



# 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 II NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

01<sup>st</sup> August, 2020

## NOTICE

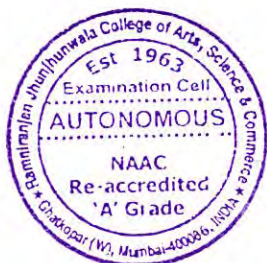
### Enzyme Catalysis

This lecture is arranged in collaboration with ATBS on 5<sup>th</sup> August 2020. This lecture will mostly help the teachers and the students, especially of Chemistry and Biology and its allied subjects to gain an insight about the functioning of the enzymes and its various applications. The session would remain open for the students and the staff and will 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 2.7:

### Enzyme Catalysis

Dr Narayan Puneekar, Professor, Dept. of Biotechnology, Indian Institute of Technology Bombay, Powai, Mumbai

#### Research Interest

Microbial Biochemistry and Molecular Enzymology (Major fields)  
Microbial Metabolic Regulation, Understanding Metabolism through biochemical & recombinant DNA techniques, Fungal Molecular Genetics and its Applications to Metabolic Engineering

#### Academic Background

B.Sc. 1976, Karnatak University, Dharwad  
M.Sc. 1978, Karnatak University, Dharwad  
Ph.D. 1984, Indian Institute of Science, Bangalore

#### Involvement with International Olympiads

National Scientific Committee Member - 33rd International Chemistry Olympiad, Mumbai 2001  
National Scientific Committee Member - 19th International Biology Olympiad, Mumbai 2008

#### Teaching

Molecular Enzymology, Industrial microbial metabolism, Research Philosophy

#### Professional Experience

Post Doctoral Fellow : 1983-87 : Institute for Enzyme Research, University of Wisconsin, Madison, USA.  
Senior Research Scientist : 1987-88 Research Centre, Hoechst India Limited, Bombay 400 080.  
Professor : 2001-to date Biotechnology Group, BSBE IIT Bombay.  
Career Development Fellow - Rockefeller Foundation: 1996-98 : Plant Pathology Dept., University of Wisconsin, Madison, USA (summers only)  
Editorial Board Member - JBB, LJBT, LJEB (2005 onwards)  
First Dean of Academic and Students at IIT Dharwad, 2016-17



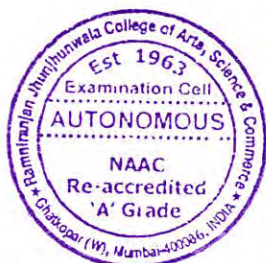
5<sup>th</sup> Aug, 2020 (Wednesday)



3.00 pm



Zoom Platform & Live on YouTube: <https://youtu.be/Er7kFteSpE8>



*(Signature)*  
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

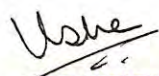
## Letter of Collaboration

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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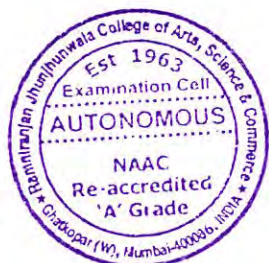
## Biodata

Name: Dr. Narayan S. Puneekar  
Designation: Professor  
Department: Biotechnology Group,  
Department of Biosciences and Bioengineering  
Institute: Indian Institute of Technology Bombay  
Address: IIT Bombay, Powai,  
Mumbai - 400 076  
Telephone: (91-22) 2576 7775 [O]  
2576 8775, 2572 0845 [R]  
FAX: 2572 3480  
Email: nsp@iitb.ac.in  
Website: <http://www.bio.iitb.ac.in/people/faculty/puneekar-ns>  
<http://www.bio.iitb.ac.in/~nsp/mel/>

## Educational Profile:

Institution	Place	Degree Awarded	Year	Field(s)
Karnatak Botany University	Dharwad	B.Sc.	1976	Chemistry, & Zoology
Karnatak University	Dharwad	M.Sc.	1978	Biochemistry
Indian Institute of Science	Bangalore	Ph.D.*	1984	Enzymology and Microbial Biochemistry

\*Ph.D. thesis title - "Regulation of glutamine synthetase and its role in citric acid fermentation by *Aspergillus niger*"



  
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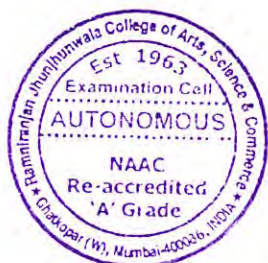
## Research/Professional Experience:

Period	Position held	Place of Research Experience
1983-86	Post Doctoral Fellow	Institute for Enzyme Research, University of Wisconsin, Madison, USA
1986-87	Post Doctoral Fellow	School of Pharmacy, University of Wisconsin, Madison, USA
1987-88	Senior Research Scientist	Research Centre, Hoechst India Limited, Bombay 400 080
1988-91	Assistant Professor	BioScience & Engg. Group, IIT Bombay, Mumbai 400 076
1991-2001	Associate Professor	Biotechnology Centre, IIT Bombay, Mumbai 400 076
2001-to date	Professor	Biotechnology Group, DBsBe, IIT Bombay, Mumbai 400 076

**1996-98** Career Development Fellow (three Summers) of Rockefeller Foundation, at Department of Plant Pathology, University of Wisconsin, Madison, USA.

**1997-98** DST Travel grant/ fellowship to develop a collaborative research project with Prof. Michael Hynes, Department of Genetics, University of Melbourne, Australia.

**2016-17** First Dean of Academic and Students, IIT Dharwad, Dharwad-580 011, Karnataka



  
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## Research Interests and Published Work:

Microbial Biochemistry and Molecular Enzymology: Microbial Metabolic Regulation, Understanding Metabolism through biochemical & recombinant DNA techniques, Fungal Molecular Genetics and its Applications to Metabolic Engineering.

M.Sc. Projects guided: Forty plus (45)

Ph.D. Thesis completed: Twenty (20)

Research Publications: More than 50

Patents: Four (2+2)

Research Dissemination Award for the year 2018; IIT Bombay

## Teaching Expertise:

Molecular Enzymology, Industrial Microbiology and Fungal Metabolism

Research Philosophy and History of Science

**Book:** ENZYMES: Catalysis, Kinetics and Mechanisms

ISBN 978-981-13-0784-3 ISBN 978-981-13-0785-0,

Springer Nature, Singapore, 2018

"Excellence in teaching - Year 2000" Award of IIT Bombay.

"Excellence in teaching - Year 2012" Award of IIT Bombay.

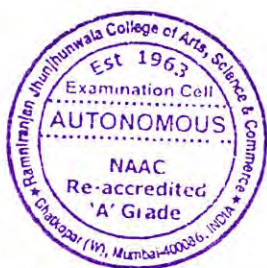
"Prof. S.P. Sukhatme Excellence in Teaching Award - Year 2018" IIT Bombay.

## International Olympiads:

National Scientific Committee Member – 33rd International Chemistry Olympiad, Mumbai 2001

National Scientific Committee Member – 19th International Biology Olympiad, Mumbai 2008

Editorial Board Member – IJBB, IJBT, IJEB (2005 onwards)



  
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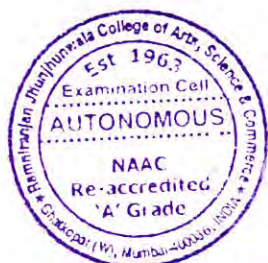
## Report of the lecture under R J C Lecture series capability development and skill enhancement of students (Awareness of trends in technology)

A talk on 'Enzyme Catalysis' was conducted by the Resource Person Dr Narayan Puneekar online on Zoom platform on Wednesday August 5, 2021. Principal Dr Himanshu Dawda welcomed the guest speaker and Dr P G Kale gave a formal introduction of the resource person. The resource person opened his talk by saying that History is a great Teacher and explained enzymes from the historic perspective. He acknowledged the contribution of Nobel laureats in the growth of enzymology. He described the work of scientists in the field of enzyme kinetics while describing nature of enzyme protein, he put forth Willstatter v/s Sumner perspectives of the subject in comparison and explained that positivity of protein test always subject to large amount of protein. How finding of reactive group as a carrier group associated with the enzyme protein revolutionized the concepts related to enzymology was explained by the resource person in a very effective and convincing manner. The lecture ended with long interaction session and the queries of the audience were answered by the resource person with further more information from the field of enzymology. 53 students of R J College benefited from the lecture.

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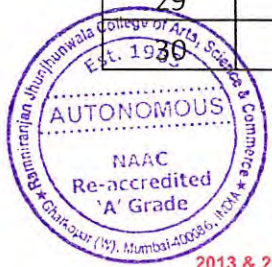
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## STUDENTS ATTENDANCE SHEET

Guest Lecture : "Enzyme Catalysis" on 5th August, 2020

SR NO	CLASS	ROLL NO	STUDENT NAME
1	TYBSC	15	DHAMALE SAURABH BHARAT LEELA
2	TYBSC	23	GHAG GAURANG DILIP TRUPTI
3	TYBSC	35	JAIWAR PREETI HARFUL TARADEVI
4	TYBSC	47	MEHTA ANERI KETAN INDU INDU
5	TYBSC	50	MOHAN PAWAR MAYUR MOHINI MOHINI
6	TYBSC	70	RAJBHAR GITANJALEE PRADEEP USHA
7	TYBSC	72	SAHANI JYOTI JAGDISH KAMLA
8	TYBSC	91	TIWARI JYOTI KAPILDEV SHOBA
9	TYBSC	93	TIWARI SAURABH KAMLESHKUMAR GYANATI DEVI GYANATI
10	TYBSC	97	VISHWAKARMA ROSHAN AVADHRAJ SUSHILA
11	TYBSC	107	YADAV POOJA RAMBHAVAN VIMALA
12	TYBSC	108	YADAV PRATIBHA SATYAPRAKASH SANGEETA
13	TYBSC	110	YADAV RAJAN ASHOK PINKI DEVI
14	TYBSC	117	PAL SUJEET RAMLAKHAN
15	TYBSC	120	SHAIKH MOHD SHABAN MOHD SUYEB
16	TYBSC	125	ADAK APEKSHA BALU
17	TYBSC	127	SHAIKH NAZREEN AMEERULLAH
18	TYBSC	130	KHAN ISHMA SHAHANSHAH ALAM
19	TYBSC	131	GOND ANAND PRAVIN KUMAR GOND
20	TYBSC	650	SONI RAJNANDINI ANILKUMAR SUMAN
21	TYBSC	643	SHRIVASTAV KHUSHI SAMEER ANITA
22	TYBSC	527	MISHRA RANI RAJESH RATAN
23	TYBSC	524	MAURYA KOMAL SATISH SUNITA
24	SYBSC	2	AUTI OMKAR KAILAS SUJATA
25	SYBSC	5	CHADHA LOVLEENKAUR KARNAILSINGH JASPALKAUR
26	SYBSC	10	GOND SANDHYA DEVKUMAR KANCHAN
27	SYBSC	13	GUPTA SUNNY SANTOSH SUNITA
28	SYBSC	19	KHAN AFFAN JAMEEL SANJEEDA KHATOON
29	SYBSC	26	MAURYA SUSHILKUMAR RAMSHABD LALMATI
	SYBSC	33	POTE SAILEE SANJAY RAJASHREE



*[Signature]*  
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31	SYBSC	38	SHAIKH MOHAMMED SAYEM RAFIQUE YASMEEN
32	SYBSC	71	NERLEKAR AKSHAY SHANKAR SUMITRA
33	SYBSC	73	CHAUHAN KISHAN MADANLAL SEEMADEVI
34	SYBSC	78	RAI RISHAB AJIT SUNANDA
35	SYBSC	504	ANSARI SUFIYA ZAKIR ALI SHEHNAZ
36	SYBSC	507	CHOUDHARY KRISHNA BHAGARAM MAMTA
37	SYBSC	520	MANCHEKAR VINAYAK SURESH SUPRIYA
38	MSC-II-CHEM	1	RAHULKUMAR SUBASH
39	MSC-II-CHEM	4	SHARMA KAJAL OMPRAKASH
40	MSC-II-CHEM	12	GUPTA NIRAJ RAMLAVAT
41	MSC-II-BOT	108	ATIF HUSAIN ARIF HUSAIN
42	MSC-II-CHEM	23	DONGARIKAR RAJSHREE NANDKUMAR
43	MSC-II-CHEM	24	KHAN HIBBA NAUSHIN BADRUSSAMA
44	MSC-II-CHEM	26	SABRIN FATIMA ISRAR AHMED
45	MSC-II-ZOO	206	SINGH SALONI SURYABHAN
46	MSC-II-CHEM	34	FERNANDES SYLVENA LOUIS
47	MSC-II-CHEM	36	KHAN TARANNUM BANO MOINUDDIN
48	MSC-II-CHEM	38	PRAJAPATI PRIYANKA NIGAM
49	MSC-II-CHEM	40	SENDULAY ISMAT FAROOQUE
50	MSC-II-CHEM	41	SHAIKH MISBAH NAZ GULAM RASOOL
51	MSC-II-CHEM	43	SINGH AMRITA KALPNATH
52	MSC-II-CHEM	45	SINGH SACHINKUMAR UDAYBHAN
53	MSC-II-CHEM	47	YADAV SIMRAN JIMIDAR



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

2019: Star College Status by DBT

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

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# 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.

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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


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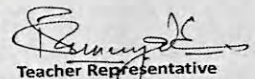


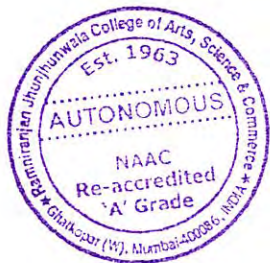
 **Ramniranjan Jhunjhunwala College of Arts, Science & Commerce (Autonomous)**  
**Department of Botany**  
Established in 1963, DST-FIST supported, DBT-Star Department

This is to certify that  
Mr /Ms **MUSTAFA ALISHA ZAKIR**  
Class **M.Sc. I Chemistry** Roll No **39** participated  
in the webinar  
**Enzyme Catalysis**  
organized by the department of Botany under  
DBT Star College Activity in association  
With ATBS on **August 5<sup>th</sup>, 2020**  
by online mode

 Principal  
R J College

 Head  
Department of Botany

 Teacher Representative  
of ATBS



  
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RAMNIRANJAN JHUNJHUNWALA COLLEGE  
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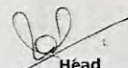
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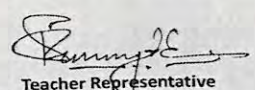


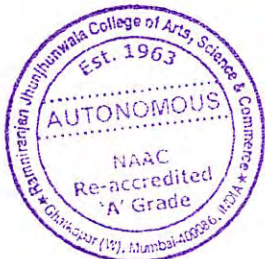
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**Department of Botany**  
Established in 1963, DST-FIST supported, DBT-Star Department

This is to certify that  
Mr /Ms **RANIMISHRA**  
Class **T.Y.B.Sc. Botany** Roll No **527** participated  
in the webinar  
**Enzyme Catalysis**  
organized by the department of Botany under  
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