

Workshops

The workshops of Chiasma'18 aim at creating awareness amongst students about various advanced tools and techniques currently used in the field of biology and life sciences. Out of all the four subject areas to be conducted as workshops, students can be a part of maximum of 3 workshops.

1. Biology through a lens

Visualization plays a very important role in research for accurate analysis of biological samples. This is enabled with a variety of instruments. This workshop will enable the participants to have a whole new perspective towards biology and life science. The participants would get to view various biological and chemical samples under different types of microscopes like the fluorescence and electron microscope. Along with understanding the principle and working mechanism, the participants will get to have a hands-on experience for SEM and fluorescent microscope.

2. Chromosomes never lie

Genetics plays an important role in biology in dealing with heredity and passing of traits from one generation to another. This workshop is designed for the students to gain knowledge about various genetic concepts and techniques, which will help in diagnosing various pathological conditions. Participants would learn basic cell culture and metaphase plating with hands on experience in various banding techniques like Geimsa staining and C banding. This would also enable participants to gather knowledge about modern genetic techniques.

3. Decoding life

Macro-molecules have always been a subject of biological research for their behavior and interactions using various techniques and instruments. In this module, the main emphasis will be laid on the study and analysis of proteins using the Western blotting. A complete understanding of its basics and its applications will be covered; followed by a hands-on training. Each and every step will be explained in detail followed by a complete hand-on training.

4. Bio-molecules on fingertips

Bioinformatics is a field that requires understanding and application of different concepts of biology in terms of various programming languages and its tools. This workshop provides basic understanding and makes one realize the importance of bioinformatics and databases. Various nucleotide and protein molecule interactions and various parameters governing it, will be studied through sequence analysis and docking. Discussion will also be done on “requisite” to PCR i.e. Primer design, for the students to gain a clearer vision.

Competitions

Welcome to the world of competitive Biological/Life Sciences. “Chiasma – the Life Sciences Tech-Fest”, Division of Biological and Life Sciences, Ahmedabad University is back again with a freshly abstracted content for micro-pipette associates, Bio-geek enthusiasts and People inebriated with scientific expeditions! This is a new avenue to explore a multitude of events and to apply your technical know-how.

1. Life Sciences Photography - “Portraying vision to visual”

This event comes with “Life Sciences” intricacy which brings photography enthusiasts a unique challenge to show their creative flair in terms of relating Life and Science. This 3-hour event thrives to gain a new perspective towards nature. The idea behind this is to show others how science is around us. Express your ideas and science through the language of frames and clicks and show your “little” world to others.

2. Sci-Toon - “Sketch, draw and design”

The Sci-Toon competition provides the platform for the students to showcase their creative ideas that explain science. This competition brings about an opportunity for students to explore thoughts by creatively applying science to solve the problem. The competition topic will be based on science and related issues. The poster/comic strip can be serious or humorous in correlation to the topic. So we invite artists to prove their potential of innovative thinking and craft out a paper to a masterpiece of art.

3. Quiz - “Think, Pause, Bounce and Compete”

The Quiz competition provides the platform for the students to showcase their valuable inputs through question & answer by thinking beyond the obstacles. Open to all knowledge hunters, bibliophiles and sci-spies, the quiz will be based on science and its related issues. Being a national level event, students from any college or university of India are eligible to participate. Chiasma’ 18 encourages spirit of competitiveness through healthy & fair competition.

4. Poster competition - “Scientific world, cutting-edge research and incisive critics”

This event provides the platform for all aspiring researchers to present their original work on national level. This opens avenues for graduates and post graduates or Ph. D. students,

academicians and industry professionals to experience professional gallery and encourages them to present their finest works. Authors are allowed to present their ideas and views in a standard template describing their theoretical and technical knowledge in the field of Life Sciences. All accepted abstracts will be presented at the poster sessions during the main event.

5. Scientific Writing - “Voice of your opinions”

This event brings about an opportunity for writing enthusiasts to put their scientific views to paper. Everyone thinks of changing the world but don't have the reach and audience. The event clubs scientific ideas with writing skills. You wonder about science, now share it with the world. The idea is to communicate findings, new ideas and science proficiency. We invite youthful minds to show their potential for innovative thinking and bring about freshly brewed contents.

6. Lab Marathon - “Hand to instruments”

The Lab Marathon strives upon evaluating the participants on the basis of their practical knowledge and laboratory skills. Are you curious about paradoxes of science? Do you adore the micro-universes around you? Do you challenge yourself to time battles? Then you are our science guy/gal. The event brings you obstacles challenging your scientific aptitude and expertise at every level. This includes twists at every step along with relays of various biological experiments. Get set go !!!

7. Start-up ideas – Bring out the entrepreneur in you

CHIASMA 2018 presents Venture Studio-BioNest Startup Competition (University Edition)

Ahmedabad University Venture Studio invites applicants for a startup competition in the area of medical devices through its BIRAC Supported BioNest program. The applications from budding entrepreneurs are invited strictly in the areas of interest to AU Bioincubator. The winner of the competition will be awarded a prize of INR 15,000. In addition the first place and the runner up applicants will be given a direct entry to the final round in the call for Incubation of BioNest (in June 2018). The competition is open to all stages of development from idea to prototype.