

THE ANNUAL MAGAZINE

# MORPHIC

2026 edition

NATURE'S BLUEPRINT, HUMAN  
INNOVATION

**DESIGN. INNOVATION.  
INSPIRED BY NATURE.**

SYNAPSE

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THE DEPARTMENT OF ZOOLOGY

Under the tenure of  
**SYNAPSE UNION 2025-26**

**Editorial Team**

Anjali Singh, Editor  
Sanskriti Singh, Editor  
Aaisha Shoeb, Co-Editor  
Gungun Mathur, Co-Editor

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**Staff Advisors**

Dr. Jyoti Arora (TIC)  
Dr. Deepak Yadav

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**Extended Team**

Aanya  
Aarzo  
Akanksha  
Isha  
Khushi

**Message From:**

Staff Advisors

President

Vice President

Editors

Co-Editors

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**Editorial Team**

**Faculty**

**Laboratory Staff**

**Union 2025-2026**

**Student Photographs**

**Timeline of Events**

**Events at a glance**

**Students' Achievements**

**Students' Internships**

**The Morphic**

**Creative Corner**

**Nobel Laureates**

**Books and Movie**

**Recommendation**

**Mots croises**

# MESSAGE

from



## Staff Advisors

Greetings to all readers!

Evolvere, the annual zoology magazine from Department of Zoology, Miranda House, presents its latest edition 2025-2026, offering fresh insights into biological advancements, creativity, and biodiversity. This publication highlights the evolving nature of science, showcasing student and faculty perspectives to explore the fascinating animal world. This is time to publicize the successful conclusion of the 2025-2026, shown up the several enriching activities hosted by society, Synapse, Department of Zoology, Miranda House.

We would like to praise, the dedicated editorial team for producing this exceptional issue of the magazine, which promises to engage and inspire the readers. This issue showcases contributions from the students, faculty, and laboratory staff, featuring present-day scientific articles, reviews, poetry, and personal reflections. This issue also provides a photographic presentation of the featured events held throughout the academic session. The magazine explores a wealth of compelling student testimonials and alumni success stories detailing their professional journeys. We trust this edition will inspire continued dedication to the advancement of science communication and writing. We extend our best wishes to the outgoing batch of 2023-2026 as they embark on their professional journeys.

We wish you continued success in all your future pursuits!

Staff Advisors

Dr. Jyoti Arora

Dr. Deepak Yadav

# MESSAGE

from



## President

It has been an incredible honor to serve as the President of the Department of Zoology for the session 2025–26.

As I reflect on this journey, I am filled with immense gratitude and pride. This year has been both vibrant and enriching for all of us. Our department continued its tradition of organizing key annual events, all of which were conducted smoothly and successfully. The visit to CSIR-IGIB provided valuable exposure to cutting-edge research, while the Delhi Zoo field visit offered practical insights into wildlife. We also organised our annual Dr. Saroj Kesar Memorial Lecture and FEM for STEM an initiative that continues to inspire students. A campus bird count was also conducted which further helped to promote awareness and interaction with biodiversity.

We also hosted a series of speaker sessions ,webinars and seminars covering diverse topics—from mental well-being and the impact of social media to study abroad opportunities to along with various celebrations that added energy to our department. The revival of our podcast series, along with one-on-one interactive sessions with diverse guest speakers, has been one of our greatest accomplishments.

I am especially proud of how much we have evolved. With new verticals and a stronger social media presence, we have become more engaged and expressive. More than just a departmental society, we are now a close-knit family that supports and grows together. Thank you for your trust in me. I wish you all the very best for the journey ahead.

President  
Fathima Amal

# MESSAGE

from



## Vice-President

As I reflect on my tenure as Vice President for the academic year 2025–26, I feel deeply grateful for the opportunity to be a part of Synapse, the Department of Zoology’s core team, one that I have had the privilege to grow alongside.

This year’s magazine theme, biomimicry, beautifully aligns with what we strive to achieve as students of zoology. It highlights the significance of nature as a source of inspiration for innovation, while reminding us of our responsibility to study and learn from it in order to contribute meaningfully to human development.

Throughout the year, Synapse has consistently worked towards making innovation and research more accessible, not only to our students but also to a wider audience. Through a series of seminars and career development initiatives, we have aimed to foster an environment that is both interactive and inclusive.

One of our most notable highlights was the launch of an interview series featuring eminent scientists. This initiative sought to bridge the gap between students and researchers, offering valuable insights into the thought processes that drive scientific innovation.

Vice-President  
Rahnuma Firdaus

# MESSAGE

from



## Editors

From the Desk of the Editorial Board, Evolvere represents the collaborative and inquisitive spirit of the Department of Zoology. This edition revolves around the theme of “Biomimicry,” exploring how nature’s time-tested biological systems provide the ultimate blueprint for modern innovation and sustainable design. This issue highlights our diverse SYNAPSE initiatives, from blogs and newsletters to podcasts, while providing a glimpse into the impressive research and achievements of our students.

The Editorial Board would like to acknowledge our Teacher-in-Charge, Dr. Jyoti Arora, and our Staff Advisor, Dr. Deepak Yadav, for their constant insights and guidance. We also extend our gratitude to our fellow Union members and the entire editorial team for their dedication.

Our heartfelt thanks to the students who contributed with such enthusiasm. Finally, we are grateful to you, the reader, for picking up this magazine. We hope it aptly broadens your understanding of the wonders of Biomimicry.

Editors

Anjali Singh

Sanskriti Singh

# MESSAGE

*from*



## Co- Editors

It is with immense pride and enthusiasm that we present this year's magazine, which is centred around the theme of biomimicry, a tribute to nature as the greatest source of inspiration and innovation.

In this edition, we explore how nature's designs, patterns, and processes continue to influence science, technology, and sustainable development. Each article reflects the curiosity, creativity, and spirit of inquiry that define our community. We hope this magazine encourages you to see nature not merely as a subject of study, but as a guide, a mentor, and a boundless source of innovation.

We extend our sincere gratitude to Dr. Jyoti Arora, Teacher-in-Charge, and Dr. Deepak Yadav, Staff Advisor, for their constant support and guidance throughout this journey. We also wholeheartedly acknowledge the dedication and efforts of our team, whose commitment made this magazine possible.

It has truly been a rewarding and memorable journey for all of us.

Co-Editors  
Aisha Shoeb  
Gungun Mathur

# EDITORIAL TEAM



ISHA



KHUSHI



AARZOO



AANYA



AKANKSHA

# FACULTY



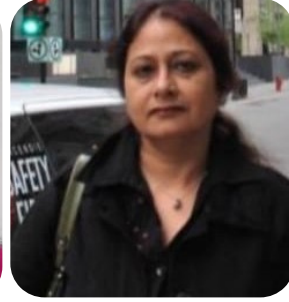
DR. NISHA VASHISHTA



PROF. REKHA KUMARI



DR. JYOTI ARORA  
TEACHER IN CHARGE



PROF. SADHNA SHARMA



PROF. MONIKA SHARMA



DR. SIMRAN JIT



DR. POOJA SUMAN



DR. DEEPAK YADAV



MS. SABA ZULFIQUAR



DR. SHIVANI KUMARI



DR. REETUPARNA BASAK



DR. JONI YADAV



DR. BHAWNA CHUPHAL



DR. SAIMA SYEDA



DR. SUJATA KUMARI



DR. ILA SINGH

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**L to R (Standing):** Mr. Mukesh Manik, Mr. Kuldeep Singh, Mr. Daan Singh, Mr. Suresh Prajapati

**L to R (Sitting):** Mr. Sanjay Dutt, Mr. Ramesh Sharma, Mr. Rakesh Kumar, Mr. Uday Chaudhary

# UNION 2025-26



**President**



**Vice- President**



**Treasurer**



**General secretary**



**Editor**



**Editor**



**Co-Editor**



**Co-Editor**



**Event Manager**

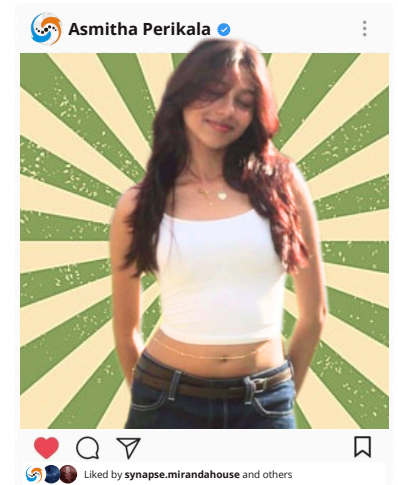
# UNION 2025-26



**Event Manager**



**Logistics Head**



**Junior Logistics Head**



**Creative Head**



**Junior Creative Head**

# FOURTH YEAR STUDENTS



HIMANSHI



PALLAVI



DEEKSHA



MANSI



SNEHA RAINA



SNEHA



SWASTIKA



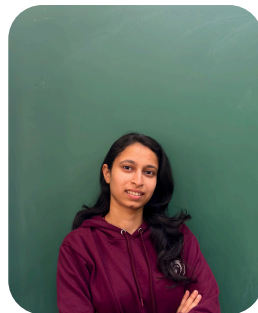
TARANJOT



ESHIKA



SAKSHI



VASUNDRA



YUKTA

# THIRD YEAR STUDENTS



KUSUM



NIDHI



YASHIKA



SANJANA



NITU



SHREYA



DEEPIKA



ANJALI



KOMAL



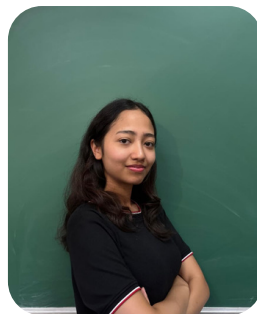
DAMANPREET



SHRUTI



LAKSHITA



ANCHAL



TAMMANA



ALKA



HRITIKA



DIYA



AYUSHI

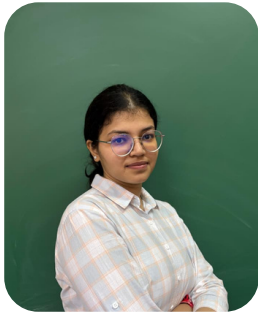


NANDINI



GINITA

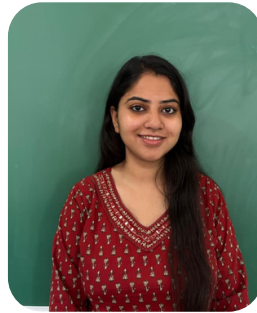
# THIRD YEAR STUDENTS



NICE



KHYATI



NAVYA



SANSKRITI



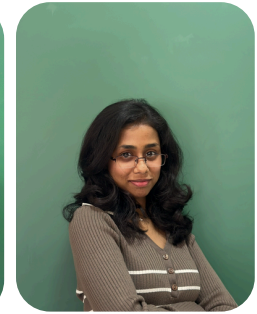
SHYAMLI



ARCHISHA



RAHNUMA



UPASANA



FATHIMA



AASHNA



ZOYA



SHIVANI



KIRAN



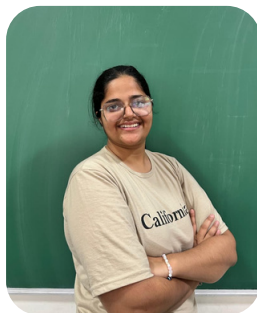
SAPNA



KASHMA



ALINA



ANUSHA



DEEPANSHI



APRAJITA



ARSHIA

# SECOND YEAR STUDENTS



NIKITA



MARYAM



ISHA



KHUSHI



MUKTA



AAISHA



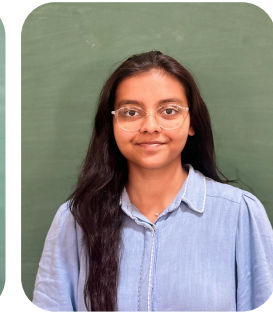
GUNGUN



ANSHUL



AMMY



AARZOO



KHUSHI



ASTHA



AASTHA



KRISHTI



MANSI



SNEHA



KHUSHI



ASMITHA



IZAL



ROHINI

# SECOND YEAR STUDENTS



SANGEETA



VANDANA



PAYAL



NANCY



KHUSHALI



PRACHI



SANIYA



SHRIYA



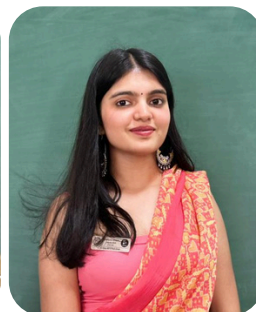
MEHAK



PRASHITA



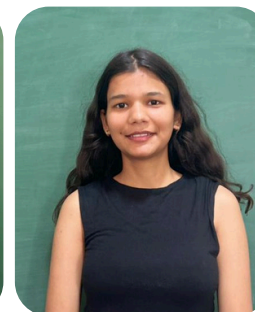
VANSHIKA



SIMRAN



KASHFI



PRAGYA

# FIRST YEAR STUDENTS



AAKRITI



AANYA



AARUSHI



ABHIPSA



AKANKSHA



ALIZA



ANUSHKA SINGH



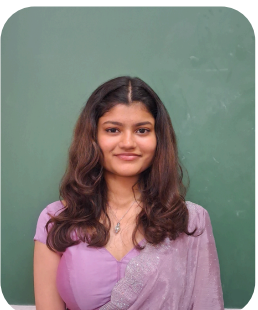
ASTHA



DEVADYUTI



DIVYA



ESHIKA



GOYIR



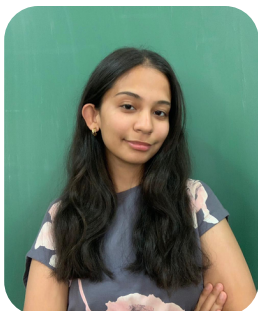
HARSHITA



KHUSHI



MAMATA



MANYA



MUSKAN



NEETI



NITANSHI



OJAS

# FIRST YEAR STUDENTS



PRERNA



PRIYA



RASHI



RASHMIKA



RISHIKA



RIYA



SHIVALI



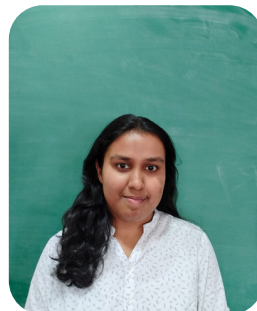
SUKRITI



SWATI



SWATI KUMARI



SWATI KUMARI



TEENA



VRASHA



ZEBA

# BATCH PHOTOS



THIRD YEAR

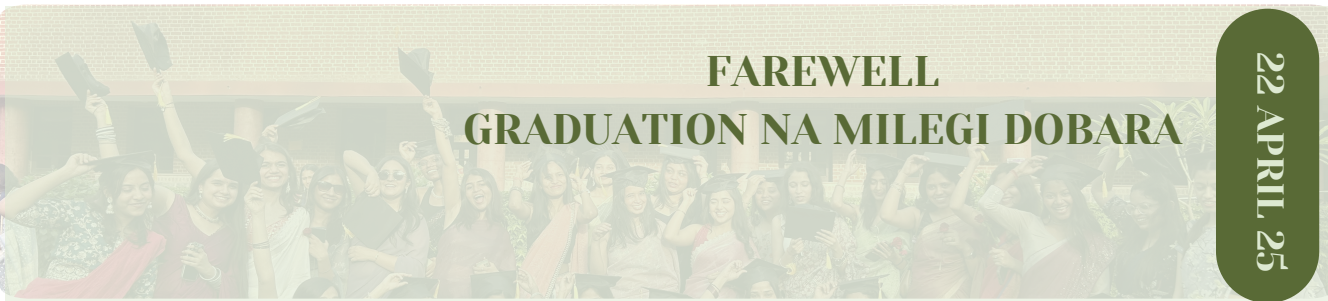


SECOND YEAR

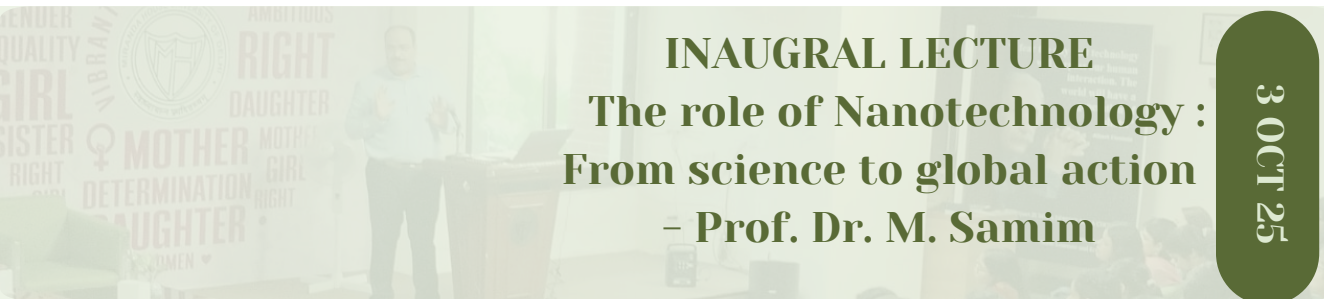


FIRST YEAR

# TIMELINE OF EVENTS



# TIMELINE OF EVENTS

A photograph of a woman in a light blue shirt standing at a podium during a lecture. The background features a banner with various words related to women's rights and empowerment.

**INAUGURAL LECTURE**  
**The role of Nanotechnology :  
From science to global action**  
– Prof. Dr. M. Samim

**3 OCT 25**

A photograph of a group of young women sitting together, some with their hands raised, in what appears to be a social gathering or meeting.

**7 OCT 25**

**THE FRESHER'S PARTY**  
**The Coven's first  
meeting**

A photograph of two men, Dr. Rakesh Kumar and Dr. Rajeev Ranjan, seated at a table during a lecture or discussion.

**DR. SAROJ KESAR MEMORIAL LECTURE**  
**Breast Cancer and Indian Healthcare:  
From Molecular Science to Systemic Crisis**  
– Dr. Rakesh Kumar & Dr. Rajeev Ranjan

**12 NOV 25**

A photograph of two women, Priyanshi Rawat and Shipra Tiwari, smiling in circular frames.

**1 JAN 26**

**CARRER COUNSELLING  
SESSION WITH  
PRIYANSHI RAWAT AND  
SHIPRA TIWARI**

# TIMELINE OF EVENTS



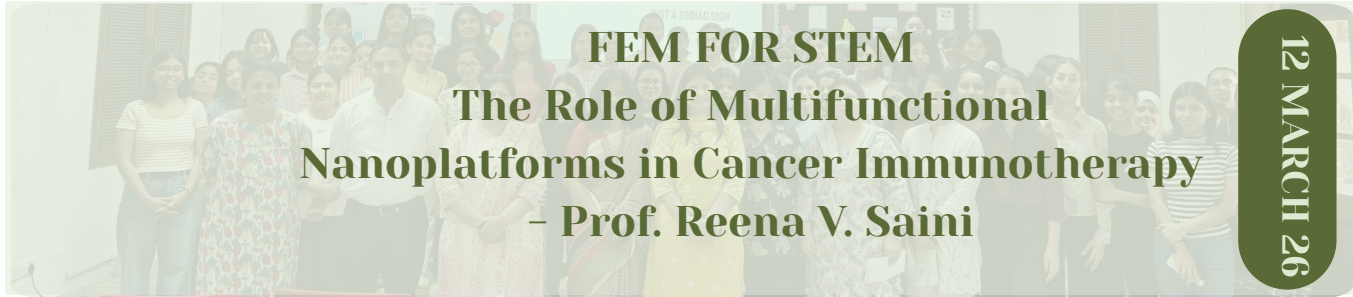
**CAMPUS BIRD COUNT WITH  
Mr. CHANDRA BHUSHAN MAURYA**

**16 FEB 26**



**SEMINAR  
HOW TO STUDY  
ABROAD WITH  
LeapScholar**

**17 FEB 26**



**FEM FOR STEM  
The Role of Multifunctional  
Nanoplatforms in Cancer Immunotherapy  
– Prof. Reena V. Saini**

**12 MARCH 26**



**CAREER CONNECT : AN  
INTERACTIVE SESSION WITH  
RITIKA MUKHERJEE**

**29 MARCH 26**

**Ms. Ritika Mukherji**  
DPHIL (PhD) Candidate in  
Neuroscience, University of Oxford

# TIMELINE OF EVENTS

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**ONE DAY WORKSHOP ON ENVIRONMENT  
POLLUTION AND ITS MITIGATION  
IN COLLABORATION WITH MH VATAVARAN,  
ANTHEIA AND SPR**

**30 MARCH 26**

**1 APRIL 26**



**CAREER COUNSELLING  
SESSION WITH CAREER  
VALLEY**

A close-up photograph of green leaves, likely from a shrub or tree, filling the left and bottom portions of the page. The leaves are vibrant green with visible veins and are arranged in a dense, overlapping pattern.

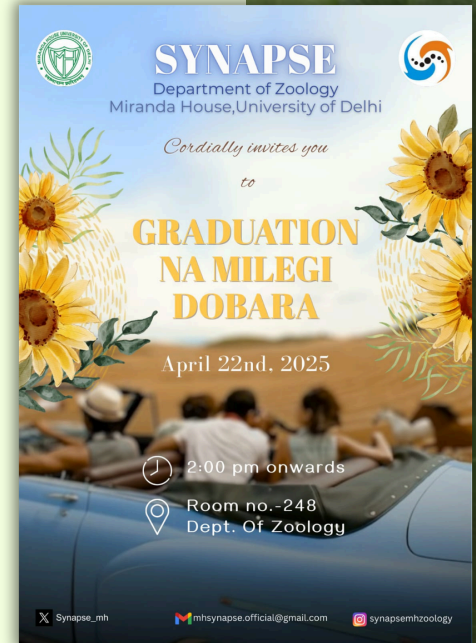
# EVENTS

*at a*

# GLANCE

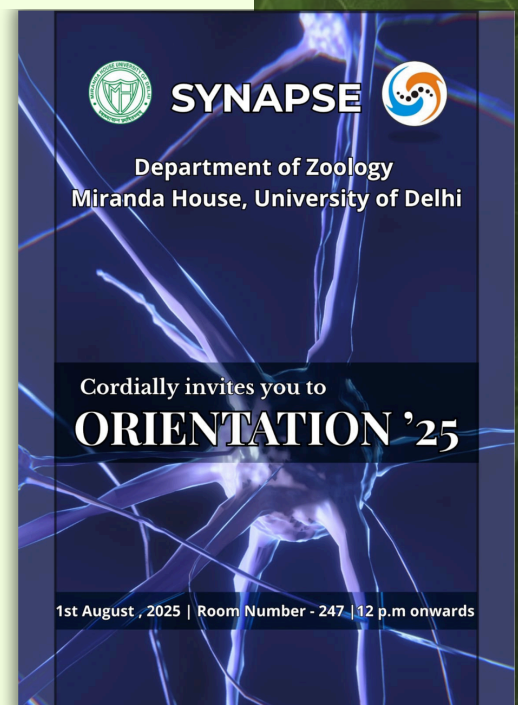
## FARWELL

On April 22, 2025, the Zoology Department of Miranda House, in collaboration with SYNAPSE, hosted a heartfelt farewell for the Batch of 2025. The ceremony began with a warm welcome and rose presentation, symbolizing shared memories. Hosted by first-year students, the event featured vibrant dance and soulful singing performances. A touching highlight was the teachers adorning graduands with caps, marking their transition to alumni. An emotional video montage revisited cherished moments, filling the room with nostalgia. The introduction of the 15th edition of "Evolvre" reflected ongoing creativity. The celebration concluded with a memorable group photo capturing unity and lasting bonds.



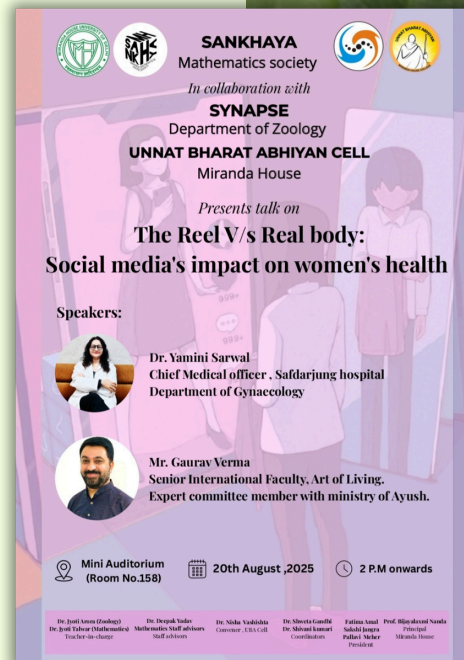
## ORIENTATION '25

The Department of Zoology, Miranda House conducted an orientation session on August 1, 2025, to welcome the Batch of 2025–28. Led by Union President Fatima Amal, the session introduced freshers to the student union and departmental council, fostering early engagement. A detailed overview of the academic structure, including DSC, GE, SEC, and VAC courses, was provided. Students were also informed about scholarships, awards, and academic support systems. Emphasis was placed on holistic development through participation in societies and extracurricular activities. The session concluded with an interactive Q&A, offering clarity and a strong foundation for the students' academic journey.



## TALK SESSION

On Wednesday, August 20, 2025, Synapse (Department of Zoology), in association with Sankhaya and Unnat Bharat Abhiyan Cell, Miranda House, organized a thought-provoking session titled "The Reel V/s Real Body: Social Media's Impact on Women's Health." It was held in the Mini Auditorium, the event gathered 75 participants. Dr. Yamini Sarwal discussed the effects of social media, including anxiety, depression, body dissatisfaction, and unhealthy behaviors, while promoting mindful usage. Mr. Gaurav Verma highlighted psychological challenges like FOMO and stress, encouraging awareness and inner strength through meditation. The session concluded with reflection, mindfulness, and empowerment to build a healthier relationship with social media.



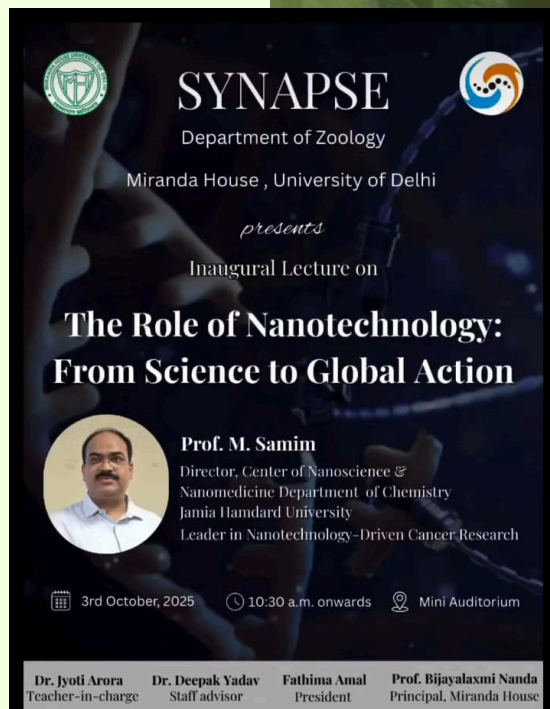
## TEACHER'S DAY CELEBRATION

On September 4, 2025, the Zoology Department of Miranda House celebrated Teachers' Day with enthusiasm in Room No. 248. The event opened with melodious singing performances, followed by lively dance presentations that energized the audience. Anchored smoothly by students, the program maintained a joyful flow. Handmade cards were presented as tokens of gratitude, while a special video featuring heartfelt student messages added emotional depth. A fun "Guess the Teacher" game brought laughter and engagement. The celebration highlighted the importance of cherishing moments, expressing appreciation, and strengthening unity and interpersonal bonds within the department through shared experiences and meaningful interactions.



## INAUGURAL LECTURE

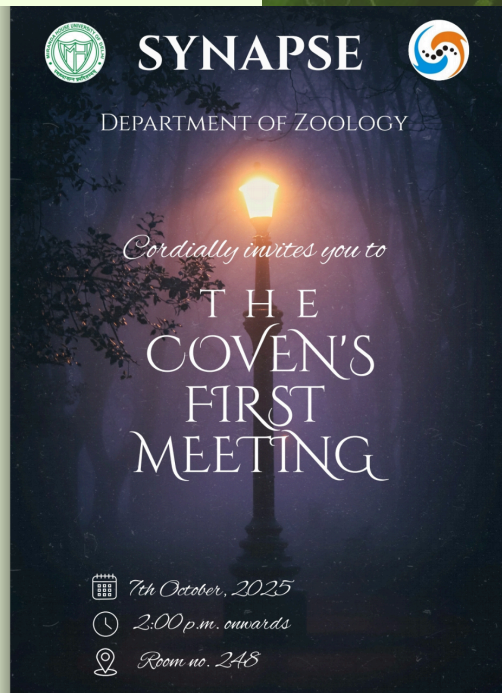
On 3rd October 2025, Synapse, Department of Zoology, Miranda House held an inaugural lecture at the Mini Auditorium. Prof. Dr. M. Samim, Director of the Centre of Nanoscience at Jamia Hamdard University, delivered the session on the topic "The Role of Nanotechnology: From Science to Global Action." In his lecture, he talked about the importance of nanotechnology in our life and the role it plays in the development of modern scientific innovations. He also mentioned how poor management of waste is one of the main factors affecting the world as a whole. He gave many examples of how conventional knowledge is related to modern nanotechnology, mentioning the concept of "curcumin-based formulations". He also expressed his worries about the health risks associated with various cosmetic products.



The poster features the Synapse Department of Zoology logo at the top left and right. The text reads: "SYNAPSE Department of Zoology Miranda House, University of Delhi presents Inaugural Lecture on The Role of Nanotechnology: From Science to Global Action". A circular portrait of Prof. M. Samim is shown next to his name and title: "Prof. M. Samim, Director, Center of Nanoscience & Nanomedicine Department of Chemistry, Jamia Hamdard University, Leader in Nanotechnology-Driven Cancer Research". The event details are listed at the bottom: "3rd October, 2025, 10:30 a.m. onwards, Mini Auditorium". A list of faculty members is provided at the very bottom: "Dr. Jyoti Arora (Teacher-in-charge), Dr. Deepak Yadav (Staff advisor), Fathima Amal (President), Prof. Bijayalaxmi Nanda (Principal, Miranda House)".

## THE FRESHER'S PARTY


The "Coven's First Meeting" Freshers 2025, held on October 7 in Room No. 248, warmly welcomed first-year Zoology students of Miranda House. The event began with melodious performances by second-year students, followed by engaging anchoring that kept the audience lively. Inspiring words from faculty encouraged freshers to embrace their new journey. Energetic dance performances and soulful singing by both seniors and freshers created a vibrant atmosphere. A cake-cutting ceremony, fun games, and a treasure hunt fostered bonding and teamwork. The highlight, "Miss Synapse Diva," showcased confidence and creativity. The celebration beautifully marked the beginning of a memorable academic journey.




The poster features the Synapse Department of Zoology logo at the top left and right. The text reads: "SYNAPSE DEPARTMENT OF ZOOLOGY Cordially invites you to THE COVEN'S FIRST MEETING". The background shows a street lamp at night. The event details are listed at the bottom: "7th October, 2025, 2:00 p.m. onwards, Room no. 248".

## DR. SAROJ KESAR MEMORIAL LECTURE

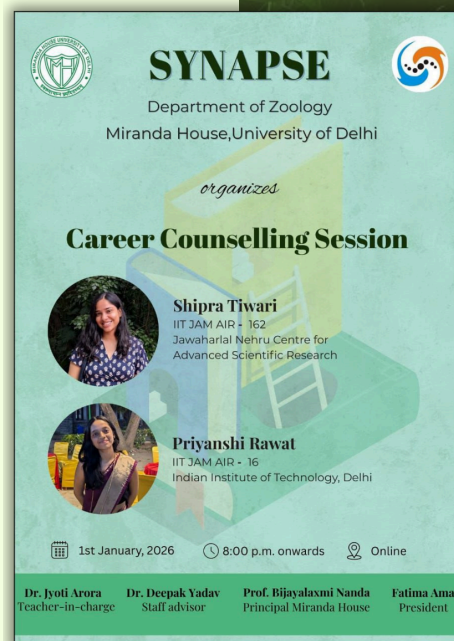
On 12 November 2025, Synapse, the Department of Zoology, Miranda House, hosted the Dr. Saroj Kesar Memorial Lecture Series with 86 participants. Speakers Dr. Rakesh Kumar and Dr. Rajeve Ranjan discussed cancer biology and healthcare challenges. Dr. Kumar explained how hormonal imbalances, particularly estrogen and progesterone, contribute to breast cancer and highlighted its rising incidence among young Indian women due to lifestyle and environmental factors. Dr. Ranjan emphasized disparities in Indian healthcare and proposed the “Trifecta of Healing” Science, Technology, and Empathy. The session concluded with a Q&A, enhancing understanding of cancer trends and healthcare needs in India.





**SYNAPSE**  
Department of Zoology  
**UNNAT BHARAT ABHIYAN CELL**  
*In collaboration with*  
**YOUTH COUNCIL FOR BREAST CANCER IN YOUNG WOMEN (BCYW)**  
**MIRANDA HOUSE CHAPTER**  
Miranda House,  
University of Delhi  
*Presents*  
**Dr. Saroj Kesar**  
**Memorial Lecture**  
**Speakers:**  
 **DR. RAKESH KUMAR**  
Founder, Chief Executive Officer of the Board of the Breast Cancer in Young Women Foundation (BCYWF)  
 **DR. RAJEVE RANJAN**  
CEO, Co-Founder of ZIAGNOSIS Lab & Wellness Clinic, MD Lab Medicine, AIMS Former General Secretary RDA, AIMS-Delhi  
Seminar hall 12th November, 2025 3 P.M onwards  
Dr. Jyoti Arora Teacher-in-charge Dr. Deepak Yadav Staff advisor Dr. Nisha Vasishtha Co-ordinator, UBA Cell Fatima Amal President Prof. Bijayalaxmi Nanda Principal Miranda House

## CAREER COUNSELING SESSION

Synapse, Department of Zoology, Miranda House organised an online career counselling session on January 1 for IIT JAM, GAT-B, GATE, and CUET-PC aspirants. Conducted by successful alumni, the session provided valuable insights into effective preparation strategies, emphasizing conceptual clarity, core coursework, and use of standard resources. Guidance on exam patterns, including MSQs and NAT questions, helped students better understand key focus areas. The interactive discussion addressed concerns related to stress management, preparation planning, and admission processes. The session enhanced students' confidence, motivation, and clarity, making it a highly informative and engaging academic initiative for all participants.



**SYNAPSE**  
Department of Zoology  
Miranda House, University of Delhi  
*organizes*  
**Career Counselling Session**  
 **Shipra Tiwari**  
IIT JAM AIR - 162  
Jawaharlal Nehru Centre for Advanced Scientific Research  
 **Priyanshi Rawat**  
IIT JAM AIR - 16  
Indian Institute of Technology, Delhi  
1st January, 2026 8:00 p.m. onwards Online  
Dr. Jyoti Arora Teacher-in-charge Dr. Deepak Yadav Staff advisor Prof. Bijayalaxmi Nanda Principal Miranda House Fatima Amal President

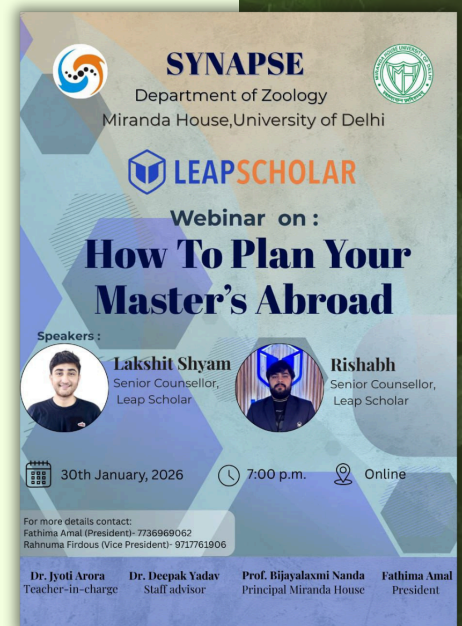
## CAMPUS BIRD COUNT

The Department of Zoology, Miranda House, in collaboration with Synapse, organized a Campus Bird Count led by Mr. Chandra Bhushan Arya. The activity aimed to promote ecological awareness and hands-on learning in biodiversity assessment. Students actively participated in identifying and documenting various bird species across the campus, gaining practical exposure to field techniques such as observation, note-taking, and species classification. The session emphasized the importance of urban biodiversity and conservation efforts. Through this engaging experience, participants developed a deeper appreciation for avian diversity while enhancing their observational skills and understanding of ecological monitoring practices.



## CAREER COUNSELING SESSION

Synapse (Department of Zoology), Miranda House, organized two career-oriented sessions titled "How to Plan Your Master's Abroad?" in collaboration with LeapScholar. It was held on Thursday, January 30, 2026, via Google Meet with over 105 undergraduate students, and on Tuesday, February 17, 2026, in the Seminar Hall with 110 participants, the sessions provided a comprehensive overview of the global education landscape. Speakers Mr. Lakshit Shyam, Mr. Rishabh, and Ms. Bhawna discussed profile building, research experience, application cycles, visa protocols, standardized assessments like GRE, IELTS, TOEFL, GMAT, study destinations, financial requirements, and crafting a compelling Statement of Purpose, followed by interactive Q&A sessions.



## FEM FOR STEM

On March 12, 2026, at 11:00 A.M., Synapse, the Department of Zoology at Miranda House, organized the “FEM for STEM” lecture in the Seminar Hall, attended by over 50 participants. The session was delivered by Dr. Reena Vohra Saini, a specialist in biomedical sciences and cell biology. She provided a basic overview of oncology, including tumor types, causes, and stages, along with modern therapies. A key highlight was her research using niosomes to deliver miRNA into PBMCs to overcome immunosuppression and reactivate T-cells. The interactive session concluded with a Q&A and a hopeful message about the future of cancer. She ended on a hopeful note: “Dear Cancer, I hope one day, you are just a zodiac sign only.”



**SYNAPSE**  
Department of Zoology  
Miranda House, University of Delhi  
organizes

**FEM for STEM**

**Harnessing multifunctional nanoplasts to reverse immunosuppression and promote antitumor effector responses.**

 **Prof. Reena V Saini**  
Department of Bio-Sciences & Technology,  
MMEC,  
Maharishi Markandeshwar (Deemed to be  
University) Mullana, Ambala, Haryana

📅 12th March, 2026 ⌚ 9:30 a.m. onwards 📍 Seminar Hall

**Dr. Jyoti Arora** Teacher-in-charge | **Dr. Deepak Yadav** Staff advisor | **Fathima Amal** President | **Prof. Bijayalaxmi Nanda** Principal Miranda House

## CAREER COUNSELLING SESSION

On March 29, 2026, Synapse and NeuroNexus of Miranda House hosted a virtual career session, “Career Connect,” featuring Ms. Ritika Mukherji, a D.Phil candidate at the University of Oxford. Attended by over 70 participants, the session provided insights into academic pathways from zoology to neuroscience. She highlighted advanced concepts like optogenetics and emphasized building conceptual clarity, transferable lab skills, and interdisciplinary learning. Guidance on choosing MSc programs, internships, and crafting strong SOPs was shared. An interactive Q&A addressed student queries on global opportunities. The session offered a structured roadmap, enhancing clarity, confidence, and preparedness for research careers.



**SYNAPSE**  
Department of Zoology  
Miranda House, University of Delhi

*In collaboration with*

**NEURONEXUS**  
The Neuroscience and Neuropsychology Club

*presents*

**CAREER CONNECT :  
AN INTERACTIVE SESSION WITH**

 **Ms. Ritika Mukherji**  
DPHIL (PHD) Candidate in  
Neuroscience, University of Oxford  
**Rhodes and Clarendon Scholar**

📅 29th March, 2026 ⌚ 7:00 p.m. onwards 🌐 Online

**Dr. Jyoti Arora** Teacher-in-charge | **Dr. Nisha Vashishta** Convener | **Fathima Amal** President | **Upasana Bhattacharjee** President | **Prof. Bijayalaxmi Nanda** Principal

## ONE DAY WORKSHOP

On March 30, 2026, Miranda House hosted a workshop on “Environmental Pollution and its Mitigation,” organized by MH Vatavaran in collaboration with SPR, Synapse, and Antheia. The event featured expert sessions on air, water, and soil pollution, emphasizing scientific research, policy frameworks, and sustainable solutions. Speakers discussed emission inventories, particulate matter, biotechnology, remediation technologies, and phytoremediation. The workshop highlighted the importance of interdisciplinary collaboration and environmental responsibility. It concluded with a field visit to sustainability units, a feedback session, and certificate distribution, providing students with both theoretical knowledge and practical exposure to environmental conservation practices.

**MH VATAVARAN**  
THE ENVIRONMENT SOCIETY  
**Miranda House**  
In collaboration with  
**Society for Plant Research (SPR), Synapse & Antheia**  
Organizes one day workshop on  
**Environmental Pollution and its Mitigation:  
Towards Sustainable Stewardship**

**Ms. Swagata Dey**  
Researcher, CSTEP, New Delhi

**Prof. S K Bhatnagar**  
Founder Chairman, Society for Plant Research  
Editor in Chief, VEGETOS

**Dr. Rajesh K Sharma**  
Assistant Professor  
Department of Botany, BHU

**30 March, 2026**  
**10:00 AM**  
Mini Auditorium

**Registration link**  
<https://forms.gle/BrP2Yd4rTebBwv7>

**Last date of Registration:**  
26 March, 2026  
Seats are limited; registration operates on a first-come, first-served basis.

**CONVENOR**  
**Prof. Rekha Kumari**  
MH-Vatavaran  
Miranda House

**PATRON**  
**Prof. Bijayalaxmi Nanda**  
Principal  
Miranda House

## CAREER COUNSELLING SESSION

Synapse, Department of Zoology, Miranda House organized an interactive Career Counselling Session in collaboration with Career Valley on April 1. The session aimed to guide UG and PG aspirants in exploring higher education opportunities aligned with their skills, academic performance, and interests. Led by Mr. Gursharan Bhamra, the session provided valuable insights into career pathways, branding, and industry expectations. Participants gained clarity on university selection and eligibility criteria. The initiative encouraged informed decision-making and career planning, offering students a platform to connect their academic pursuits with future aspirations through expert guidance and interactive discussion.

**SYNAPSE**  
Department of Zoology  
Miranda House, University of Delhi

**THE CAREER VALLEY**  
A GATEWAY TO YOUR BRIGHT FUTURE

Seminar on:  
**Career Counseling Session**

Speaker:  
**Gursharan Bhamra**  
Film & Video Communication Designer  
Alumnus of the National Institute of Design (NID)  
15+ years of experience in film, video production, and graphic design

**1st April, 2026**  
**11:00 - 12:30am**  
SAC

For more details contact:  
Fathima Amal (President)- 7736969062  
Rahnuma Firdous (Vice President)- 9717761906

**Dr. Jyoti Arora** Teacher-in-charge  
**Dr. Deepak Yadav** Staff advisor  
**Prof. Bijayalaxmi Nanda** Principal Miranda House  
**Fathima Amal** President



# STUDENT'S ACHIEVEMENTS

## 3<sup>RD</sup> YEAR :

- **Diya Bamba** : Secured First prize in creative Writing Competition, Haritima, Hansraj College and Runner up at poem writing and recitation, Rastriya Kavi Sangam(Delhi region), Recipient of the Ms. Ila Singh Appreciation Award, Miranda House
- **Rahnuma Firdous**: State-level (Delhi) winner of Design for Bharat Competition; represented Delhi nationally. Also Top 10 National Finalist at Ideas to Impact 2.0 (IIT Madras, Wipro Foundation), awarded ₹1,00,000, Recipient of the Golden Jubilee Award (2025–26)
- **Fathima Amal** : Top 10 National Finalist at Ideas to Impact 2.0 (IIT Madras, Wipro Foundation), awarded ₹1,00,000 and secured 2nd position in Inter-departmental Sack Race.
- **Sanskriti Singh** : Secured First Position in the Theme-based Photography Competition at the National Anti-Ragging Week Celebration.

## 2<sup>ND</sup> YEAR:

- **Aaisha Shoeb** : Recipient of the Ved Jolly Resilience Award for motivated Scholars, won 2nd position in International Youth Day Poster Competition (Ministry of Youth Affairs & United Nations India), 2nd position in Koshika Scientific Poster Presentation, 1st position in Rangoli Competition in Koshika, 2nd position in International Women's Day Poster Designing, 2nd position in NSS Quiz Competition in collaboration with Rotary Club and 2nd position in inter-college experiment competition at SGTB Khalsa College.
- **Gungun Mathur** : Secured 1st position in Digital Poster Competition (International Yoga Day), 2nd in Koshika Poster Presentation, 1st position in Rangoli Competition in Koshika and 2nd position in inter-college experiment competition at SGTB Khalsa College.
- **Saniya Siddiqui & Shriya Kumari** : Winners of the Colloquium Series (Physiology Presentation "Gut Verse"), Department of Zoology.
- **Aastha Rai Verman**: Secured 2nd position in Western Acapella at St. Stephen's College and 3rd positions in western acapella held at IIT Delhi, DTU, LSR, Hansraj, DCAC and Gargi.

## 1<sup>ST</sup> YEAR:

- **Aanya Uniyal** : Secured 1st position in Western Solo Singing at Army College of Medical Sciences (ACMS) and Indraprastha College for Women (IPCW), and 1st position in Western Acapella at Lady Irwin College. Achieved 2nd position in Western Acapella at St. Stephen's College, and 3rd position in Western Acapella Competitions at IIT Delhi, Lady Shri Ram College (LSR), Hansraj College, Delhi Technological University (DTU), Gargi College, and Delhi College of Arts and Commerce (DCAC). Also secured 3rd position in Western Solo Singing at Lady Irwin College and PGDAV (M) College.
- **Sukriti Gambhir** : Achieved 3rd position in Intra-University Athletics Competition and 1st position at Erobern 2026 Annual Sports Fest, Miranda House.
- **Rashi Kapkoti** : Secured 1st position in Folk Dance at IIT Kanpur and IPCW, 2nd position at GIBBS, and 3rd position at SRCC.

# STUDENT'S INTERNSHIPS

At the D.S. Kothari Centre for Science and Research (DSKC) at Miranda House, we served as student internship mentors under the guidance of Dr. Nisha Vashishta. Our project, titled 'A Neuropsychological Evaluation of Cognitive Enhancement through Structured Puzzle-Based Interventions', was conducted at DSKC and focused on assessing the impact of puzzle-solving activities on cognitive functions in the context of increasing digital exposure and age-related cognitive decline. The study involved 40 college students over a period of 21 days, with pre- and post-intervention evaluations conducted using standardised neurocognitive tests following ACE-III screening. The intervention included a structured set of puzzles designed to target memory, attention, problem-solving, and executive functioning. Overall, the project provided valuable insights into non-pharmacological approaches for cognitive well-being and opened avenues for further research in neuropsychological interventions.

-Rahnuma Frdous and Upasana Bhattacharjee  
3rd year

I had served as a student mentor at D.S. Kothari Centre for Science and Research (DSKC) at Miranda House, under the guidance of Dr. Nisha Vashishta and Dr. Pooja Suman. During this period, I assisted in the Drosophila laboratory with tasks such as preparation of diet, handling of Drosophila, and supporting fellow students in the lab. This experience provided me the opportunity to gradually develop both experimental and interpersonal skills. It was a meaningful learning experience that contributed to my growth while allowing me to learn alongside others in a collaborative environment. I also guided peers in understanding basic genetic crosses and observational techniques, fostering a supportive and engaging learning atmosphere. This role enhanced my sense of responsibility, time management, and attention to detail. Overall, the experience strengthened my interest in research and deepened my understanding of laboratory practices in biological sciences.

-Kusum Gupta  
3rd year

# STUDENT'S INTERNSHIPS

I got the privilege to work at the Delhi University Archives under the able guidance of Prof. Manisha Choudhary as part of the Vice Chancellor's Summer Internship Program. This unique opportunity allowed me to dive into archives management, curate mementos received by the Vice Chancellor, and uncover the rich history of Delhi University. Working at the iconic Vice Regal Lodge, where every wall whispers stories of DU's legacy, was truly a dream come true. This experience not only honed my skills but also deepened my connection with DU's rich heritage. During my internship, I was also involved in cataloguing and preserving historical documents, ensuring their proper classification and accessibility for future reference. I gained hands-on experience in archival techniques, including digitization and documentation, which strengthened my organizational skills. Interacting with rare records and institutional memorabilia provided me with a deeper understanding and cultural evolution.

- Diya Bamba  
3rd year

During our time at the D.S. Kothari Centre for Science and Research (DSKC) at Miranda House, we gained practical research experience under the mentorship of Dr. Nisha Vashishta and Dr. Pooja Suman. Our project aimed to investigate the biological effects of *Withania somnifera* on *Drosophila melanogaster*, specifically its potential toxic effects on microbiota dynamics. As part of this research, we acquired hands-on skills in preparing *Drosophila* cultures, handling specimens, and performing dissections, along with a comprehensive understanding of the organism's morphology, life cycle, and behaviour. We also learned essential molecular biology techniques, including PCR and gel electrophoresis. This internship bolstered our research mindset by giving us insight into experimental design, data interpretation, and critical analysis, while also improving our scientific communication abilities through the creation of posters and presentations.

- Aisha Shoeb and Gungun Mathur  
2nd year

# STUDENT'S INTERNSHIPS

I've been working with Prayan foundation, a youth run NGO, under 'Unit Sambhav-Project Taran' for the last 11 months. As an intern, I've gained valuable insights into management and execution of plans. Through our drives, we've been able to foster an interactive approach to teach students at different NDMC schools located in North Delhi. By incorporating various activities, quizzes and games, we've tried to bridge the gap between students and education. I've worked with the content team where I've learned to curate the content which has to be presented to the children. Along with that, I've worked with the Graphics team where I document the drives so it can reach more people. At my ongoing tenure, I've been able to enhance my communication and social skills. I've also learnt to understand the gap and lack of exposure which has to be faced by the children studying under certain government schools.

- Nikita Srivastava  
2nd year

As an HR Intern at Aarambh Organisation, I gained hands-on experience in talent acquisition, employee engagement, and policy implementation. I assisted in recruitment processes, coordinated training sessions, and contributed to employee wellness initiatives. I also supported HR data management and drafted communications for internal teams. Working with a dynamic team, I applied HR principles to real-world challenges and enhanced my problem-solving skills. The internship provided valuable insights into HR operations and the importance of fostering a positive workplace culture. In addition, I participated in screening resumes, scheduling interviews, and maintaining candidate databases, which improved my organizational and communication skills. I also assisted in onboarding processes, helping new recruits adapt smoothly to the work environment. This experience strengthened my ability to manage multiple tasks efficiently.

- Saniya Siddqui  
2nd year

# STUDENT'S INTERNSHIPS

Since June 2025, I have been an intern at Selfless Sewa, a social service NGO affiliated with Niti Aayog, Government of India, where I am currently serving as the Sub-Head and formerly served as Research Task Head. As Sub-Head, I lead and manage education drives for children living in slum areas and organize sanitary napkin distribution drives for women living in slum areas to promote menstrual hygiene. Alongside these on ground initiatives, I conducted research on the existing curricula of the children to identify learning gaps and improve educational delivery. Furthermore, I studied the social and cultural barriers surrounding menstrual well being in slum communities and contributed to designing simple, accessible awareness strategies based on these insights.

This experience represents a sustained effort to integrate action with research, ensuring that each initiative is thoughtfully designed and driven by a genuine hope to create meaningful and lasting change.

- Aanya Uniyal  
1st year

My experience as a Social Media Strategist intern at SocialGaze has been genuinely exciting and full of learning, and it's still ongoing. I've had the chance to work on real ideas, planning content, understanding what audiences connect with, and seeing how strategies come to life online. It's been interesting to notice how small changes can make a big difference in engagement. Along the way, I've had the privilege to connect with like minded people and I've also grown more confident in sharing ideas, handling feedback, and working with deadlines. In addition, I have been involved in analyzing performance metrics and tracking trends to refine content strategies and improve reach. I also contributed to brainstorming sessions, where creative ideas were transformed into engaging campaigns across different platforms.

- Aakriti Raj  
1st year



# THE MORPHIC

Exploring nature-inspired  
forms and designs that shape  
innovation



## *Morpho in Metamorphosis*

*The Morpho is a jewel among butterflies,  
it's iridescent blue wings are flashing in the sky,  
the wing scales play tricks with light,  
and resemble tiny trees made of chitin, bright!*

*It's a treasure house of design ideas,  
for projects in biomimetics,  
fabrics, sensors to cosmetics;  
all inspired by nature's aesthetics*

*flutters and flowers in the garden  
a dance of light in every hue,  
reminding us, in ways poetic,  
Nature's art is biomimetic.*

*—Aaisha Shoeb*



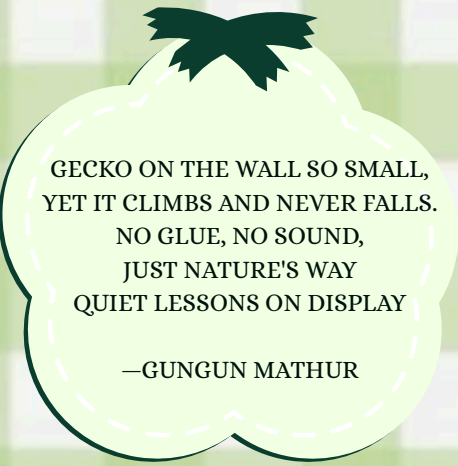
## *Before us*

In spiral deep and fractal lines,  
We traced the nature's map of grand designs,  
in petals, tides, in branching streams,  
She shaped the rhythm of our dreams.

We shaped her patterns, called it our own  
gave names to truths already known,  
Yet every pattern, quiet and wise  
still writes itself beyond our eyes

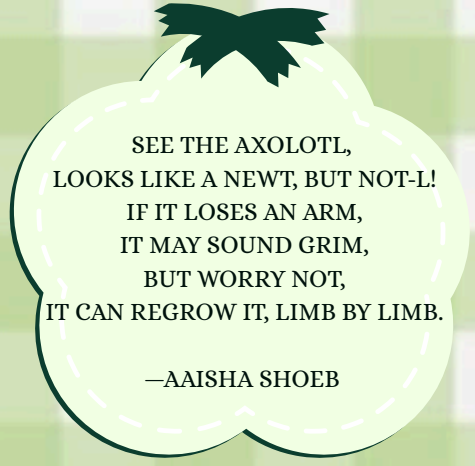
In shrouded grids of leaf and sky  
in mirrored forms where meanings lie,  
We explored the codes she set in place,  
yet missed the depth we could not trace

- Gungun Mathur




GECKO ON THE WALL SO SMALL,  
YET IT CLIMBS AND NEVER FALLS.  
NO GLUE, NO SOUND,  
JUST NATURE'S WAY  
QUIET LESSONS ON DISPLAY

—GUNGUN MATHUR



SEE THE AXOLOTL,  
LOOKS LIKE A NEWT, BUT NOT-L!  
IF IT LOSES AN ARM,  
IT MAY SOUND GRIM,  
BUT WORRY NOT,  
IT CAN REGROW IT, LIMB BY LIMB.

—AAISHA SHOEB



BATS GLIDE SOFTLY  
THROUGH THE NIGHT,  
ECHOES GUIDE THEIR  
HIDDEN FLIGHT,  
HUMANS BORROWED  
SOUND FOR SIGHT.

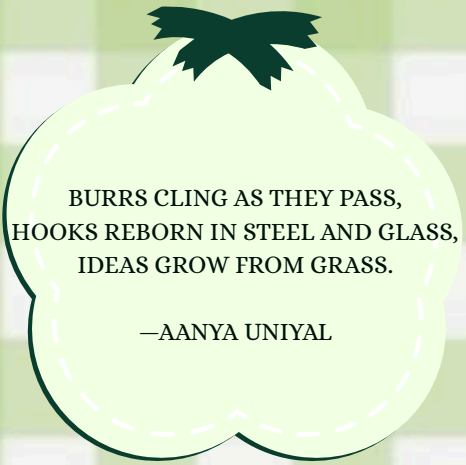
—ISHA KUMARI



# Indelible




## INKLINGS




BURRS CLING AS THEY PASS,  
HOOKS REBORN IN STEEL AND GLASS,  
IDEAS GROW FROM GRASS.

—AANYA UNIYAL



THE KINGFISHER;  
PIERCED THE WATER  
WITHOUT A SINGLE SPLASH,  
SO WE BENT THE BULLET TRAIN  
TO WEAR ITS BEAK.

—PRASHITA GUPTA



SEE STARS AND FIREFLIES GLOW  
MAKE THE JELLYFISH BLOW  
TAKE A BUNNY WITH BOW  
SOUND LIKE A CROW  
ENJOY MAGZINE WITH RAINBOW  
JUST FLOW

—MEHAK GANDHI

# GARDEN SLUG: A PEST OR A MEDICAL INNOVATION

Gardeners may see garden slugs as pests, but the scientists see the potential in its slimy mucus. The mucus of the garden slug is super strong and adheres even to the wet surfaces. Thus, researchers mimicked this slimy defence to create a medical innovation. Scientists studied the mucus of the garden slug, which uses a double-layered structure, a sticky polymer network and a flexible matrix, to adhere to surfaces. They created a double-layered hydrogel glue that can bind to wet surfaces, potentially replacing sutures. Unlike most glues, this slug's mucus-inspired hydrogel glue is adhesive to wet surfaces, flexible and biodegradable, which degrades after the tissue is healed. So the next time when you see the garden slug in your garden, you should remember the great medical innovation inspired by its mucus.

– Aarushi Keshari



# FROM BEAKS TO BULLET TRAINS



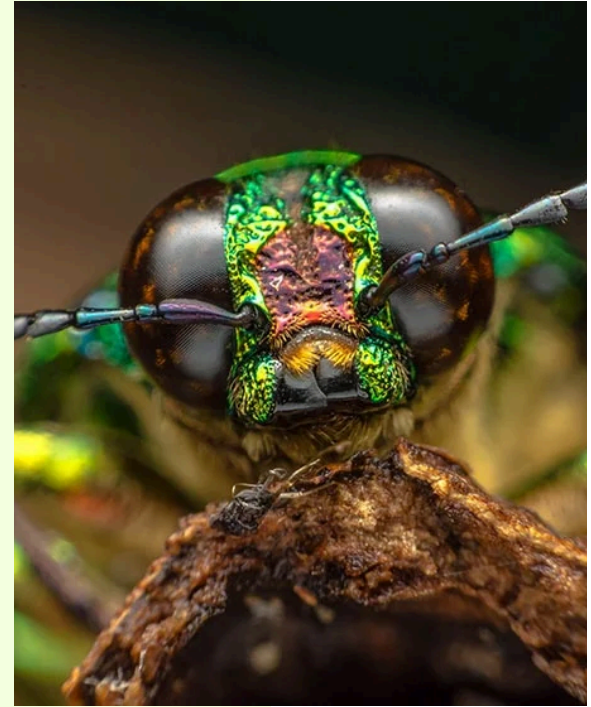
Modern engineering often finds inspiration in nature. One of the most famous examples of this can be seen in the design of Japan's high-speed bullet trains, also known as the Shinkansen. When the first bullet trains were introduced, engineers faced a serious problem. As trains passed through tunnels at very high speeds, they produced a loud tunnel boom when exiting the tunnel because of the sudden change in air pressure. The noise disturbed nearby communities and also affected the train's efficiency. The solution came from an unexpected place: a bird. An engineer named Eiji Nakatsu, who was also a birdwatcher, he noticed how the kingfisher dives from air into water with almost no splash. The bird's long and pointed beak allows it to move smoothly between the two environments. Inspired by this, engineers redesigned the front of the train to look similar to the kingfisher's beak which reduced the tunnel boom and made the train more energy efficient.

– Aanya Uniyal

# INSECTS IN ADVANCED SENSOR DESIGN

Involvement of insects in bio- inspired technologies and biological sensors have emerged as a revolutionary tool in modern science in the past few years. Research reveals that insects have had their specialized sensing and moving systems for millions of years and are wired to make perfect engineering devices. By imitating such systems, scientists are creating designs that can detect chemicals and environmental, and physical changes and do it extremely well. Insect-inspired nanostructures lend themselves to technologies such as new superhydrophobic surfaces and energy-efficient photonic structures. More broadly, animal designs in sensor technology suggest a growing trend of biomimicry, where natural systems direct technology.

– Akanksha Bharti



# THIN FILM SOLAR CELLS INSPIRED BY BUTTERFLIES

Biomimicry is an approach to innovation that draws inspiration from nature to develop technologies that are healthier and more sustainable for humans. While searching for sustainable energy solutions, scientists have turned to nature and they came across butterfly wings which are known for their iridescent colours. They are made up of microscopic structures which consist of multiple thin layers arranged in an organized pattern. When light strikes these layers, it is reflected, refracted and scattered. After studying them, scientists have developed nanostructured surfaces for solar cells that mimic their layered architecture. Traditional solar cells rely on thick layers of semiconductor material to absorb light, in contrast, thin film solar cells are lightweight, flexible and versatile. As a result, thin film solar cells inspired by butterfly wings can achieve higher efficiency without increasing material usage. This leads to cost reduction and minimized environmental impact.



– Anushka Singh



# The 8-Legged Surgeon

## The Problem– Delicate Tissue, Clumsy Tools

When doctors perform tissue grafts, they are dealing with incredibly fragile biological “sheets.” However current methods have major drawbacks:

- Sutures & Staples: These can pierce and tear delicate new cells
- Chemical Glues: Medical adhesives are messy, can be toxic to healing cells, and often struggle to stick in the “wet” environment
- The “Wrinkle” Factor: Try placing a piece of wet plastic wrap perfectly flat on a surface without it bunching up. That’s what surgeons face with cell sheets.

## The Solution– The Cephalopod Connection

- An octopus can grip smooth, wet rocks in a crashing tide with incredible strength, yet release them in a heartbeat. Scientists have replicated this using bio-inspired suction cups. By creating a gentle vacuum, these devices “grab” the tissue graft evenly across its entire surface. This distributes the pressure, ensuring that the fragile cells aren’t crushed or torn.
- Imagine a medical tool so precise it can pick up a layer of human cells as thin as a wet piece of tissue paper, move it across a room, and lay it perfectly flat onto a wound, all without using a single drop of toxic glue or a sharp needle.

Contributors—

Aaisha Shoeb  
Harshita Singh

# HAVE HUMANS ALWAYS BEEN COPYCATS?



Turns out, yes. And honestly? That might be our greatest strength.

For centuries, we called ourselves the smartest species on the planet. Meanwhile, we were squinting at bird beaks and whale fins and furiously taking notes. Our greatest breakthroughs are not triumphs of invention so much as acts of careful observation. Nature had already solved the problem. We just finally learned to read its notes. Take the bullet train slicing through Japan at remarkable speed. Engineers didn't dream that shape up from scratch; they borrowed it from the kingfisher's beak, a design refined by millions of years of evolution. Wind turbines? Their scalloped blades echo the tubercles on humpback whale flippers, which allow these giants to manoeuvre with surprising grace. The Peregrine Falcon, diving at around 389 km/h—roughly a third the speed of sound—inspired the nose cone designs of early jet engines. Not bad for a bird.

Then there are termites. The creatures you'd call an exterminator for turned out to be master architects. Their mounds maintain a near-constant internal temperature even as outside conditions swing wildly between 2°C and 40°C. The Eastgate Centre in Harare, Zimbabwe, studied this and redesigned its ventilation system accordingly, cutting energy consumption by 90 percent. A bug showed up modern architecture. Let that sink in.

This is barely scratching the surface. According to research published in *Bioinspiration & Biomimetics*, nature-inspired design is now influencing fields as varied as robotics, materials science, and urban planning, with engineers increasingly treating ecosystems as living libraries of optimised solutions.

And the frontier keeps moving. Biomimicry is now shaping the architecture of artificial neural networks, modelled on the brain's own wiring. In medicine, researchers are developing drug delivery systems inspired by how viruses navigate the human body, and surgical tools that mimic the structure of biological tissue. Nature has been running this experiment for billions of years, long before we had the audacity to call ourselves intelligent.

We are just finally learning to read the results.

—Astha Patel

# THE NAUTILUS SHELL AND SUBMARINE DESIGNING

When engineers seek solutions to complex design problems, they often turn to nature. This is what the people of science call biomimicry, the art of taking inspiration from elements of nature to refine human technology. A very good example of this is scientists turning to the mollusc, Nautilus, to improve submarine designs.

This marine cephalopod spends its life moving up and down through the water column without fins that are capable of sustaining swimming. So how does it do that? The secret is in the shell. This creature's shell is divided into several gas-filled chambers, which maintain buoyancy. A thin tube called the siphuncle runs along these chambers and regulates the amount of gas and liquid present within, thereby allowing Nautilus to change its density. When the chambers contain more gas, the animal floats up, and when there's more water in the chambers, the animal sinks. Modern submarine designs deploy a very similar set-up. They have ballast tanks that get filled with water when it's time to dive and get pumped with air when the submarine surfaces from the water. This is one of the many ways in which Nautilus inspires the modern-day submarine's blueprint. Being underwater requires structures that can withstand the pressure that comes along, since at extreme depths, the force pressing inward on the vessel becomes ginormous. The submarine design, hence, needs to be made pressure-resilient without making it unbearably heavy, and Nautilus once again provides the blueprint for that. This mollusc has shell walls made up of layered materials, giving it a composite structure that does not allow cracks to spread disastrously so that the shell absorbs and redistributes the stress instead of shattering.

Engineers are currently studying this architecture more to design pressure hulls that are lightweight as well as strong. Submarine engineering, nowadays, already uses layered alloys and composites to achieve the same property, but humans have yet to catch up with the optimised design Nautilus has achieved after millions of years of refinement and evolution. In the end, one of the most advanced ideas in modern engineering comes not from a laboratory but from a marine cephalopod that has been swimming in Earth's oceans since even before humans existed.

— Neeti Manral

# MEME-ETICS

## Van der Waals Forces: Defying Gravity Since the Cenozoic

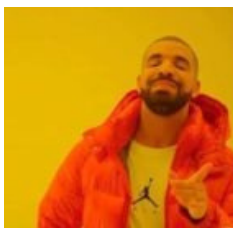


YOU

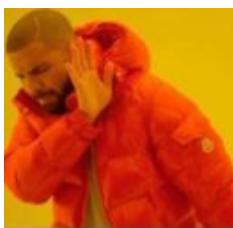


The girl he told you not to worry about :(

MANYA PATNI



They change colour to perfectly match any background



It's them broadcasting their feelings in colour, camouflaging is just a side job



MAMATA KUMARI PADHY

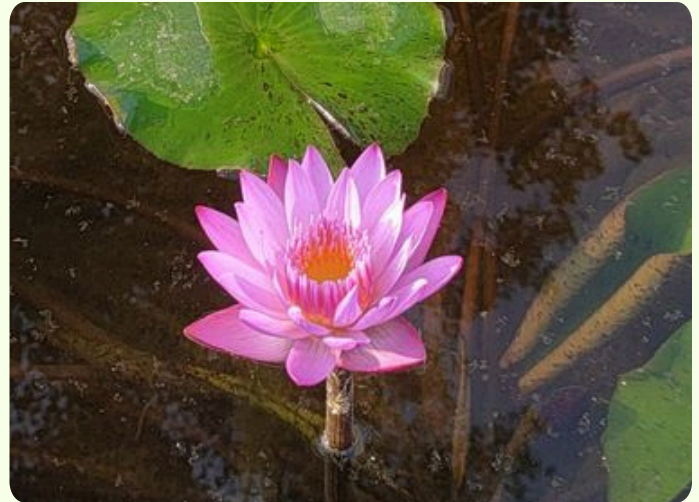
# CREATIVE CORNER

**NIKITA SRIVASTAVA**



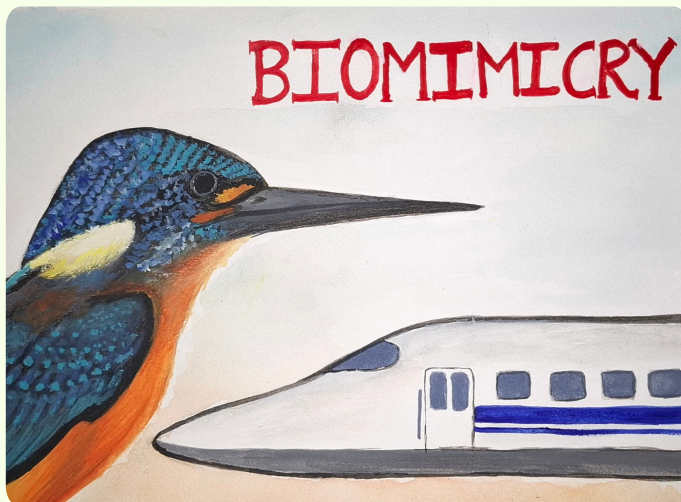
**In silent truce, the harmless wear the sting, To find their safety on a stolen wing**

**SWATI KUMARI**



**Exploring the “Lotus Effect,” where the lotus leaf uses a dual-layer of wax-coated micropapillae to achieve super-hydrophobicity.**

**SHIVALI**



**From kingfisher to bullet- streamlined beak design maximizes speed & efficiency and minimizes noise**

**NANCY**



**Nature's tiny helicopter, catching the light.**

# CREATIVE CORNER

**KHUSHI**



**The original optical illusion taught us how to reflect light, capture light, and create materials that never go out of style.**

**AAISHA SHOEB**



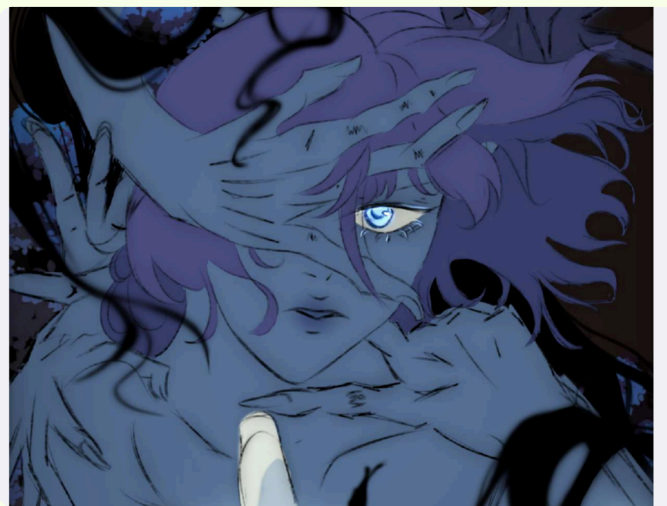
**An architectural showcase of biological metamerism**

**GOYIR HAI**



**Before humans dared to dream of flight, the gentle wings of birds carried hope and dreams.**

**KHUSHI BAMNAWAT**



**This artwork aligns with Biomimicry as immersion in nature. The flowing shapes shows how nature can influence humans**

# NOBEL LAUREATES 2025



## Mary E. Brunkow

Mary E. Brunkow is an American immunologist recognized for her significant contributions to understanding the body's immune regulation. Her research focused on regulatory T cells (Tregs), which play a crucial role in preventing the immune system from attacking the body's own tissues. Through her work, she helped uncover the genetic and molecular mechanisms behind immune tolerance, advancing knowledge about autoimmune diseases and immune system disorders. She was awarded the 2025 Nobel Prize in Physiology or Medicine, along with Fred Ramsdell and Shimon Sakaguchi, for their discoveries that have paved the way for improved treatments in immunotherapy, autoimmune diseases, and organ transplantation.

## John M. Martinis

John M. Martinis is an American physicist known for his pioneering work in quantum computing and superconducting circuits. His research focused on demonstrating macroscopic quantum phenomena, particularly how quantum effects like superposition and tunnelling can be observed and controlled in electrical circuits. This work laid a strong foundation for the development of scalable quantum computers. For these groundbreaking contributions, he was awarded the 2025 Nobel Prize in Physics, along with Michel H. Devoret and John Clarke.



## Omar M. Yaghi

Omar M. Yaghi is a renowned chemist known for pioneering the development of metal-organic frameworks (MOFs)—highly porous, crystalline materials made by linking metal ions with organic molecules. His work revolutionized material science by enabling the design of structures with extremely large surface areas, capable of storing gases like hydrogen and carbon dioxide, as well as applications in catalysis and environmental sustainability. For this groundbreaking contribution, he was awarded the 2025 Nobel Prize in Chemistry, along with Susumu Kitagawa and Richard Robson.

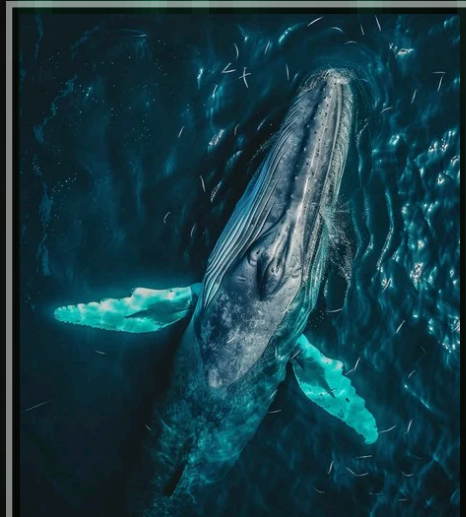




# MOVIE



MY OCTOPUS TEACHER



A LIFE ON OUR PLANET



NATURE TECH

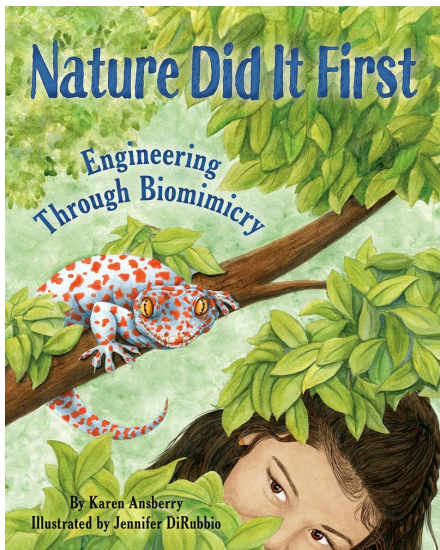
Design. Innovation. Inspired by Nature.

We bring to you a freshly curated list of movie recommendations for you to watch to explore the theme of biomimicry and how it inspires the design innovation and inventions.

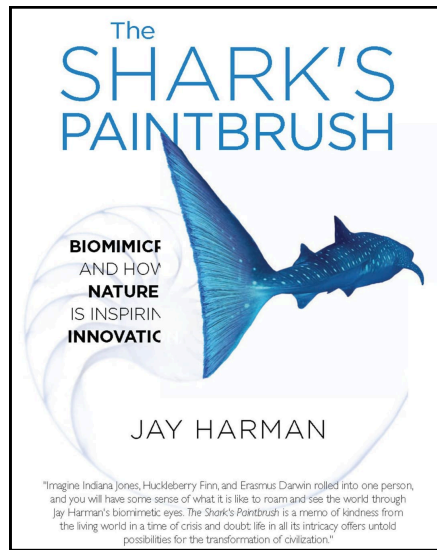
Explore Now



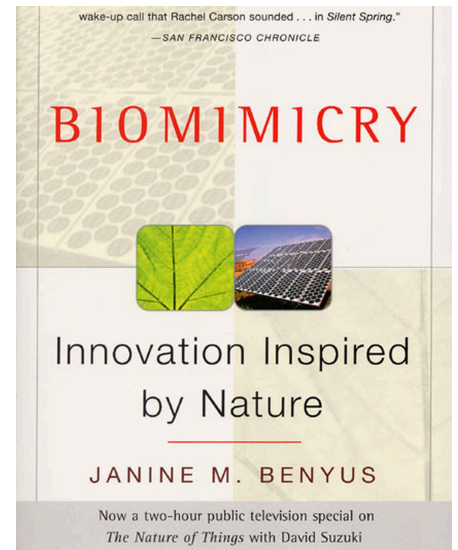
# BOOK Recommendation



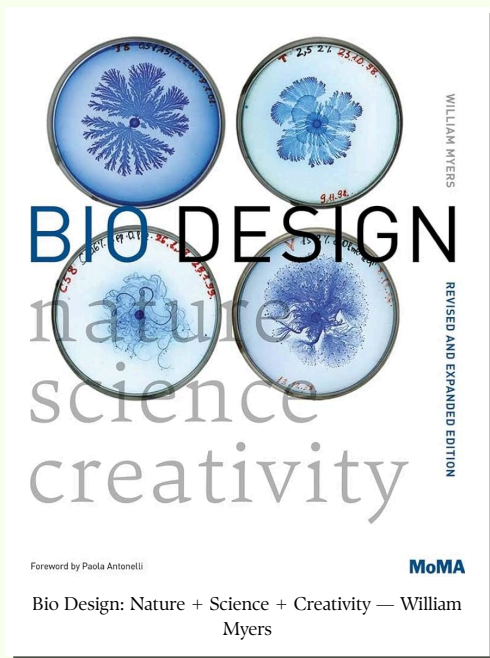
Nature did it first: Engineering through biomimicry - Karen Rohrich Ansberry



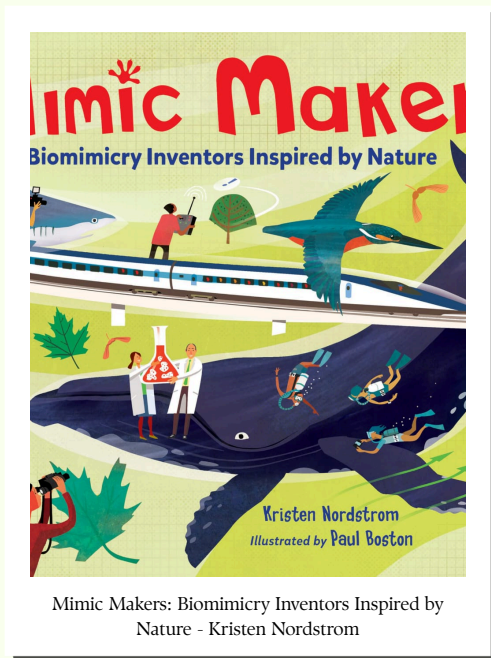
The Shark's Paintbrush: Biomimicry and How Nature is Inspiring Innovation - Jay Harman



Biomimicry: Innovation Inspired by Nature - Janine Benyus

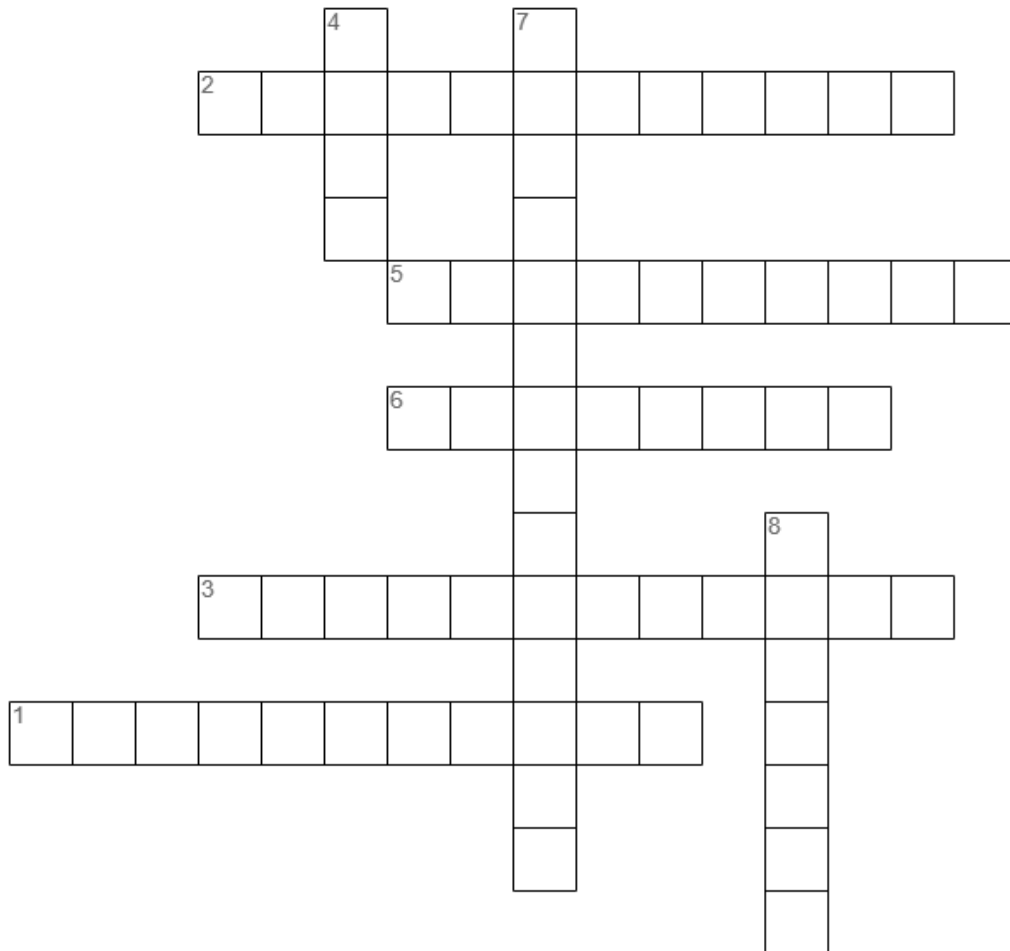


Bio Design: Nature + Science + Creativity — William Myers



Mimic Makers: Biomimicry Inventors Inspired by Nature - Kristen Nordstrom

# MOTS *croisés*



## ACROSS

1. Cooling system from termite mounds
2. Bird wing-inspired flight science
3. Term for energy-efficient design
5. Designing solutions inspired by nature
6. Gecko-inspired sticking ability

## DOWN

4. Resistance reduced by shark skin
7. Lotus leaf property
8. Study of materials inspired by nature



Blogs: Sapientiae