



MANGALMAY

Genome Arch

Editorial Message: Chairman Sir

It is great to notice interesting events taking shape frequently at our Mangalmay campus. All of us are equally delighted to witness the happenings of significant events and tremendous achievements. I wish to record my hearty congratulations to those who have brought laurels to the institution and I appreciate all of you for working together as a team. I am sure, it is just a beginning and there is lot more to be happening. Go ahead and continue the good work. I wish you all the best for achieving greater success and scaling newer heights in your education and career ahead.



Vice Chairman Sir

The Mangalmay group was started in 2002 with intent to impart quality education in field of Management, Engineering, Biotechnology and Education to equip young people with knowledge and skills, which would enable them to make meaningful contribution to the economic development of the country.



Advisory Committee:

Er. Rishi Kumar, Ms. Sudhanshu Tyagi,
Ms. Ankita Swati, Dr. Sruchi Khanna

Article of the month:

Animal Behavior : An Evolution of Mankind

Animal Behavior is the scientific study of the wild and wonderful ways in which animals interact with each other, with other living beings, and with the environment. It explores how animals relate to their physical environment as well as to other organisms, and includes topics such as how animals find and defend resources, avoid predators, choose mates, reproduce, and care for their

Previous Lesser definitions of Animal Behavior include:

- "Behavior is motion". "Movement, not necessarily movement of the whole animal... muscular contractions" or "The whole function of the nervous system can be summed up in one word, conduction." - In Sherrington's view the basic element of behavior was formed in a reflex-arc, where receptor organs receive sensory stimuli and are conducted to an effector organ. This highly reductionist position has received criticism from many angles, specifically from arguments that it fails to account for spontaneous behaviors, behaviors that are characterized by a lack of motion, as well as disregarding the complexity of emergent properties in behavior.
- "What a plant or animal does, in the course of an individual's lifetime, in response to some event or change in its environment." - This definition reduces behavior to phenotypic plasticity, and is thus not specific enough.
- "Behavior is all observable or otherwise measurable muscular and secretory responses (or lack thereof) and related phenomena in response to changes in an animal's internal or external environment." Behavior may include components which do not lend themselves to simple quantification.
- "Behavior is characterized by entropic and energetic transductions by an organism, in which the long-term averages convert high entropic and low energetic sensory inputs into low entropic and high energetic outputs." - This definition is too incomprehensible to be of great use.

Prof (Dr.) K.K.Gaur
Director

Students' Corner

Gene Editing: A new tool to Mankind

The redrafting of Deoxyribonucleic acid (DNA) by correcting the "*bad gene*" and/or by adding "*new gene*" is quoted as Gene editing. In earlier days dating back to the 1973, **Herb Boyer** and **Stanley Cohen** created the first genetically engineered organism which was a *Bacterium* with an added gene to confer antibiotic resistance.

Owing to the social ethical issues, gene editing is banned and/or not practiced in most of the countries including USA, UK, India and others. Nevertheless, in recent time a Chinese Scientist named **He Jiankui** carried out exclusive research on gene editing and came out to be the man behind *gene editing babies*. However, based on ethical ground and/or upon public outrage, he has stopped human trials though in one of his work it is said that he conducted a human trial on the embryos of twin girls whose father was. Human Immunodeficiency Virus (HIV) positive. Further, it is self-claimed that the experiment performed was successful with positive outcome.

This incident has stirred up the realms of biotechnologists in the entire world creating a sense of conscience in the minds of learned scientists, scholars and researchers at large raising the question that "*How much of science can influence and/or interfere in a human being's physical future?*"

Gene editing have manifold potentials and signifies the beginning of an era where we, human can become the *master of our own destiny* with the power to ink a permanent change in our genetic makeup leading to development of "*designer babies*". Gene editing have several benefits in treating and minimizing various genetic and acquired disorders however, the sole harm of triggering of an oncogene (mutation) is enough to prevent the incorporation of this technique in biomedical applications which can never be overlooked. Therefore, the benefits of the mentioned gene editing process are essentially masked by a single defect i.e. the ability to cause mutation.

~By **Tanzila Khannam**
B. Sc. Biotechnology (II) year

Activities

Orientation Program & Guest lecture

Organizer: School of Biotechnology

The Department of Biotechnology welcomed its new batch of young talents with two-day orientation program held in the departmental seminar hall on 16th & 17th of August, 2018. This is exclusively practiced to introduce and acclimatize the new students with the academics, rules and regulations, extracurricular activities, students concerns and also what they are expected of at the campus as they begin their journey at Mangalmai Institute of Management and Technology (MIMT). Further, during the event an Interaction with the parents was also held to address their queries and concerns.

The orientation program began with the welcome address to the students by Prof.(Dr.) K. K. Gaur, Director, Biotechnology. Dr. Gaur encouraged and motivated the students to achieve their dream and fulfill their life goals with the right kind of knowledge, skill sets, attitude and ethics. The students were further briefed about the Vision and Mission of the Institute, ranking, collaborations, infrastructure details and facilities available through presentation by Ms. Sudhanshu Tyagi & Dr. Suruchi Khanna. The presentation also showcased the various recreational activities held in the campus and major events like Fresher's party, Alumni Meet, Annual Sports Meet and Techno Cultural Fest.

The Department had organized a guest lecture "**Career prospects and New Avenues in Biotechnology**" during the second half session of the **Orientation Program** for the biotech students on **16th August 2018**. The Speaker for the lecture was **Dr. Tripti Bhatnagar**, Managing Director at Codon Biotech Pvt. Ltd. Noida having more than 14 years experience in Research and Academics. Her founded company has gone strength to strength and is viewed amongst NCR as one of the top Biotech Company in Research & Manufacturing. In her lecture Dr. Tripathi discussed the various scope and innovation in the field of Biotechnology providing many exclusive examples and challenges at large with reference to



Freshers' Party

Organizer: School of Biotechnology

Fresher's Party was organized to cordially welcome the new students of the batch 2018-2021 by the seniors of Biotechnology Department on **7th September, 2018**. The main agenda of organizing such an event is to create a fun-filled arena that build confidence and promotes the students to showcase their creativities through an array of cultural programs like ramp walk, traditional, fusion, and western dances including solo & group dancing, exhilarating singing performances (solo & duet), skits, mimicry, and poetry thereby making it a wholesome package of promising talents and

This celebration explores the somewhat hidden talents of not only the freshers but also the existing students and helps in proper mingling of juniors with seniors setting a life-long bond. The celebration started with *Saraswati vandana* and it was eminence for the department to have Mr. Atul Mangal, Chairman and Mr. Anuj Mangal, Vice-Chairman of Mangalmai Institute of Management & Technology along with Dr. (Prof.) K. K. Gaur, Director of Biotechnology as esteemed guests.

Essence of Life

Everyone says life is strange
Though I found it with gaiety and amaze
People may come and people may go
Life is all about to flow
Though we strive to make things work
Many times we cry and many times we jerk
They always say
Don't use your heart, only use your brain
In life there is love, but the more is hate
No one decide, they all hesitate
And who knows the fate
So repel negativity with positivity
And watch life bring every single possibility
And have an attitude for gratitude
And if you want to be happy
You have to be strong
Stop doing the wrong
And never lie
Be ready for your last goodbye

~By Alia Tasneem
B. Sc. Biotechnology (I) year

मिट्टी पे कुर्बान

ऐ मेरे गाँव तेरी मिट्टी पे कुर्बान हूँ मैं,
तेरी गलियों में कहीं अब भी है बचपन मेरा
है कसम तुझको तू लौटा दे बचपन मेरा,
मैं कही भी रहूँ हर साँस यहीं रहती है
ये दायर वो है जहाँ मेरी माँ रहती है,
तेरी खातिर तो वही छोटा सा साकिब हूँ मैं
ऐ मेरे गाँव तेरी मिट्टी पे कुर्बान हूँ मैं

~By Md Sakib Abdulla
B. Sc. Biotechnology (I) year

The event was filled with excitement, music, laughter and happiness. Based on the scintillating performances, Mr. Sakib Abdullah & Ms. Sonia Trivedi were awarded as the Mr. & Ms. Fresher's of the event.



Swachh Bharat Awareness Rally

Organizer: Biotech Cultural Committee

The Department of Biotechnology had organized a rally on "Swachh Bharat Awareness" initiatives on 19th September, 2018. The students were encouraged to prepare posters depicting their notions on the cleanliness drive and were then led by the teachers carrying posters to sensitize the common people about cleanliness.



Colors Channel Talent Hunt

Organizer: Mangalmay Group of Institutions

A Talent Hunt Competition was organized by India's Got Talent Team of Colors' Channel on 16th October, 2018 to encourage the students to come forward and showcase their talents. Many students actively participated in the program showcasing their intrinsic qualities especially in singing including regional & folks, dancing, mimicry, story-telling and stand-ups. An electrifying solo dance performance by Ms. Vaishnav from School of Biotechnology was unanimously appreciated and chosen best by all the viewers and judges of Colors' Channel.



Mehendi Competition

Organizer: Biotech Cultural Committee

Mehendi competition was organized in the Department to showcase the talent of students in Mehendi making held on **26th October, 2018**. This competition is an effort to keep alive this cultural and traditional form of art making where the hands are adorned with mehendi designs. Certificates were provided to the best mehendi designers to boost the exposure and confidence of students engaged in this art form.



Class Representative Selection

Organizer: Dr. Suruchi Khanna- B. Sc. Biotechnology I year
Ms. Sudhanshu Tyagi- B. Sc. Biotechnology II year
Er. Rishi Kumar- B. Sc. Biotechnology III year

Selection of Class Representative (CR) is one of the essential tasks in the academic session conducted by respective class coordinators on **28th August, 2018**. The Class Representative performs the most vital and challenging role in bridging the communication channel between the professors and students including voicing of students' issues. The elected representatives are **Ms. Nishu Aggarwal & Mr. Sakib Abdullah** from first year, **Ms. Aparna Sharma & Mr. Akash Pandey** from second year and **Ms. Priti Kumari & Mr. Sachin Kumar** from final year. The activity was democratically conducted in choosing the most responsible candidates from the respective classes and all of the students actively participated, voted and enjoyed the

Run for Unity- An initiative

Organizer: Mangalmay Group of Institutions

To commemorate the 143th Birth anniversary of **Shri Sardar Vallabhbhai Patel**, the Iron Man of India, a Run for Unity was organized by the Institute on 31st October 2018. It was the beginning of a movement carried forward by the running enthusiasts to sternly belief that a healthy family is much needed to establish a healthy nation.

So, the hidden athletic aspect of all the students along with the faculty members was observed when they actively participated in the run and celebrated the value of fitness with the society. The theme of conducting such an event was solely to promote national unity and integrity in diversity.



Industrial Visits

Codon Biotech Private Limited, Noida

Mentors: Er. Rishi Kumar
Ms. Ankita Swati

In order to address the growing challenges and issues of Biotechnology, the students of the fresher batch were taken for a tour of one of the well established Biotech Companies near the Institute. Codon Biotech Pvt. Ltd. (CBPL) is established in 2007 with an aim to encourage Biotechnology related research and product development in the areas of Agricultural, Microbiological, Industrial and Environmental Biotech. This visit was conducted with the sole objective of motivating and promoting the students towards the growing field of Biotechnology.



National Science Centre, New Delhi

Mentors: Er. Rishi Kumar
Dr. Upama Mishra

For better understanding of science in a fun-loving manner, a Visit to the **National Science Centre** in New Delhi was conducted on **21st August, 2018** for the fresher students of biotech family. This high spirited visit encourages inclination of student towards the field of Science & Technology.



Coca Cola Beverages Limited, Noida

Mentors: Er. Rishi Kumar
Ms. Sudhanshu Tyagi

Industry engagement initiatives, is one of the pillars for the overall development of students. The Department schedules frequent and timely visits to various industrial sectors to enhance exposure of students to actual industrial site. In this chain, an industrial visit to the bottling plant of **Coca Cola Beverages**, Noida was organized on **27th September, 2018**.

The students were provided an insight into the historical background of Coca Cola and briefed about the Processes, Quality Standards and Operations undergone by the plant. This visit provided an enriching experience for the students about the biotechnological applications in the manufacturing and research field of beverage industry and finally students were offered the unboxed products like Thumbs Up, Maaza, Sprite, Fanta, Coke and Kinley at the site.



National Small Industries Corporation (NSIC), Okhla, New Delhi

Mentors: Er. Rishi Kumar
Ms. Ankita Swati

The Department had also conducted an Entrepreneurship cum Industrial Visit to **National Small Industries Corporation (NSIC)**, Okhla in Training-cum-Incubation Centre on **15th October, 2018** for the students. The sole motive of the visit was to create awareness among the students about business developmental skills highlighting the importance of MSMEs in Indian Economy. This live exposure to the various techniques and manufacturing processes surely helped them to enhance their capabilities and incorporate their innovative notions for future growth and development.



Upcoming events

S. No.	List of Activities	Tentative Dates
1	CCS University Exam Form Filling	Start: 25th October, 2018 Last: 15th November, 2018
2	Workshop on CV & Resume writing	7th December, 2018
3	Skill Training Week (B. Sc. II year)	10th -14th December 2018
4	Skill Training Week (B. Sc. III year)	10th -14th December 2018
5	Skill Training Week (B. Sc. I year)	17th -21st December 2018
6	Winter Carnival	18th December, 2018
7	Winter Break	24th december - 15 January, 2019
8	Sports Meet	23rd January, 2019
9	Learning with movies	30th-31st January, 2019
10	Cancer Awareness Campaign	4th February, 2019
11	National Science Day Celebration	28th February, 2019
12	Annual Fest (Zeal)	22nd - 23rd February, 2019

Food for thought

- *Think like a proton & Stay positive.*
- *Science is simply common sense at its best.*
- *Society lives by faith & develops by Science.*
- *Excellence is not a skill. It is an attitude.*
- *Words are finite expressions of infinite mind.*



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