



**Shri Shivaji Education Society Amravati's
Science College, Nagpur**



Accredited with CGPA of 3.51 at 'A+' Grade by NAAC, Bangalore A College With Potential for Excellence An Institutional Member of APQN
Recognized Centre for Higher Learning & Research A Mentor College Under PARAMARSH Scheme, UGC New Delhi
A Mentor College Under Paris Sparsh Scheme of Maharashtra State An ISO 21001:2018 Certified Institution

Department of Microbiology & Biotechnology

Organizes

Calendar Making Competition 2025

on

- Theme :** *Microbiology & Biotechnology for Industrial Development*
- Submission of Entries :** Dt. 06/09/2024 on micronaac2023@gmail.com
- Objective :** To Promote Creativity and self expression among Students.
This Displays a blend of Exceptional Creativity and imagination with great Enthusiasm.
- Registration :** Online Registration through Google form Link is Mandatory
<https://forms.gle/imJBHCUBUArBJ3Fx7t>
- Prize Money and Memento :** Rs. 500/- to 3 Winner Groups: 2 from UG and 1 from PG Category
* Memento to all the Winners
- Certificate :** E-Certificate to all the Participants

Dr. Arvind Deshmukh
President
Microbiologists Society, India
Convener
Dr. Pramita Gulhane

Dr. Omraj Deshmukh
Principal
Science College, Congress Nagar, Nagpur

Co-Ordinator
Prof. Atul Bobdey

Organizing Committee

Ms. Sanchari Sarkar
Ms. Ankita Manapure
Ms. Shivani Gohane
Ms. Payal Talekar
Ms. Manasi Borkar

Ms. Nupur Deshmukh
Ms. Anjali Pagade
Dr. Sapna Baghel
Ms. Pallavi Butle
Ms. Surabhi Bawankar

Ms. Mayuri Bhad
Ms. Priya Gaidhane
Ms. Sarika Tekade
Ms. Achala Waghmare



RULES FOR THE EVENT



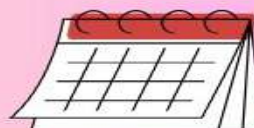
- The team should have a maximum of 5 participants.
- Only one entry per Department is allowed, No individual entry is allowed.
- The calendar frame should be from January 2025 to December 2025.
- Calendar page size should be 40 cm (L)* 29 cm (B)

Front Page

- Background: White
- Font: Times New Roman (12 pt);
- Bold 18pt for Headings
- Font Color: Black / Blue
- Date blocks: Equal size blocks marked with important days of the month i.e. only scientifically significant days (Birth/Death anniversaries of scientists in the field of Biological Sciences/ Important Inventions/ Discoveries).
- Information block: Factual data about important days of the month.
- Advertisement block: Keep blank for advertisement.
- Header: Microbiologists Society, India.
- Footer: Name of calendar-making college with address and website.
- Add Independence Day, Republic Day, Maharashtra Day, Laxminarayan Day, Bhausaheb Deshmukh Jayanti & Punyatithi.
- Avoid Social/Festival/Religious/Political indication.

Back Page

- Background: White
- Font: Times New Roman (12 pt)
- Bold 18pt for Headings
- Font Color: Black / Blue
- Information regarding subjects (Microbiology/Biotechnology)
- Colored Photographs may be incorporated.
- The back page can be designed innovatively based on the theme of the calendar.



**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur**

Department of Biotechnology

Session 2024-2025

Organizes

“CALENDAR MAKING COMPETITION”

Date: 06-09-2024

The calendar-making competition held by the Department of Microbiology and Biotechnology on 06 September 2024 proved to be a fantastic event, centered around the theme "Microbiology and Biotechnology for Industrial Development." Under the chairmanship of Hon'ble Prof. Omraj Deshmukh, Principal of Science College Nagpur, and Coordinator Respected Prof. Atul Bobdey and Convener Dr. Pranita Gulhane, students from both postgraduate and undergraduate programs showcased their remarkable creativity and artistic skills, creatively integrating biotechnology concepts into their designs.

In the undergraduate biotechnology category, Anushree Ghosh, Ruzain Nawaz Sheikh, Aabha Tupkar, Vanshika Nandeshwar, and Vadehakshi Ninawe emerged as the winners. All participants were recognized with certificates of appreciation for their impressive contributions.

This engaging event not only highlighted the innovative talents of the students but also strengthened the sense of community within the department. The enthusiastic participation and diverse interpretations of the theme demonstrated the potential for biotechnology to inspire artistic expression, paving the way for future collaborative projects and events that blend science and creativity. Overall, it was a celebration of both creativity and academic passion.

Action Taken: A total of 41 students participated, developing key skills in graphic design, illustration, and layout. From this competition, students gained valuable experience in conceptualizing and executing creative projects, enhancing their teamwork and communication abilities. Additionally, they received constructive feedback on their designs, which will aid in their future endeavors in both academic and professional settings. The event also fostered a deeper understanding of how microbiology and biotechnology can be visually represented, further igniting their passion for these fields.



**Shri Shivaji Education Society Amravati's
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Department of Biotechnology

Session 2024-2025

Organizes

“CALENDAR MAKING COMPETITION”

Date: 06-09-2024

Attendance sheet

Sr. No.	Name of Participants	Class	Group
1	Vaidehi Telang	B.Sc II nd Microbiology	Group 1
2	Leena Gholse		
3	Aparna Kurrewar	MSc I st Microbiology	Group 2
4	Tannu Atkari		
5	Rameshwari Shende		
6	Riya Suryavanhi	MSc I st Microbiology	Group 3
7	Pallavi Garade		
8	Samiksha Tajane		
9	Raveena Khadse		
10	Rajnandini Bisen		
11	Medha Sagar Palliwar	BSc I st (CMBT)	Group 4
12	Harshili Kombade		
13	Sanskriti Raju Motghare		
14	Jaivi meshram		
15	Kashish patel		
16	Anushree Ghosh	BSC I st (CMBT)	Group 5
17	Ruzain Nawaz Sheikh		
18	Aabha Tupkar		
19	Vanshika vilas Nandeshwar		
20	Vedhakshi Ninawe		
21	Arya walode	MSc II nd Microbiology	Group 6
22	Akanshya Bisen		
23	Astha Sakharwade		
24	Aditi Bhandarkar	BSC I st Microbiology	Group 7
25	Anjali Dubey		
26	Rachita Gulkari		
27	Adwiti Nandagawli		

28	Himanshi sakharwade	BSc I st (CMBT)	Group 8
29	Shreya khade		
30	Payal Doifode		
31	Priti jadhav		
32	Yasmine Sheikh		
33	Sayali Dhakate	BSc I st Microbiology	Group 9
34	Saloni Patale		
35	Shruti Walke		
36	Shravani Dharmik		
37	Samidha Nagdeve		
38	Depam Vadera	BSc I st Microbiology	Group 10
39	Siddhant Dhanorkar		
40	Ritisha Kukadkar		
41	Neha Ashitkar		



Pranita Gulhane

Dr. Pranita Gulhane

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur**

Department of Biotechnology

Session 2024-2025

Organizes

“CALENDAR MAKING COMPETITION”

Date: 06-09-2024

FEEDBACK FORM

Q.1) How would you rate the overall organization of the competition? a)

Excellent

b) Good

c) Satisfactory

Q.2) How effective was the competition in encouraging creativity and innovation?

a) Very effective

b) Effective

c) Neutral

Q.3) How did the competition affect your motivation to explore further opportunities in design or related fields?

a) Highly motivated

b) Somewhat motivated

c) Neutral

Q.4) Did you find the competition to be a valuable experience for your personal or academic growth?

a) Yes

b) No

Q.5) Would you participate in similar events organized by the department in the future?

a) Yes

b) No

**Shri Shivaji Education Society Amravati's
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Department of Biotechnology

Session 2024-2025 Organizes

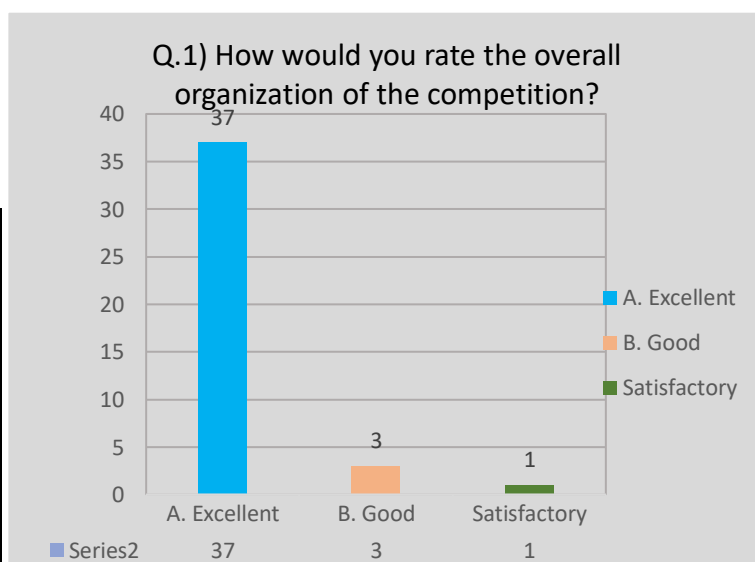
“CALENDAR MAKING COMPETITION”

Date: 06-09-2024

FEEDBACK RESPONSES

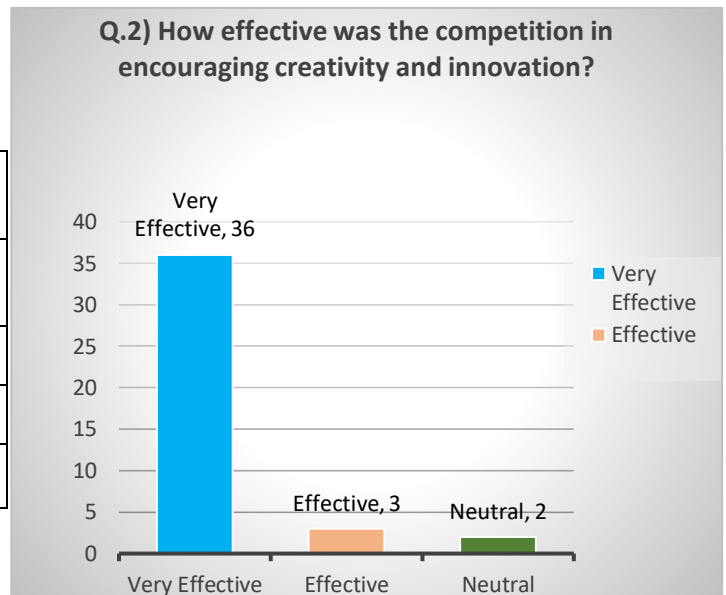
Q.1) How would you rate the overall organization of the competition?

Rating	No. of Students	Percentage
Excellent	37	90 %
Good	3	8 %
Satisfactory	1	2 %
Total	41	100%



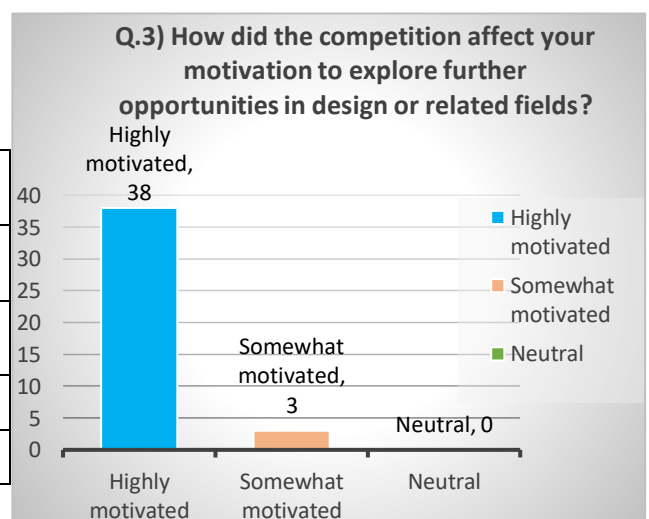
Q.2) How effective was the competition in encouraging creativity and innovation?

Rating	No. of Students	Percentage
Very Effective	36	88 %
Effective	3	7 %
Neutral	2	5 %
Total	41	100%



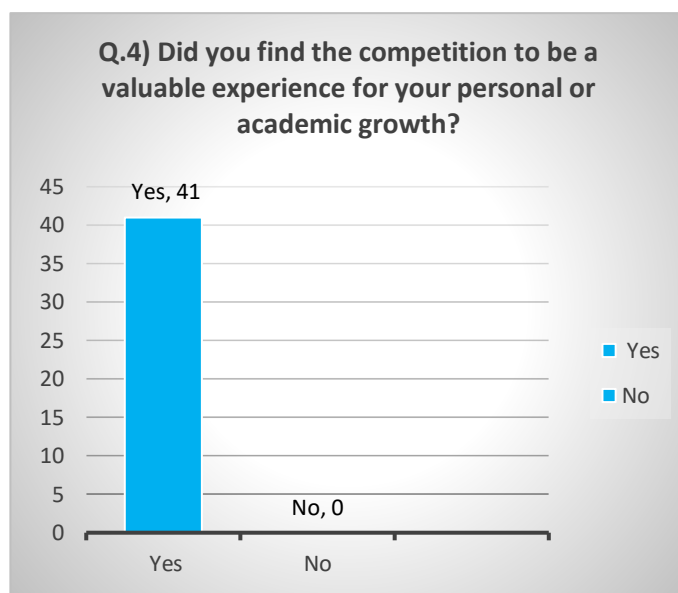
Q.3) How did the competition affect your motivation to explore further opportunities in design or related fields?

Rating	No. of Students	Percentage
Highly Motivated	38	93%
Somewhat Motivated	3	7 %
Neutral	0	0%
Total	41	100%



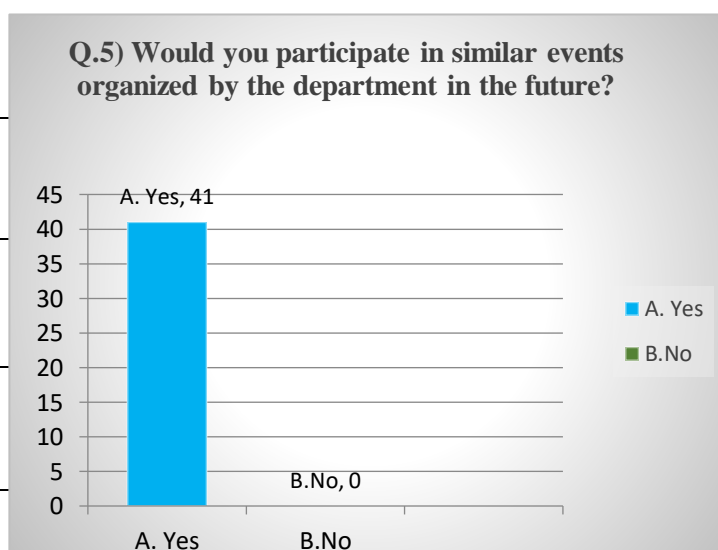
Q.4) Did you find the competition to be a valuable experience for your personal or academic growth?

Rating	No. of Students	Percentage
Yes	41	100%
No	0	0 %



Q.5) Would you participate in similar events organized by the department in the future?

Rating	No. of Students	Percentage
Yes	41	100 %
No	0	0 %



Pranita B Gulhane
Pranita B Gulhane



MICROBIOLOGISTS SOCIETY INDIA

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<http://microbiosociety.org>

JANUARY 2025

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12 National youth day	13	14	15	16	17	18
19	20	21	22	23	24	25
26 Republic Day	27	28	29	30 World Leprosy Day	31	

"I think the biggest innovations of the 21st century will be at the intersection of biology and technology. A new era is beginning" -Steve Jobs



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PIONEERING WOMEN IN SCIENCE

Beverly Griffin (1930 - 2016)(23 January)

Born: Delhi, Louisiana. Griffin earned two doctorates in chemistry in an era when it was rare for women to pursue a scientific career. She is best known for her pioneering work on the molecular biology of two viruses that cause cancer - the polyomavirus and Epstein Barr Virus (EBV). From the 1980s she was devoted to understanding how in one setting EBV could cause glandular fever, a largely harmless disease, and yet in another Burkitt's Lymphoma, a major killer of children in Central Africa. She also spearheaded efforts to improve the diagnosis and treatment of the cancer.



Gertrude Elion (1918 - 1999)(23 January)

Born: New York City, United States. Elion shared the 1988 Nobel Prize in Physiology or Medicine for her contributions to the development of a multitude of new drugs. This included drugs for herpes, leukemia, malaria, gout, immune disorders, and AIDS, and immune suppressants to overcome rejection of donated organs in transplant surgery. Her work earned 45 patents.

World Leprosy Day

World Leprosy Day is observed every year on the last Sunday of January. In India, it is observed on 30 January every year, coinciding with the death anniversary of Mahatma Gandhi. Leprosy is a neglected tropical disease (NTD) which still occurs in more than 120 countries, with more than 200 000 new cases reported every year.

The aim of observing the World Leprosy Day is to create awareness against the stigma attached to the disease, by making the general community aware that it is a disease spread by a type of bacteria and it can be easily cured.

EVENTS IN BIOSCIENCE HISTORY

26 Jan 2023
The US FDA approved the first monoclonal antibody for the treatment of Alzheimer's disease

26 Jan 2022
First mRNA vaccine for HIV begins trials in humans

11 Jan 2022
First pig-to-human heart transplant

6 Jan 2022
mRNA technology shown to successfully reprogramme T lymphocytes in mice to treat cardiac injury

30 Jan 2018
First human eggs grown in laboratory

2014
Japanese scientists completed successful skin-to-eye stem cell transplant

Year: 2012 Innovative Young
Biotechnologist Award
Dr. Thenmalarchelvi
Rathinavelan
Indian Institute of
Technology, Hyderabad



Year: 2011 Innovative Young
Biotechnologist Award
Dr. Kavita Babu
Indian Institute of Science
Education and Research,
Mohali

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

Serum Institute of India Pvt. Ltd. is now the world's largest vaccine manufacturer by number of doses produced and sold globally (more than 1.5 billion doses) which includes Polio vaccine, Diphtheria, Tetanus, Pertussis, Hib, BCG, r-Hepatitis B, Measles, Mumps, Rubella as well as Pneumococcal and Covid-19 vaccines. It is estimated that about 65% of the children in the world receive at least one vaccine manufactured by Serum Institute. Vaccines manufactured by the Serum Institute are accredited by the World Health Organization, Geneva and are being used in around 170 countries across the globe in their national immunization programs, saving millions of lives throughout the world.



Biocon Limited is an Indian biopharmaceutical company based in Bangalore. It was founded by Kiran Mazumdar-Shaw in 1978.[4] The company manufactures generic active pharmaceutical ingredients (APIs) that are sold in approximately 120 countries,[5] including the United States and Europe.[4] It also manufactures novel biologics as well as biosimilar insulins and antibodies, which are sold in India as branded formulations. Biocon's biosimilar products are also sold in both bulk and formulation forms in several emerging markets.[6]





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FEBRUARY 2025

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4 World Cancer Day	5	6	7	8
9	10	11 International women in science day	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28 World Science Day	

“Biology is the most powerful technology ever created. DNA is software, protein are hardware, cells are factories”.

Arvind Gupta



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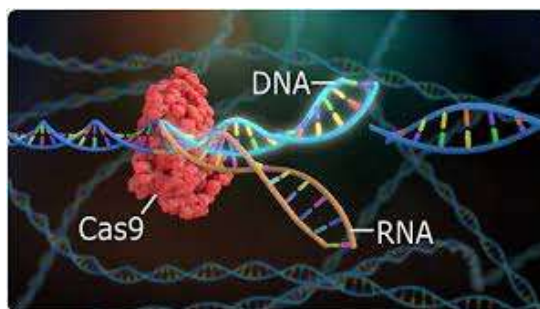


PIONEERING WOMEN IN SCIENCE

Jennifer Doudna (1964)(19th February)

Born: Washington DC, United States. Doudna first made her name uncovering the basic structure and function of the first ribozyme, a type of catalytic ribonucleic acid (RNA) that helps catalyse chemical reactions. This work helped lay the foundation for her later helping to pioneer CRISPR-Cas 9, a tool that has provided the means to edit genes on an unprecedented scale and at minimal cost. Doudna is known for spearheading the public debate to consider the ethical implications of using CRISPR-Cas9 to edit human embryos.

The life processes of organisms are controlled by genes made up of sections of DNA. In 2012, Jennifer Doudna and Emmanuelle Charpentier developed a method for high-precision genome editing. They used the immune system of a bacterium, which disables viruses by cutting their DNA up with a type of genetic scissors. By extracting and simplifying the genetic scissors' molecular components, they made it generally applicable. The CRISPR/Cas9 genetic scissors can lead to new scientific discoveries, better crops and new weapons in the fight against cancer and genetic diseases.



The International Day of Women and Girls in Science is an annual observance adopted by the United Nations General Assembly to promote the full and equal access and participation of women in Science, Technology, Engineering and Mathematics fields.

World Cancer Day is an international day marked on 4 February to raise awareness of cancer and to encourage its prevention, detection, and treatment. World Cancer Day is led by the Union for International Cancer Control to support the goals of the World Cancer Declaration, written in 2008.

EVENTS IN BIOSCIENCE HISTORY

Year: 2012 Innovative Young
Biotechnologist Award
Dr. Rohini Garg
National Institute of Plant
Genome Research, New
Delhi
Area: Cell Biology



Year: 2012 Innovative Young
Biotechnologist Award
Dr. Manitha B. Nair
AIMS, Kochi
Area: Bone Tissue
Engineering, Stem Cell
Research

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

Bharat Biotech started operations in 1996—the year Dr. Krishna M. Ella and Mrs. Suchitra Ella returned from the US to set up a company dedicated to creating innovative vaccines and bio-therapeutics. Dr. Ella was returning from a research and teaching stint in the US and he wanted the new company to be an intellectual capital powerhouse. In the years that followed, he assembled a team of bright scientists and led the creation of path-breaking vaccines.

Today, Bharat Biotech has over 220 patents. As a leading biotechnology company, we seamlessly straddle the worlds of product research and manufacturing to create effective vaccines and therapeutics for patients around the world.



Strand Life Sciences, formerly Strand Genomics, is an Indian in silico technology company, based in Bangalore. Strand focuses in data mining, predictive modeling, computational chemistry, software engineering, bioinformatics, and research biology to develop software and services for life sciences research.

Strand Life Sciences was founded in October 2000 by Professors Vijay Chandru, Ramesh Hariharan, Swami Manohar, and V. Vinay. It was registered as Strand Genomics, but was later renamed to Strand Life Sciences as it dealt with various other aspects of life sciences.





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MARCH
2025

SUN	MON	TUE	WED	THU	FRI	SAT
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24 World Tuberculosis Day	25	26	27	28	29

*Our world is built on biology and once we begin to understand it,
it then becomes a technology.*

Ryan Bethencourt



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PIONEERING WOMEN IN SCIENCE

Fran Balkwill (1952)(18th March)

Born: Kingston-upon-Thames, London. Professor Fran Balkwill is a British scientist who is best known for her work to understand the interaction between a tumour and its surrounding environment and how this affects the growth and spread of cancer. Her research has helped establish the strong links between inflammation and cancer. She is a key player in translating such knowledge into new treatments for ovarian cancer. Balkwill has also made major contributions to raising public awareness of science.



Margaret Dayhoff (1925 - 1983)(11 March)

Born: Philadelphia, Pennsylvania, United States. Dayhoff is known as the founder of bioinformatics. This she did by pioneering the application of mathematics and computational techniques to the sequencing of proteins and nucleic acids and establishing the first publicly available database for research in the area.

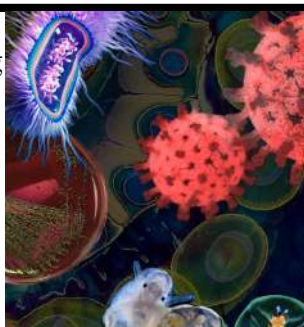
Tuberculosis (TB) is an infectious disease that most often affects the lungs and is caused by a type of bacteria. It spreads through the air when infected people cough, sneeze or spit. Tuberculosis is preventable and curable. About a quarter of the global population is estimated to have been infected with TB bacteria.

Each year we commemorate World TB Day to raise public awareness about the devastating health, social and economic consequences of tuberculosis (TB) and to step up efforts to end the global TB epidemic.

The date marks the day in 1882 when Dr. Robert Koch announced that he had discovered the bacterium that causes TB, which opened the way towards diagnosing and curing this disease.
Events

EVENTS IN BIOSCIENCE HISTORY

Year: 2011 Innovative Young
Biotechnologist Award
Dr. Kavita Babu
Indian Institute of Science
Education and Research,
Mohali



Year: 2011 Innovative Young
Biotechnologist Award
Dr. R. Mahalakshmi
Indian Institute of Science
Education and Research,
Bhopal
Area: Biophysics

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

OncoStem Diagnostics, an Oncology focused company that enables personalised cancer treatment has been recognised as the winner of the Aegis Graham Bell Award in the Innovative Diagnostics Category. The award is an initiative by Aegis School of Data Science to honour innovations in IT, Telecom and exponential technologies. OncoStem's CanAssist Breast is an innovative, cost-effective test that can help clinicians to plan tailor-made treatment for each breast cancer patient based on tumour biology.

The risk of cancer recurrence is dependent on tumour type, stage and the biology of each patient's tumour. 'CanAssist-Breast' determines the proteomic fingerprint of the tumour. This information is then used by OncoStem's proprietary machine learning-based algorithm that stratifies patients as 'low or high risk for cancer relapse.



DR MANJIRI BAKRE
CEO & FOUNDER
ONCOSTEM DIAGNOSTICS



Panacea Biotec is an Innovation driven Biotechnology company doing Research and Development, Manufacturing, Sales, Distribution and Marketing of Pharmaceuticals and Vaccines.

Panacea Biotec was set up in the year 1984, under the name of Panacea Drugs Private Limited. Panacea Biotec is the first company to have developed fully liquid Pentavalent vaccine (DTwP-Hep B+Hib) EasyFive in 2005. EasyFive is a WHO Prequalified vaccine being used in more than 75 countries worldwide as on March 2022.



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APRIL
2025

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11 World Parkinsons Day	12
13	14	15	16	17 World Haemophilia Day	18	19
20	21	22 Earth Day	23	24	25 World Malaria day	26
27	28	29 World Immunology Day	30			

*I measure the progress of a community by
the degree of progress which women have achieved.*

- Dr. B. R. Ambedkar



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PIONEERING WOMEN IN SCIENCE

Brigitte Askonas (1923 - 2013)(1st April)

Born: Vienna, Austria. Askonas co-developed one of the first systems for the cloning of antibody-forming B cells in vivo, some of the earliest monoclonal antibodies. She was also one of the first scientists to isolate and clone virus specific T lymphocytes, laying the foundation for defining different influenza sub-sets and improving vaccines.



2. Carol Greider (1961) (15th April)

Born: San Diego, California, United States. Greider shared the Nobel Prize for Physiology or Medicine in 2009 for helping to elucidate the structure of telomeres, a particular region found at the end of a chromosome that prevents the chromosome ends from fraying and sticking to each other, and to identify telomerase, an enzyme that helps replenish telomeres which get shorter every time a cell divides. Such shortening is associated with aging and cancer.

In 1817, Dr. James Parkinson was the first person to discover the first case of Parkinson's Disease. In 1997, European Association for Parkinson's Disease announced that April 11 will be observed as World Parkinson's Day every year. The World Health Organisation also co-sponsored the event.

World Malaria Day is an international observance commemorated every year on 25 April and recognizes global efforts to control malaria. Globally, 3.3 billion people in 106 countries are at risk of malaria

April 17 was decided as the date to observe the health day every year to honour the founder of the organisation Frank Schnabel, who played a significant role in advocating for hemophilia awareness and treatment and dedicated his life towards improving lives of those suffering from the disorder.

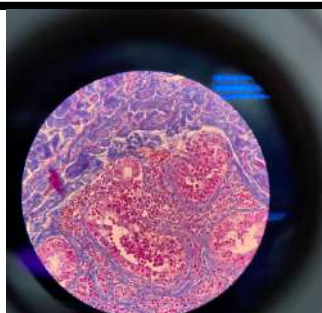
EVENTS IN BIOSCIENCE HISTORY

13 Apr 2017
CRISPR shown to be sensitive diagnostic tool for detecting single target of DNA or RNA molecule

Apr 2017
Researchers at University of Washington-Madison demonstrated the possibility of growing skin, bone marrow and blood vessels using plant scaffolds with stem cells

20 Apr 2017
Diabetes research using transgenic mice shows the protein P2X7R plays important role in inflammation and immune system offering new avenue for treating kidney disease

Year: 2003
Usha Vijayaraghavan
Indian Institute of
Science, Bengaluru



Year: 2000
Madhu Dixit
Central Drug Research
Institute, Lucknow

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

Mapmygenome

Founder & CEO - Anu Acharya

Located in Hyderabad, India, Mapmygenome provides molecular diagnostics services. Based on these services, it provides detailed genetic insights on drug responses, inherited conditions, and diseases.



Oryx Bio-Tech

Chairman - Kazi Shakil

Located in Dhaka, Bangladesh, Oryx Bio-Tech will soon become South Asia's leading integrated human plasma biopharmaceutical group and the largest plasma-derived products manufacturer in Bangladesh. The company's products cover three major categories: albumin, immunoglobulin, and coagulation factors.



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MAY
2025

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8 Thalassemia day	9	10 World asthma day
11	12	13	14	15	16	17
18 AIDS vaccine day	19	20	21	22	23	24
25	26	27	28	29	30	31

*"The greatest enemy of knowledge is not ignorance,
it is the illusion of knowledge."*

- Stephen Hawking



MICROBIOLOGISTS SOCIETY INDIA

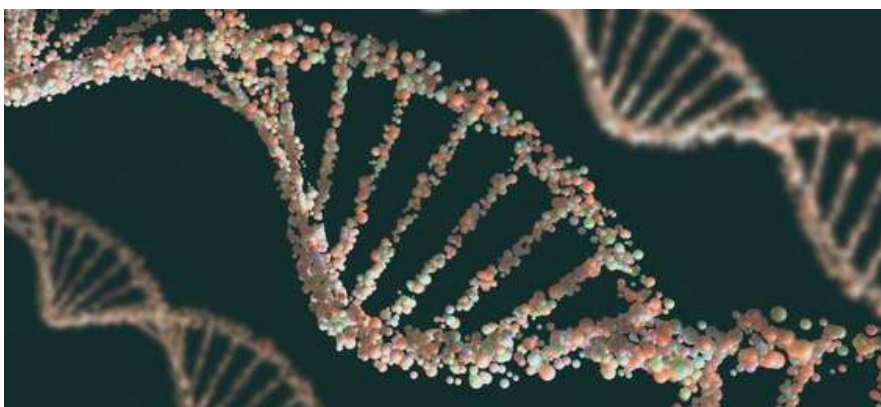
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PIONEERING WOMEN IN SCIENCE

Florence Bell (1913 - 2000)(1st May)

Born: London, United Kingdom. Florence Bell was a physicist who made the very first X-ray studies of DNA, a complex molecule that contains the genetic blue-print for building and maintaining an organism, and showed that this method could be used to reveal its regular, ordered structure. In so doing, Bell laid important foundations for later work by Rosalind Franklin, Maurice Wilkins, James Watson and Francis Crick which culminated in the discovery of DNA's famous double-helix.



World AIDS Vaccine Day, also known as HIV Vaccine Awareness Day, is observed annually on May 18. HIV vaccine advocates mark the day by promoting the continued urgent need for a vaccine to prevent HIV infection and AIDS

World Asthma Day is an annual event organized by the Global Initiative for Asthma to improve asthma awareness and care around the world. World Asthma Day is held on the first Tuesday in May. The theme of 2021's event was "Uncovering Asthma Misconceptions," and for 2022, "Closing Gaps in Asthma Care."

International Thalassaemia Day is a global awareness day, observed annually on May 8, celebrating the thalassaemia community across the world and working towards equity in health, social and other care, as well as access to diagnosis and therapies for people living with the condition

EVENTS IN BIOSCIENCE HISTORY

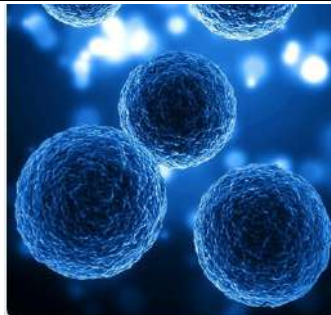
6 May 2024
CRISPR gene therapy reported to be promising treatment for inherited vision loss in phase 1/2 trial

9 May 2024
Gene therapy reported to cure baby born deaf due to rare genetic condition

31 May 2024
NHS patients in UK start to be offered personalised cancer mRNA vaccines in trials under the auspices of the Cancer Vaccine Launch Pad

Year: 2001 Young National Woman Bioscientist Award

Suchitra Banerjee
Central Institute of Medicinal and Aromatic Plants (CIMAP) Lucknow



Year: 2001 Young National Woman Bioscientist Award

Sudha Nair
M. S. Swaminathan Research Foundation (MSSRF) Chennai

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

Celestial Biolabs Limited

COO - Krishna Maringanti,

Managing Director - Aditya Narayan Singh

Located in Andhra Pradesh, India, Celestial Biolabs Limited designs small molecules that help in wound healing, anti-aging,



GANIT Labs

Founder - **Binay Panda**

Located in Karnataka, India, Ganit labs is a genomics lab using genomic sequencing to sequence and interpret data from various organisms. The company is government-funded and a not-profit organization.



MICROBIOLOGISTS SOCIETY INDIA

CONTACT NO. +919822079782 / mbiosociety@gmail.com
<http://microbiosociety.org>

JUNE
2025

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19 World Sickle cell awareness	20	21
22	23	24	25	26	27 World Microbiome Day	28
29	30					

Everything is theoretically impossible, until it is done."

– Robert A. Heinlein.



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PIONEERING WOMEN IN SCIENCE

.Padmanee Sharma (1970)(26 June)

Born: Georgetown, Guyana. Padmanee Sharma is a leading figure in oncology, specialising in renal, bladder and prostate cancer. Her prime focus is to understand the mechanisms and pathways within the immune system responsible for tumour rejection. Since 2005 she has been a principal investigator for several clinical trials launched to improve the efficacy of cancer immunotherapies.



World Sickle Cell Awareness Day is observed on June 19th each year to raise awareness about sickle cell disease (SCD) and its impact on individuals, families and communities worldwide. Sickle cell disease is a genetic blood disorder characterized by abnormal red blood cells that take on a crescent or sickle shape and these irregularly shaped cells can cause blockages in blood vessels, leading to a variety of health complications.

Every year, World Microbiome Day (WMD) falls on June 27th, providing an opportunity for researchers, industry professionals and the public to come together in discussion and debate on the influence of microbes and microbiomes on the health of humans, animals, plants, oceans and the planet.

EVENTS IN BIOSCIENCE HISTORY

14 Jun 1864
Alois Alzheimer was born in Markbreit, Germany

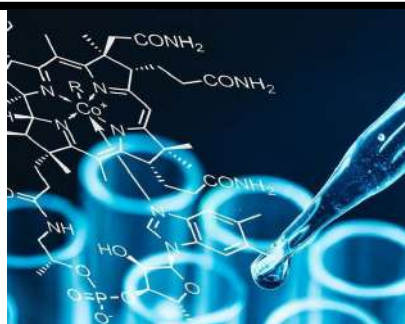
17 Jun 1865
Susan LaFlesche Picotte was born on the Omaha Reservation, USA

1 Jun 2016
Mobile laboratory equipped MinIONS used to sequence and prevent spread of Zika virus in Brazil

2 Jun 2016
Stem cells reported to provide substantial recovery in patients disabled by stroke

Year: 2001

Vibha Dhawan
Tata Energy Research
Institute
Area: Plant
Biotechnology



Year: 2004 Young National
Woman Bioscientist Award

Ruby John Anto
Rajiv Gandhi Centre for
Biotechnology (RGCB)
Thiruvananthapuram

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

Farcast Biosciences

Founders: Mallik Sundaram, Pradip Majumder

CEO- Mohit Malhotra

Located in Karnataka, India, Farcast Biosciences uses its innovative platform to preserve the tumor microenvironment. This enables doctors to evaluate the correct therapy that will be most beneficial to the patient before any treatment begins. a Silicon Valley-based leader and provider of Vendor Agnostic AI-enabled Digital Pathology Platform, and Farcast Bioscience LLC, a Florida based Company. Farcast has developed a unique and differentiated human tumor histoculture platform that can preserve the entire architecture of the human tumor microenvironment. The two companies will work together for the Prospective Evaluation of OrionAI™ – a revolutionary AI-based Diagnostic Assistant for Histological Examination of a variety of solid tumors beginning with Head and Neck Squamous Cell Carcinoma (HNSCC) Cancer. HNSCC is the most prevalent cancer in India and both Companies have decided to enter into a collaboration to tackle a disease that presents a unique healthcare challenge for India. This partnership will help researchers to collaborate, centrally review, facilitate training, image viewing & analysis, and at the same time be used to improve the assessment of standard pathological features.





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JULY
2025

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28 <small>World hepatitis day</small>	29	30			

"Science is organised knowledge. Wisdom is organised life."

Immanuel Kant



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PIONEERING WOMEN IN SCIENCE

.Rosalind Franklin (1920 - 1958)(25 July)

Born: London, United Kingdom. Rosalind Franklin was an x-ray crystallographer whose work helped uncover the double-helix structure of DNA. Known for her contributions to the discovery of the molecular structure of deoxyribonucleic acid (DNA), a constituent of chromosomes that serves to encode genetic information. Franklin also contributed new insight on the structure of viruses, helping to lay the foundation for the field of structural virology.



.Francoise Barre-Sinoussi (1947)(30 July)

Born: Paris, France. Barre-Sinoussi shared the 2008 Nobel Prize in Physiology or Medicine for helping to identify the human immunodeficiency virus (HIV) as the cause of AIDS in 1983. Over the years she has made substantial contributions to understanding the role of innate immune defences in the host in controlling HIV/AIDS and how HIV is transmitted between the mother and child. She has also studied the characteristics that allow some HIV-positive individuals gain resistance to HIV without antiretroviral drugs.



Viral hepatitis is an infection that causes liver inflammation and damage. Several different viruses cause hepatitis, including hepatitis A, B, C, D, and E. The hepatitis A and E viruses typically cause acute infections. The hepatitis B, C, and D viruses can cause acute and chronic infections.

World Hepatitis Day, 28 July, is an opportunity to step up national and international efforts on hepatitis, encourage actions and engagement by individuals, partners and the public and highlight the need for a greater global response as outlined in the WHO's Global hepatitis report of 2017.

The date of 28 July was chosen because it is the birthday of Nobel-prize winning scientist Dr Baruch Blumberg, who discovered hepatitis B virus (HBV) and developed a diagnostic test and vaccine for the virus.

EVENTS IN BIOSCIENCE HISTORY

- Year: 2004 Young National Woman Bioscientist Award
- Tanya Das
- Bose Institute Kolkata



Year: 2004 Senior National Woman Bioscientist Award
Veronica Filomena Rodrigues
Tata Institute of Fundamental Research

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

Dr. Reddy's Laboratories is an Indian multinational pharmaceutical company based in Hyderabad. The company was founded by Kallam Anji Reddy, who previously worked in the mentor institute Indian Drugs and Pharmaceuticals Limited. [2] Dr. Reddy manufactures and markets a wide range of pharmaceuticals in India and overseas. The company produces over 190 medications, 60 active pharmaceutical ingredients (APIs) for drug manufacture, diagnostic kits, critical care, and biotechnology.



Cipla Limited (stylized as Cipla) is an Indian multinational pharmaceutical company headquartered in Mumbai. Cipla primarily focuses on developing medication to treat respiratory disease, cardiovascular disease, arthritis, diabetes, depression, and various other medical conditions. [3] Cipla has 47 manufacturing locations across the world and sells its products in 86 countries. It is the third-largest drug producer in India.

Jul 2019
Seattle Genetics and Astellas Pharma submitted application to FDA for accelerated approval of enfortumab vedotin

30 Jul 2019
World Health Organisation called on countries to ban experiments that would lead to more gene-edited babies

12 Jul 2018
Genetic test shown to accurately predict which women benefit from chemotherapy



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AUGUST 2025

SUN	MON	TUE	WED	THU	FRI	SAT
31					1	2
3	4	5	6	7	8	9
10 World Biofuel Day	11	12	13 National Organ Donation	14	15 Independence day	16
17	18	19	20 World Mosquito Day	21	22	23
24	25	26	27	28	29	30

*There are in fact two things, science and opinion;
the former begets knowledge, the latter ignorance.*

Hippocrates (460-377BC)



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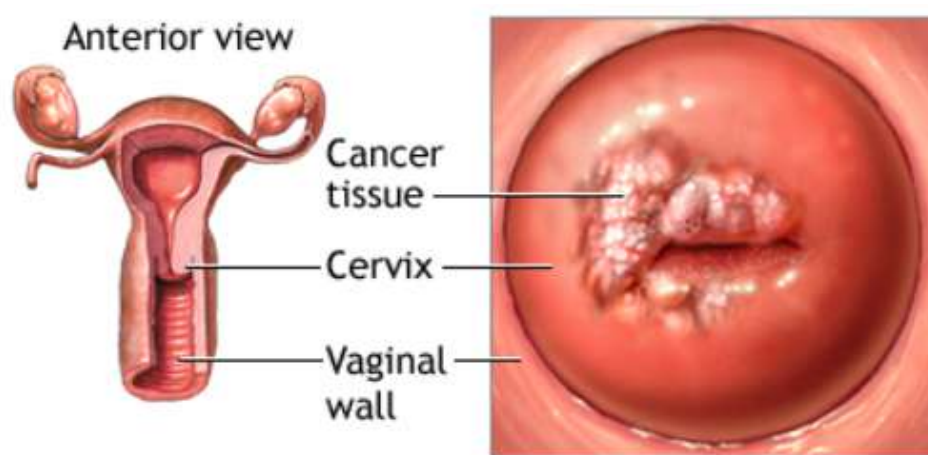
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PIONEERING WOMEN IN SCIENCE

.Rosemary Versteegen (1948)(22nd August)

Born: Glasgow, Scotland. Rosemary J Versteegen worked for over twenty years with Life Technologies Inc, which in the 1990s was one of largest suppliers of culture cell products and other scientific reagents to the biotechnology industry. She was pivotal to the company's success in winning FDA approval for the first diagnostic test using synthetic nucleic acid probes for detecting infection with the human papillomavirus, one of the most common causes of cervical cancer.



National Organ Donation Day in India is celebrated on August 3rd to commemorate the first successful deceased donor heart transplant in India on August 3, 1994. Before 2023, the day was celebrated on November 27th.

World Mosquito Day, observed annually on 20 August, is a commemoration of British doctor Sir Ronald Ross's discovery in 1897 that female anopheline mosquitoes transmit malaria between humans.

World Biofuel Day is celebrated on August 10 every year to highlight the importance of biofuels as a sustainable energy source and an alternative to fossil fuels. It also recognizes the research of German inventor Sir Rudolf Diesel, who ran an engine on peanut oil in 1893. Diesel's experiments predicted that vegetable oil would replace fossil fuels in the future

EVENTS IN BIOSCIENCE HISTORY

Year: 2003 Senior
National Woman
Bioscientist Award
M. S. Shaila
Indian Institute of
Science (IISc) Bengaluru



Year: 2003 Young
National Woman
Bioscientist Award
Rukhsana Chowdhury
Indian Institute of
Chemical Biology (IICB)
Kolkata

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

Shantha Biotechnics Limited is an Indian biotechnology company headquartered in Hyderabad, India. It is the first Indian company to develop, manufacture and market recombinant human healthcare products in India. The company is a wholly owned subsidiary of Sanofi group. Shantha Biotechnics caters to major international markets including Asia-Pacific, Africa, Commonwealth of Independent States, and Latin America in addition to international organisations UNICEF and PAHO.



Wockhardt is an Indian pharmaceutical and biotechnology company headquartered in Mumbai, India. It produces formulations, biopharmaceuticals, nutrition products, vaccines and active pharmaceutical ingredients (APIs).[4] The company has manufacturing plants in India, UK, Ireland, France and US, and subsidiaries in US, UK, Ireland and France.[5][6]

14 Aug 2018
FDA approved first-ever drug
based on RNAi

27 Aug 2018
First CRISPR-Cas9 clinical trial
launched

2 Aug 2017
Research published demonstrating
possibility of editing gene defect in
pre-implanted human embryos for
preventing inherited heart disease

18 Aug 2017
Three-tissue organ-on-a-chip
platform created to assess drug
response



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SEPTEMBER
2025

SUN	MON	TUE	WED	THU	FRI	SAT
	1 National Nutrition Week	2	3	4 National Wildlife Day	5	6
7	8	9	10	11	12	13
14	15	16 World Ozone Day	17 Intl. Microorganism	18	19	20
21	22	23	24	25	26	27
28 World Rabies Day	29 World Heart Day	30				

No one should approach the temple of science with the soul of a money changer.

Thomas Browne (1605-82)



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PIONEERING WOMEN IN SCIENCE

Mary Jane Osborn (September 24, 1927 – January 17, 2019)

was an American biochemist and microbiologist known for her research on the biosynthesis of lipopolysaccharide (bacterial endotoxin), a key component of the outer membrane of Gram-negative bacteria, and discovering the mechanism of action of the anti-cancer drug methotrexate.[2] She headed the Department of Molecular Biology and Biophysics at the University of Connecticut Health Center and served as president of the American Society for Biochemistry and Molecular Biology.

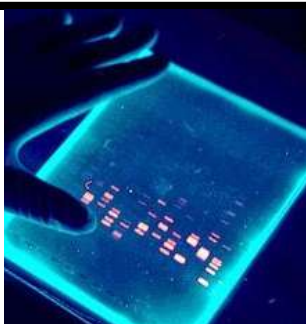


Rabies is a vaccine-preventable, zoonotic, viral disease affecting the central nervous system. In up to 99% of the human rabies cases, dogs are responsible for virus transmission. Children between the age of 5 and 14 years are frequent victims. Rabies infects mammals, including dogs, cats, livestock and wildlife.

World Rabies Day is the biggest event on the global rabies calendar, coordinated by GARC and it has been commemorated every year on September 28 – the anniversary of the death of Louis Pasteur – since 2007. World Rabies Day aims to raise awareness and advocate for rabies elimination globally. It is an event designed to be inclusive, uniting people, organizations, and stakeholders across all sectors against rabies – because together we can eliminate rabies

EVENTS IN BIOSCIENCE HISTORY

Year: 2008 Young National
Woman Bioscientist Award
Sharmila A. Bapat
Research Scientist
National Centre for Cell
Science (NCCS) Pune



Year: 2008 Young National
Woman Bioscientist Award
Shubha Tole
Tata Institute of
Fundamental Research
(TIFR) Mumbai

10 Sep 2019

Four-organ-chip created
integrating miniaturised human
intestine, liver, brain and kidney
equivalents

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

Sea6 Energy

Founders: Sri Sailaja Nori, Nelson Vadassery

Located in Karnataka, India, Sea6 Energy's focus is to produce ethanol from seaweed and convert it into biofuel, plant growth stimulants, animal feed ingredients and other renewable resources. This helps to solve problems associated with feedstock like land use, freshwater requirements, and opportunity costs.



Sep 2017

DNA of human embryos edited
using CRISPR-Cas9 to study
cause of infertility

20 Sep 2017

Combination of three monoclonal
antibodies reported to protect
monkeys from HIV



Jubilant Pharmova

Chairman: Shyam S Bhartia

Chief Financial Officer - Shyam Pattabiraman

Located in Uttar Pradesh, India, Jubilant Pharmova is a biopharma company that serves three different markets: Novel drugs, Contract research, and Pharmaceuticals. The novel drugs are used in the oncology and auto-immune disorder areas, and they provide innovative research through their contract research centers in Bengaluru and Noida. The company also is manufacturing and distributing radiopharmaceuticals for the pharma market.



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OCTOBER
2025

SUN	MON	TUE	WED	THU	FRI	SAT
			1 Voluntary Blood Donation Day	2	3	4
5	6	7	8	9	10	11
12	13 Natural Disaster Reduction Day	14	15	16	17	18
19	20	21	22	23	24 United Nations day	25
26	27	28	29	30	31	

*The greatest glory in living lies not in never falling,
but in rising every time we fall."*

- Nelson Mandela



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PIONEERING WOMEN IN SCIENCE

June Almeida (1930 - 2007) (5th October)

Born: Glasgow. Almeida has recently attracted a great deal of media attention in the midst of the COVID-19 crisis as the person responsible for the first visualisation of a human coronavirus. Almeida's pioneering advances in immune electron microscopy put her at the forefront of many key breakthroughs in virology in the 1960s and 1970s



Christiane Nusslein-Volhard (1942)(20 october)

Born: Magdeburg, Germany. Christiane Nüsslein-Volhard won the Nobel Prize in 1995, the sixth woman to do so. She was awarded the Prize on the basis of her groundbreaking research that showed how genes regulate the early development of fruit fly embryos. Her discoveries helped create the new discipline of developmental genetics and laid the foundation for understanding genetic defects in human embryos.

India celebrates National Voluntary Blood Donation Day on October 1st every year to encourage people to donate blood. The Indian Society of Blood Transfusion and Immunohaematology started the day in 1975.

The World Health Organization (WHO) celebrates World Blood Donor Day on June 14th every year to honor people who donate blood voluntarily and unpaid. The day is celebrated on the birthday anniversary of Karl Landsteiner, who discovered the ABO blood group system

International Day for Disaster Risk Reduction is an international day that encourages every citizen and government to take part in building more disaster-resilient communities and nations.

EVENTS IN BIOSCIENCE HISTORY

Year: 2007 Innovative Young Biotechnologist Award
Ellora Sen
National Brain Research Centre, Manesar
Area: Glioblastoma



Year: 2007 Young National Woman Bioscientist Award
Sujata Sharma
Assistant Professor
All India Institute of Medical Sciences (AIIMS) New Delhi

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

Bugworks Research

Co-founder and CEO - Anand Anandkumar

Located in Karnataka, India, Bugworks Research develops novel antibiotic drugs to tackle problems associated with AMR (Antimicrobial Resistance). The company is also building small molecules against solid tumors which can be used as both stand-alone and combined therapeutics.



Pandorum Technologies

Founders - Tuhin Bhowmick, Arun Chandru

Located in Karnataka, India, Pandorum Technologies is creating functional human tissues that can be used for medical research. Using 3D printing technology, the company is working on creating human liver tissue that can act as a replacement during liver transplantation or failures.

21 Oct 2019
New DNA editing technique called 'prime editing' published

Oct 2019
NHS introduced new fast-track DNA test to scan for rare diseases in babies and children

10 Oct 2017
Chip created to mimic orthotopic lung cancer growth

4 Oct 2017
Gene therapy shown in clinical trials to halt progression of adrenoleukodystrophy, a fatal brain disease inherited by boys



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NOVEMBER
2025

SUN	MON	TUE	WED	THU	FRI	SAT
30						1
2	3	4	5	6	7	8
9	10	11	12 <small>World Pneumonia Day</small>	13 <small>Anti body awareness week</small>	14 <small>World diabetes day</small>	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

*Science knows no country, because knowledge belongs to humanity
, and is the torch which illuminates the world.*

- Louis Pasteur



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PIONEERING WOMEN IN SCIENCE

Sally Davies (1949)(24th November)

Born: Birmingham, United Kingdom. Sally Davies was named the sixth most powerful woman in the UK by Woman's Hour, a BBC radio programme, in 2013. She is the first woman to hold the post of Chief Medical Officer for England. In 2006 she set up the National Institute for Health Research, a body that has revolutionised the approach to clinical and applied research in the UK. She is also at the forefront of spearheading efforts to combat antimicrobial resistance around the world.



Elizabeth Blackburn (1948) (26 November)

Born: Hobart, Tasmania, Australia. Blackburn is a molecular biologist who was awarded the Nobel Prize in Physiology or Medicine in 2009. She is best known for having discovered a particular repetitive sequence of DNA on the telomere, a particular region found at the end of a chromosome that prevents the chromosome ends from fraying and sticking to each other.

World Pneumonia Day provides an annual forum for the world in the fight against pneumonia. More than 100 organizations representing the interests of children joined forces as the Global Coalition against Child Pneumonia to hold the first World Pneumonia Day on 12 November 2009

World Diabetes Day is the primary global awareness campaign focusing on diabetes mellitus and is held on 14 November each year. WDD is led by the International Diabetes Federation and each World Diabetes Day focuses on a theme related to diabetes.

EVENTS IN BIOSCIENCE HISTORY

3 Nov 2023

Inhaled monoclonal antibodies shown to be protective against COVID-19 in non-human primates

3 Nov 2017

First patient treated in first clinical trial using monoclonal antibody drug to treat schizophrenia

2 Nov 2017

Experiments with mice show tumour growth can be reduced by giving faecal transplants from patients who positively responded to cancer immunotherapy

Year: 2007 Young
National Woman
Bioscientist Award
Sangita Mukhopadhyay
Staff Scientist - IV
Centre for DNA
Fingerprinting and
Diagnostics (CDFD)



Year: 2008 Young
National Woman
Bioscientist Award
Sharmila A. Bapat
Research Scientist
National Centre for Cell
Science (NCCS) Pune

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

TSRL was the brainchild of Mr. S.K. Agarwal - Chairman. He founded SRL along with his brothers, when the government called upon them to manufacture Indian-made biochemicals to replace expensive US & European imports at the time. The first list of offerings consisted of only 200 specialty biochemicals but the drastic difference in costs enabled the cash-crunched Indian research scientist to do much more with their post-doctoral research projects. The company has completed four decades of excellence in manufacturing highly complex and international quality of reagents and biochemicals and offer SRL has 3 State-of-Art-production facilities located in Mumbai and Chennai, to serve & manufacture 8000 products with 20,000 SKUs.

To provide the best quality Laboratory Reagents & biochemicals, Microbiological culture media & Biolit range of proteins & DNA tools we have instituted a quality management system conforming to ISO 9001:2015, ISO 17025:2017, FDA, cGMP & CE.

We always maintain and upgrade our products & services to meet the highest international quality standards





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DECEMBER 2025

SUN	MON	TUE	WED	THU	FRI	SAT
	1 World AIDs Day	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27 Dr.panjabrao Deshmukh jayanti
28	29	30	31			

The greatest discoveries often lie not in finding new things, but in seeing familiar things in new ways.

- Alexander Fleming



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PIONEERING WOMEN IN SCIENCE

1. Esther Lederberg (1922 - 2006) (18 December)

Born: Bronx, New York, United States. Esther Lederberg was a major pioneer of bacterial genetics. She discovered the lambda phage, a bacterial virus which is widely used as a tool to study gene regulation and genetic recombination. She also invented the replica plating technique, which is used to isolate and analyse bacterial mutants and track antibiotic resistance.



Panjabrao, alias Bhausaheb

Deshumkh was born at village Papad in the district of Amravati on December 27, 1898. By the time he passed away on April 10, 1965, he had laid a firm foundation for the dissemination of education among the downtrodden and the dispossessed of the region.

He knew that prosperity would come only when the weapon of knowledge became available to all. For this purpose he made a small beginning with the establishment of the Shri Shivaji Education Society at Amravati in 1932.

The Society began with just one school and one hostel; but today it has grown into the biggest educational organization in Central India

EVENTS IN BIOSCIENCE HISTORY

December 29

International Day for Biological
Diversity

19 Dec

probed how organisms keep time,
and refined theories about
consciousness and emotional health.

31 december

National Children's Science Congress

21 Dec 2016

Arrowhead Pharmaceuticals shares
fell following hold on clinical trials
with RNAi drug to treat hepatitis B

Year: 2004
Geeta Kashyap
Vemuganti
L. V. Prasad Eye
Institute, Hyderabad



Year: 2007 Innovative
Young Biotechnologist
Award
Firdous A. Khanday
University of Kashmir,
Srinagar
Area: Cancer

TRAILBLAZING INDUSTRIAL BIOTECHNOLOGY IN INDIA

to **Bio Tech** Lucknow, India's premier research center dedicated to pioneering advancements in biotechnology. As the nation's number one research hub, we are at the forefront of innovative scientific research, driving breakthroughs that shape the future of healthcare, agriculture, and environmental sustainability. Our state-of-the-art facilities and world-class laboratories are staffed by a team of distinguished scientists and researchers committed to excellence. At Bio Tech Lucknow, we focus on cutting-edge research in genomics, bioinformatics, and molecular biology, striving to translate scientific discoveries into practical solutions that benefit society. We pride ourselves on fostering a collaborative environment that encourages creativity and innovation. Our partnerships with leading academic institutions, industry leaders, and government agencies enable us to stay ahead in the rapidly evolving field of biotechnology. Join us in our mission to push the boundaries of science and improve the quality of life through groundbreaking research and sustainable technological advancements.



Prepared by : department of Biotechnology, Shri Shivaji Education Society, Amravati's
Science College, Nagpur/ <https://sscnagpur.ac.in>