Wolbachia* are probably the most abundant endosymbionts on earth.

WOLBACHIA PHENOTYPES

A. Cytoplasmic incompatibility (Cl)

Most common *Wolbachia* induced reproductive phenotype in arthropods (mosquitoes) is Cl i.e. of two types: Unidirectional Cl and Bidirectional Cl. In Unidirectional Cl, when there is cross between an infected male and uninfected female, the embryo does not survive. In Bidirectional Cl, when male and female mosquitoes harbouring reciprocally incompatible *Wolbachia* strains cross it results in embryonic death.

B. Male Killing

It is a form of reproductive parasitism in which *Wolbachia* selectively kill the developing, infected male, resulting in female-based sex ratios in mosquitoes. WO-mediated killing (wmk) gene expression is responsible for the male embryo death.

C. Parthenogenesis

Wolbachia infected females produce all female offsprings from their unfertilised eggs instead of males.

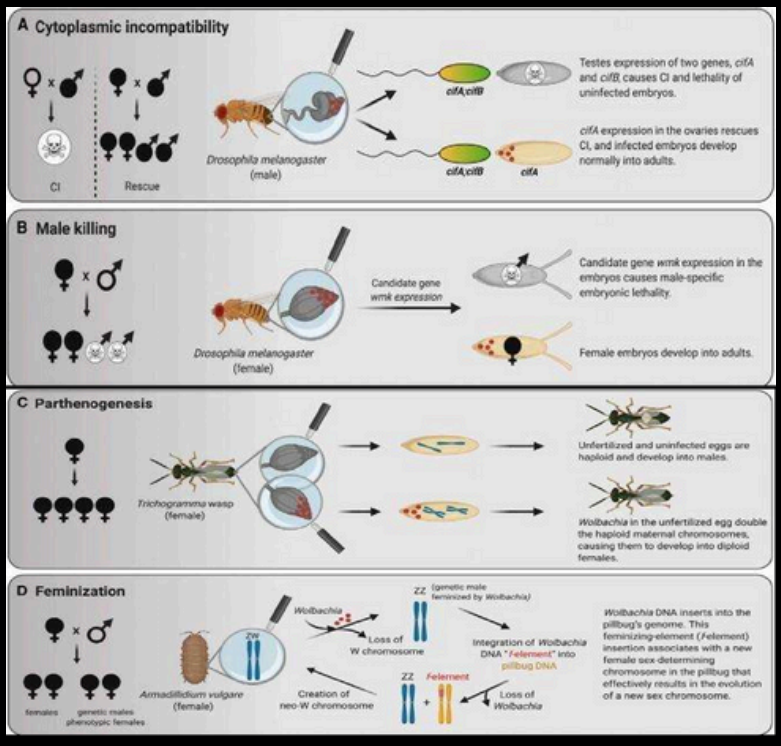
D. Feminization

In this modification, genetic males morphologically develop into females.

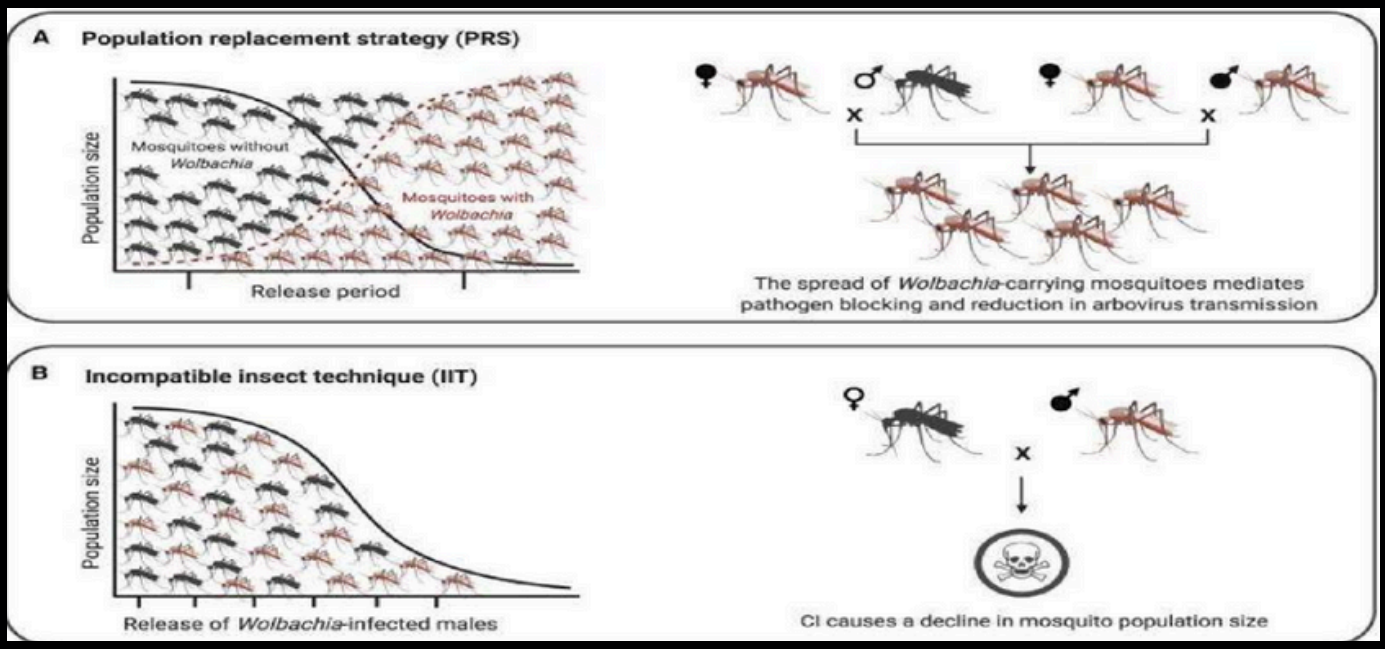
E. Pathogen Resistance

In mosquitoes, *Wolbachia* can limit replication of virus in various somatic tissues such as midgut and salivary glands, making them less capable of transmitting infection to humans.

Wolbachia also forms resistance against bacteria, filarial nematodes and malaria parasite Plasmodium, providing a broad range of pathogen protection. At cellular and molecular levels, *Wolbachia* can induce viral blocking by inhibiting viral binding, entry into the cell and RNA replication in early stages. Such blocking reduces production of virus progenies and thus limits transmission.



WOLBACHIA BACTERIA



APPLICATIONS OF WOLBACHIA FOR CURBING HUMAN DISEASES

A. Population Replacement Strategy

Population replacement strategy commences with release of both male and female mosquitoes where CI-inducing Wolbachia spread throughout uninfected target populations, thus replacing the native species with pathogen-resistant, Wolbachia-infected mosquitoes that are no longer capable of transmitting disease.

B. Incompatible insect technique

Incompatible insect technique entails release of CI-causing Wolbachia infected male mosquitoes that do not produce viable embryos after mating with wildtype uninfected females, thus reducing the total number of disease-transmitting mosquitoes in natural populations.

CONCLUSION:

Wolbachia bacteria, prevalent in arthropods and nematodes, have significant potential in controlling human diseases. Their ability to induce reproductive manipulations and pathogen resistance in mosquitoes can be harnessed through strategies like population replacement and the incompatible insect technique. These methods aim to reduce disease transmission by replacing or reducing populations of disease-carrying mosquitoes. The genetic manipulation of Wolbachia represents a promising avenue for combating vector-borne diseases, offering a biological alternative to chemical pesticides.

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RESEARCH GROUPS AT DYPBBI

MICROBIAL DIVERSITY RESEARCH CENTRE

Prof. Neelu Nawani

Dr. Viniti Vaidya

Dr. Supriya Kore

Dr. Manisha Junnarkar

Dr. Swapnil Gaikwad

Mr. Amol Salagare

Dr. Latika Shendre

Mr. Amit Singh

Dr. Shatavari Kulshrestha

CANCER AND TRANSLATIONAL RESEARCH LAB

Dr. J.K. Pal
Research director

Dr. Nilesh Kumar Sharma

Dr. Amit Ranjan

Dr. Soumya Basu

Dr. Aditee Rane

PLANT AND ENVIRONMENTAL BIOTECHNOLOGY RESEARCH LAB

Dr. Minal Wani

Dr. Supriyo Chowdhury

Dr. Jyoti Amol Deshpande

Dr. Huda Afreen

Dr. Amol Sarjerao Phule

Dr. Heena Tabassum

PROTEIN BIOCHEMISTRY RESEARCH LAB

Dr. Manjusha Dake

Dr. Rajesh Gupta

Dr. Ashwini Puntambekar

BIOINFORMATICS RESEARCH LAB

Dr. Shuchi Nagar

Dr. Dimple Davray

Dr. Rashmi Pathe

GENETICS AND MOLECULAR BIOLOGY RESEARCH LAB

Dr. Satish Sasikumar

FACULTY DYPBBI

Dr. Subhayan Sur

FESTIVAL FETE

The academic year 2023-2024 at Dr. D. Y. Patil Biotechnology and Bioinformatics Institute was marked by a vibrant celebration of unity and cultural diversity through an event, Festive Fete. This event brought together students, faculty, and staff in a lively atmosphere, celebrating the essence of various festivals from different regions of India. The event featured a blend of traditional performances, including folk dances, music, and dramatizations that highlighted the significance of each festival. The Festive Fete not only provided a platform for students to showcase their talents but also fostered a sense of belonging and camaraderie among the participants. The event concluded with a grand finale, where the entire college community joined in a collective celebration, reflecting the spirit of unity in diversity. It was an unforgettable experience that left everyone eagerly looking forward to the next edition.

Glimpses of Festival Fete

Glimpses of Festival Fete

Glimpses of Festival Fete

Glimpses of Festival Fete

Glimpses of Festival Fete

MEMOIR OF NORTHERN LAND

Aditi Das | BBT 2nd Year

About Author

Hi I'm from Nashik, and I have been interested in writing for sometime now and this is my attempt towards that. I've always been fascinated by general societal debates and varied perspective. A self certified internet junkie I enjoyed sharing a travel entry from the journey diary.

As a citizen of the land of culture, the sentence unity in diversity has become age old now. But places around us reinstate this fact every time you leave the mundane life for an adventure. Coming to college gives you the freedom of spontaneity and independence we craved since childhood. Every time that I have stepped out of this campus not for a printout, I discovered a like or a dislike.

Similarly, this year I had the opportunity to visit Uttarakhand during a time that is generally considered the off season or to an extent unsafe, yet the week spent there consisted only of the most splendid memories even though seeing the ruins of landslide leave you a bit scared and apprehensive.
As a matter of fact, before June I had never even heard of valley of flowers and Hemkund sahib was just another religious pilgrimage. But that changed drastically in a week.

When ester while poets say the beauty of India can't be contained in words just reminiscent in mesmerising memories, they just stated facts.

A line that repeated in my mind after returning was: "I never anticipated how much following the river Ganga towards the direction of its tributaries origin affect my perspective"

A reverse journey to not quite the origin but initial phases of ganga and travelling thru the banks of Alknanda and getting to see where Lakshman ganga joins it course to the holiest of river, visualised all those mythological stories I had heard from my Nani. On a side note, now that she isn't at a stage of peak health. It felt I vicariously lived her dream.

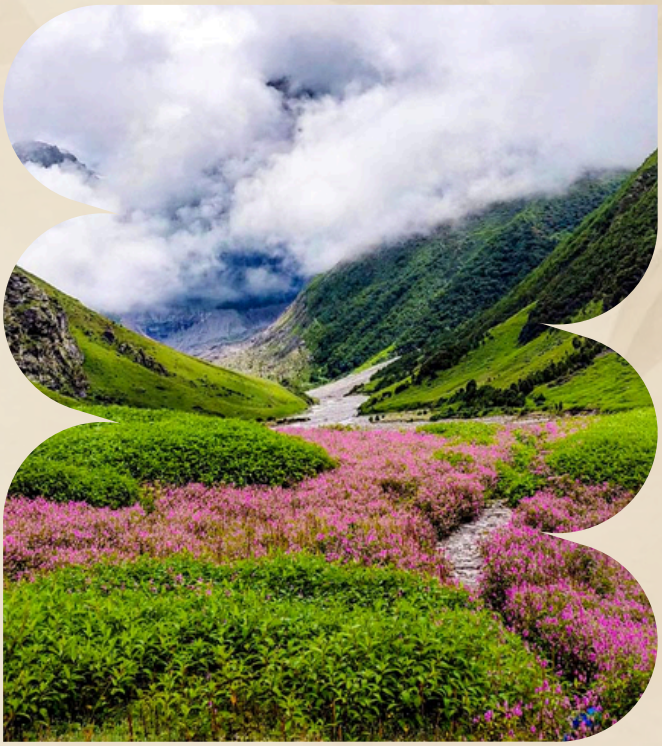
After leaving from Rishikesh for a long road trip of curves, turns and unmade roads reaching Joshimat that lied in embrace of the ranges provided a reprieve.

Then a long trek from nearby Pulna to Ghangharia base camp, bought us the middle of Bhayandar valley that was surrounded with lush green vegetation, soaring peaks and waterfalls with fresh icecold water in any direction you turn.

Next stop the long awaited: Valley of flowers also called Phoolon ki Ghati, a UNESCO world heritage centre. Referred to as “heaven on earth” in some hymns stands sincere to those claims, clandestine to majority of our population. Never in 20years of my life have I felt so at peace, ideally sitting and admiring one of the many waterfalls, whitest of clouds moving over the bluest of skies looking just like a painting hung on numerous walls around cities. The valley, adorning the path and highlighting the glimpse of Nanda devi peak was a marvellous sight.

The trek was strenuous for city freaks like us but the sight made them worthwhile beyond pain and soreness. By the end we had the willpower to do it again but not the physical strength. Just as the apartments in Pune, closely adjacent to each other, on a neighbouring mountain was the Highest gurudwara Hemkund Sahib at an altitude of 15000 feet. A place with such a strong faith that thousands of people young and old, able and disabled flock to the best of their abilities just to get a peek and blessings of the lake and land that sheltered both Guru Gobind Singh and Lakshman during times of arduous meditation. During the trek uphill, the love and concern I received from the kindest people reinstated the losing faith over humanity. Unbiased care shown for a stranger leave you with a warmth in you heart that to an extent is unbelievable. Well, the fact was as bisleri prices increased with the altitude so did the size of people’s generosity.

The atmosphere after entering the gurudwara was surreal, sevakar’s distributing quilts to



help fight the extreme temperatures found that above the ground, people distributing Prashad and some collecting water from the holy lake for their family and friends, the sight was of ultimate faith and belief. On a side note, I will add this because it still has me fascinated, I received full 5g network at 15000 feet which till date has been ever elusive to get in our own campus.

Journey back to the plains was also similar to the descent, all the memories replayed and the mind was preparing to go back to life with an altered perspective. A beautiful Ganga Aarti by the banks of Rishikesh marked the perfect end of this journey.

Living close to Sahyadri’s all my life I did understand the essence of mountains but those age-old magnificent Himalaya’s transform your outlook. Till date never did I really understand the plains vs hills debate about how different development is and how the pace differs. Living in Pune for a year now I won’t say the hustle isn’t worth it but occasional shift to silence and a slower pace of life where not everything is done with the intentions of being in a competition might be a necessary realisation for us. Being in college, these are our prime years not only improve our skills and knowledge but also the only time we are not burdened by the responsibilities of a household. So, a kind request to my peers don’t use yolo as phrase to avoid work but as motivation to do it all.

BOOK REVIEW

Desire Unveiled: A Journey into Murakami's world

Review by Dipshika Basangar - MBT 3rd Year

About The Author

Murakami Haruki (Japanese) is a popular contemporary Japanese writer and translator. Since Childhood, Murakami has been heavily influenced by Western culture, particularly Western music and literature. He grew up reading a range of works by American writers, such as Kurt Vonnegut and Richard Brautigan, and he is often distinguished from other Japanese writers by his Western influences. Murakami studied drama at Waseda University in Tokyo, where he met his wife, Yoko. His first job was at a record store, which is where one of his main characters, Toru Watanabe in Norwegian Wood, works. Shortly before finishing his studies, Murakami opened the coffeehouse 'Peter Cat' which was a jazz bar in the evening in Kokubunji, Tokyo with his wife.

BOOK REVIEW

Sourav Barua
MIT 3rd Year

The first story 'The Second Bakery Attack'
The story is about a recently married couple who live in Tokyo. The anonymous protagonist and his wife awaken in the midnight, overcome by sudden and intense hunger. As they try to figure out why they are so hungry, the narrator reveals to them a tale from his past: when they were students, he and a friend tried to rob a bakery. The rest of the story is told by what happened after and how the past and present are connected.
The narrative delves into the topic of marriage and communication, specifically focusing on the unsaid mutual understanding and peculiar experiences that can unite a married pair.

The Second Story Is 'On Seeing The 100% Perfect Girl'
The narrative is told by a man who remembers an April day when he saw a girl on a street in Tokyo and knew right away that she was his "perfect girl". Even with this deep sense of confidence and recognition, he ignores her and continues walking past. The story then takes an unforseen twist. What-Ifs and Regret: The narrator's regret about not talking to the girl draws attention to how people sometimes daydream about possibilities they've missed and the "what if" scenarios that could have happened.

The Third Story is ' Birthday Girl'
The story is narrated by a woman who is thinking back on her 20th birthday, which she spent in Tokyo working as a waiter at an Italian restaurant. Since the restaurant's owner stays in the building's penthouse and the manager becomes suddenly unwell , the waitress is tasked with bringing dinner to him.
The narrative explores issues of memory and the passing of time as the narrator looks back on her 20th birthday. It suggests that some moments shape who we become for the rest of our lives.

BOOK REVIEW

“I’m not so weird to me

Haruki Murakami

The Fourth Story is 'Samsa In Love'
The narrative opens with Gregor Samsa waking up in his family's house, but this time, he discovers that he has been changed back from a bug to a human. But since he can't recall his past life as a human, he's lost and confused. He finds it difficult to understand simple concepts like clothes and standing up straight because his body feels foreign to him.
Murakami employs his trademark surrealism to fill the plot with elements of the ordinary and the extraordinary, creating a universe in which the unusual becomes the standard.

The Fifth Story 'A Folklore for My Generation: A Prehistory of Late-Stage Capitalism'
A man who describes about his high school beloved. During Japan's significant social and economic transition in the late 1960s, the narrator describes dating a young woman. The girl, who goes by "M," is independent, daring, and a touch enigmatic.

Here are few of my most favourite phrases

“Everything is blowing up around us, but there are still those who care about a broken lock, and others who are dutiful enough to try to fix it ... But maybe that’s the way it should be. Maybe working on the little things as dutifully and honestly as we can is how we stay sane when the world is falling apart.”

“I myself have adopted the position that, in fact, we never choose anything at all. Things happen. Or not.”

“It had no ornament, no defining characteristic. No argument, no message. It fulfilled its structural role but aspired to nothing further.”

FRESHER'S PARTY

The Fresher's Party of the academic year 2023-2024 was an exuberant affair, marking the grand welcome of the new students into the vibrant community , held at the Atrium, was themed around 'Atlantis: city under the sea', which saw the freshers dressed in their finest, embodying the glitz and glamour of underwater kingdom. The evening kicked off with a warm welcome from the seniors, followed by a series of fun-filled activities, including games, dance performances, and a fashion show that had everyone cheering. The highlight of the evening was the Mr. and Ms. Fresher contest, where the new students showcased their talents and charisma. After a tough competition, Manan Bhatia and Vidhya Sharma were crowned Mr. and Ms. Fresher, respectively. The party continued with a lively DJ session, where everyone danced the night away, creating memories that will be cherished for years. The Fresher's Party was not just an event; it was the beginning of new friendships, experiences, and a promising journey ahead for our new students.


DREAMSCAPE


REAMSCAPE


REAMS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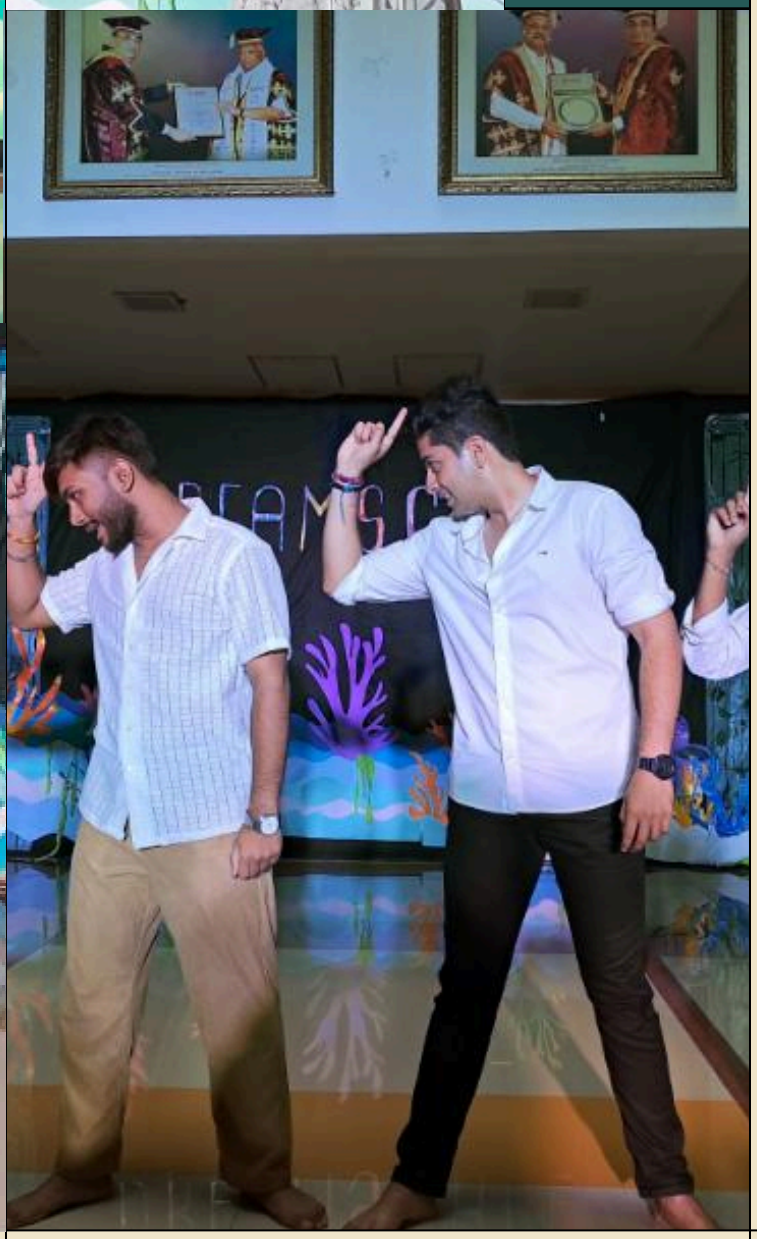



DREAMSCAPE


DREAMSCAPE

POETRY

Poetry has the unique power to capture emotions, thoughts, and experiences that often go beyond words. Each poem in this section invites you to pause, reflect, and find new meaning within simple moments and profound feelings. Let these verses offer a glimpse into the world as seen through the eyes of our talented writers, each line crafted to inspire and connect.

Archit Sumant
MIT 1st year

Unwritten Chapters

When we were young, hearts pure and bright,
Friendship was simple, a bond without fight.
We didn't know the meaning, yet it was true,
A connection so real, between me and you.

But as we grew older, something did change,
Selfishness crept in, friendships became strange.
Promises once made, now broken with ease,
The pain of betrayal, brings us to our knces.

Why has the world turned so cold and so harsh?
Who taught them to trade love for a scar?
Friendship, once pure, now filled with fear,
The word it self now brings us to tears.

Flaws were once hidden, not seen as a crime,
Friends filled the gaps,made us whole over time.
Understanding was key, no need to explain,
No need to show off or to cause any pain.

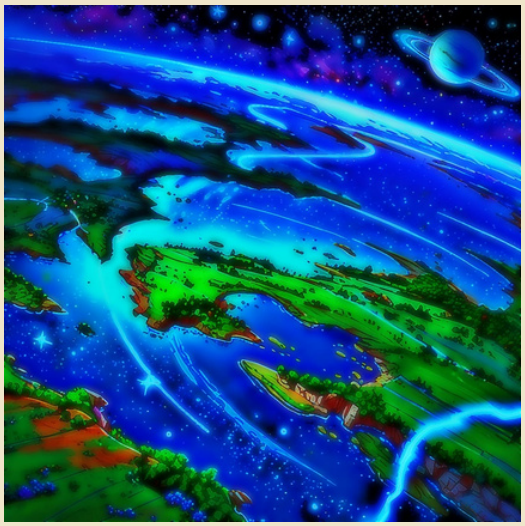
But now,friendships shatter, hearts left to mend,
From strangers to friends, back to strangers again.
A beautiful part of life, now fading away,
Ruined by some, who led it astray.

Yet still, there are those, who hold on so tight,
Friends from our youth, who stay through the night.
Forever they are, through thick and through thin,
A reminder that true friendship still lives within.

Friendship is a universal experience that transcends borders and cultures.
My poem is a reflection on the ways in which these bonds can be a source of comfort, support and joy to a person.

We believe that these relationships are essential to our well being and happiness and hope lo capture their beauty and importance in my writing.

Palak Dahad
BTech BioTechnology



Aditya Ramesh

MIT 1st Year

Mushrooms Over Gulmohars

I would choose mushrooms over gulmohars,
I would choose to suffer over happiness,
I would choose pain over satisfaction,
If that could tell you how much I meant it when I apologised,

I miss the old US, I miss the old WE, My body craves the old meets, I know it's my fault and no-one else's
So want to ask you once again, Will you please forgive me?
Will you let go of what I did,
Because, I would choose mushrooms over gulmohars

If that meant, that you could be YOU, and I could be ME,
and we would go back to being WE,
I'm sorry I got distracted, I'm sorry I lost the way,
Even though it seemed like a formality,
I really meant it when I said,
That I would choose mushrooms over gulmohars

Because it's the mushrooms I hate, and it's the gulmohars i love,
But I would bare what I hate and let go of what I love,
If that meant you would forgive for what I have done
I'm sorry, Will you forgive me ?
I hope you do 'cauz, I would choose mushrooms over gulmohars...

Just for YOU... Just for YOU... Just for YOU.

The poem is a very personal & intimate piece of literature. Manan wrote this poem as an apology to an extremely close friend of his. After they had a fall out, Manan felt extremely guilty and bad about the fact that he lost an extremely valuable and precious relation over a petty and naïve mistake that he made. The mistake ended up hurting his friend and ultimately led to a crack that was irreparable. This poem is the poet's way of expressing his sorrow, grief and guilt that he felt. This piece was written in hope that this apology reaches his long-lost friend and he finds in it himself to forgive the poet. The poem is a metaphoric hand that is reaching out to the reader in hope of rekindling their platonic friendship.

Manan Bhatia

BBT 1st Year

Archit Sumant
MIT 1st Year

Archit Sumant
MIT 1st year

Parth Barhate

I have been writing poetries and articles since my school days and I am passionate about expressing my ideas in a creative form to the community and make a change in the existing conditions. I have written this poem a couple of months back to highlight the vulnerable condition of women in our society.

Unveiling her heart

Here whimpering orbs bleared her field of vision,
The confused temple blemished her alluring feature,
Her woebegone state trembled in melancholy and trepidation,
As she crouched her faltering cadaverous figure.

Her timeline lips parted to uncover her treasure of agony,
As her drenched physique antagonized my mind,
I could hear the affliction in her tranquility,
I could visualise her being maltreated by the dastardly fiend.

I gently stroked her head to mollify her perturbed state,
As she began bawling recalling him clobbering her hard,
I wish no woman have to endure such woeful fate,
I wish no woman have to ever be vulnerable and scared.

Khushi Desai
MBT, 4th Year

SPOTLIGHT ON EXCELLENCE: INSIGHTS FROM MITACS FELLOWSHIP RECIPIENTS

SOUMYA BHATIA

BBT III YEAR

Q. Introduce yourself ?

Hello! My name is Soumya Bhatia and I'm a student at Dr. D.Y. Patil Biotechnology and Bioinformatics Institute, pursuing B.Tech in Biotechnology. I'm passionate about the field of biotechnology and enjoy learning about new advancements in science. I'm excited to connect with others and share experiences.

Q.What has been the most rewarding aspect of your internship experience so far?

The most rewarding aspect of my internship experience has been the opportunity to apply theoretical knowledge in a practical setting. Working on real projects within a team has allowed me to develop my skills, gain valuable insights and learn from experienced professionals. Additionally, the chance to contribute to meaningful work and see the impact of my efforts has been incredibly fulfilling. Building connections and networking with others in the field has also enriched my experience. Overall, it's a blend of personal growth, skill development and the satisfaction of contributing to a team that has made this internship so rewarding.

Q. What potential impact do you foresee this research having in your field of study? How do you envision applying what you've learned during this internship to your future studies or career?

I foresee this research having a significant impact in my field of study by contributing to advancements in understanding key concepts or technologies. The findings could lead to new methodologies or applications that address current challenges, ultimately benefiting both academia and industry. I envision applying what I've learned during this internship to my future studies by integrating these insights into my coursework and projects. The practical skills I've developed will enhance my research capabilities and enable me to approach problems with a more informed perspective. In my career, I plan to leverage this experience to drive innovation and contribute to meaningful projects that align with the goals of my field.

Q. How did your expectations of the internship compare to the actual experience?

My expectations of the internship were generally positive, as I anticipated gaining practical experience and learning new skills. I was surprised by the level of responsibility I was given early on, which allowed me to contribute significantly to projects.Additionally, the collaborative environment was more dynamic than I had imagined, with frequent brainstorming sessions and open discussions that fostered creativity. I also found the mentorship aspect to be incredibly valuable; having access to experienced professionals who were willing to guide and provide feedback was a pleasant surprise.

PRIYANKA SONAR

MBT III YEAR

Q. Introduce yourself ?

Hello all! I am Miss Priyanka, a fourth-year undergraduate Student Researcher specializing in Cardio-Oncology at the Cancer and Translational Research Lab. I have the privilege of working under the esteemed guidance of Prof. Nilesh Kumar Sharma Sir.

Q.Can you describe the application process for the MITACS Globalink Research Internship? What were the key steps involved?

The applications were accepted through the MITACS portal. The key steps involved were project selection - research statements - preparing documentation such as passport/CV - LORs Even before all this, the building block is 'you' yourself! You have to explore your own interests and work in small bits to make yourself acquainted with your topic of interest. Take help of our teachers, guides and seniors! & Ofcourse you could reach out to me at ANY point for assistance, be it personal or professional reasons.

Q. How did your expectations of the internship compare to the actual experience?

There were many surprises, you have to do your own dishes, but you can also roam till late in the evening. So it's a blend... There are sociocultural differences you might find, but, overall vibes are friendly. Professionally speaking, there is workload, the office patterns are different here, altogether it's easier said than done. Expectations and reality were almost equivalent.

Q. What has been the most rewarding aspect of your internship experience so far?

I'm working on Non-Sustained Ventricular Tachycardia (NSVT) experienced after second or subsequent delivery, this area is quite unexplored as of 2024 and the reason for NSVT to occur postpartum (that too, after second childbirth) is lesser known. To uncover this reason, is, indeed, a good experience and experiment.

Q. What potential impact do you foresee this research having in your field of study? How do you envision applying what you've learned during this internship to your future studies or career?

This NSVT studies will help in nursing education and in reducing the maternal-mortality rates. The area is significant in Cardiology domain and we shall be able to clinically address this disorder with medicinal or surgical treatment interventions in the coming decade or two.

Q. How did you prepare for the application and interview stages of the MITACS Globalink program?
Could you share your experience during the interview process for the internship? What aspects did they focus on?

MITACS interview is a blend of personal and technical qualifications. Make sure to choose a project that 'EXCITES' you..., you shouldn't cry over reading a gazillion research papers; be thorough with the knowledge. Basically, you should know your 'thing', for example, if developmental biology is your project of choice, the book - Gilbert should be helpful to address the technical questions. Likewise, find references suitable to your research area. Soft skills are something you should work on as well, that will happen gradually. We have mock interviews scheduled at the semester end that have been a great addition to our curriculum, they should be pretty much helpful for interview preparations for internships in general.

ANURADHA JOSHI

MIT IV YEAR

Q. Introduce yourself ?

My name is Anuradha Joshi, and I plan to graduate with an MTech in Biotechnology in 2025. My interests include animal and insect studies, conservation and biodiversity, genetics, molecular ecology, and evolution. I intend to continue my research and pursue a PhD. I also appreciate writing about science and using art and language to improve scientific communication.

Q.What has been the most rewarding aspect of your internship experience so far?

Meeting so many new people, seeing so many new places, and inculcating so many new habits has been very fulfilling. I have been in a new land with a new routine: cooking for myself, giving myself pep talks when I feel low, and being my own cheerleader. I am an introvert and I like to keep to myself most of the time, but this experience has made me open up a bit more. This internship has made me realize a lot more of my potential to tackle things, maintain composure in stressful times, and, most importantly, to believe in myself more. Being able to carry out my own little project has been exciting! And I am glad my professor entrusted me with so many rewarding tasks!

Q. What potential impact do you foresee this research having in your field of study? How do you envision applying what you've learned during this internship to your future studies or career?

I foresee this research having a significant impact in my field of study by contributing to advancements in understanding key concepts or technologies. The findings could lead to new methodologies or applications that address current challenges, ultimately benefiting both academia and industry.

I envision applying what I've learned during this internship to my future studies by integrating these insights into my coursework and projects. The practical skills I've developed will enhance my research capabilities and enable me to approach problems with a more informed perspective. In my career, I plan to leverage this experience to drive innovation and contribute to meaningful projects that align with the goals of my field. Overall, this internship has equipped me with the tools and knowledge to make a positive impact in my future endeavors.

Overall, this internship has equipped me with the tools and knowledge to make a positive impact in my future endeavors. The experience has broadened my perspective, strengthened my expertise, and prepared me to contribute effectively to academia, industry, and beyond.

NATIONAL SCIENCE DAY

The Science Day celebration at DYPBBI began with an inauguration ceremony featuring esteemed guests, including Chief Guest Dr. Ravindra Utgikar, Vice President at Praj Industries, and Mr. Akshay Khopade, Senior Manager at Praj. Dr. Utgikar delivered a keynote on "Bioeconomy for Sustainable Development," discussing sustainability and innovation. The event also included competitions for DYPBBI and school students, such as poster making, model making, and a quiz, with active participation from schools like Indus International, Podar International, and Ashwini International. The event was marked by enthusiastic involvement from both students and faculty.

Sneak-peek into Science Day


BIO-SUSTAINABLE TOILET
ASHWINI INTERNATIONAL SCHOOL
13
SUSTAINABLE TOILET
How To Use?


NATIONAL SCIENCE DAY 2024

Sneak-peek into Science Day


HISTORY
OF
INDIAN
SCIENCE


NATIONAL SCIENCE DAY 2024

BIOTECHNOLOGY
A BOON TO HUMANKIND

Adiya Ramesh
MIT 1st year

ARTICLE

As you begin reading through this article of Biotechnology growing in India, and across the globe, such that it succeeds to awaken to amazing facts about Biotechnology that sure will be an eye opener.

Biotechnology is a branch of science that combines biology and technology with the aim of improving people's quality of life. It uses living cells or any of their components to develop products with specific aims. Biotechnology has been around since the beginning of civilization, with the domestication of plants and animals and the discovery of fermentation. For example, agricultural biotechnology is a precise way to create seeds with specific qualities.

During the COVID-19 pandemic, biotech companies like Moderna and BioNTech quickly researched, developed, produced, and administered vaccines to fight the coronavirus. Contributions of our Indians to Biotechnology are very remarkable and acknowledged the world over. India is among the Top 12 destinations for biotechnology worldwide and 3rd largest destination for biotechnology in Asia Pacific. India's Bio-Economy has crossed an estimated $130 Bn in the year 2024 and has witnessed a many fold increase in valuation in the past eleven years, with COVID-19 giving the industry a much-needed push. Biotechnology, with its knowledge-intensive nature and tremendous economic potential, has emerged as one of the rapidly-growing sectors of the Indian knowledge economy today. Focusing on the practical use of biological systems to produce goods and services, biotechnology has made significant achievements in the growth and its application in the areas of agriculture, healthcare, environment, etc through R & D projects and infrastructure creation. Biotechnology seemed to have improved the conditions of Living but the way information has been communicated and the way decisions are made; affect perception and public support or opposition to a new technology. Biotechnology is not a system of farming; It reflects no specific philosophy nor is it guided by a set of principles or performance criteria. It is a bag of tools than can be used for good or evil, and lots in between. Modern biotechnology provides breakthrough products and technologies to combat debilitating and rare diseases, reduce our environmental footprint, feed the hungry, use less and cleaner energy, and have safer, cleaner and more efficient industrial manufacturing processes.

Hence, over the value of biotechnology in the society is polarized and impassioned. This paper clearly evaluates the rewards of this field into the society and its disfavours from the public.

India has a wealth of natural resources with the potential to drive economic growth and social development: land, minerals, biological diversity, wildlife, fisheries and water, although these are unevenly distributed. India's economy and people are vulnerable to environmental hazards such as droughts and floods, the frequency and extremity of which is likely to be increased by climate change.

Soumi Ghosh
BBT 3rd Year

ARTICLE

Vidhi Kadlag
MBT 1st Year

It is experiencing faster degradation of many environmental resources. Problems include land degradation, desertification, and biodiversity loss, deforestation, declining soil productivity, pollution and depletion of freshwater. One of the central messages emerging from the assessment of India's status in the global economy is the need for India to emphasize building its capacity to solve its own problems. Every problem enumerated above has one or more solutions in the application of science & technology and innovation.

Application of science and technology has contributed significantly to defining an economic divide between rich and poor nations.

Biotechnology- A scientific term formed when two words are put together: 'Bio', which stands for biology, the science of life; and 'Technology', the tools and techniques used to achieve a particular purpose. The term Biotechnology was coined by Karoly Rekey, a Hungarian agricultural economist who, in 1917, foresaw the inevitability of a biology-technology merger. He is regarded by some as the "father" of biotechnology. The entrance of this new field into the lexicon of environmental controversies coincided with increasing awareness of the nefarious effects of industrialization, and with the greater scrutiny of our faith in science and technological progress. Mapping the discourse of biotechnology finds franken- foods, golden rice, monarch butterflies, miracle drugs, and counterclaims about food safety and security, ecological stewardship, medical progress, and social justice.

Impact on Society: We are in the early stages of a major revolution in life sciences and biotechnology that will impact every aspect of our society. The major benefits on the horizon will only be realized if society accepts biotechnology and resulting products as ethical and safe. Impact on the global community: Agricultural biotechnology can help solve the global food crisis and make a positive impact on world hunger. Crops improved through agricultural biotechnology have been grown commercially on a commodity scale for over 12 years. These crops have been adopted worldwide at rates exceeding any other advances in the history of agriculture. This paper assesses the impact of biotechnology is having on the global agriculture system from a community, health and environmental perspective. According to the United Nations, food production will have to rise by 50 percent by the year 2030 to meet the demands of a growing population. Agricultural biotechnology has been shown to multiply crop production by seven- to tenfold in some developing countries, far beyond the production capabilities of traditional agriculture, and the global community is taking notice. Farmers earn higher incomes in every country where biotech crops are grown. When farmers benefit, their communities benefit as well. Impact on the environment: Arguably, the biggest environmental impact of biotech crops has been the adoption of no-till farming,. Herbicide-tolerant crops like biotech soybeans allowed farmers to almost completely eliminate ploughing on their fields, resulting in better soil health and conservation, improved water retention/ decreased soil erosion and decreased herbicide runoff.

ARTICLE

In fact, no-till farming has led to a global reduction of 14.76 billion kg of carbon dioxide (CO2) in 2006, the equivalent of removing 6.56 million cars from the roads for one year. Global pesticide applications decreased six percent in the 10 years after biotechnology derived crops were first introduced, eliminating 379 million pounds of pesticide applications. Biotechnology derived crops are improving water quality both through less herbicide and pesticide in runoff from fields, and in the future also through reducing phosphorus excretion in livestock by using biotech derived feed that contains reduced levels of phytate.

Applications of biotechnology in various fields

Medicine: Biotechnology is used to produce drugs and therapeutic proteins, such as synthetic insulin and growth hormone. It also helps develop vaccines and diagnostic tests for diseases. Gene therapy is a biotechnology application that involves inserting a normal gene into a person's cells to correct a gene defect.

Agriculture: Biotechnology improves crop production and traits by introducing desirable traits into plants, such as resistance to pests, diseases, or environmental stress.

Environment: Biotechnology can help reduce our environmental footprint.

Energy: Biotechnology can help create alternative sources of energy.

Industrial manufacturing: Biotechnology can help make industrial manufacturing processes safer, cleaner, and more efficient.

Biotechnology has to do with using the biological systems found in organisms or using the living organisms to make technological advances and deploy those technologies in different fields.

Biotechnology plays a huge role in our everyday lives — from the clothes we wear to how we wash them, the food we eat to how we source them, the medicine we take to treat our bodies, and even the fuel we use to move our vehicles. Hence, the need for more graduates with a bachelor of biotechnology degree.

The following are how biotechnology applies to our everyday lives.

Biofuel:

Biofuel is obtained by fermenting sugars extracted from plants to ethanol, using a similar process like the one used in beer and wine-making. Biofuels like ethanol and biodiesel are blended with petrol and biodiesel to meet the legislation on greenhouse gas emissions.

When the blended biofuels are used in road transportation, the fuel can reduce their carbon impact.

ARTICLE

Vaccines
Vaccines are introduced into the body's immune system to fight pathogens when they attack. It is achieved by introducing weakened versions of the disease into the bloodstream.
The weakened disease pathogens are extracted using biotechnological techniques like growing the antigenic proteins in genetically engineered crops.

Bioremediation
Bioremediation has to do with utilizing biotechnical applications to develop an enzyme that goes beyond pre-treating some industrial and food waste components to allow for efficient removal of sewage systems.

Pest Resistant Crops
Biotechnology has offered various techniques for the creation of crops that naturally display anti-pest characteristics.
So, instead of dusting and spraying the plants with pesticides, the plants become naturally resistant to pests. An example is the bacteria Bacillus thuringiensis genes being transferred to crops.

Environmental Engineers
Environmental engineers have discovered a clean and safe way to dispose of waste. They do this by introducing nutrients to stimulate the activity of bacteria in the soil at the waste site. The bacteria digest the waste, thereby turning it into harmless byproducts.
After consuming the waste, the bacteria either die or return to their normal population levels. There are situations where the byproducts of the bacteria are useful and can be used for other valuable purposes.

Biodefense and Public Safety
Military weapons have gone biological. Therefore, military units and disaster responders are now

faced with threats from biological and chemical substances.

There are now biotechnology-produced enzymes that can break down toxic chemicals, including nerve-damaging gases like Sarin and Soman.
Those dangerous gases are broken down in an effective, convenient, and environmentally-friendly way. The enzymes are simply mixed with water and sprayed at the site of the attack.

Forensic science – DNA fingerprinting
Every living organism has chromosomes which are made up of DNA sequence. The DNA sequence is unique for every individual.
Identifying the pattern of DNA sequences is done in forensic DNA analysis using biotechnological tools. DNA fingerprinting is a useful tool in identifying a suspect in a criminal investigation, in paternity cases or identifying unrecognizable victims in a catastrophe.

The outstanding contribution by our Indians in the field of Biotechnology are noteworthy, by fellow Indians – the next Superpower.

NSS EVENTS

As part of a social outreach activity, second-year students from the BBT, MBT, and MIT programs visited an old age home and a school for autistic individuals. The initiative aimed to foster empathy and social responsibility among the students while providing support and companionship to the elderly and autistic children. During their visit, the students engaged in various activities, including interactive games, storytelling sessions, and art workshops, creating a joyful and inclusive atmosphere. This experience not only enriched the lives of the residents and students but also offered valuable lessons in compassion and community service.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Dr D. Y. Patil Vidyapeeth, Pune
DR. D. Y. PATIL BIOTECHNOLOGY AND BIOINFORMATICS INSTITUTE
SOCIAL OUTREACH ACTIVITY
Vridh Anand Ashram


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कार्यशाळा व वस्तीगृह,मारूंजी
Office Contact
9850092195 | 9850092642
www.navkshitij.org
DPU
Dr D. Y. Patil Vidyapeeth, Pune
DR. D. Y. PATIL BIOTECHNOLOGY AND BIOINFORMATICS INSTITUTE
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REFLECTIONS FROM THE PAST

Gain insights from former council members as they share their journeys, growth moments, and key takeaways. Their experiences highlight the dedication, resilience, and passion that shape our community.

Meet the Minds and Hearts of Our Event

LEADING WITH PURPOSE

What legacy do you hope to leave behind as General Secretary, and how would you measure its impact?

To be a leader isn't to always lead people around you, its to understand them, talk to them more often, make them realise that you are one of them and never letting your ego get the best of you. People often mistaken that once someone makes it to the council there are these imaginary horns on them, they are hesitant to approach you especially when you are the "General Secretary". One of the reasons of wanting to be a part the council was to make sure I am approachable to everyone around me, from the freshers to my batchmates. I want them to think of me as a friend first, someone they can talk to, someone who listens. The impact I hope to measure is how much I've been able to foster a sense of community, trust, and accessibility, where students feel truly seen and heard by the council.

How did your role as General Secretary contribute to your personal growth and development?

I believe this post has offered me as much as I've put into it. The person I am today is so much different from a year ago- more confident, more grateful and dare I say, a little wiser. This experience has has taught me to see things from new perspectives, challenge myself, and embrace the unexpected. Looking back, I'm grateful for the ups and downs because each step has helped shape who I am today and I wouldn't change it for anything. Every moment, every lesson, has been worth it.

Shiny Raj
General Secretary

What was the most challenging aspect of being the General Secretary, and how did you address it?

Stuck between trying to make a decision and likewise not hurting people was a big challenge. It was important to be responsible and mindful of each and every action around and I always made it a point to hear out every opinion.

What key qualities do you think a successful General Secretary must have, and how did you develop these during your tenure?

It takes a lot of privilege to be the General Secretary of a college and i think having a steady, strong and right mind makes it work. I got lucky to experience and learn the duties back when i was the cultural secretary itself and it sure played a major role in my 2 years of council experience. Being calm and stable, making a wise decision keeping in mind all the consequences and knowing qualities of all the sectors is a must. I definitely did not develop these in a night, but worked on myself since the day i stepped in college. It was a real journey and id always be grateful.

Ria Bhatt
General Secretary

VOICES OF EXPERIENCE

Lessons from Our Leaders

Ishanvy Hemrajani
Joint General Secretary

How did you handle situations where there were differing opinions among council members on important decisions?

When differing opinions arose among council members, I focused on fostering open dialogue and ensuring everyone's voice was heard. I encouraged constructive discussions to understand various perspectives, helped find common ground, and worked towards a consensus. If necessary, I facilitated compromise and made sure the final decision aligned with the best interests of the student body, ensuring transparency and unity within the council.

In what ways did you complement the General Secretary's role, and how did you divide responsibilities effectively?
I complemented the General Secretary's role by focusing on day-to-day student engagement, managing communication channels, and overseeing specific initiatives. While the General Secretary handled high-level strategic planning and external relations, I took on operational tasks, ensured the smooth execution of projects, and addressed immediate student concerns. This division allowed us to leverage our strengths and work efficiently as a team.

How did your role as Joint General Secretary prepare you for future leadership positions?

My tenure as a Joint General secretary has been a complete eye opener. This role taught me to balance diverse perspectives and stay solution-oriented under pressure. I learned how to manage diverse teams, delegate responsibilities effectively, and work under pressure to meet tight deadlines. Alongside this, my role involved mediating between students and faculty, which enhanced my negotiation and conflict-resolution skills. All of these skills are vital in making informed and balanced decisions.

What is one moment from your tenure that you will cherish forever?
One moment that I would absolutely cherish from my tenure is the sweet taste of success that I and all my council members had after any event. As the students left college after taking a gazillion pictures and all that was left was the Decor and days tired council members, that when the feeling of "we did it" hits. Those moments are the momemts I would cherish forever. Thankful & Grateful for all my Council members!

Yash Jogdande
Joint General Secretary

VOICES OF EXPERIENCE

Lessons from Our Leaders

How did you motivate teams or individuals after a loss or poor performance in an event?

After a loss or poor performance, I'd motivate the team by:
Recognizing their feelings: I know this is tough, but you all gave your best.
Highlighting positives: There were some great moments out there.
Focusing on improvement: Let's figure out what we can do better next time.
Reassuring them: You have the skills to succeed, don't doubt yourself.
Encouraging a growth mindset: Every loss is a chance to learn and get better.
Leading by example: Staying positive myself to show them how to handle setbacks.
Emphasizing teamwork: We're in this together, win or lose.
Celebrating small wins: We made progress, and that's something to build on.

By staying positive, focusing on progress, and showing support, I'd help the team bounce back and stay motivated.

Aditya P Sashi
Sports Secretary

What strategies did you adopt to encourage GenZ to transition from mobile devices to field activities?

it was not very difficult to get their attention towards extracurricular activities, I encouraged all the students by saying that they could showcase their talent and show the seniors that they are better than them, so the spirit of competition was one way that helped them to take part in the field activities.

What is one moment from your tenure that you will cherish forever?

I will always remember the time when one of my seniors told me that "In my entire four years of college, I've never seen a sports secretary as hardworking as you keep it up Adi" i think i will never be able to forget that moment.

Gayatri Alandikar
Sports Secretary

ECHOES OF LEADERSHIP

Stories That Inspire

What motivated you to take on the role of Magazine Secretary, and how did you balance creative content with academic commitments?

Taking on the role of Magazine Secretary was driven by my passion for writing, creativity, and leadership. I viewed this position as an opportunity to contribute to the college community, bring fresh perspectives to the publication, and hone my organizational skills. This role allowed me to collaborate with a diverse group of peers, fostering a sense of teamwork and shared purpose. Balancing creative content with academic commitments required effective time management and prioritization. I developed a detailed schedule that allocated specific times for magazine responsibilities and academic work, ensuring that neither aspect was neglected. Prioritization was key; I focused on urgent and important tasks, dedicating more time to magazine responsibilities during peak periods, such as just before publication, while giving precedence to academic work during exams and major deadlines. Regular team meetings and clear communication channels also played a crucial role in maintaining this balance, allowing me to stay on top of both creative and academic commitments without compromising on the quality of either. This experience not only enriched my college life but also equipped me with valuable skills in time management, teamwork, and leadership.

Sanvi Nandwana
Magazine Secretary

How did your role as Magazine Secretary contribute to your personal growth and development?

This role greatly contributed to my personal growth. It improved my communication and conflict management skills through interactions with students and faculty, honed my time management in balancing academics, and boosted my confidence. Using AI tools also enhanced my design and presentation skills, empowering me to make balanced, impactful decisions.

How did you utilize AI tools to enhance content creation or streamline processes during your tenure as Magazine Secretary?

I leveraged AI tools to elevate our content creation and streamline our workflow. ChatGPT was invaluable for generating eye-catching headings, refining content, and even creating scenario-based images, adding creativity and clarity to our publication. Alongside this, I used Canva extensively to select the perfect templates and design visually appealing flyers, posters, and banners, all while seamlessly coordinating with MS Office. This approach not only saved time but also ensured each piece looked professional and aligned with our magazine's vision..

Shruti Srivastava
Magazine Secretary

ECHOES OF LEADERSHIP

Stories That Inspire

Sejuti Nandi

Academic Secretary

How did you ensure effective communication between students and faculty to address academic concerns?

We the academic secretaries are meant to be the bridge between the students and the faculty, we did just that. Any concerns we received from the student body we informed the faculties and tried to ensure that it is resolved. We were open to all and made ourselves available for the students to approach us with any concerns or issues they faced.

What is one initiative you wanted to implement during your tenure but were unable to, and how can this idea be passed on to the next council?

We wanted to conduct multiple debates and MUN since we had received many requests from the student body for the same , we had started the efforts for this and have informed the next Academic Secretaries of the same, hoping that they will also make some efforts regarding the same and any new ideas ideas that they have.

How did you identify the academic needs of students, and what steps did you take to address them?

The main key for identifying the academic needs of the students were observations and feedbacks. One of the major issues that were observed earlier were the lack of participation. To tackle this issue we tried to introduce more interactive and open academic events, for example for national youth day we kept crosswords puzzles for the first round. In the second round we provided the qualifying students with and interactive quiz and game show platform to showcase their talents.

What initiatives did you introduce as Academic Secretary to improve the academic environment and support student success?

As Academic Secretary, we aimed to create a more interactive and welcoming environment for students by introducing non-traditional learning methods to make education enjoyable and engaging. We organized group discussions, debates, and gamified activities like quizzes and simulations to encourage active participation and make learning more dynamic. Emphasis was placed on project-based and group based learning allowing students to apply theoretical knowledge.

Aditi Rana

Academic Secretary

BEYOND THE TITLE

Insights from Our Former Leaders

How did you balance your academic commitments with your role as a cultural secretary?

I never sacrificed my academic commitments, which was crucial in maintaining my academic performance while serving as Cultural Secretary. By prioritizing my studies and implementing effective time management strategies, I was able to complete my event related responsibilities efficiently. This approach ensured that my duties as Cultural Secretary did not hinder my academic success, allowing me to excel in both areas without compromise.

How did you manage the budget for cultural events, and what did you learn about effectively utilizing available funds during your time as Cultural Secretary?

As Cultural Secretary, I managed the budget by prioritizing efficient fund allocation and analyzing each event's needs to maximize impact. Collaborating closely with the General Secretary and Joint General Secretaries, we explored cost-effective alternatives without sacrificing quality. I learned the importance of balancing creativity with practicality, allowing me to work within financial constraints while delivering memorable experiences and enhancing my budgeting and decision-making skills.

Roshni

Cultural Secretary

What strategies do you use to ensure that all participants and team members feel valued and motivated during the planning of cultural events?

As Cultural Secretary, I make sure everyone feels valued by listening to their ideas and assigning tasks based on their strengths. I thank team members for their efforts and give them freedom to be creative. I organize fun team activities and get feedback to improve, making everyone feel included and motivated.

Can you share an example of a cultural event you organized that you are particularly proud of, and what made it unique?

CYTOSOUL, the most challenging event we organized during our tenure. Coming out as a really different plan particularly this year, make it the most memorable and the most challenging one. But having the support of my fellow council members and the beloved students, we pulled it off really well.

Dev Patel

Cultural Secretary

BEYOND THE TITLE

Insights from Our Former Leaders

What is one moment from your tenure that you will cherish forever?How did you ensure student participation and engagement in NSS activities?

One moment I will cherish forever from my tenure as an NSS coordinator was organizing a visit to a school for adults with intellectual disabilities. Watching the students interact with them, demonstrating empathy and patience, was incredibly inspiring. It showed how meaningful these connections can be, both for the volunteers and the individuals they supported. To ensure student participation and engagement in NSS activities, I focused on clear communication, creating a sense of community, and aligning activities with students' interests and passions. We also organized a variety of activities, from hands-on volunteering to awareness programs, to appeal to different motivations and skills.

How did you ensure that the objectives of NSS personality development through community service were reflected in the projects and activities you organized?

To ensure that the NSS objectives of personality development through community service were reflected in the projects and activities I organized, I focused on creating opportunities for students to engage meaningfully with the community while developing key personal and social skills. I designed activities that challenged students to step out of their comfort zones, whether it was organizing visits to schools for adults with intellectual disabilities, old age homes, or leading the NSS Day and Amrit Kalash Yatra. Each of these projects required students to interact with people from different walks of life, fostering empathy, communication, and problem-solving skills. Additionally, I incorporated discussion after each events.

Anshaa Shaikh

NSS Co-ordinator

BEHIND THE SCENES

Lessons from the Council

Arundhati Divgi
Placement Cell Co-ordinator

What role do you believe soft skills play in securing placements, and how did you help students develop these skills?
While a good academic record is something everyone chases, aptitude-building and experience in the workforce along with a strong conviction and confidence go a long way. The placement cell conducted aptitude building sessions, CV building activities and shared information about several opportunities for internships in different fields.

What criteria do you consider when selecting guest speakers for placement-related events?
We encourage guest speakers from different categories including those with contacts for excellent higher education opportunities in India and abroad. Industry professionals who give an idea of the current market scenario. College alumnus who share their personal experiences of how they went from being a student of DYPBBI to achieving their dreams, first hand.

How do you keep up with industry trends and changes, and how do you incorporate this knowledge into the placement process?
The placement cell keeps itself up-to-date with the current industry trends by regularly attending webinars, following industry publications, and engaging with professional networks. These insights are then incorporated into the process of preparing the students for placement by tailoring training programs to align with current market demands, focusing on emerging sectors, and guiding students on acquiring in-demand skills and preparing for relevant roles.

How do you stay informed about the changing job market and the skills in demand by employers?
Staying informed about the evolving job market by monitoring industry reports, attending webinars, engaging with professional networks, and maintaining regular communication with recruiters and alumni helped identify emerging trends and the skills employers prioritize, ensuring that students are well-prepared to meet market demands accordingly.

Chahek Agarwala
Placement Cell Co-ordinator

BEHIND THE SCENES

Lessons from the Council

Aditya Purohit

Placement Cell Co-ordinator

How did your role as Placement Cell Coordinator contribute to your personal growth and development?

My role as Placement Cell Coordinator significantly contributed to my personal growth by enhancing my leadership, communication, and organizational skills. Coordinating events and engaging with industry professionals improved my confidence and networking abilities, while supporting students' career paths deepened my understanding of the biotechnology field and the skills required for success.

What is one initiative you wanted to implement during your tenure but were unable to, and how can this idea be passed on to the next council?

One initiative I wanted to implement was a mentorship program connecting students with industry professionals for personalized career guidance. Although it wasn't feasible during my tenure, I recommend passing this idea on to the next council by establishing a framework for alumni engagement and collaborating with industry partners to set up a structured mentorship platform.

How did you collaborate with alumni to create networking opportunities for current students?

LinkedIn, which served as a highly effective platform for professional connections. I approached alumni with a friendly yet professional message that briefly introduced my background and emphasized our shared college experience. By building on this common ground, I created a genuine connection before politely requesting their support or guidance in helping current students.

How do you stay informed about the changing job market and the skills in demand by employers?

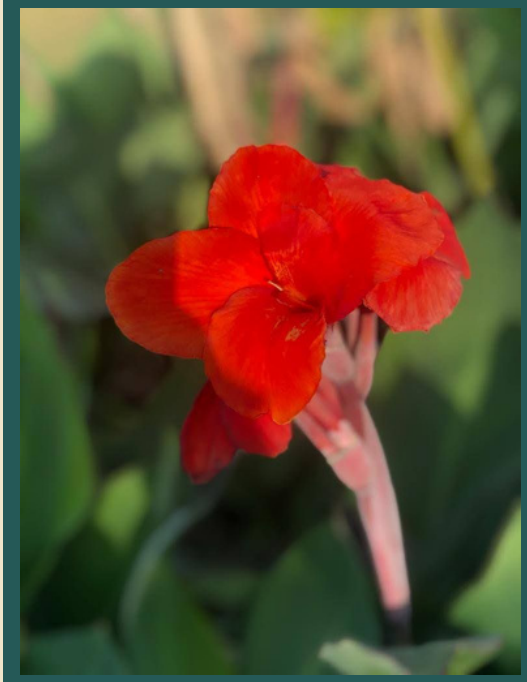
YouTube is a valuable resource, where I follow knowledgeable creators working in their respective fields to understand market and company standards, helping me predict job trends. I also analyze skills through LinkedIn, job analytics, and data scraping from job listings and hiring portfolios to gain insights into current job market demands and skill requirements.

Anushka Grace Binod

Placement Cell Co-ordinator

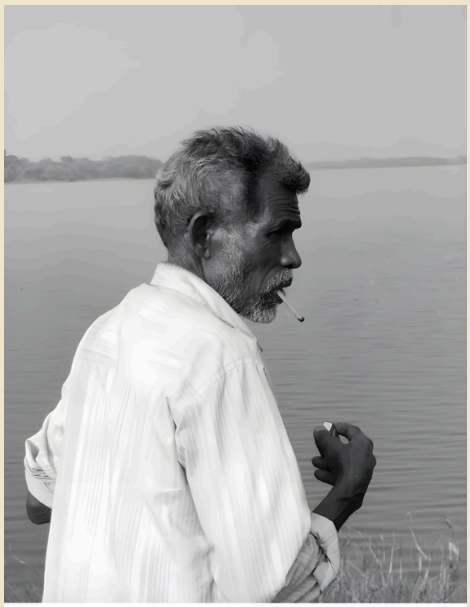
Captured Moments: A Glimpse Through Student Lenses

Vidhi Kadlag
MBT 1st Year



Sneha Gupta

Soumi Ghosh
BBT 3rd Year

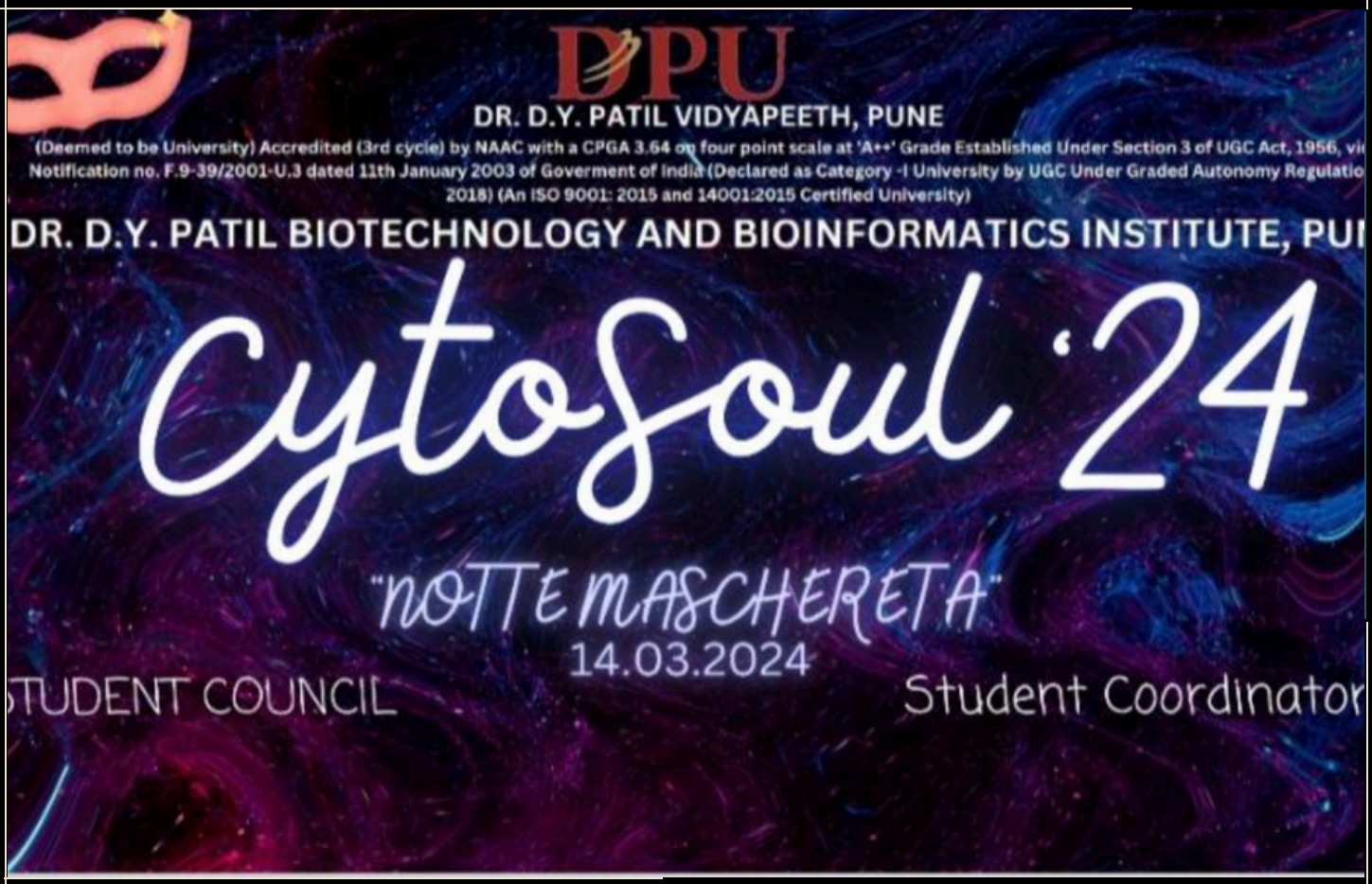


"Age is just a number when style and confidence come together."

Parth Barhate

CYTOSOUL & ARCANE

Cytosoul, the annual fest of Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, was the highlight of the academic year 2023-2024. This year's edition was grander and more vibrant than ever, featuring a blend of cultural, technical, and sports events that brought out the best in our students. The fest spanned over three days, each day packed with an array of competitions and performances. From dance battles to music competitions, and exhilarating dramas, Cytosoul had something for everyone. The sports events, including football, basketball, and cricket, witnessed fierce competition and unmatched enthusiasm. The fest was marked by electrifying performances by our in-house bands and dance troupes, culminating in a DJ night that had everyone on their feet. The fest was a testament to the creativity, energy, and team spirit of our students, making it an unforgettable experience for all who attended.


DPU
DR. D.Y. PATIL VIDYAPEETH, PUNE
(Deemed to be University) Accredited (3rd cycle) by NAAC with a CPGA 3.64 on four point scale at 'A++' Grade Established Under Section 3 of UGC Act, 1956, vi
Notification no. F.9-39/2001-U.3 dated 11th January 2003 of Goverment of India (Declared as Category -I University by UGC Under Graded Autonomy Regulatio
2018) (An ISO 9001: 2015 and 14001:2015 Certified University)
DR. D.Y. PATIL BIOTECHNOLOGY AND BIOINFORMATICS INSTITUTE, PU
cytoSoul'24
"NOTTE MASCHERETA"
14.03.2024
TUDENT COUNCIL
Student Coordinator


"ANUGRAHA"
COUNCIL

Snippets of Cytosoul


DR. D.Y. PATIL VIDYAPEETH, PUNE
DR. D.Y. PATIL BIOTECHNOLOGY AND BIOINFORMATICS INSTITUTE, PUNE
Cytosoul '24
STUDENT COUNCIL

Snippets of Cytosoul


DR. D.Y. PATIL BIOTECHNOLOGY AND BIOINFORMATICS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DR. D.Y. PATIL BIOTECHNOLOGY AND BIOINFORMATICS INSTITUTE, PUNE
Cytosoul '24


DPU
DPU INTER- COLLEGE SPORTS COMPETITION
Urlla

Snippets of Arcane


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DR D.Y PATIL BIOTECHNOLOGY AND BIOINFORMATICS INSTITUTE
TATHAWADE PUNE
ARCANE
CYTOSOUL '24
ANNUAL SPORTS EVENT
09th - 12th March 2024
Chess
Carrom
Tug of War
Table Tennis
E-Sports
Football
Badminton
Basketball
Throwball
Volleyball
DYPBBI


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DR D Y PATIL VIDYAPEETH PUNE
DR D.Y PATIL BIOTECHNOLOGY AND BIOINFORMATICS INSTITUTE
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Table Tennis
E-Sports
Cricket
Football
Badminton
Basketball
Throwball
Volleyball
Extra-curricular & Sports Committee,DYPBBI.
Student Council, DYPBBI


DPU
DPU INTER- COLLEGE SPORTS COMPETITION


DYPBH
9


DPU
Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune
(Deemed to be University)
DPU INTER- COLLEGE SPORTS COMPETITION
Urjja
2024


DPU
Dr. D. Y. Patil Vidyapeeth, Pimpri, Pune
DPU INTER- COLLEGE SPORTS COMPETITION
Urjja
2024


DREAMSCAPE


DREAMSC

WINNERS TABLE

SPORTS	GOLD	SILVER
FOOTBALL GIRLS	2ND YEAR	3RD YEAR
FOOTBALL BOYS	3RD YEAR	1ST YEAR
CRICKET GIRLS	2ND YEAR	3RD YEAR
CRICKET BOYS	3RD YEAR	1ST YEAR
BASKETBALL GIRLS	2ND YEAR	1ST YEAR
BASKETBALL BOYS	3RD YEAR	2ND YEAR
VOLLEYBALL GIRLS	3RD YEAR	1ST YEAR
VOLLEYBALL BOYS	1ST YEAR	4TH YEAR
TABLE TENNIS GIRLS	2ND YEAR	4TH YEAR
TABLE TENNIS BOYS	4TH YEAR	4TH YEAR
TABLE TENNIS DOUBLES	4TH YEAR	1ST YEAR
CHESS GIRLS	3RD YEAR	4TH YEAR
CHESS BOYS	1ST YEAR	3RD YEAR
CARROM GIRLS	3RD YEAR	1ST YEAR
CARROM BOYS	3RD YEAR	2ND YEAR

Best Wishes & Warmest Regards

– Team Enigma