



# MICROBIOLOGISTS SOCIETY, INDIA



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01

JANUARY

2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
🍰 1	🕒 2	3	4	5 National Bird Day	🍰 6	7
🍰 8	🍰 9	🕒 10	🍰 11	12 National Youth Day	🍰 13	14
15	🍰 16	🕒 17	18	19	20	21
22	23	🕒 24	🕒 25 National Polio Day	🕒 26 Republic Day	27	🍰 28
🍰 29 World Leprosy Day	🍰 30	31 World Zebra Day				

Scan QR Code For Marked Contributions Of Scientists

🍰 Birth Anniversaries



Raghunath Mashelkar (1<sup>st</sup> Jan. 1943)



John Smith (6<sup>th</sup> Jan., 1920)



Alfred Wallace (8<sup>th</sup> Jan., 1823)



Har Gobind Khurana (9<sup>th</sup> Jan. 1922)



Joseph Arthur (11<sup>th</sup> Jan. 1850)



Lazzaro Spallanzani (12<sup>th</sup> Jan., 1729)

🕒 Death Anniversaries



Martinus Beijerinck (1<sup>st</sup> Jan., 1931)



Maclyn McCarty (2<sup>nd</sup> Jan., 2005)



Gregor Mendel (6<sup>th</sup> Jan., 1822)



Carl Linnaeus (10<sup>th</sup> Jan. 1778)



Alexander R Todd (10<sup>th</sup> Jan. 1997)



Gail Borden (11<sup>th</sup> Jan. 1874)

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## Birth Anniversaries

 Paul H. Muller (12 <sup>th</sup> Jan., 1899)	 Ross Harrison (15 <sup>th</sup> Jan., 1870)	 Leonor Michaelis (16 <sup>th</sup> Jan., 1875)
 Theodosius Dobzhansky (25 <sup>th</sup> Jan., 1900)	 Robert Holley (28 <sup>th</sup> Jan., 1922)	 Hwang Woo-suk (29 <sup>th</sup> Jan., 1943)

## Death Anniversaries

 Friedrich Weismann (17 <sup>th</sup> Jan., 1834)	 Albert Israel Schatz (17 <sup>th</sup> Jan., 2005)	 Homi Bhabha (24 <sup>th</sup> Jan., 1966)
 Max Theiler (30 <sup>th</sup> Jan., 1912)	 Kiyoshi Shiga (25 <sup>th</sup> Jan., 1871)	 Nikolai Vavilov (26 <sup>th</sup> Jan., 1943)

## Streams of Biotechnology



Red Biotechnology



Green Biotechnology



White Biotechnology



Yellow Biotechnology



Brown Biotechnology



Gold Biotechnology



Blue Biotechnology



Violet Biotechnology



Gray Biotechnology



Dark Biotechnology

### Red Biotechnology

It is the health branch, according to the Biotechnology Innovation Organization (BIO), for the development of more than 250 vaccines and medications such as antibiotics, regenerative therapies and the production of artificial organs.

### Green Biotechnology

It is used by more than 13 million farmers worldwide to fight pests and nourish crops and strengthen them against pathogenic microorganisms and extreme weather events, such as drought and frost. Example, designing of transgenic plants that are modified for improved flavor, for increased resistance to pests and diseases.

### White Biotechnology

The works to improve manufacturing processes, the development of biofuels and other technologies to make industry more efficient and sustainable. Example, Bioremediation by microbes to clean up toxic industrial waste in environment, such as PCBs.

### Yellow Biotechnology

This branch is focused on food production, for example, it carries out research to reduce the levels of saturated fats in cooking oils. It's a modern agriculture branch related to food production where active genes in insects are used for application in agriculture and medicine.

### Brown Biotechnology

It is related to the management of arid lands and deserts. One application is the creation of enhanced seeds that resist extreme environmental conditions of arid regions, which is related to the innovation, creation of agricultural technology and management of resources.

### Gold Biotechnology

Also known as bioinformatics. It is responsible for obtaining, storing, analyzing and separating biological information, especially that related to DNA and amino acid sequences.

### Blue Biotechnology

It is aquatic use of biological technology. This exploits marine resources to obtain aquaculture, cosmetics and health care products. It is widely used to obtain biofuels from certain microalgae.

### Dark Biotechnology

It is associated with bioterrorism or biological weapons and biowarfare, which uses microorganisms, and toxins to cause diseases and death in humans, livestock and crops.

### Violet Biotechnology

It is the legal branch that encompasses patents, publications, and intellectual property.

### Gray Biotechnology

Its purpose is conservation and restoration of contaminated natural ecosystems as bioremediation.

Days	Objectives of Celebrating Different Days
National Bird Day	To appreciate the birds activities contributing to a stable ecosystem
National Youth Day	To imbibe the youth especially students with Swami Vivekananda's philosophy and ideals
World Leprosy Day	To raise awareness of the disease, to end leprosy-related stigma and discrimination
World Zebra Day	To raise conservation efforts for these amazing, yet endangered animals like zebra



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02

FEBRUARY

2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2 World Wetlands Day	3	4 World Cancer Day
5	6	7	8	9	10 National Deworming Day	11
12	13	14	15 World Hippopotamus Day	16 World Pulses Day	17	18 World Pangolin Day
19 World Whale Day	20	21	22	23	24	25
26	27 World NGO Day	28 National Science Day				

### Scan QR Code For Marked Contributions Of Scientists

#### Birth Anniversaries

 Charles Leblond (5 <sup>th</sup> Feb., 1910)	 Jacques Monod (9 <sup>th</sup> Feb., 1910)	 Ira Remsen (10 <sup>th</sup> Feb., 1846)
 Jan Swammerdam (12 <sup>th</sup> Feb., 1637)	 Hugo M. Vries (16 <sup>th</sup> Feb., 1848)	 Karl E. Baer (28 <sup>th</sup> Feb., 1729)

#### Death Anniversaries

 Salvador E. Luria (6 <sup>th</sup> Feb., 1991)	 Max F. Perutz (6 <sup>th</sup> Feb., 2002)	 Howard Temin (9 <sup>th</sup> Feb., 1994)
 Robert Holley (11 <sup>th</sup> Feb., 1990)	 Lazzaro Spallanzani (11 <sup>th</sup> Feb., 1799)	 Julian Huxley (14 <sup>th</sup> Feb., 1975)

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Waste  
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**Work Place Environment / Indoor Air, Noise Monitoring**  
**Water, Packaged Drinking Water**  
**Food & Agri Products**  
Bakery & Confectionery Products  
Beverages (Alcoholic / Non Alcoholic)  
Canned & Processed Food  
Cereals, Pulses & Cereal Products  
Coffee & Cocoa Products  
Edible Colors & Flavors

- Edible Oils & fats  
Food Additives & Preservatives  
Fruits & Fruit Products  
Herbs, Spices & Condiments / Edible Salt  
Honey & Honey Products  
Jams, Juices, Sauces & concentrates  
Meat, Meat Product / Poultry & Poultry Products  
Milk & Milk Products  
Nut & Nut Products  
Oil Seeds & byproducts  
Starch & Starch Products  
Sugar & Sugar Products  
Tea & Products  
Vegetable & Vegetable Products  
**Animal Feed, Compounded Feed, Dairy Feed, Poultry Feed, Pet Food**

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02

FEBRUARY

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## Birth Anniversaries

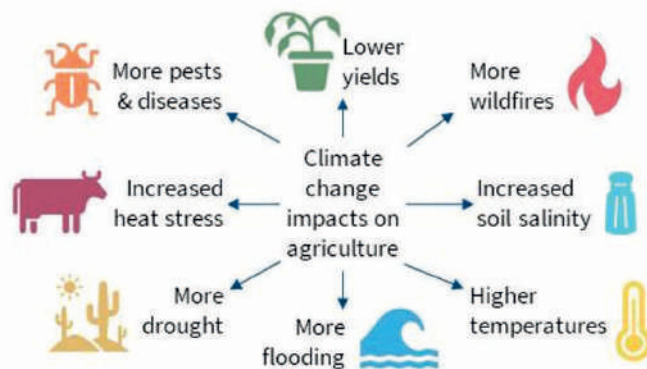
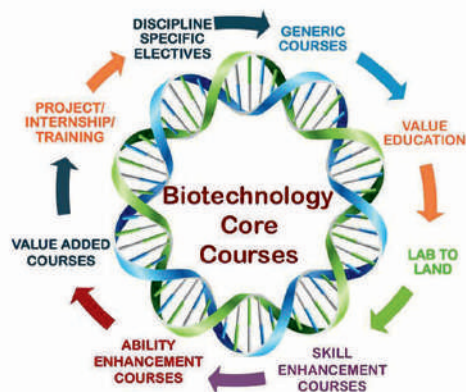
 Richard Hunt (19 <sup>th</sup> Feb., 1943)	 Roderick Kinnon (19 <sup>th</sup> Feb., 1956)	 Carl H. Dam (21 <sup>st</sup> Feb., 1895)
 Charles Best (27 <sup>th</sup> Feb., 1899)	 Peter Medawar (28 <sup>th</sup> Feb., 1915)	

## Death Anniversaries

 Andrea Cesalpio (23 <sup>rd</sup> Feb., 1603)	 Sergei Winogradsky (25 <sup>th</sup> Feb., 1953)	 Theodor Svedberg (25 <sup>th</sup> Feb., 1971)
 Charles Nicolle (28 <sup>th</sup> Feb., 1936)		

## The Evolution of Biotechnology Over The Last Century

<b>1919</b> Hungarian agronomist Karl Ereky coined the term biotechnology	<b>1928</b> Scottish bacteriologist Alexander Fleming discovered the antibiotic penicillin	<b>1943</b> Canadian Scientist Oswald Theodore Avery discovered that DNA is the carrier of genetic material	<b>1953</b> Biologists James Watson and Francis Crick described the double helix of DNA	<b>1969</b> An enzyme is synthesized in vitro for the first time in history	<b>1983</b> The first genetically modified (transgenic) plant was presented
<b>1997</b> Scientists introduced the world to Dolly the sheep, the first clone of a mammal	<b>1998</b> A draft of the human genome map was created that locates more than 30,000 genes	<b>2010</b> A group of researchers from the J. Craig Venter Institute created the first synthetic cell	<b>2013</b> The first bionic eye was produced in the US giving hope to blind people worldwide	<b>2020</b> Biotechnology innovations lead the fight against the SARS-CoV-2 pandemic	Preparing for future Products of Biotechnology



Days	Objectives of Celebrating Different Days
World Wetlands Day	To raise global awareness about the vital role of wetlands for people and planet
World Cancer Day	To impart awareness about various cancers and their treatment
National Deworming Day	To raise awareness on intestinal worms and to attain complete eradication of soil-transmitted Helminths in children
World Hippopotamus Day	To encourages people to take action to prevent its extinction
World Pulses Day	To heighten public awareness of the nutritional benefits of eating pulses
World Pangolin Day	To raise awareness to the fight against the global capturing
World NGO Day	Encourage people across the world who work in the sector for a good cause
National Science Day	To mark the discovery of the Raman effect by Indian physicist Sir C. V. Raman



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03		MARCH					2023	
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
(2 <sup>nd</sup> Thursday) World Kidney Day	(2 <sup>nd</sup> Wednesday) No Smoking Day	(3 <sup>rd</sup> Wednesday) Manatee Appreciation Day	1-7 Tetanus Awareness Week 1	2	World Wildlife Day 3	4		
5	6	7	8	Solar Appreciation Day 9	10	11		
12	13	International Day of Actions for Rivers 14	Buzzards Day 15	National Vaccination Day 16	17	18 Global Recycle Day		
Taxonomist Appreciation Day 19	World Sparrow Day 20	World Planting Day World Forests Day 21	World Water Day 22	Meteorological Day 23	World TB Day 24	25		
26	27	National Triglycerides Day 28	29	30	31			

### Scan QR Code For Marked Contributions Of Scientists

#### Birth Anniversaries

Archer Martin (1 <sup>st</sup> Mar., 1910)		William C. Boyd (4 <sup>th</sup> Mar., 1903)		David Baltimore (7 <sup>th</sup> Mar., 1938)	
Paul Ehrlich (14 <sup>th</sup> Mar., 1854)		Martinus Beijerinck (16 <sup>th</sup> Mar., 1851)		David Peakall (17 <sup>th</sup> Mar., 1931)	

#### Death Anniversaries

William Perkin (12 <sup>th</sup> Mar., 1838)		Georges Kohler (1 <sup>st</sup> Mar., 1995)		Robert Hooke (3 <sup>rd</sup> Mar., 1703)	
Walter Gilbert (21 <sup>st</sup> Mar., 1932)		Albert Sabin (3 <sup>rd</sup> Mar., 1703)		Alexander Fleming (11 <sup>th</sup> Mar., 1955)	

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03

MARCH

2023

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## Birth Anniversaries



Richard Hunt (19<sup>th</sup> Feb., 1943)



Roderick Kinnon (19<sup>th</sup> Feb., 1956)



Carl H. Dam (21<sup>st</sup> Feb., 1895)



Andrea Cesalpino (23<sup>rd</sup> Feb., 1603)



## Multi coloured Biotechnology

Biotechnology is often interdisciplinary, and so many applications may be classified in more than one color category. Example, production of biodiesel from agricultural or waste material.

## Applications of Biotechnology in Environment



### Biotechnology

Biotechnology can be used to tackle environmental issues like deforestation and air pollution

It can help in finding out the level of minute particulate matter in the air. It is already providing a clean and renewable alternative to traditional fossil fuels, the burning of which contributes to global warming.

It helps us to avoid the use of hazardous pollutants and wastes that affect the natural resources and the environment.



### BIOMARKERS

### Biomarkers

It can be used to estimate prior exposure, to identify changes and effects occurring within an organism, and to assess underlying susceptibility of an organism.

It is a useful tool for understanding the nature and extent of human exposure and risk from environmental toxicants.

It is known to be a growing development in human and environmental bio monitoring representing a valuable tool for early pollutant exposure detection.



### Biofuels

The emission of greenhouse gases (GHGs) by fossil fuels leads to the global warming. So, there is great demand for some renewable source of energy which should be cost-effective and environmental friendly in nature.

A biofuel is a great alternative for fossil fuels for example bio ethanol and biodiesel, generation of electricity using methane derived from landfills, production of heat using biogas, industrial use to run machines using biodiesel.



### Bioremediation

Bioremediation broadly refers to any process wherein a biological system, living or dead, is employed for removing environmental pollutants from air, water, soil, industrial effluents etc.

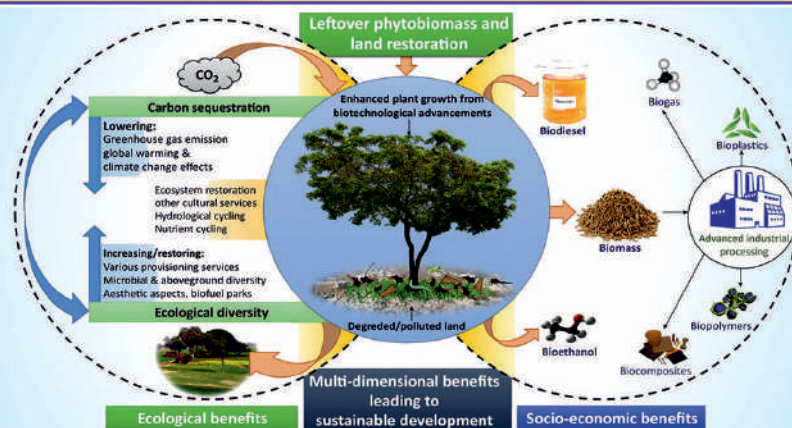
Examples of Bioremediation tech.: Bioventing, Land farming, Bioreactor, Composting, Bioaugmentation, Rhizofiltration, and Biostimulation



### Biosensor

Biosensors, which combine a biological component (such as an enzyme) with various electronic components to trigger a circuit when a particular type of chemical is detected.

Biosensors are capable of detecting extremely low levels of proteins, hormones, pollutants, gases, and other molecules.



Special Days	Objectives of Celebrating Different Days
World Wildlife Day	To celebrate the many beautiful and varied forms of wild fauna and flora and to raise awareness of the multitude of benefits that their conservation provides to people
Solar Appreciation Day	To raise awareness on the value of solar energy, celebrating both sustainability & energy independence on a global scale
Int. Day of Actions for Rivers	To raise awareness about the value and importance of rivers
National Vaccination Day	To acknowledge and appreciate the hard work of front line health care workers to ensure the vaccination of every individual
Global Recycle Day	To recognize the importance of recycling as a powerful resource
Taxonomist Appreciation Day	To appreciate taxonomists and systematists for their work
World Planting Day	It has to be a combined mission of all mankind to plant more trees in order to save our ailing planet
World Forests Day	To celebrate and raise awareness of the importance of all types of forests
World Water Day	To raise the awareness of important about water to mankind
Meteorological Day	To understand weather forecasting system
National Triglycerides Day	The observance serves as a reminder to patients and practitioners to know about the hidden risks of triglycerides



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04 APRIL 2023						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	Parkinson's Awareness Month					1
2	3	4	5	6	7 World Health Day	8 Zoo Lovers Day
9	10 World Homeopathy Day	11 World Parkinson's Day	12	13	14 Int. Bat Appreciation Day	15
16	17 World Haemophilia Day	18 World Heritage Day	19 World Liver Day	20	21	22 National Earth Day
23	24	25 World Malaria Day	26	27 World Tapir Day	28 National Arbor Day	29 World Immunology Day

### Scan QR Code For Marked Contributions Of Scientists

#### Birth Anniversaries

Samuel Prescott (4 <sup>th</sup> Apr., 1872)		Feoder Lynen (6 <sup>th</sup> Apr., 1911)		Edmond Fischer (6 <sup>th</sup> Apr., 1920)	
James Watson (6 <sup>th</sup> Apr., 1928)		Melvin Calvin (8 <sup>th</sup> Apr., 1911)		Charles Woodworth (28 <sup>th</sup> Apr., 1856)	

#### Death Anniversaries

Fredrick Ostwald (4 <sup>th</sup> Apr., 1932)		William Crookes (4 <sup>th</sup> Apr., 1919)		Hermann Muller (5 <sup>th</sup> Apr., 1967)	
Alfred Sturtevant (5 <sup>th</sup> Apr., 1970)		Eugene Gabritschvsky (5 <sup>th</sup> Apr., 1979)		Jules Bordet (6 <sup>th</sup> Apr., 1961)	

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04

APRIL

2023

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### Birth Anniversaries

 Marshal Nirenberg (10 <sup>th</sup> Apr., 1927)	 Robert Woodward (10 <sup>th</sup> Apr., 1927)	 Michael Brow (13 <sup>th</sup> Apr., 1941)
 Francis Collins (14 <sup>th</sup> Apr., 1950)	 Joseph Goldstein (18 <sup>th</sup> Apr., 1940)	 Edmund Ford (23 <sup>rd</sup> Apr., 1901)
 Roger Kornberg (24 <sup>th</sup> Apr., 1947)	 Michael Smith (26 <sup>th</sup> Apr., 1932)	

### Death Anniversaries

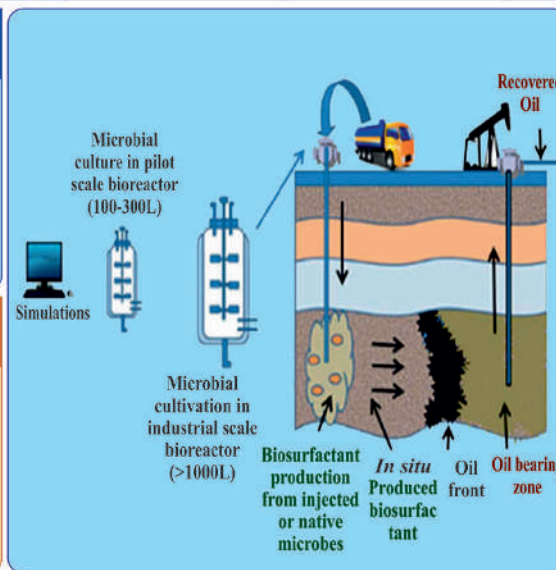
 Daniel Bovet (8 <sup>th</sup> Apr., 1992)	 Thomas Brock (4 <sup>th</sup> Apr., 2021)	 Heinz Conrat (10 <sup>th</sup> Apr., 1999)
 Percy Julian (19 <sup>th</sup> Apr., 1975)	 George Wald (12 <sup>th</sup> Apr., 1997)	 Rosalind Franklin (16 <sup>th</sup> Apr., 1958)
 Charles Darwin (19 <sup>th</sup> Apr., 1882)	 Thomas Burrill (14 <sup>th</sup> Apr., 1916)	

### Enhanced Biological Phosphorous Removal (EBPR)

EBPR is a technologically advanced process of treating sewage in small-scale or domestic wastewater. It is cost-effective and highly sustainable since need to obtain the phosphorous accumulating organisms (PAO).

### Phytoremediation

It is immediate & most effective soil remediation method. The different forms are phytoextraction, phytodegradation, phytotransformation, phytostabilization and phytovolatilization.



### Microbial Enhanced Oil Recovery (MEOR)

Technological advancement has allowed to apply different molecular approaches to encourage hydrocarbon utilization in oil wells. In MEOR, scientists cultivate hydrocarbon-consuming bacteria that remove pollutants from wells underground, therefore, cleaning the soil which promotes bioremediation.

### Creative Management Of Chromium Phytotoxicity

The ameliorative approach is the main process of reducing the chromium released in industrial waste and to the environment. EBT created strategies to prevent these phytotoxic effects.

Special Days	Objectives of Celebrating Different Days
World Health Day	It draws attention to specific health topics of concern to people all over the world
Zoo Lovers Day	It encourages us to explore our zoos and brings all the zoo animal enthusiasts together
World Homeopathy Day	To pay tribute to homeopathy and its contribution to the world of medicine
World Parkinson's Day	To spread awareness about Parkinson's disease and its prevention
Int. Bat Appreciation Day	To focus on protecting all the different species of bats
World Haemophilia Day	To increase awareness about Haemophilia and other inherited bleeding disorders
World Heritage Day	To promote awareness about the cultural heritage and diversity on the planet
World Liver Day	To raise awareness about liver diseases across the world
National Earth Day	To learn about the world's largest environmental movement and what you can do to make every day Earth Day
World Malaria Day	To bring global attention and encourage action to reduce suffering and death from malarial disease
World Tapir Day	To protect all the members of this endangered species from extinction
National Arbor Day	To increase awareness about trees and the vital role they have on our climate
World Immunology Day	To increase global awareness of immunology and its effect on overall well-being







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05 MAY 2023						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4 Greenery Day	5	6
7	8 World Thalassaemia Day	9	10	11	12 World CFS Awareness Day	13
14	15	16 Anti Dengue Day	17	18 World AIDS Vaccine Day	19	20
21	22 Intr. Biodiversity Day	23	24	25	26	27
28 Intr. Woemn Health Day	29	30 World Sclerosis Day	31 World No-Tobacco Day	(1 <sup>st</sup> Tuesday) World Asthma Day	(1 <sup>st</sup> Saturday) Green Up Day	

### Scan QR Code For Marked Contributions Of Scientists

#### Birth Anniversaries

Sidney Altranan (7 <sup>th</sup> May, 1939)		Andrew Lwoff (8 <sup>th</sup> May, 1902)		Howard Horvitz (8 <sup>th</sup> May, 1947)	
Dorothy Hodgkin (12 <sup>th</sup> May, 1910)		Ilya Mchnikov (15 <sup>th</sup> May, 1845)		Edward Jenner (17 <sup>th</sup> May, 1749)	

#### Death Anniversaries

Sir Eccles (2 <sup>nd</sup> May, 1997)		Nettie Stevens (4 <sup>th</sup> May, 1912)		Alfred Hershey (22 <sup>nd</sup> May, 1907)	
Ernst Ruska (27 <sup>th</sup> May, 1988)		John Northrop (27 <sup>th</sup> May, 1987)		Jacques Monod (31 <sup>st</sup> May, 1976)	

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MAY

2023

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## Birth Anniversaries



Max Perutz (19<sup>th</sup> May, 1914)



Edward Lewis (20<sup>th</sup> May, 1918)



Joshua Lederberg (23<sup>rd</sup> May, 1925)



Carl Linnaeus (23<sup>rd</sup> May, 1707)



Stanley Prusiner (28<sup>th</sup> May, 1942)



## Recent Emerging Trends in Environmental Biotechnology

Industrialization and increased human activity have led to environmental degradation due to soil, water, and air pollution. Biotechnologists have realized that if you can't control the waste being released, you can manage it with technological advancement and enhancement in knowledge, scientists now develop sustainable waste treatment and pollutant removal strategies by using beneficial microorganisms to create a safe, greener environment.

## Biofuels For Microbial & Process Engineering

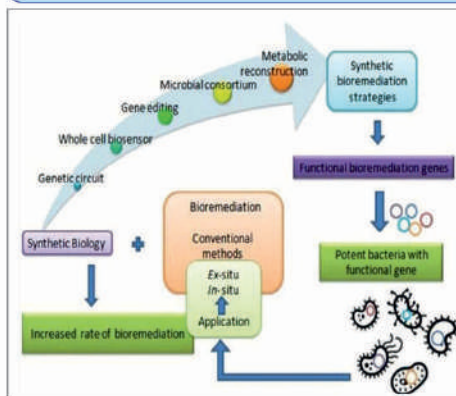
Biotechnologists use innovative approaches for the sustainable development to convert plants into biofuels. Microalgae such as hyacinth undergo bio-refining to reduce water pollution that has endangered the lives of biotic animals and plants. It is alternative energy sources that promote environmental conservation for a quality, greener planet.

## Bioremediation

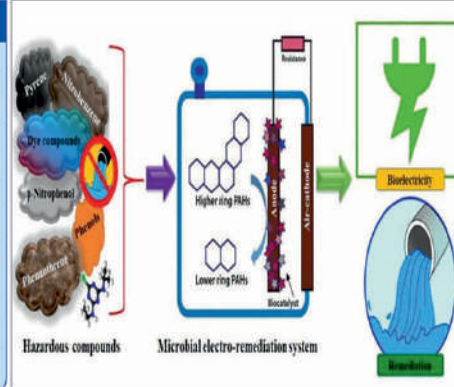
Without Environmental Biotechnology, the world would be full of pollutants and industrial waste. Nowadays technologies developed to purify pollutants for a quality environment. In bioremediation, microorganisms detoxify pollutants in water, sediments, or soil. To achieve the purification goal, scientists use bio-restoration, bio-treatment, and bio-reclamation processes.

## Bio-electrochemical Systems

Bio-electrochemical systems like microbial fuel cells are the innovation behind fuel production from biodegradable organic matter. The systems use a biofilm catalyst to create electrical energy/hydrogen. Microbial electroremediation innovative waste management strategy aims to generate sustainable energy through electro-genesis while recovering the resources.



**Bioremediation**  
Advancements in Environmental Biotechnology (EBT) have given the world a second chance at saving this planet. Using microorganisms, Biotechnologists can technically and economically treat waste. This process relies on controlled biodegradation and detoxification for a quality environment. Bio-augmentation allows the waste treatment system to achieve its goal regardless of the underlying extraneous factors.



Special Days	Objectives of Celebrating Different Days
Greenery Day	To appreciate and thank nature, and commune with it
Malaria Prevention Week	It recognizes global efforts to control malaria
World Thalassaemia Day	To create awareness about the ailment and support patients, their families and health care
World CFS Awareness Day	To support and recognize people with M.E./C.F.S. and other chronic immunological and neurological diseases
Anti Dengue Day	To perform surveillance of disease, mass outbreak prevention, and implement preventive measures in hotspots
World AIDS Vaccine Day	It helps spread information and raise awareness about AIDS and its immunization
Int. Biodiversity Day	To increase understanding and awareness of biodiversity issues
Int. Women Health Day	To draw attention to issues related to women's health and overall well-being
World Sclerosis Day	To raise awareness and campaign with everyone affected by multiple sclerosis
World No Tobacco Day	To encourage all persons worldwide who smoke or chew tobacco to quit for at least 24 hours
Green Up Day	To create awareness about the earth and to cherish the Greenery
World Asthma Day	To raise awareness about asthma and improve care of the condition across the globe





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06 JUNE 2023						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 World Milk Day	2 World Peatlands Day	3 World Bicycle Day
4	5 World Environment Day	6	7 World Food Safety Day	8 World Brain Tumor Day	9 Coral Triangle Day	10
11	12 	13 	14 World Blood Donor Day	15 Global Wind Day	16 World Sea Turtle Day	17 World Day to Combat Desertification & Drought
18	19 	20	21 World Hydrography Day	22 World Rainforest Day	23	24
25	26 International Drug Day	27	28	29	30	

### Scan QR Code For Marked Contributions Of Scientists

#### Birth Anniversaries

Charles Davenport (1 <sup>st</sup> Jun., 1929)	Werner Arber (3 <sup>rd</sup> Jun., 1929)	Charles Drew (3 <sup>rd</sup> Jun., 1904)	Francis Crick (8 <sup>th</sup> Jun., 1916)
Hermann Fehling (9 <sup>th</sup> Jun., 1812)	Jules Bordet (13 <sup>th</sup> Jun., 1870)	Karl Landsteiner (14 <sup>th</sup> Jun., 1868)	Thomas Weller (15 <sup>th</sup> Jun., 1915)

#### Death Anniversaries

George Snell (6 <sup>th</sup> Jun., 1996)	Wendell Stanley (15 <sup>th</sup> Jun., 1971)
Barbara McClintock (16 <sup>th</sup> Jun., 1902)	Erwin Chargaff (20 <sup>th</sup> Jun., 2002)

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06

JUNE

2023

Scan QR Code For Marked Contributions Of Scientist

### Birth Anniversary



Fredrick Hopkins (20<sup>th</sup> June, 1861)

### Environmental Biotechnology

•EBT is one of the fastest-growing sectors today due to the drive to conserve planet earth for a greener future which allows biotechnologists to manipulate microorganisms for their beneficial properties to clean the environment. Sustainable treatment of wastewater, its subsequent recycling, and biofuel production is some of the ways society is benefiting. Although the volume of industrial and domestic waste is high, we no longer have to worry about releasing it into the environment. Companies are now installing sophisticated waste treatment systems and turning to alternative energy sources like biofuels for sustainability.

Sr. No.	Biotechnology: Better Environment, Industry Statistics and Growth Projections
1.	The U.S accounts for over 30 percent of the global industrial waste.
2.	Over 1.2 trillion gallons of industrial waste go through sustainable treatment systems before it is directed back into the supply system.
3.	The compound annual growth was 4.8 percent at the time. This means that sustainable waste management is now being preferred as more people recognize the impact of pollution on the environment.
4.	The estimated annual growth compound separation system technology growth rate was 12.8 percent by 2016.
5.	The U.S is at the forefront of containment management in dealing with medical waste. The market value for this technology was estimated at \$3.2 billion in 2017.
6.	Biofuel production has increased tremendously, with sustainable electricity making up 25 percent of the electric power in 2017.
7.	The sales of environmental biotechnology products in the U.S were at \$382.3 million in 2018. With the government's support, public and private institutions are affording the industry; the compound annual growth rate is expected to rise in 2023.
8.	The U.S is the leading biofuel producer in the world, standing at 1,557 petajoules as of 2019. Despite the high supply of biofuels in the U.S, the demand is low. This might reflect the low adoption rate for biofuels as an alternative fuel source to reduce pollution and climate change.
9.	With a value of about \$26.7 billion, the separation system technology is expected to grow tremendously in 2023.
10.	Environmental biotechnology operates more than 15 million biogas digesters globally, intending to promote zero-waste agriculture.

Special Days	Objectives Of Celebrating Different Days
World Milk Day	To bring attention to the climate change crisis and how the dairy sector can reduce its impact on the planet.
World Peatlands Day	To raise global awareness about the importance of peatlands and peats across the world including tropical, temperate and peatland habitats
World Bicycle Day	To draws attention to the benefits -a simple, affordable, clean and environmentally fit sustainable means of transportation.
World Environment Day	For raising awareness on environmental issues as marine pollution, overpopulation, global warming etc.
World Ocean Day	To foster public interest in the protection of the ocean and sustainable development.
World Food Safety Day	To draw attention and inspire action to help prevent, detect and manage food borne risks, contributing to food security, human health, economic prosperity, agriculture, market access, tourism and sustainable development.
World Brain Tumor Day	To create awareness about brain tumors.
Coral Triangle Day	To shed light on ocean conservation and the numerous ways to protect and conserve the Coral Triangle.
World Blood Donor Day	To raise awareness of the need for safe blood, and to thank unpaid blood donors for life-saving gestures.
Global Wind Day	To raise public awareness about wind energy and its benefits.
World Sea Turtle Day	To highlight the importance of sea turtles by raising awareness about the threats to their lives.
World Day to Combat Desertification & drought	To combat desertification & drought
World Hydrography Day	To create awareness about the safe marine practices and navigation of the sailors in the world.
World Rainforest Day	To promote knowledge and inspire action to conserve one of the Earth's most valuable resources -our rainforests.
International Drug Day	To strengthen action and cooperation in achieving the goal of a world free of drug abuse.





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07		JULY					2023	
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
30	31 World Ranger Day						1	
2	3	4	5	6 World Zoonoses Day	7		8	
9	10	11 World Population Day	12	13	14 Shark Awareness Day		15	
16 World Snake Day	17	18	19	20	21		22	
23	24	25	26 World Conservation of the Mangrove Ecosystem	27 World Nature Conservation Day	28 World Hepatitis Day		29 World Tiger Day	

Scan QR Code For Marked Contributions Of Scientists

### Birth Anniversaries

 Gerald Edelman (1 <sup>st</sup> Jul.,1929)	 John Northrop (5 <sup>th</sup> Jul.,1891)	 Nettie Stevens (7 <sup>th</sup> Jul.,1861)	 Carl Woese (15 <sup>th</sup> Jul.,1928)
 Gregor Mendel (20 <sup>th</sup> Jul.,1822)	 Selman Waksman (22 <sup>nd</sup> Jul.,188)	 Rosalind Franklin (25 <sup>th</sup> Jul.,1920)	 Heinz Conrat (29 <sup>th</sup> Jul.,1910)

### Death Anniversaries

 Marie Curie (4 <sup>th</sup> Jul.,1934)	 Harry Crick (28 <sup>th</sup> Jul.,2004)
 Ronald A. Fisher (29 <sup>th</sup> Jul.,1962)	

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07

JULY

2023

## National/International Scholarships/Fellowships

There are several govt. and non-govt. agencies which provide scholarships, fellowships and interest free loan to desirous and talented students aspiring for or doing undergraduate, post graduate and PhD degree courses. Following are the Scholarships/Fellowships for College, University and Higher level studies for Indian students and researchers generally in the field of science and particularly in biotech or advanced life science branches.

**Sandwich Postgraduate Fellowship** To pursue a Ph.D. research programme in India for 12-24 months.  
**DBT-TWAS Postdoctoral Fellowship** To pursue a postdoctoral research programme in India for 12-18 months.

**Petroleum - Scholarship for higher studies:** For PG studies in India and Abroad; Prior admission in any institute is compulsory; announced every year: Application invited approx. in May.

**Chevening Scholarships** to undertake PG study in UK. Up to 100 Indian professionals receive financial assistance each year.

**DBT- Post Doctoral Fellowship in Biotechnology and Life Sciences:** For candidates having PhD/MD/MS in Biomedical Sciences/Life Sciences. Selection via interview conducted at IISc Bangalore. Fellowship is 12,000 pm and contingency grant of 50,000 pa for two years. Application invited approx. in: March and October.

**Czech Government Scholarship:** For Ph.D. program in Agriculture. Eligibility: 60% marks in M.Sc.; age below 30yrs. 6000 Czech Crowns per month: No tuition fee and free medical care provided.

**DBT's Biotech Consortium India Ltd. conducts BITP:** Biotech. Industrial Training Programme: For B.Tech (Biotechnology), M.Sc. Biotech/Applied life science/Agriculture. Around 30 candidates are selected and provided practical training in Biotech companies. Stipend of Rs.6,500/- Pym: Application invited in: June

**CSIR Junior Research Fellowship:** Via conducting all India National Eligibility Test (NET), Twice a year- June and December last Sunday. Fellowship Rs. 8000 pm plus a contingency grant of 20000 pa for the first two years; and for the next three years Rs.10000 pm fellowship + contingency grant of Rs.20000 pa.

**CSIR Senior Research Fellowship:** For working professionals in govt. research lab or university with 2 year research/teaching experience. Should have M.Sc./MBBS/MD/ M.Tech degree.

**Chinese government scholarship:** For higher studies/research/specialized training in subjects - Zoology, Plant Breeding, Genetics, Environmental Science, Fisheries, Agronomy, Sericulture and Botany. Application invited approx. in: Announced around April

**Cambridge-Nehru Scholarships:** To pursue Doctoral programme. University Fee, air fare, Maintenance allowance provided: Application invited approx. in: July. Contact: Nehru Trust for Cambridge University, Teen Murti House, New Delhi – 11

Special Days	Objectives Of Celebrating Different Days
World Zoonoses Day	To raise awareness and increase understanding of zoonotic and emerging disease risks and prevention
World Population Day	To focus attention on the urgency and importance of population issues
SWAYAM Estab. Day	To take the best teaching learning resources to all, including the most disadvantaged
Shark Awareness Day	To shift attitudes around sharks & boost awareness of these animals and everything they do for ocean ecosystems
World Snake Day	To raise awareness about the importance of snake conservation
World Conservation of the Mangrove Ecosystem	To stabilize shorelines, preventing erosion and protecting the land -and the people who live there-from waves and storms
World Nature Conservation Day	To create awareness about the importance of natural resources and the conservation around them
World Hepatitis Day	To raise awareness of the problem & what needs to be done to strengthen efforts in prevention, screening & control
World Tiger Day	To raise awareness about the declining tiger population in the world
World Ranger Day	To honour the contribution of Park Rangers to the preservation of nature



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08 AUGUST 2023						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8 World Moon Bear Day	9	10 World Lion Day	11	12 World Elephant Day
13 International Wolf Day	14	National Honey Bee Day 15 Independence Day	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30 Intr. Whale Shark Day	31		

Scan QR Code For Marked Contributions Of Scientists

### Birth Anniversaries

Jaen Lamarck (1 <sup>st</sup> Aug.,1744)		George Hevesy (1 <sup>st</sup> Aug.,1885)		John Tyndall (2 <sup>nd</sup> Aug.,1802)	
Koichi Tanaka (3 <sup>rd</sup> Aug.,1959)		Alexander Fleming (6 <sup>th</sup> Aug.,1881)		Mankombu Swaminathan (7 <sup>th</sup> Aug.,1925)	

### Death Anniversaries

Feoder Lynen (6 <sup>th</sup> Aug.,1979)		Max Theiler (11 <sup>th</sup> Aug.,1972)		James Sumner (12 <sup>th</sup> Aug., 1955)	
Richard Willstatter (3 <sup>rd</sup> Aug.,1942)		Eduard Buchner (13 <sup>th</sup> Aug.,1917)		Selman Waksman (16 <sup>th</sup> Aug., 1973)	

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08

AUGUST

2023

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### Birth Anniversaries

Ernst Laqueur (7 <sup>th</sup> Aug., 1880)		William Baetson (8 <sup>th</sup> Aug., 1861)		Aron Klug (11 <sup>th</sup> Aug., 1926)	
Frederick Sanger (13 <sup>th</sup> Aug., 1918)		Wendell Stanley (16 <sup>th</sup> Aug., 19054)		Georges Cuvier (23 <sup>rd</sup> Aug., 1769)	
Roger Kornberg (24 <sup>th</sup> Apr., 1947)		Michael Smith (26 <sup>th</sup> Apr., 1932)			

### Death Anniversaries

Erwin Chargaff (11 <sup>th</sup> Aug., 1997)		Linus Pauling (19 <sup>th</sup> Aug., 1994)		John Kendrew (23 <sup>rd</sup> Aug., 1997)	
Hamilton Smith (23 <sup>rd</sup> Aug., 1931)		Leeuwenhoek Microscope (circa late 1600s)		Antoine Van Leeuwenhoek (26 <sup>th</sup> Aug., 1723)	

### Top Biotech-Pharma Startup Incubators In India

The Indian Government is also providing a lot of support. In the last few years, Govt. initiatives like DBT, DST, CSIR, and BIRAC are pumping a generous amount of money within the biotechnology startup ecosystem. A few biotech startups which are providing shaking incubator solutions.

<b>IKP Knowledge Park (Hyderabad)</b>	<b>Foundation for Innovation and Technology Transfer (FITT) at IIT-Delhi (New Delhi)</b>	<p><b>BIOTECHNOLOGY</b></p> <p><b>Top Biotech-Pharma Startups in India</b></p> <p>Ex-Vivo Cultured Adult Allogeneic Mesenchymal Stromal Cells</p> <p><b>stempeucel®</b></p>	<b>MITCON BioPharma Technology Business Incubator (Pune)</b>	<b>Centre for Cellular and Molecular Platforms (C-CAMP) (Bangalore)</b>
<b>Technology Business Incubator at Anna University (Chennai)</b>	<b>NCL-Venture Center (Pune)</b>		<b>Technology Business Incubator UOH (Hyderabad)</b>	<b>Amity Innovation Incubator at Amity University (Noida)</b>
<b>E-Health TBI (Bangalore)</b>	<b>Technology Base Incubator Society (New Delhi)</b>		<b>Technopark TBI (Trivandrum)</b>	<b>iHUB at CCMB (Hyderabad)</b>
<b>UOM TBI (Chennai)</b>	<b>Ekta Incubation Center – WBUT (Kolkata)</b>		<b>VIT Technology Business Incubator (Vellore)</b>	<b>KIIT Technology Business Incubator at KIIT University (Bhubaneswar)</b>

**Stempeucel:**  
It is a leading stem cell company developing stem cell-based medicinal products. Stempeucel has developed first allogeneic stem cell therapy in India

Special Days	Objectives of Celebrating Different Days
World Moon Bear Day	It is dedicated to raise awareness of the world's most exploited bear species
World Lion Day	To raise awareness about the protection of lions
World Elephant Day	To create awareness on elephant conservation, and to share knowledge and positive solutions for the better protection and management of wild and captive elephants
International Wolf Day	To highlight what role wolves have in the ecosystem, and how we can work towards a sustainable future
National Honey Bee Day	To strengthen the measures aimed to protect the Bees and other pollinators
Independence Day	It commemorates the valour and spirit of the freedom fighters who fought for the independence of the nation
International Whale Shark Day	To spread awareness about the importance of whale sharks and their conservation







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09

SEPTEMBER

2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
(1 <sup>st</sup> Saturday) Vulture Awareness Day	(3 <sup>rd</sup> Saturday) Clean Up Day	(Last Saturday) Worlds Rivers Day	1 <sup>st</sup> -7 <sup>th</sup> National Nutrition Week		1 International Primate Day	2
3	4	5	6	7 Intr. Clean Air for Blue Skies Day	8	9
10	11	12	13	14	15	16 Intr. Preservation of the Ozone Layer
17 World Manta Day	18 World Water Monitoring Day	19 World Marrow Donor Day	20	21 Zero Emission Day	22 Car Free Day	23
24 World Gorilla Day	25 World Pharmacist Day	26 World Environmental Health Day	27	28 World Rabies Day	29 World Heart Day	30

### Scan QR Code For Marked Contributions Of Scientists

#### Birth Anniversaries



Sergei Winogradsky (1<sup>st</sup> Sep.,1856)



Frank Burnet (3<sup>rd</sup> Sep.,1899)



Susumu Tonegawa (5<sup>th</sup> Sep.,1939)



Richard Roberts (6<sup>th</sup> Sep.,1943)



Barbara McClintock (2<sup>nd</sup> Sep.,1992)



Rudolf Virchow (5<sup>th</sup> Sep.,1902)



Thomas Brock (10<sup>th</sup> Sep.,1926)



Hans Gram (13<sup>th</sup> Sep.,1853)



Charles Nicolle (21<sup>st</sup> Sep.,1866)



John Sheehan (23<sup>rd</sup> Sep.,1915)



Louis Pasteur (28<sup>th</sup> Sep.,1895)



Andrew Lwoff (30<sup>th</sup> Sep.,1994)

#### Death Anniversaries

## Ashwamedh Engineers and Consultants

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**Water, Packaged Drinking Water**  
**Food & Agri Products**  
Bakery & Confectionery Products  
Beverages (Alcoholic / Non Alcoholic)  
Canned & Processed Food  
Cereals, Pulses & Cereal Products  
Coffee & Cocoa Products  
Edible Colors & Flavors

Edible Oils & fats  
Food Additives & Preservatives  
Fruits & Fruit Products  
Herbs, Spices & Condiments / Edible Salt  
Honey & Honey Products  
Jams, Juices, Sauces & concentrates  
Meat, Meat Product / Poultry & Poultry Products  
Milk & Milk Products  
Nut & Nut Products  
Oil Seeds & byproducts  
Starch & Starch Products  
Sugar & Sugar Products  
Tea & Products  
Vegetable & Vegetable Products  
**Animal Feed, Compounded Feed, Dairy Feed, Poultry Feed, Pet Food**

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09

SEPTEMBER

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Scan QR Code For Marked Contributions Of Scientist

## Top Biotech-Pharma Companies and Startup Ecosystems in India

Scan QR Code For Marked Contributions Of Scientist

### Birth Anniversary



Howard Florey (24<sup>th</sup> Sep., 1898)



### Biocon

This biopharmaceutical company stands to be the largest of all in India. It is a Bangalore based company and famous for producing human insulin.

### GlaxoSmithKline Pharm. Ltd.

The headquarter is in Mumbai and, it is an Indian subsidiary of GlaxoSmithKline plc situated in London.



Thomas Morgan (25<sup>th</sup> Sep., 1866)



### Cadila Healthcare

It is the fourth largest pharmaceutical company in India, located in Ahmadabad, Gujarat. It is the largest manufacturer of generic drugs and produces Active Pharmaceutical Ingredients.

### Serum Institute of India Ltd.

Located in Pune, this company manufactures immunobiological drugs along with vaccines. It is founded by Cyrus Poonawalla. A number of their products are being supplied to India and overseas.

### Syngene International Ltd.

It is a Contract Research Organization and one of the subsidiaries of Biocon helping in the drug discovery and development. It received India's first export status by Government of India.

### Dr. Reddy's Laboratories

It is the multinational pharmaceutical company located in Hyderabad, India. Therapies that they focus on are oncology, cardiovascular, dermatology, anti-diabetic and pain management.

### AstraZeneca Pharma India Ltd.

It is the subsidiary of AstraZeneca plc situated in the UK. The company is having headquarter in Bangalore and offers manufacturing, sales, and marketing services.

### Wockhardt

Headquartered in Mumbai, this pharmaceutical company produces Active Pharmaceutical Ingredients(API), vaccines, nutrition products, and biopharmaceuticals.

### Pfizer

It is one of the world's largest biopharmaceutical company headquartered in New York City. In India, it is headquartered in Mumbai.

### Aurobindo Pharma

Headquartered in Hyderabad, India, this is generic pharmaceuticals and active pharmaceutical ingredients manufacturing company. It has Pfizer and AstraZeneca as its marketing partner.

### Panacea Biotech Ltd.

This Pharma and Health management company has its five centers across India with New Delhi being its headquarter. It stands to be one of the three largest Biotech. companies in India.

### Novartis

It is one of the largest multinational pharmaceutical company based in Switzerland. In India, it is headquartered in Mumbai. Their successful contribution to healthcare and drug development has helped in the prevention of many diseases.

### Lupin Ltd.

It is a transnational pharmaceutical company headquartered in Mumbai, India. The company is a subsidiary of Lupin Pharmaceuticals Inc. located in Baltimore, Maryland. Company's products, R&D had made a good market value over the years.

### Sun Pharma. Industries Ltd.

It is an Indian multinational pharmaceutical company. They manufacture and sell API (Active Pharmaceutical Ingredients) and pharmaceutical formulations in India and United States. Its headquarter is in Mumbai, Maharashtra.

### Bharat Biotech

This company was the first to develop vaccines for Zika virus. Located in Hyderabad, it is one of the leading biopharmaceutical company in India. It was the first company to launch a generic drug in India.

### Cipla

It is an Indian multinational company headquartered in Mumbai offering its services by developing medicines for various diseases.

Special Days	Objectives Of Celebrating Different Days
International Day of Clean Air for Blue Skies	It focuses on the transboundary nature of air pollution, stressing the need for collective accountability and action
International Day for Preservation of Ozone layer	Preservation of the Ozone Layer, commemorating the Montreal Protocol on Substances that Deplete the Ozone Layer
World Water Monitoring Day	To increase public awareness and involvement in water monitoring and protecting water resources around the world
Zero Emission Day	To raise awareness on the impact of our daily emissions, which are gases & particles emitted by electricity, agriculture
Car Free Day	To motivate motorists to give up their cars for a single day
World Environmental Health Day	To strengthen the one health approach that functions at the nexus of human, wildlife & the shared environment health
World Gorilla Day	For celebrating gorillas and empowering global communities to take action for gorilla conservation
World Rabies Day	To raise awareness about rabies prevention
World Heart Day	To spread awareness about the cardiovascular disease



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10 OCTOBER 2023						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 Voluntary Blood Donation Day	2 World Farm Animal Day	3	4 World Animal Welfare Day	5	6	7
8	9	10 World Mental Health Day	11 World Arthritis Day	12 World Thrombosis Day	13 Inter. Day of Natural Disaster Reduction	14 Inter. E-Waste Day
15 World White Cane Day	16 World Food Day	17	18	19	20 World Osteoporosis Day	21 World Iodine Deficiency Day
22	23	24 World Polio Day Inter. Day of Climate Action	25	26 World Obesity Day	27	28
29	30 World Thrift Day	31	(1 <sup>st</sup> Monday) World Habitat Day	(1 <sup>st</sup> Wednesday) Energy Efficient Day	(4 <sup>th</sup> Wednesday) Sustainability Day	(1 <sup>st</sup> Week) Wild Life Week & World Oceans Week

### Scan QR Code For Marked Contributions Of Scientists

#### Birth Anniversaries

 Alexander Todd (2 <sup>nd</sup> Oct.,1907)	 Jelius Sachs (2 <sup>nd</sup> Oct.,1832)	 Arthur Harden (12 <sup>th</sup> oct.,1865)
 John Venter (14 <sup>th</sup> oct.,1946)	 Christiane Volhard (20 <sup>th</sup> Oct.,1942)	 Oswald Avery Jr. (21 <sup>st</sup> Oct.,1877)

#### Death Anniversaries

 Maurice Wilkins (5 <sup>th</sup> Oct.,2004)	 George Palade (7 <sup>th</sup> Oct.,2008)	 Paul Muller (13 <sup>th</sup> Oct.,1965)
 Andreas Vesalius (15 <sup>th</sup> Oct.,1564)	 Konrad Bloch (15 <sup>th</sup> Oct.,2000)	

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10

OCTOBER

2023

Scan QR Code For Marked Contributions of Scientists

Birth Anniversaries of Scientists



George Stahl (22<sup>nd</sup> Oct.,1659)



Antoine Van Leeuwenhoek (24<sup>th</sup> Oct.,1632)



Dimitri Ivanosky (28<sup>th</sup> Oct.,1864)



Jonas Salk (28<sup>th</sup> Oct.,1914)



Leland Hartwell (30<sup>th</sup> Oct.,1939)

### Indian Immunologicals Limited

It is one of the top biotechnology company famous for its development of vaccines against various diseases like rabies, hepatitis, measles, etc.

### Glenmark

Headquartered in Mumbai, this is a pharmaceutical company based on manufacturing generic drugs and active pharmaceutical ingredients.

### Natco Pharma

It is a pharmaceutical company based in Hyderabad. This company develops and manufactures finished dosage formulations and active pharmaceutical ingredients.

### Strand Life Sciences

It is a genomics-based research and diagnostics company with a mission to improve global health by decoding the genetic information contained in an individual's genome.

### Bharat Serum and Vaccines Ltd.

This is a global private equity firm has endorsed its faith in our commitment towards bringing life to life which develops a range of biological, biotech and pharmaceutical products.

### Indoco Remedies Ltd.

This company focuses on the manufacturing and marketing of formulations and API's. With high manufacturing facilities, they have acquired a strong foothold in the international market too.

### Laurus Labs

They are one of the leading manufacturers of Active Pharmaceutical Ingredients (APIs) for anti-retroviral (ARV) and Hepatitis C along with manufacturing special ingredients that can be used in nutraceutical, dietary supplements, and cosmeceutical products.

### Mahyco Monsanto Biotech

This is a joint venture between Mahyco and Monsanto Investments India Pvt. Ltd. (MIPL), now part of Bayer Group of Companies has sub-licensed the Bollgard® and Bollgard II® technologies to over 45 Indian seed companies. It have a choice of over 1000 Bt cotton hybrid seeds

### Abbott India Ltd.

It is a subsidiary of Abbott Laboratories headquartered in the US. The company provides reliable nutritional based products, develops medical devices and also diagnostics.

### Orchid Chemicals & Pharmaceuticals

This Chennai based pharmaceutical company focuses on the production of active pharmaceutical ingredients.

### Morepen Laboratories Ltd.

Headquartered in New Delhi, this company has three facilities, for the manufacture of API, formulations, and OTC products.

### Shantha Biotechnics Ltd

This 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.

### Indian Immunologicals Limited

Headquartered in Mumbai, this international pharmaceutical company produces API's, formulations and drug intermediates.

Special Days	Objectives Of Celebrating Different Days
Voluntary Blood Donation	To raise awareness of the need for safe blood and to thank unpaid blood donors for their life-saving gifts of blood
World Farm Animal Day	It raises awareness regarding the prolonged suffering of the farm animals and also about their brutal slaughter
World Animal Welfare Day	To raise awareness about improving the welfare standards of animals across the globe
World Mental Health Day	To raise awareness of mental health issues around the world and to mobilize efforts in support of mental health
World Arthritis Day	To help raise awareness across the world regarding the existence and impact of rheumatic and musculoskeletal diseases.
World Thrombosis Day	To bring awareness to the frequently disregarded and misunderstood condition of thrombosis
International Day of Natural Disaster Reduction	To reduce their disaster risk and disaster losses
International E-Waste Day	To promote the correct disposal of e-waste throughout the world to increase re-use, recovery & recycling rates
World White Cane Day	It an essential tool that gives us the ability to achieve a full and independent life
World Food Day	To promote global awareness and appreciate the amazing food we eat, but also to tackle world hunger
International Day of Climate Action	It is celebrated against Climate Change
World Thrift Day	To promote the habit of savings and better management of money and wealth.



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11 NOVEMBER 2023						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 World Vegan Day	2	3	4
5	6 Intr. Day for Preventing the Exploitation of Env't.	7 National Cancer Awareness Day	8	9	10 World Immunization Day	11
12 World Pneumonia Day	13	14 Biotechnology Day	15	16	17 National Epilepsy Day	18
19	20	21 World Fisheries Day	22	23	24	25
26 World Olive Tree Day	27	28	29	30	18 <sup>th</sup> -24 <sup>th</sup> World Antibiotic Awareness Week	

### Scan QR Code For Marked Contributions Of Scientists

#### Birth Anniversaries

 Alfred Heineken (4 <sup>th</sup> Nov.,1923)	 John Heldene (5 <sup>th</sup> Nov.,1892)	 Marie Curie (7 <sup>th</sup> Nov.,1867)	 Norton Zinder (7 <sup>th</sup> Nov.,1928)
 Lewis Lewin (9 <sup>th</sup> Nov.,1850)	 Paracelsus (11 <sup>th</sup> Nov.,1850)	 Edward Doisy (13 <sup>th</sup> Nov.,1893)	 George Wald (18 <sup>th</sup> Nov.,1906)

#### Death Anniversaries

 Alfred Wallace (7 <sup>th</sup> Nov., 1913)	 Govind Khorana (9 <sup>th</sup> Nov.,2011)
<p>Ethics... has been well called "the religion of science" - Edwin Conklin</p>	
 Edwin Conklin (24 <sup>th</sup> Nov.,1863)	

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11

NOVEMBER

2023



Scan QR Code For Marked Contributions Of Scientists

Birth Anniversaries of Scientists



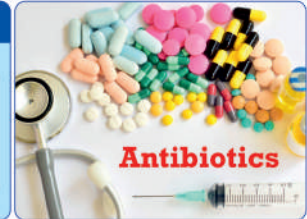
George Palade (19<sup>th</sup> Nov., 1912)



James Sumner (19<sup>th</sup> Nov., 1887)



Andrew Moyer (30<sup>th</sup> Nov., 1899)



### Sattva Medtech

It is a medical diagnostics equipment startup working on next-generation fetal health monitoring devices to address perinatal deaths in India caused due to fetal distress and related complications.

### Yaathum Biotech

A molecular biotech company specializing in the development of Real-time quantitative PCR (qPCR) assays for rapid and affordable diagnosis of disease and research in life sciences.

### Theramyt Novobiologics

Theramyt Novobiologics is a niche Biosimilar to Biobetter development enterprise focused on combining drug designing with platform technologies, to generate unique product lines in oncology, rheumatoid arthritis, cardiovascular diseases, diabetes and other metabolic disorders.

### Xcode Life Sciences

It is one of the first Bioinformatics companies of India providing personalized healthcare by genetic testing and offers nutritional recommendation according to individual genetic profile. It is India's first company to launch DNA-based anti-aging skincare program for women known as "ComeAlive"

### Swagene

A novel indigenous biotechnology startup, dedicated towards personalized medicine through molecular diagnostics. The company is working on the cancer tests based on the detection of genetic markers of the specific cancers at the initial stage and in cases of relapse and the patient can be provided with the most suited, tailored therapy.

### Perfint Healthcare

This makes robotic devices to deliver cancer drugs directly to organs like the lungs or liver. Perfint is the focus is on planning and targeting solutions for image-guided interventional procedures – with an emphasis on oncology and pain.

### Mapmygenome

It is a personal genomics and a molecular diagnostic company that tells all about the genetic predisposition of a person to check the risk of brain and cardiac diseases or DNA-based test to assess the risk of developing genetic cancers or molecular tests for tuberculosis.

### Achira Labs

It is an innovative medical diagnostics startup which developed indigenous microfluidic, lab-on-chip platform to serve the clinical areas of thyroid disorders, fertility, diabetes and infectious disease. It is a big technological advancement in the Indian healthcare facilities.

### Ganit Labs

Another Bangalore-based startup, Ganit Labs, works towards prevention and cure of diseases through genomics application & informatics technology. The company is involved in the oral cancer genes' mapping and their study. It uses analytical tools to ensure effective analyses.

### Mitra Biotec

It is a Bos ton-based biotech startup in Bangalore, India founded in 2010. The focus area of the company is personalized oncology treatment and supporting more effective and efficient cancer drug development.

### Cardiac Design Labs

It is working in the similar space of Tricog. It provides efficient cardiac monitoring and diagnosis by deploying intelligent systems that enable automatic remote reporting.

Special Days	Objectives Of Celebrating Different Days
World Vegan Day	To raise awareness of the health advantages of a vegan diet and to promote it Inter
International Day for Preventing the Exploitation of Environment	For preventing the exploitation of the environment in war and armed conflict
National Cancer Awareness	For generating awareness about early detection of cancer and avoiding cancer-causing lifestyles
World Immunization Day	To highlight the collective action required & to promote use of vaccines to protect people of all age groups against disease
World pneumonia Day	To raise awareness about the pneumonia disease and its harmful effects
World Biotechnology Day	To celebrate the impact of biotechnological innovations
National Epilepsy Day	To promotes awareness of epilepsy in more than 130 countries each year
World Fisheries Day sustainable	To emphasizes the importance of healthy marine ecosystems & the importance of securing fish stocks around the world



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12 DECEMBER 2023						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
31					1 World AIDS Day	2 National Pollution Control Day
3 Wildlife Conservation Day	4 Wildlife Conservation Day	5 World Soil Day	6	7	8	9 World Patient Safety Day
10	11 Inter. Mountain Day	12	13	14 World Energy Conservation Day	15	16
17	18	19	20	21	22 National Mathematics Day	23
24	25	26	27	28	29	30

### Scan QR Code For Marked Contributions Of Scientists

#### Birth Anniversaries

Richard Kuhn (3 <sup>rd</sup> Dec.,1900)		Alfred Hershey (4 <sup>th</sup> Dec.,1908)		Bert Achong (6 <sup>th</sup> Dec.,1928)		Lewis Lewin (1 <sup>st</sup> Dec.,1929)	
Theodor Schwann (7 <sup>th</sup> Dec.,1810)		Robert Koch (11 <sup>th</sup> Dec.,1843)		Edward Tatum (14 <sup>th</sup> Dec.,1909)		Andreas Vesalivs (15 <sup>th</sup> Oct.,1564)	

#### Death Anniversaries

Thomus Morgan (4 <sup>th</sup> Dec.,1945)		John Haldane (1 <sup>st</sup> Dec.,1964)	
Jean Lamarck (18 <sup>th</sup> Dec.,1829)		John Tyndall (4 <sup>th</sup> Dec.,1893)	

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12

DECEMBER

2023

Scan QR Code For Marked Contributions Of Scientists

### Birth Anniversaries



Maurice Wilkins (15<sup>th</sup> Dec., 1916)



Bruce Ames (16<sup>th</sup> Dec., 1928)



### Death Anniversaries



Carl Woese (30<sup>th</sup> Dec., 2012)



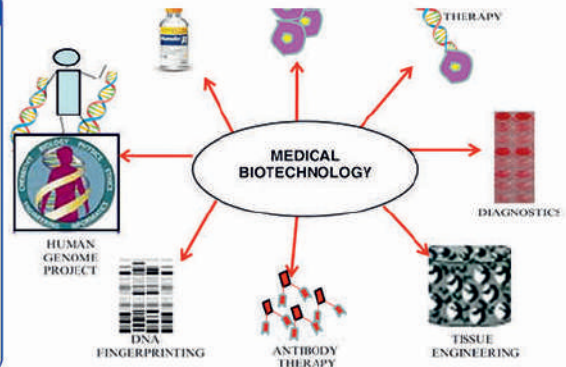
Louis Pasteur (27<sup>th</sup> Dec., 1822)



Kary Mullis (28<sup>th</sup> Dec., 1944)



Theodosius Donzhansky (18<sup>th</sup> Dec., 1975)



### Forus Health

The technology-aided healthcare startup focuses on preventive ophthalmic care. It helps in the screening of common eye problems which can lead to blindness. It is simple, portable and rugged, & can be operated by a min. trained technician.

### Pandorum Technologies

A unique biotechnology startup, Pandorum Technologies is trying to take tissue engineering to the next level in India. Pandorum's focus is on tissue engineering and regenerative medicine. It made India's first 3D printed artificial human liver tissue

### LeadInvent

It has developed a unique molecule simulation technology known as LIDiscover Engine which enables scientists to discover and develop novel patentable compounds for various therapeutic areas. LIDiscover Engine has been successfully utilized in over five drug discovery programs comprising oncology, infective diseases like tuberculosis and neural indications. The company provides in-silico research services in chemo-informatics and bioinformatics

### Purius Nanosystems

It is a healthcare diagnostics company that develops an integrated molecular diagnostic system for performing complex DNA/RNA/Protein testing. The startup is very active in the fields of Medical devices, In-Vitro Diagnostics, and Molecular Biology.

### InterpretOmics

InterpretOmics is a bioinformatics focused Big Data startup which is working on a cloud-based software system for next-generation genomics data analysis and interpretation. It is a personal genomics company to provide health, fitness, nutrition, lifestyle and genealogy insights to lead a healthy lifestyle.

### Navya Biologicals

It deals with bioprocess and biologics. It develops yeast cell line platform for expression of complex peptides and proteins, and mammalian expression cum continuous process platform. It offers NavAlbumin formulations and passive homing therapies for applications, including IVF and stem cell for biopharmaceuticals production.

### Zumutor Biologics

It works in the disease areas that are today's concerns, in the segments of Oncology, Diabetes and Autoimmune Disorders. It develops therapeutics encompassing recombinant technology-based biosimilars to large antibody structures. It also caters clients to avail cell line development, analytical method development and testing, protein characterization, process development, process characterization/scale down validation, and technology transfer services.

Special Days	Objectives Of Celebrating Different Days
World AIDS Day	To spread awareness about the status of the pandemic & encourage progress in HIV prevention, treatment & care
National Pollution Control Day	To raise awareness about the hazards of pollution
Wildlife Conservation Day	To raise awareness of the multitude of benefits that their conservation of wild fauna
World Soil Day	To focus attention on the importance of healthy soil and to advocate for the sustainable management of soil resources
World Patient Safety Day	The day brings together patients, families, caregivers, communities, health workers, healthcare leaders, and policymakers to show their commitment to patient safety
International Mountain Day	To raise awareness about importance of mountains not only for our lives but also for inhabitants, the ecosystems and the environment
World Energy Conservation Day	To make people aware of global warming and climate change and promote efforts towards saving energy resources
National Mathematics Day	To celebrate the birth anniversary of Indian mathematician Srinivasa Ramanujan and to encourage students around the world to sharpen their skills in arithmetic and problem solving



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