


Notice and Brochure

Hindi Vidya Prachar Samiti's
 Ramniranjan Jhunjhunwala College of Arts, Science & Commerce (Autonomous)
 Ghatkopar (W), Mumbai-400 086.

DEPARTMENT OF ZOOLOGY AND BIOTECHNOLOGY
 INTERCOLLEGIATE DBT STAR COLLEGE ACTIVITY



A Two Day Workshop On
'Morphological and Molecular classification'

Department of Zoology and Biotechnology is jointly organising a Two-Day Workshop on 'Morphological and Molecular classification' for Undergraduate students of Science faculty.

Schedule of the workshop:

09th January 2021: Guest lecture by Ms. Nidhi Wadke from BNHS on
 "Morphological classification of bugs and beetles"

- Day: Saturday
- Time: 4pm
- Meeting ID: 6999564174
- Password: zoology

Student activity: The participating students should click a picture of a bug or beetle in their surroundings (no internet pictures allowed), classify it and upload in the link given below
<https://forms.gle/soGULZ9KG49ZVIGGy6>

16th January 2021: Guest lecture by Dr. Venuprakash Bastilar from Amity University on "Molecular Phylogenetics"

- Day: Saturday
- Time: 9pm
- Meeting ID: 6999564174
- Password: zoology

Student activity: Sequences will be provided for Multiple Sequence alignment and Phylogenetic tree.

- ✓ Further details about the activities would be explained during the respective sessions
- ✓ E-Certificates will be issued to all participants on successful submission of assignments.

Brochure of the workshop on "morphological and molecular classification"; Workshop was jointly organised by Departments of Biotechnology and Zoology on 9th and 16th January 2021.

ssyogwalke



[Signature]
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RAMNIRANJAN JHUNJHUNWALA COLLEGE
 OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)
 Ghatkopar (W), Mumbai-400 086, Maharashtra, INDIA

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R. J. COLLEGE of Arts, Science & Commerce (AUTONOMOUS)

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Website: www.rjcollege.edu.in

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Tel No: +91 22 25151763

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College is recognized under Section 2(f) & 12(B) of the UGC Act, 1956

Affiliated to UNIVERSITY OF MUMBAI || NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

Capability Development & Skill Enhancement activity organized for improving student capabilities (Awareness of Trends in Technology)

DBT STAR COLLEGE ACTIVITY-INTERDEPARTMENTAL ACTIVITY

Intercollegiate Two days workshop on morphological and molecular classification

Date:

Saturday, January 9th 2021, Time: 4:00 PM- 5:00 PM,

Saturday, January 16th 2021, Time: 4:00 PM- 5:30 PM

Resource Person: Ms.Siddhi Wadke from BHNS, Dr. Virupaksha Bastikar from Amity University

Students Benefited: FYBT, SYBT, TYBT

Number of students Benefited: 71 (11 Students from Six other Colleges and 60 in house) participated

Number of Teachers Involved: 15 -

BT -Dr. Sucheta Golwalkar, Dr. Smruti Thombare, Dr. Rachana Acharya, Dr. Tania Karipel, Saleha Khan, Dr. Namrata Parab, Smita Jadhav, Jasvinder Kaur

Zoology- Dr.Bindu Achary, Dr. Janhavi Bhagwat, Mr. Deepak Poojary, Mrs. Sanika Gupte, Mr.Sagar Gavas, Geeta Joshi, Sushma Singh.

REPORT:

DBT star scheme event - interdepartmental activity - Departments of Zoology and Biotechnology organised a 2 days' workshop on "Morphological and molecular classification" on 9th and 16th



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Jan 2021. The resource persons were Ms. Siddhi Wadke from BNHS and Dr. Virupaksha Bastikar from Amity University. 71 Students -11 Students from Six other colleges and 60 in-house students from Biotechnology Department and Zoology Department attended and participated in the workshop.

On 9th Jan, Ms. Siddhi Wadke discussed “morphological classification of bugs and beetles” and explained the need of classification, properties of arthropoda phylum, and different classes of the same phylum.

Students participated in the activity of clicking and uploading the picture of bugs or any beetle in their surroundings and classifying them.

Dr. Virupaksha Bastikar on 16th January 2021 delivered a lecture on “Molecular Phylogenetics”. Dr. Virupaksha Bastikar, in an very articulate and students-amiable session explained to students about various aspects of a database, difference between annotated and unannotated databases, tools that can be used for multiple sequence alignment, how to infer a phylogenetic tree to establish the evolutionary relationship among organisms.

Following the “To learn by doing” approach, Students were given a query of multiple sequence alignment. Students attempted the assignment and answered the questions related to given sequences and phylogenetic tree.




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List of Students from other Colleges: Intercollegiate Two Days workshop on morphological & molecular classification

Name of the student	Name of the College
Gunjan Pradeep Bharambe	B. K. Birla college (Autonomous), Kalyan (W.)
Anushka Vijay Ahire	B.K.Birla College of Arts Science & Commerce, Kalyan
Bhavika vaidya	Bhavans College, Mumbai
Marothiya Priya Mahesh	Bhavans College, Mumbai
Sonal karbhari Aherkar	Bhavans College, Mumbai
Chahat Yadav	D.G. Ruparel College of Arts, Science & Commerce, Matunga
Manali Balu Patil	D.G. Ruparel College of Arts, Science & Commerce, Matunga
Sakshi Surendra Tawde	D.G. Ruparel College of Arts, Science & Commerce, Matunga
Momin madiha Abdul kalam	GM Momin women's college, Bhiwandi
Nihar Mahendra Nikalje	ICL'S Motilal Jhunjhunwala college vashi
Akanksha Joshi	KC College, Mumbai




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List of In-House students: Intercollegiate Two Days workshop on morphological & molecular classification

Name of The Student	Subject	Class
Kulsum Bano Ramzan Ali Shah	Biotechnology	SY
Abhishek Rajaram Randive	Biotechnology	T.Y
Abhishek Rammurat Varma	Biotechnology	SY
Aditi Anup Madathingal	Biotechnology	FY
Aditi Rajendra Koyande	Biotechnology	TY
Akshita Rajanbabu Nadar	Biotechnology	SY
Amina Khatoon Khalkhullah Rahamani	Biotechnology	SY
Anam Fatima Khan	Biotechnology	SY
Ankitkumar Mahendraprasad Yadav	Biotechnology	T.Y
Ayasha Khan	Biotechnology	TY
Dongre Shrutika Nitin	Biotechnology	TY
Ganesh Maurya	Biotechnology	SY




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List of students attended: Intercollegiate Two Days workshop on morphological & molecular classification

Name of The Student	Subject	Class
Gupta Anchal Pradeep	Biotechnology	F. Y
Isha Vishwakarma	Biotechnology	TY
Jaiswal Umesh Omprakash	Biotechnology	FY
Jasmine Hamid Shaikh	Biotechnology	F. Y
Jyoti Narad Sahani	Biotechnology	TY
Kajal Ishwar Chavan	Biotechnology	T.Y
Kajal Pathak	Biotechnology	SY
Kalekar Vaishnavi Vitthal	Biotechnology	F.Y
Khan Shahin Fasiullah	Biotechnology	T.Y
Krishna Shukla	Biotechnology	SY
Manasi Ambhore	Biotechnology	SY
Nandini Prajapati	Biotechnology	SY




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Nandini Vats	Biotechnology	FY
Neha Jaiswar	Biotechnology	SY
Omkar Varhadi	Biotechnology	SY
Oza Preeti Kaushal	Biotechnology	TY
Pallavi Maruti Waghmare	Biotechnology	TY
Pampottithara Merin Antony	Biotechnology	TY
Pingale Divya Vijay Nilesa	Biotechnology	TY
Preeti Bhardwaj	Biotechnology	SY
Priya Tripathi	Biotechnology	TY
Priya Verma	Biotechnology	SY
Ritu Rajendrakumar Dalvi	Biotechnology	SY
Sakshi Sunil Gunjal	Biotechnology	FY



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Sejal Maurya	Biotechnology	SY
Shilpa Pathak	Biotechnology	TY
Shravani Lawoo Koyande	Biotechnology	SY
Shreya Sunil Dubey	Biotechnology	TY
Shriya Surendra Yadav	Biotechnology	TY
Singh Aakanksha Shivshankar	Biotechnology	TY
Singh Anita Surendra	Biotechnology	F.Y
Singh Mahee Chandrabahadur	Biotechnology	TY
Urvi Rahul Phalke.	Biotechnology	SY
Vaishnavi Menon	Biotechnology	TY
Vinayak Sanjay Patil	Biotechnology	SY
Vishwakarma Riddhi Bharat	Biotechnology	TY




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Aadarsh Prashant Gupta	Biotechnology	FY
Sayali Gabhale	Biotechnology	TY
Akanksha Ghogale	Zoology	T.Y
Ansari Ruksar Zakir	Zoology	T.Y
Ansh Sanjay Vishwakarma	Zoology	S.Y
Chempakamangalam Shreya Sanal	Zoology	TY
Hindavi Desai	Zoology	TY
Iqra Kulsum Hafizur Rehman	Zoology	F.Y.B.Sc
Khan Seema Iftekhar	Zoology	SY.BSC
Mohammed Irshad Iliyas Khan	Zoology	SY
Om Manoj Yadav	Zoology	FY
Shivani Ashok Waykar	Zoology	S.Y



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Screenshot of DAY I of the workshop on "morphological and molecular classification"; Lecture by Ms. Siddhi Wadke from BHNS on "morphological classification of bugs and beetles". Workshop jointly organised by Departments of Biotechnology and Zoology on 9th and 16th January 2021.




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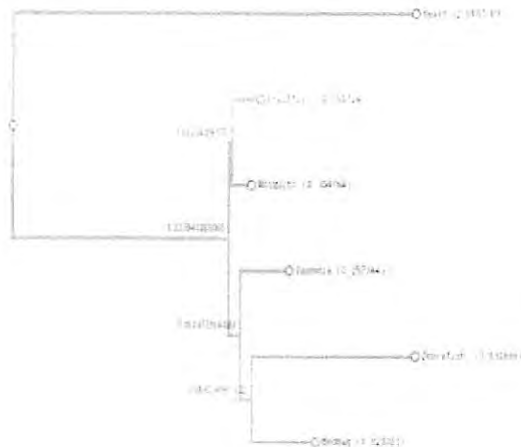
WORKSHOP ON MORPHOLOGICAL AND MOLECULAR CLASSIFICATION

DEPARTMENT OF BIOTECHNOLOGY AND ZOOLOGY
(DBT STAR COLLEGE ACTIVITY, 2020-21)

HANDS ON SESSION ON

Multiple Sequence Alignment & Phylogenetic Tree

MOLECULAR CLASSIFICATION USING PROTEIN SEQUENCES



Screenshot of Students activity on DAY II of the workshop on "morphological and molecular classification"; Hand on Session on "Multiple Sequence Alignment and interpretation of Phylogenetic Tree"

Workshop jointly organised by Departments of Biotechnology and Zoology on 9th and 16th January 2021.



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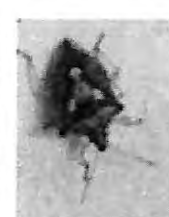
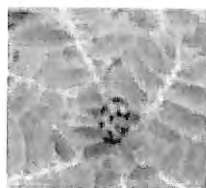
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MORPHOLOGICAL CLASSIFICATION OF BUGS AND BEETLES



Kingdom: Animalia
 Phylum: Arthropoda
 Class: Insecta
 Order: Coleoptera
 Family: Curculionidae
 Genus: Curculio
 Species: C. septempunctatus

Kingdom: Animalia
 Phylum: Arthropoda
 Class: Insecta
 Order: Coleoptera
 Family: Curculionidae
 Genus: Curculio
 Species: P. brassicae

Kingdom: Animalia
 Phylum: Arthropoda
 Subphylum: Hexapoda
 Class: Insecta
 Order: Lepidoptera
 Suborder: Glossinera
 Infraorder: Terebrantia
 Family: Tortricidae
 Subfamily: Tortricinae
 Genus: Mythimna
 Species: M. moratellus

Kingdom: Animalia
 Phylum: Arthropoda
 Class: Insecta
 Order: Coleoptera
 Family: Curculionidae
 Genus: Curculio
 Species: C. majus

Kingdom: Animalia
 Phylum: Arthropoda
 Class: Insecta
 Order: Coleoptera
 Family: Curculionidae
 Subfamily: Diaprotinae
 Tribe: Sitonini
 Genus: Sitophilus

Kingdom: Animalia
 Phylum: Arthropoda
 Class: Insecta
 Order: Coleoptera
 Family: Curculionidae
 Genus: Curculio
 Species: C. majus

Screenshot of students activity of pictures of bugs and their classification shared by students; Displayed on DAY I of the workshop on "morphological and molecular classification" as student activity.
 Workshop jointly organised by Departments of Biotechnology and Zoology on 9th and 16th January 2021.



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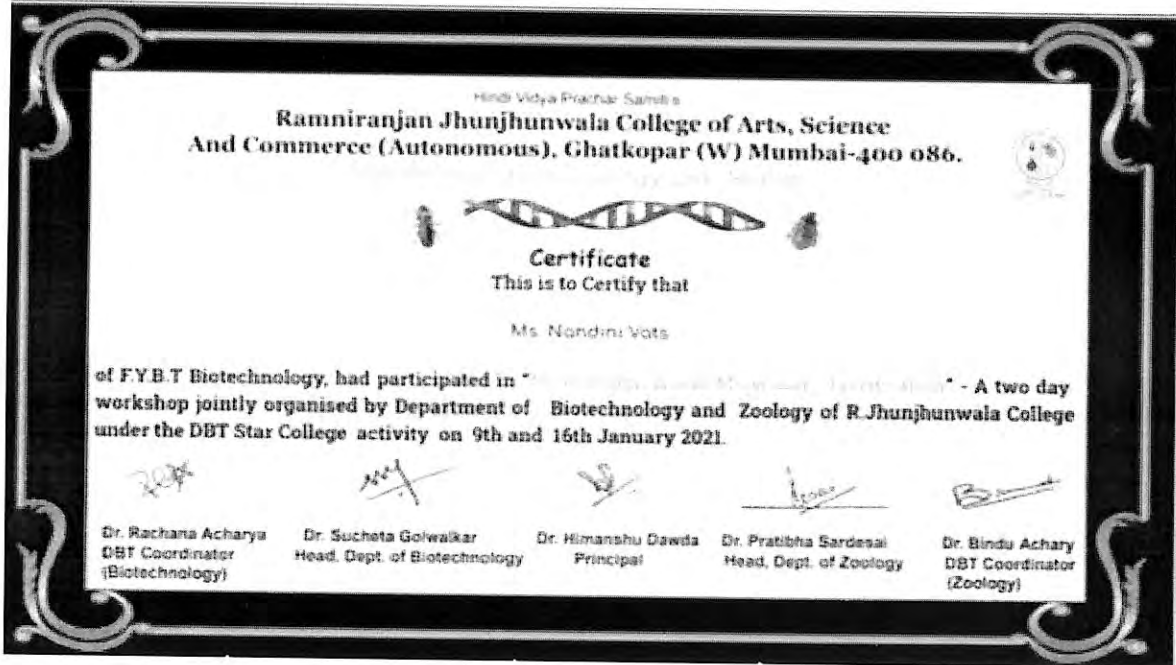
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A copy of the certificate for the participation in "Morphological and Molecular Classification" Workshop Jointly organised by Biotechnology and Zoology Departments on 9th and 16th January 2021.




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Ghatkopar (W), Mumbai-400 086, Maharashtra, INDIA

2019: Star College Status by DBT

2008: Best College by University of Mumbai 2010: IMC RBNQ Award 'Performance Excellence' for the year 2009

2011: 'Best Teacher Award' by Government of Maharashtra 2013: DST-FIST 2014: DBT STAR College

2013 & 2014: 'Jagar Jaanivancha Award' by Govt. of Maharashtra 2016: ISO 14001:2015 2016: ISO 9001:2015 2017: ISO 27001:2013

2018: Autonomous Status by University Grants Commission (No. F. 22-1/2018(AC) - 28.05.2018) & by University of Mumbai (No.Aff./ICD/18-19/440 - 08.06.2018)