

Department of Bioinformatics, Alagappa University

Departmental Best Practices

The Department of Bioinformatics (DBI) in Alagappa University, has imbibed the following of best practices in pursuit of achieving excellence in both academic and administrative regards. Various processes are regularly followed by the students, research scholars and faculty members to streamline their administrative and academic workflows that would certainly prove to be successful in the longer run for the Department. These best practices range from Yoga Training, E-Book Resources to Social Media Platforms etc.

Digital E-Book Library Resource and Faculty Presentation Materials

The DBI has established a Digital E-Book library for the effective Teaching Learning process for both faculty and student community. There are more than 1700 E-Library books which can be accessed through this server. This platform also allows for students, research scholars and faculty to access reading materials and class presentations to prepare for their lectures and examinations, without any time or location constraints.

Bioinfo Nexus (BINX): <http://172.23.7.40>

The screenshot displays the homepage of the Bioinfo Nexus (BINX) website. At the top, there is a dark green header with the Department of Bioinformatics logo on the left and a portrait of a faculty member on the right. The header text includes 'Department of Bioinformatics', 'ALAGAPPA UNIVERSITY', and accreditation details: 'State University | A+ Grade by NAAC (CGPA:3.64) in the Third Cycle | Category- I University by MHRD- UGC', 'Karakudi- 630 003, Tamil Nadu, India'. Below the header, the main content area features a search bar with 'Google Search' buttons. The page is organized into several columns of links: 'In-house Databases' (Scientific Databases, Tools and Softwares, E-Book Database, In-house Protein DataBank), 'Course Materials' (Class Presentations), 'Course Syllabi' (DBI MSc Course Description, DBI MPhil Course Description, DBI PhD Course Description, DBI PhD Entrance Model Paper, DBI PGDSE Course Description), 'Symposium / Conference / Seminar / Workshop Details' (View Details), 'Resource Databases' (Drug Molecule Database), 'Software Packages' (Software for Windows, Software for Linux), and 'Department Facilities' (Facilities). At the bottom, there is a 'Visitors Count' section and a footer with copyright information: '© 2011 Prof. J. Jayakanthan, Department of Bioinformatics, Alagappa University, Karakudi' and 'Developed and Maintaining by R. Sarinosh and M.S. Mahalingam'.



ALAGAPPA UNIVERSITY

State University | A+ Grade by NAAC (CGPA : 3.64) in the 3rd Cycle | Category - I University by MHRD - UGC
Karaikudi-630006, Tamil Nadu, India



University Departments E-Book Database



E-Library Learners Sustain
DEVELOPED AND MAINTAINED BY
Department of Bioinformatics
(UGC-Innovative, DST-FIST, PURSE and DBT-BIC & NNP Supported Department)

Wormly welcome to visit our E-Library Database, This E - books database was developed and maintained by Department of Bioinformatics, Alagappa University, Karaikudi.

Visitors Count: 286

[CLICK HERE](#)

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Developed and Maintaining by M.S.Mohana

Class Presentations

Prof. J. Jayakanthan	Prof. Sanjeev Kumar Singh	Dr. M. Karthikeyan	Dr. RM. Vidhyavathi	Dr. J. Joseph Sahayarayan	Dr. P. Boomi	Dr. V.K. Lingeswaran	Videos
ab_intro_11.pdf biological_gene_and_protein_networks_11.pdf comparative_modelling.pdf cell.pdf crystal.pdf matrices_final.pdf message_dialogs.pdf outline_of_java.pdf proteomics_11.pdf prog_graphics.pdf prog_algorithms.pdf prokaryotes_eukaryotes.pdf proteins_11.pdf ramachandran_plot.pdf statements_and_expressions.pdf xsd_11.pdf bond_structure_and_angle.pdf confex.pdf eigen_values_and_vectors.pdf force_field.pdf gene_therapy_11.pdf hybridization.pdf protein_complex_11.pdf trans.pdf yeast_expression_system_11.pdf	502101 - introductory bioinformatics.pdf 502203 - molecular modeling and pharmacoinformatics.pdf 502304 - computer aided drug design.pdf 505102 advances in bioinformatics.pdf 505104 research area specialization.pdf	mass_spectrometry.pdf metabolic_networks.pdf pharmacogenomics_11_msc protein_microarray.pdf small-world_network.pdf statistics_1_msc metabolic_network.pdf microarray_data_analysis.pdf systembiology.pdf	c_programs_lab_manual.pdf c++_pdf mysql-perl_mar-3-2017.pdf perl-2017.pdf visual_basic_lab_manual.pdf java.pdf	biomembrane.pdf biomolecules_important.pdf central_dogma_of_sequences.pdf computational_biology equilibrium_and_free_energy change.pdf elucidation_of_metabolic_pathway.pdf enzymes_catalysis.pdf glycolysis.pdf genomics_proteomics glycoproteins.pdf ipr kreb_cycle.pdf lipids m_phil michaelis_menten - pdf molecular_cell_biology & genetics nucleotides photosynthesis.pdf principles_of_bienergetics.pdf oxidative_phosphorylation.pdf secondmessenger2010.pdf water-solublevitamins.pdf	computational_biology.pdf research_area.pdf	2016502001-genemark.pdf 2016502002-gene_discovery.pdf 2016502006_hidden_markov_model.pdf 2016502007- gene_discovery_using_fourier_analysis.pdf 2016502010-genescan.pdf an_efficient_index-based_protein_structure_database_searching_method.pdf basic_protein_structure_and_stability.pdf electrophoresis.pdf glp.pdf I2_protein_structure.pdf mads_1.pdf mads_2.pdf nucleic_acid_chemistry.pdf polyacrylamide_gel_electrophoresis page.pdf lab_safety_ppt-1.pdf lab_safety-2.pdf lab_safety_3.pdf	a_basic_introduction_to_drugs-drug_targets-and_molecular_interactions.mp4 column_packing.3gp crystalgrowth.3gp lysozyme_crystallization.mp4 lysozyme.3gp scientific_animations_and_visual_effects_by_schrodinger.mp4

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Developed and Maintaining by Prof. J. Jayakanthan and R. Sathish

Students' Presentation

The Department of Bioinformatics offers an innovative learning system which includes the Journal Club, helping students understand the importance of evidence-based research practices and the impact of Good Laboratory Practices (GLP) in Research. Students are encouraged to select a paper of their own interest to share in the Journal Club. It encourages active, student-centred learning rather than traditional faculty-mediated learning. Students are encouraged to question whether a certain research practice might actually be the best option for a given problem, based on recent developments in that particular field of research. This critical thinking skill is necessary for students, research scholars and faculty members to embark upon their future research ventures.



Remedial Classes

The principal motto of remedial classes across the world, is to help the students improve their ability to learn, understand and master difficult scientific concepts. They are organized to achieve the competencies that are expected from students present in a certain grade or standard. Since 2010, the Department of Bioinformatics, has been conducting remedial classes every year for the students, to expose them to knowledge from various backgrounds and to improve the quality of teaching and research. These classes are planned during the afterhours of the office hours and before the commencement of regular classes. For the classes, the students were separated into two groups namely, the slow learners and the advanced learners. The groups were created based on the performance of the students in the classes, academic track records and their performance in the internal examinations in various disciplines, that were conducted by the department during the course of the academic year. These kinds of activities are helpful to the students to recognize their strengths and weaknesses of their understanding of important topics.

Teaching-Learning Methods

The DBI offers effective Teaching-Learning Methods (Experimental Learning, Group discussions, Student Presentations and Invited Lectures by research scholars and resource persons from other institutes) for the students to develop Latest Skills, Knowledge, Attitude, and Values to shape their behaviour and influence their personality through a positive approach. This method is also used to stimulate students' creativity and provide a constructive platform to develop their problem-solving skills and ensure participatory learning. The Faculty Members put a lot of effort in their quest to achieve these core competencies in students through these student-centric methods.



Yoga Training

The Department of Bioinformatics is organizing Holistic Yoga practice sessions for the student community every year for the benefit of their overall Physical and Mental Health. During these sessions, the students are also offered advice on maintaining their mental peace, personality development, dealing with pessimism and failure, etc.



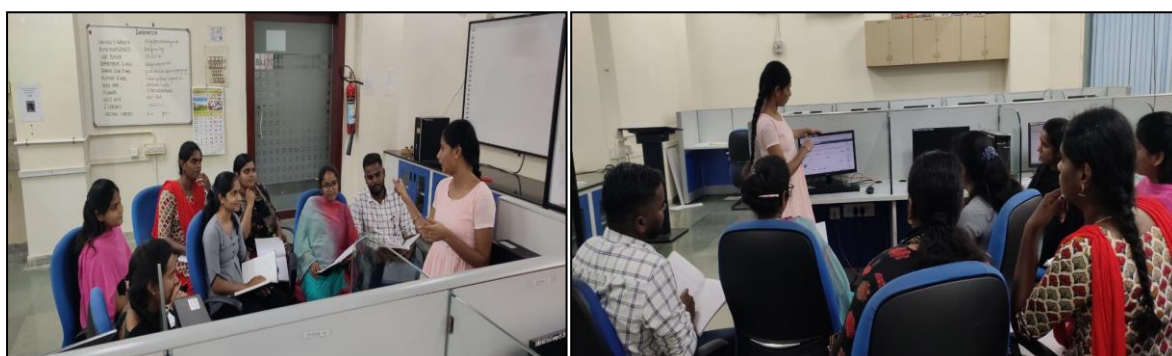
Experimental Learning

The Department of Bioinformatics has been conducting hands on training sessions for the students to improve their observation skills, creativity, critical thinking and develop essential laboratory manipulation skills in arranging and handling different apparatus and equipment.



Group Discussion

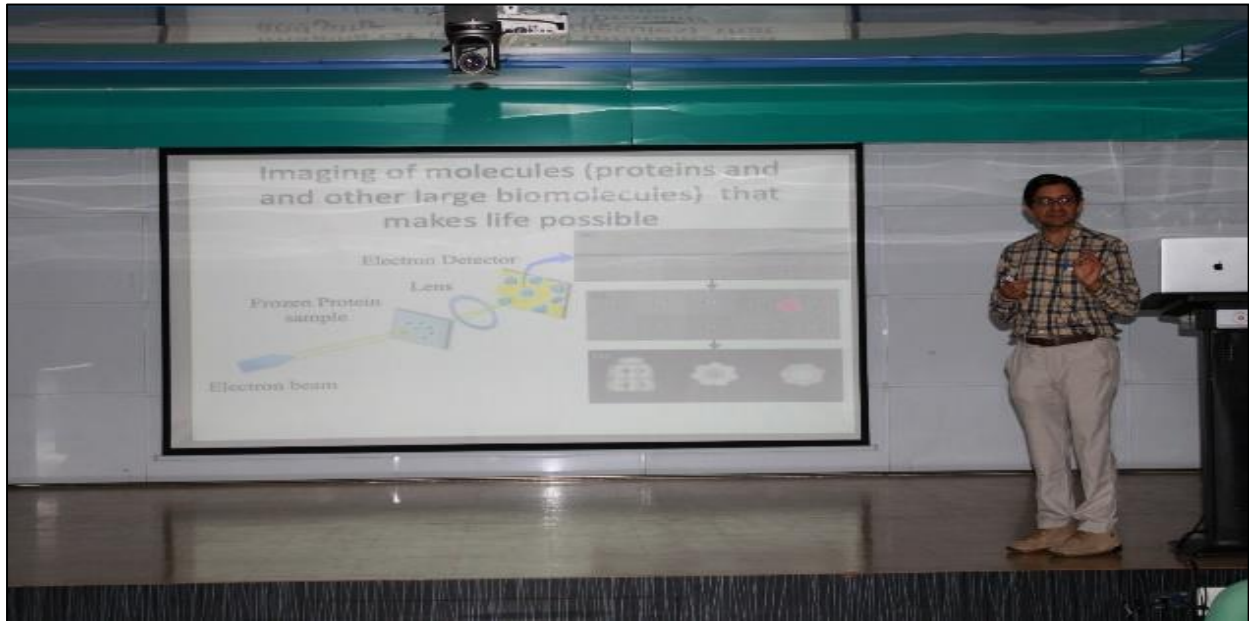
In this type of student-centric method, students engage in discussion to generate various ideas about a certain topic, so that it enhances the perspective and creative thinking of the students participating in these discussions. Throughout this discussion, a plethora of ideas are exchanged between the students and research scholars on how to encounter a particular problem or issue regarding topics such as Computer Aided Drug Design for a particular bacterial or viral or genetic disease. These discussions encourage the growth of thinking and research aptitude skills.



Invited Lecture

The Department of Bioinformatics also offers the possibility of enhancing student learning to gain more knowledge as well as other innumerable benefits that can help students learn from a different perspective and more effectively from a Subject Matter Expert from an esteemed institute. In this regard, the Department of Bioinformatics regularly invites renowned resource persons from various prestigious institutes to teach

the students and research scholars on a plethora of different topics to further enhance their knowledge and understanding.



Prof. Ramanathan Natesh, School of Biology and Centre for High Performance, Indian Institute of Science Education and Research (IISER), Thiruvananthapuram, Kerala.

Digital communication Media for Students and Research Scholars to Promote an Environmentally Sound and Productive Organization

The Department of Bioinformatics has created a cross-platform messaging service for a paperless mode of communications through WhatsApp and Y-LIFT for faculty members, students, administrative staff and other Departments to quickly and easily transmit official information related to the Departmental activities such as Class Schedules, Upcoming Assignments, Books Materials, Examination schedules, Class Presentation Videos, Audios, and other important information. This practice not only ensures that passing information takes place quickly, but it also reduces the need for paper in academic environments. In addition, digital communication paves way for easy access of data through digital transaction of information.

DBI-Academics

DBI M.Sc. 1st Year: 2023-25
Dr., Dr., Dr., Dr.Karthikeyan, Ganapathy, Mrs., Padmini,...

+91 96773 99947
Good Evening Bioinformati WEDNESDAY

I'm extremely overwhelmed to share with you that my patent titled "An apparatus for collecting tree sap" has finally been granted .

This work started during my UG days. The design was patented, aiming prevention of tree sap from all sorts of external disturbances especially focussing on Bat () contamination which could potentially lead to viral outbreak like Nipah.

Regards,
Vaishnav P Varma
Edited 8:50 pm

+91 96773 99947

Patent Grant Certificate- Vaishnav P Varma .pdf
1 page • PDF • 2 MB

DBI M.Sc. 1st Year: 2023-25
Group · 39 members

Add group description
Group created by Mrs. Sudha Registrar Section, on 12/06/2023 at 5:50 pm

Media, links and docs 91 >

DBI-Research Scholars

The screenshot shows a WhatsApp group chat interface. At the top, the group name is 'DBI-PhD_Research Scholar' with members listed as 'Amala, Anushka, Bala, Dr., Dr., Dr., Dr., Dr., Dr.Karthikeyan, Ka...'. The chat history shows a date separator for '14/02/2024'. A message from 'Dr. P. Boomi Asst. Professor' is forwarded, containing a PDF document (108 kB) and a text message: 'Good Moring to all, I hope this message finds you well. As per the direction of the Head of Department (HOD), I am pleased to inform you that the revised schedule for upcoming Journal Club meetings is attached here. We encourage all participants to thoroughly prepare for their presentations to facilitate engaging and insightful discussions. Thank you'. The chat input field at the bottom shows '+ Type a message'.

Group Info Panel:

- Group name: DBI-PhD_Research Scholar
- Members: Group · 37 members
- Description: Add group description. Group created by Dr. RM. Vidhyavathi, on 11/03/2022 at 12:24 pm.
- Media, links and docs: 54 >
- Starred messages: >

DBI-Club Activities

The screenshot shows a WhatsApp group chat interface. At the top, the group name is 'DBI-CLUB-ACTIVITY' with members listed as 'Amala, Arghyadeep, Bala, Dr., Dr., Dr., Dr., Dr.Karthikeyan, +F...'. The chat history shows a date separator for '10/02/2024'. A message from 'Dr. P. Boomi Asst. Professor' contains a PDF document titled 'Walk-in Interview Advertisement for JRF-Project Fellow.pdf' (455 kB) and a date separator for '14/02/2024'. Below this, a message from 'Dr. S K S' contains a text message: 'Walk in interview for the post of Project fellow in TANSCHÉ Project on 23rd Feb, 2024 at 11 am in Department of Bioinformatics, Alagappa University, Karaikudi. Eligible students are encouraged to apply for the same.' and another PDF document titled '1707389866Prof.SKS_TANSCHÉ_P F -Advertisement.pdf' (231 kB). The chat input field at the bottom shows '+ Type a message'.

Group Info Panel:

- Group name: DBI-CLUB-ACTIVITY
- Members: Group · 69 members
- Description: Add group description. Group created by Dr. RM. Vidhyavathi, on 21/04/2023 at 10:37 pm.
- Media, links and docs: 37 >
- Starred messages: >

DBI-Alumni

DBI-Alumni-ALU-2008
Arathy, Bala, Balajee, Dr., Dr., Dr., Dr., Dr., Dr., Dr.Karthikeyan...

Dr. RM. Vidhyavathi added Dr. Mrs. Sasikala Dr. PS Student

Notification_PhD_Viva_Voce_Amal a.pdf
1 page • PDF • 2 MB
5:00 pm ✓✓

Notification_PhD_Viva_Voce_Saritha.pdf
1 page • PDF • 2 MB
5:37 pm ✓✓

Dear Students

This is to inform you that two PhD students delivering PhD viva-voce examination on 11/01/2024 and 12/01/2024. I request you all to attend viva-voce examination.
Thank you
JJ
5:41 pm ✓✓

Group info

DBI-Alumni-ALU-2008
Group · 97 members

Add group description

Media, links and docs 82 >

Starred messages >

Mute notifications

DBI-Faculty Members

DBI-Faculty-ALU
Dr., Dr., Dr., Dr., Dr., Dr.Karthikeyan, Mrs., You

department will be scheduled for thorough verification by committee members. Subsequently, the finalized profiles will be uploaded to the university website.

Feel free to reach out for any additional clarifications or discussions etc., .

Note:
IQAC is plann...Read more
9:02 pm ✓

29/02/2024

Mrs. Sudha Registrar Section

You
Dear Colleagues
Good morning
Kindly conduct the both internal ...
Reminder
11:06 am

Dr. RM. Vidhyavathi
Dear Professors and colleagues,
As per the direction, I would like to bring to your kind attention that, inform you that, Internal complaints committee meeting for our Teaching and Non Teaching Facuties, all students, and sweepers is scheduled on 4th March 2024 at 11.30am in the our Conference Hall. Kindly request your presence for the meeting. Thank you.
12:35 pm

Group info

DBI-Faculty-ALU
Group · 8 members

Add group description

Media, links and docs 67 >

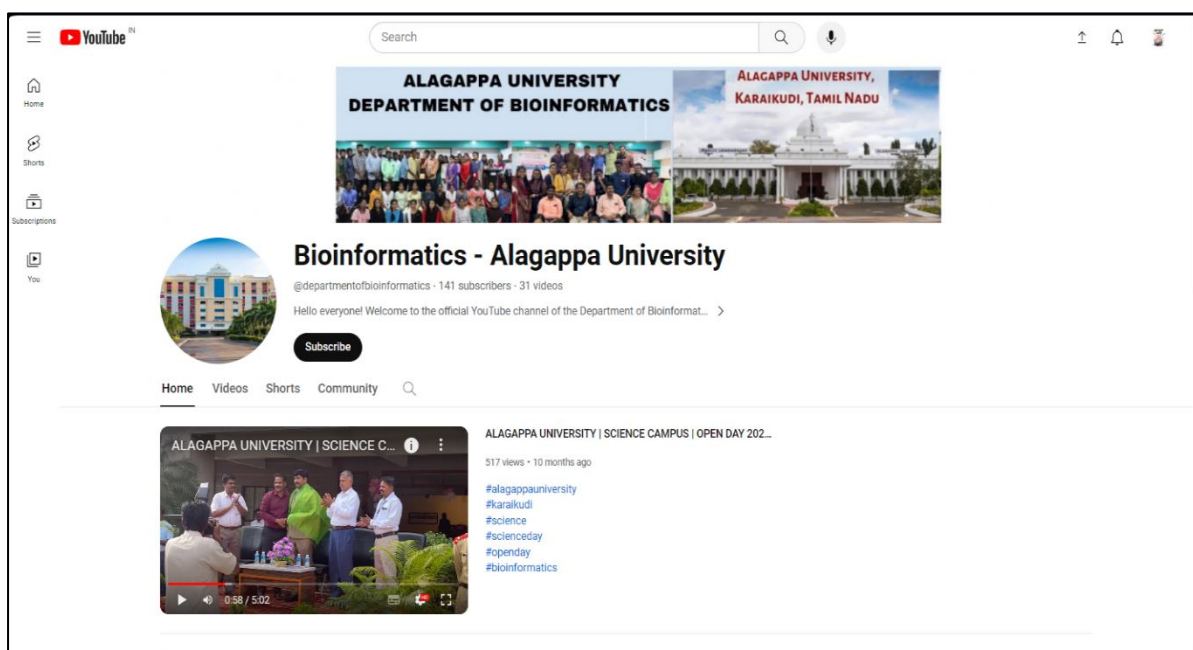
Starred messages >

Mute notifications

Social Media Platforms (Y-LIFT)

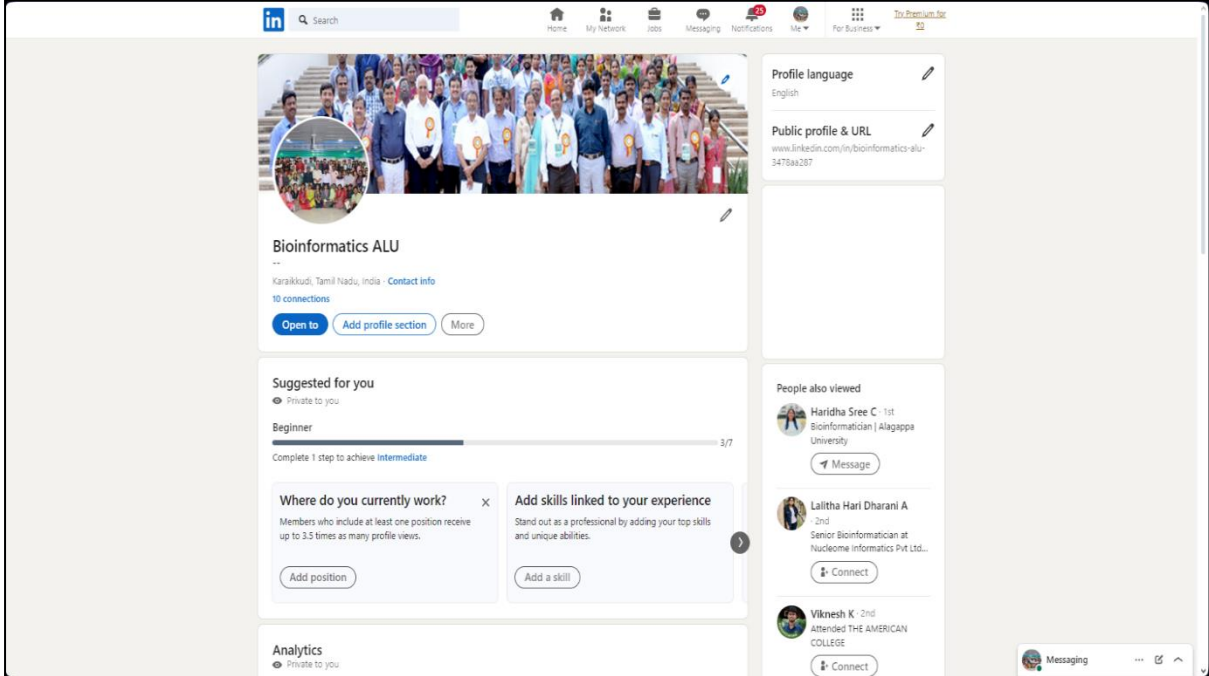
To stay updated with social media networking, the DBI at Alagappa University has established a presence on platforms including YouTube, LinkedIn, Instagram, Facebook, and Twitter (At present: X) **(Y-LIFT)**. The primary goal of this is to network and interact with Global researchers, Academicians, Industries and Alumni to share updates about the departmental Research Activities. Notifications related to Admissions, Fellowships, Conferences, Research collaboration invitations and Job opportunities are also regularly shared with our online community. Departmental events, such as Class presentations, Livestream instruction, Journal Club presentations, Research Presentations, etc., are posted periodically on these platforms in an effort to attract students from across the world interested in research or higher education in Structural/Computational biology. The DBI at Alagappa University has continuously shared these activities in their social media platforms, and it is certain that this has improved and will continue to increase students' and researchers' knowledge of career guidance, research prospects, international networking, and cross-cultural interactions in Bioinformatics.

YouTube (<https://youtube.com/@departmentofbioinformatics>)



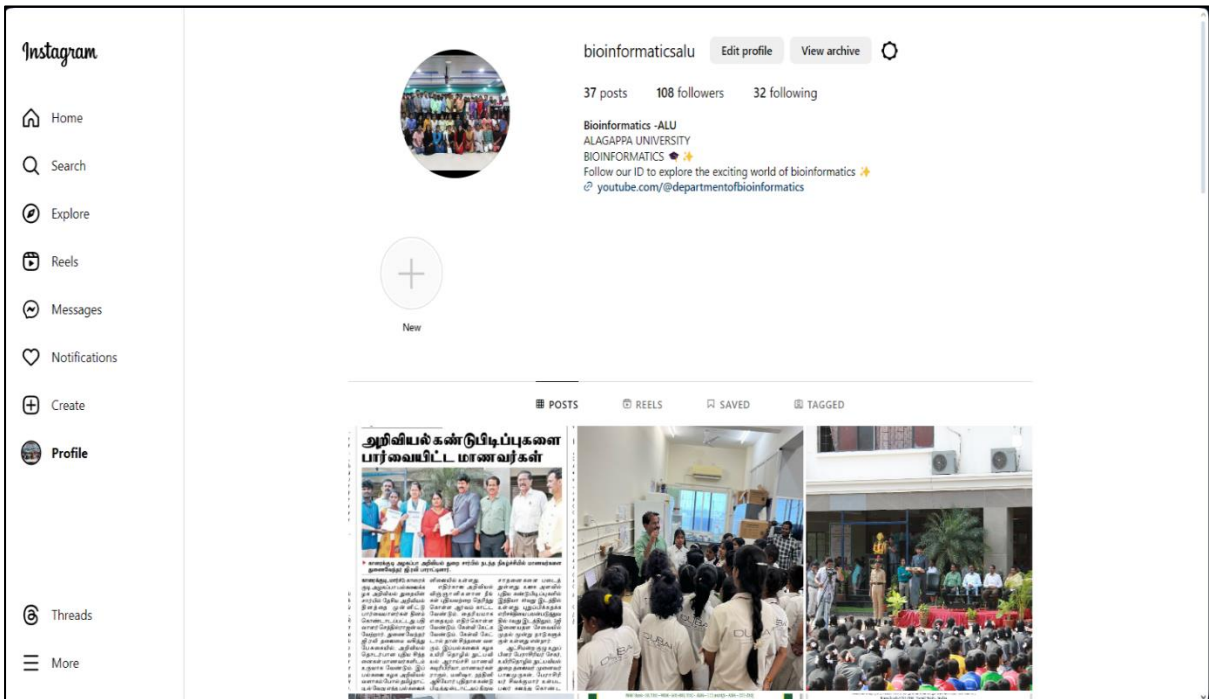
LinkedIn

<https://www.linkedin.com/company/department-of-bioinformatics-alagappa-university/>

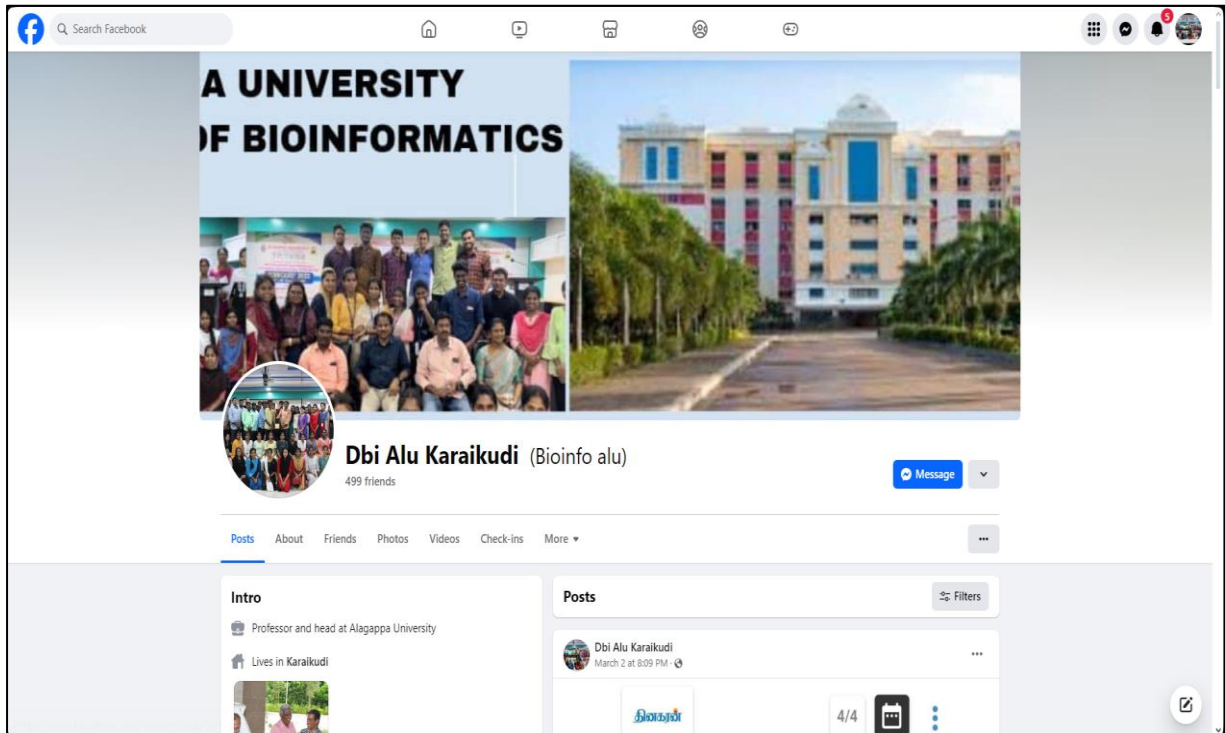


Instagram

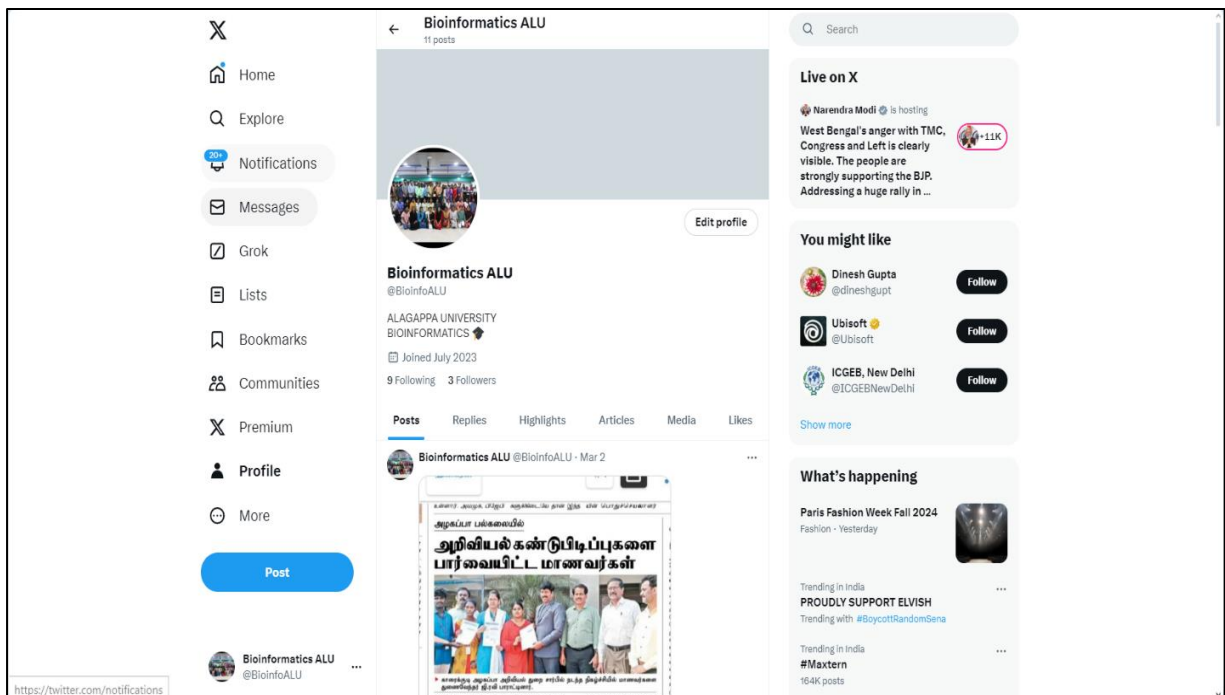
<https://instagram.com/bioinformaticsalu?igshid=MjEwN2IyYWYwYw==>



Facebook (<https://www.facebook.com/Bioinformatics.ALU?mibextid=LQQJ4d>)



Twitter (Currently Known as X) (<https://twitter.com/bioinfoalu?s=21>)



Bioinformatics and Drug Discovery Society (BIDDS)

The Bioinformatics and Drug Discovery Society (BIDDS) was established in the year 2017, as an Indian Academic Society for Bioinformatics, Computational Biology and Drug Discovery. With Bioinformatics becoming an indispensable part in Biological Research, an Academic society would be instrumental in recognizing eminent scientists and academicians for their contributions to Bioinformatics. This Society has been serving as a platform for Research in Bioinformatics and. The esteemed members of the BIDDS organize together every year to discuss recent advancements in the fields of Computational Biology and Bioinformatics. To supplement this gathering, Workshops, Symposiums and Conferences are also arranged for Students, Research Scholars, Academicians and Researchers to participate and engage in. During these events, students are given opportunities to interact with scientists from various fields of research to exchange ideas and present their own scientific studies to critically analyse it. This allows for students to get recognized for their research works and BIDDS has been working diligently to recognize their achievements. This society acts as an inspiration and a learning hub for young researchers to further explore research in these disciplines. The website for BIDDS can be accessed through the following hyperlink for further information: <https://www.bidds.org/index.html>.



[BIDDS Annual Awards Application/Nomination for the year - 2023. The Last date for the Submission has been extended to 15th](#)

News & Notification

Bioinformatics and Drug Discovery Society (BIDDS)

- Registration open for Student Membership in Rs. 500 only.
- Click here to fill the Google form for the membership.
- Bioinformatics and Drug Discovery Society - [BIDDS] has been registered successfully on

Bioinformatics and Drug Discovery Society (BIDDS) is an Indian academic society for Bioinformatics, Computational Biology and Drug Discovery. It has been registered under **the rule 8 of the Tamil Nadu society's registration Act, 1975**. In recent days, bioinformatics has become indispensable in life science research. Buoyed by the success of rational drug design and the new challenges posed by the emerging resistant and infectious diseases has compelled the researchers to enhance bioinformatics application for accelerating drug discoveries. It is in this backdrop with the idea of establishing a stage for scientists, academicians, researchers and students that will bring them closer to discuss, find scientific solutions in designing new drugs using advanced computer aided technology, was proposed by **Dr. S. Subbiah, Vice-Chancellor, Alagappa University** at University's Bioinformatics department during the **9th National symposium-cum-workshop on "Recent trends in structural bioinformatics and computer aided drug design"**. The society will serve as a platform for dissemination of scientific knowledge and function as a central hub between bioinformatics, biological sciences and other allied life

