



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

(Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce)

Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharashtra, INDIA.

Website: www.rjcollege.edu.in Email: rjcollege@rjcollege.edu.in Tel No: +91 22 25151763 Fax No: +91 22 25150957

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)

20<sup>TH</sup> July, 2020

## NOTICE

### Computer Applications in Biological Sciences

This lecture will be delivered online on 24<sup>th</sup> July 2020 on Zoom platform to provide insight into use of computers in Biological Sciences starting from the literature search to experimental data analysis and data representation. UG, PG students of our college, PhD students and staff from our college and the researchers from other colleges are invited to join the session and benefit from the expertise of Dr Namita. The session will also be streamed live on You Tube.

  
Principal



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

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in association with

Association of Teachers in Biological Sciences (ATBS)

DBT Star College Status and Star College Activity

### RJC Popular Lecture Series 2.3:

#### Computer Applications in Biological Sciences

Dr. Namita Mukherjee, Associate Professor and Counsellor, Christ Deemed to be University, Lavasa, Pune.

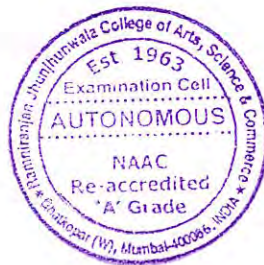
She has obtained her PhD from University of Mumbai and worked at BARC on "Cloning and characterization of Human DNA in *E.coli*." Following her PhD she pursued post doctoral research in 'Human Population Genetics' at Indian Statistical Institute, Kolkata and Yale University, USA with renowned Population Geneticists. She has worked as a Research Scientist at Institute for Molecular Medicine, Kolkata. Her research work besides Population Genetics includes identifying genetic variants associated with Coronary Artery disease (CAD); understanding the correlation between genetic variation and functional modifications in CAD using *in-silico* tools and assessment of water quality with respect to abiotic and biotic factors in coastal Mumbai. She has published her research in high impact International journals. Her research work has been presented at various National and International Conferences. Dr. Mukherjee has been a teaching faculty at Mumbai University and D. Y. Patil Deemed to be University, Navi Mumbai where she taught Zoology and Biotechnology. She has remained a visiting faculty at R.T.M Nagpur University and NMIMS University, Mumbai.



24<sup>th</sup> July, 2020 (Friday)

3.00 pm

Zoom Platform & Live on YouTube: <https://youtu.be/kSMfeMOL4F8>



  
The PRINCIPAL  
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# ASSOCIATION OF TEACHERS IN BIOLOGICAL SCIENCES (ATBS)

Regd. : Maharashtra State, Mumbai, 2030 2010 (G.B.B.S.D.)  
C/o Homi Bhabha Centre for Science Education, Tata Institute of  
Fundamental Research, V. N. Purav Marg, Mankhurd, Mumbai - 400 088  
E-mail - iatbsmum@gmail.com

Ref. No. 01/18


Date: 18.06.2018

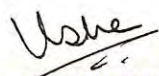
## Letter of Collaboration

The Association of Teachers in Biological Sciences was established in 2006 with the aim to promote excellence in the field of Biological sciences by bringing together teachers who are life long learners. It is our privilege to associate with Hindi Vidya Prachar Samiti's Ramniranjan Jhunjhunwala College this collaboration will be initially for a period of five years from 2018 to 2023 and shall extend further on mutual interest.

The Collaboration would be to conduct following activities but need not be restricted only to these any activity for the promotion of science is welcome.

1. To conduct workshop for members of teaching, non teaching staff and students
  2. To organise exhibitions for promotion of scientific temperament among school children and general public
  3. To organise career guidance sessions.
  4. To organise field trips to create awareness on biodiversity and its conservation
  5. To organise guest lectures by eminent scientists for creating awareness on recent trends in technology and thrust areas
  6. To organise seminars/ conferences
  7. To conduct interactive sessions with scientist
  8. Any other activity on mutual consent
- There will be no financial obligation on either side for any of these activities and all activities will be conducted on mutually agreeable terms

  
18/6/18  
**Dr. P. G. Kale**  
General Secretary  
A T B S, Mumbai

  
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## Short CV for ATBS Webinar



Dr. Namita Mukherjee is currently an Associate Professor and Counsellor at Christ Deemed to be University, Lavasa, Pune.

She has obtained her PhD from University of Mumbai and worked at BARC on "Cloning and characterization of Human DNA in *E.coli*." Following her PhD she pursued post doctoral research in 'Human Population Genetics' at Indian Statistical Institute, Kolkata and Yale University, USA with renowned Population Geneticists. She has worked as a Research Scientist at Institute for Molecular Medicine, Kolkata and at National Institute of Biomedical Genomics, West Bengal.

Her research work besides Population Genetics includes identifying genetic variants associated with Coronary Artery disease (CAD); understanding the correlation between genetic variation and functional modifications in CAD using *in-silico* tools and assessment of water quality with respect to abiotic and biotic factors in coastal Mumbai. She has published her research in high impact International journals. Her research work has been presented at various National and International Conferences.

Dr. Mukherjee has been a teaching faculty at Mumbai University and D. Y. Patil Deemed to be University, Navi Mumbai where she taught Zoology and Biotechnology. She has remained a visiting faculty at R.T.M Nagpur University and NMIMS University, Mumbai. She served in several committees at D.Y.Patil Deemed to be University and a member of Board of Studies for Ramniranjan Jhunjunwala College, an autonomous college under Mumbai University.



  
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## REPORT OF THE LECTURE UNDER R J C LECTURE SERIES CAPABILITY DEVELOPMENT AND SKILL ENHANCEMENT OF STUDENTSTS ( AWARENESS OF TRENDS IN TECHNOLOGY)

A talk on 'Computer Applications in Biological Sciences' was conducted by Dr. Namita Mukherjee online on Zoom Platform on 24<sup>th</sup> July, 2020.

Dr. Himanshu Dawda welcomed the audience and Dr Purushottam Kale gave a brief introduction of the eminent Guest speaker to the audience.

Dr. Namita discussed about –

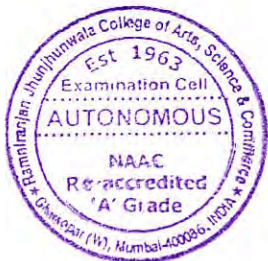
- What are databases ?
- Various databases in Biology
- Types of databases
- History of databases
- Indian Databases- IndiGenomes, Mitoeipigome, circRNome, mirVar etc

Having given a brief introduction on the above topics, she went on to inform about her contribution to the databases, especially about the discovery of single nucleotide polymorphisms (SNPs) in the humans.- RET-D10S94 and DRD2/NCAM by her by resequencing. She later talked about the software- Molecular Evolutionary Genetic Analysis and its application using the SNP's in her study of the ethnic difference in the population of Mujra, Kamar, Halba, Chinda Bhunjia and Chaukhutia Bhunjia tribes of Madhya Pradesh. Her talk elaborated on halotypes, their types and the pattern of haplotypes in the world population and its various applications.

At the end, she answered to the various queries posted by the audience. To a query, taking an example of Low Density Lipoprotein (LDL), she gave a brief idea about the experimental design, data collection and its analysis which a student can do for carrying out a basic research on SNP's.

The lecture ended with a formal vote of thanks by Pravin Nayak. The number of student beneficiaries from our college were 52

  
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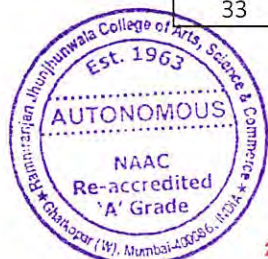
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## STUDENTS ATTENDANCE SHEET

### Guest Lecture : Computer Applications in Biological Science

SR NO	CLASS	ROLL NO	STUDENT NAME
1	TYBSC	556	SHAIKH AALIYA ABRAR
2	TYBSC	560	PANDEY NIKITA PHULCHAND NIRMALA
3	TYBSC	541	SHAIKH JARRIN ZAFAR SHAHEEN
4	TYBSC	538	PRAJAPATI BANDANA RAJESH SHEELA DEVI SHEELA DEVI
5	TYBSC	515	KHAN BALIGA RAEES AHMED SHABANA
6	TYBSC	521	KURKUTE NIKHIL HARIBHAU SANDHYA SANDHYA
7	TYBSC	505	GUNUGADE PRIYANKA SHIVAJI PRATIKSHA
8	TYBSC	523	MAURYA AARTI RAMESH PUSHPA
9	TYBSC	616	GUPTA JYOTI SANTOSH SANGEETA
10	TYBSC	669	SAPKAL SHIVANI SANJAY
11	TYBSC	626	LONDHE DEEPAK SANJAY MADHURI
12	TYBSC	642	SHARMA SARITA SHYAMJEET SATIBINDA
13	TYBSC	618	GUPTA ROSHAN RADHEYSHYAM MEERA
14	TYBSC	634	SAYYED NAZNEEN SADIQ HUSSAIN RANA AMINA BEE
15	TYBSC	624	KHAN SAIMA BI HAKIMULLAH SAJIDA
16	TYBSC	665	KHAN MOHAMMED MUZAMMIL ABDUL HAMID
17	TYBSC	659	YADAV NITESH KUMAR DEVCHARAN KRISHNAVATI
18	TYBSC	644	SHRIVASTAV MANSI ALOKCHANDRA SHASHI
20	TYBSC	647	SINGH NIKHIL MADHUR KUMAR SARITA SARITA
21	TYBSC	603	BALSARAF SHRADDHA DEEPAK SADHANA
22	SYBSC	707	GILL KARAN HARDEEP SINGH LALITA
23	SYBSC	680	YADAV SHUBHAM HIRALAL VANDANA
24	SYBSC	604	CHAUDHARY BRIJESH KUMAR JAGGILAL RAMAVATI
25	SYBSC	712	GUPTA SAKSHI SHIVSHANKAR SANGEETA
26	SYBSC	745	SHRIVASTAVA SHIVANI PREMPRAKASH
27	MSC-II-ZOO	201	RITHIKA RAVISHANKAR
28	MSC-II-ZOO	203	KHAN AFIFA ALI AHMED
29	MSC-II-ZOO	205	MISHRA RISHABH RAJESH
30	MSC-II-ZOO	211	KHAN GULABSA BANO SARDAR HUSSAIN
31	MSC-II-ZOO	213	SHETTIGAR VIGNESH JANARDHANA GEETHA
32	MSC-II-ZOO	215	SHAIKH PARVEEN HABIBULLAH
33	MSC-II-BOT	101	KANGRALKAR SOMNATH VAIJNATH



*[Signature]*

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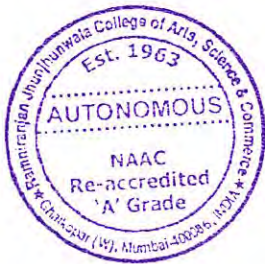
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35	MSC-II-BOT	107	SONAVANE SHRADDHA VILAS
36	MSC-II-BOT	108	ATIF HUSAIN ARIF HUSAIN
37	MSC-II-BOT	112	THORAT GAYATRI RAMESH
38	MSC-II-BOT	114	SHAIKH TAUFIQ SIDDIQUE
39	MSC-II-BOT	118	KAMBLE SWAPNALI SATISH
40	MSC-II-BOT	119	VISHWAKARMA SONAL RAJSHARAN
41	MSC-II-BT	1	AGRAHARI AKASHRAJ RAMVILAS GEETA
42	MSC-II-BT	2	CHAKKANDAN ANKITA UNNIKRISHNAN SADIDEVI
43	MSC-II-BT	3	GANGA DEEPIKA NARAYAN PADMA
44	MSC-II-BT	5	GOUND RAJESH MRITUNJAY BABITA
45	MSC-II-BT	7	GUPTA RAHUL NAGENDRA KUMAR SAROJA
46	MSC-II-BT	9	JESWANI SHILPA BHAVANDAS KAJAL
47	MSC-II-BT	10	KAMBLE NISHA LAXMAN SWATI
48	MSC-II-BT	12	PANDEY KARISHMA SANTOSH RITA
49	MSC-II-BT	15	PHILIP VIVIAN VICTOR VERONICA
50	MSC-II-BT	17	SHAIKH ZUBIYA RASHID ZAINAB
51	MSC-II-BT	19	SINGH TULSI NARENDRA ASHA
52	MSC-II-BT	22	YADAV HIMADRI OMPRAKASH PUSHPA



  
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