



# 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)

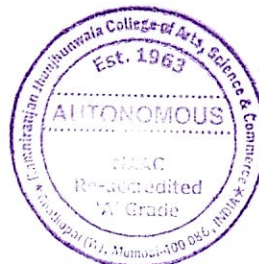
22/07/2022

## NOTICE

### DEGREE COLLEGE

The department of Botany is organising a career guidance lecture "Study Abroad" for TYBSc Botany students on Monday 25<sup>th</sup> July 2022 at 9 am in Bio Lab 5. Ms. Gayatri Thorat will be the resource person for the session. Students are cordially invited for the session.

  
Principal



  
PRINCIPAL  
RAMNIRANJAN JHUNJHUNWALA COLLEGE  
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**BROCHURE**



**RAMNIRANJAN JHUNJHUNWALA COLLEGE OF ARTS, SCIENCE AND  
COMMERCE (AUTONOMOUS), GHATKOPAR (W.), MUMBAI - 86**

**DEPARTMENT OF BOTANY**

(DBT STAR COLLEGE ACTIVITY)

**HUM HONGE KAMIYAB**

ACADEMIC ENGAGEMENT OF TYBSc STUDENTS WITH ALUMINA



Ms. GAYATRI  
THORAT

Topic: "STUDY ABROAD "

DATE : 25<sup>TH</sup> JULY, 2022

DAY : MONDAY

VENUE : BIOLOGY LAB - 5

TIME : 09.00 - 10.15 AM



  
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## Gayatri Thorat

e: thorat.gayatri07@gmail.com | Cell: (+91) 9167669845

### Career Objective:

To bridge up the gap between theory and practice by pursuing advance research in the life science stream.

### Work Experience:

- Research Trainee, Protein Interactome lab for Structural and Functional biology. (Joined in Nov. 2021)  
Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Mumbai.  
– Working on Project on Characterization of oncogenic role of PSMD10.
- Assistant Professor, Department of Botany, Ramniranjan Jhunjhunwala college, Mumbai
  - Full time: Sept. 2021- Oct. 2021: Taught Cell biology, Cancer Biology and Molecular Plant breeding to the M.Sc. students
  - Nov. 2021 onward: Taking lectures remotely over weekends
- Intern at World Wildlife Fund (WWF) worked under - Ek Prithvi programme. (Aug. 2019- Jan. 2021)

### Academic Profile:

- Master of Science, (Cytogenetics and Plant biotechnology) CGPA 10.00/10.00  
Ramniranjan Jhunjhunwala College, University of Mumbai, India (2019 - 2021)
- Bachelor of Science, Botany CGPA 9.23/10.00  
B. N. Bandodkar College of Science, University of Mumbai (2016 - 2019)

### Publication:

- Comparative study of phytochemical analysis of *Spinacia oleracea* from three different regions.  
**Abstract:** *Spinacia oleracea* Linn. (Family: Amaranthaceae), is a green leafy vegetable that came originally from south-west Asia and is now grown in most parts of the world. Spinach is packed with vitamins such as C, A and E, minerals like Mg, Mn, Fe, Ca and folic acid. Spinach is also rich in carotenoids, beta-carotene and lutein. It is a good source of bioflavonoid, quercetin and many other flavonoids. In the present work, comparative study of phytochemical, antioxidants and flavonoid content in spinach from three different areas is carried out.

#### Presentation at conferences:

Comparative study of phytochemical analysis of *Spinacia oleracea* from three different regions, Multidisciplinary International Conference on Green Earth: A Panoramic View. ( January 2018)

### Courses and Certifications

- Certificate course on Immunology, conducted by IIT Kharagpur, through NPTEL online portal. (Sept. -Dec. 2020)
- Certificate course on Human Molecular Genetics, conducted by IIT Kanpur, through NPTEL online portal. (Jan.- Feb. 2021)
- Certificate course on Cancer Metastasis, conducted by John Hopkins University, through Coursera. (June- Sept. 2020)
- Certificate course on Bioinformatics Methods, Conducted by University of Toronto, through Coursera. (June- Sept. 2020)
- Certificate course in German language- C1.1 levels, Goethe Institute, Max Mueller Bhavan, Mumbai. (2016-2019)
- Research Scholar Program conducted by B. N. Bandodkar College of Science, University of Mumbai. (2017- 2019)

### Technical and software expertise:


- Plant tissue culture
- Basic microbial cell culture techniques
- Dissection techniques
- Molecular techniques- isolation, estimation and purification of various micro-molecules, AGE, SDS-PAGE, PCR, RT-PCR, qRT-PCR.
- Immunological techniques- Western blot analysis.
- Microscopy: optical microscopy (compound microscope).
- Software skills- Microsoft office.

### References:

- Dr. Usha Mukundan ([umukundan@rjcollege.edu.in](mailto:umukundan@rjcollege.edu.in)) Director, Ramniranjan jhunjhunwala College, Mumbai, India
- Dr. Himanshu Dawda ([drhimanshudawda@gmail.com](mailto:drhimanshudawda@gmail.com)) In-Charge Principal, Head of the department, Ramniranjan Jhunjhunwala College, Mumbai, India.

A/27 New Rajdeep Rd, Ghatkopar West, Thane 400086, Maharashtra, India.



  
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## Gayatri Thorat

e: thorat.gayatri07@gmail.com | Cell: (+91) 9167669845

### Projects Synopsis

- Comparative study of phytochemical analysis of *Spinacia oleracea* from three different regions. (Aug. 2016 – Jan. 2019)

#### Abstract:

Spinach (*Spinacia oleracea* L.) is an edible flowering plant in the family Amaranthaceae (Mane, 2015). Spinach is an important agricultural crop not only because of its economic importance, but also for the nutritional values of its leaves, mainly due to the fact that they are an excellent source of nutrients, phytochemicals, antioxidants and flavonoids (Kaur and Kapoor 2001, Sardas 2003). Spinach is increasingly becoming important in health because of its micronutrients and phytochemicals. It has an additional advantage of being low in calories.

Nowadays, phytochemicals and antioxidants in plants are raising interest in consumers for their roles in maintaining human health. Phenolic and flavonoids are known for protective effect against cardiovascular diseases, cancer and other diseases (Kaur and Kapoor 2001, Sardas 2003).

The leaf of this annual plant is used as major ingredient in Indian cuisine mainly due to its therapeutic values. A cool climate is best for growing spinach. During periods of warm temperatures and long days, plants are likely to produce seed stalks before making desirable foliage growth. Spinach is fast growing and short lived plant. It matures within 7 weeks (Evans *et al.*, 1986). The purpose of this study is to determine the antioxidant activity, flavonoid contents and the essential phytochemicals present in spinach and evaluate the potential benefits



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## DEPARTMENT OF BOTANY

ACADEMIC YEAR – 2022-23

### “HUM HONGE KAMIYAB”

INTERCATION WITH ALUMNI –

**MS. GAYATRI THORAT** interacted with students and shared her experiences and different avenues in Botany after graduation. The session was organised on **Monday, 25/07/22 at 09.00 am TO 10.15 AM** in Bio Lab- 5, the title of the talk was “**STUDY ABROAD**”.

The session was attended by 42 students and 3 teachers.



  
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**PHOTOGRAPHS OF THE SESSION ON STUDY ABROAD HELD ON 25<sup>TH</sup> JULY 2022**



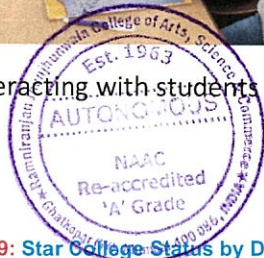
19.08703, 72.90959, -57.7m, 266°  
25-Jul-2022 9:46:40 am

Dr. Anil Avhad giving a brief introduction of Ms. Gaytri Thorat



19.08705, 72.90953, -57.7m, 329°  
25-Jul-2022 9:11:55 am

Ms. Gayatri Thorat interacting with students during the session.



  
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Date 25/7/2022

## Department of Botany (DBT Star College Activity) organize "HUM HONGE KAMIYAB" Academic Engagement of TYBSc Student with Alumina

Topic: "Study Abroad"

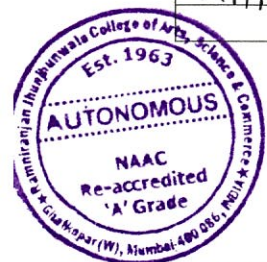
Guest: Ms. Gayatri Thorat

Timing: 09:00 am to 10:45 am

Venue: Biology Lab-5

### Attendance

NAME OF THE STUDENT	Roll no	DEPARTMENT	SIGNATURE
Anushka Singh	501	Botany	
Sandhya Gaawali	502	Botany	
shradha Mishra	503	Botany	
Rushda Heena	519	Botany	
Daniel Anil D'sa	536	Botany	
Raunak. Yadav	528	Botany	
Om Yadav	534	Botany	
Balkrishna Patil	537	Botany	
Yadav Shishankar	509	Botany	
yadav sheetal	543	Botany	
Shinde ketan	521	Botany	
Shobha Gupta	553	Botany	
Shevastav Anjana	520	Botany	
Deshmukh Abdul Rahim	512	Botany	
Sania Shaikh Zaheed	514	Botany	
Samita S. Gawde	525	Botany	
KHAN MEHEK	545	Botany	



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## Attendance

NAME OF THE STUDENT	Roll no	DEPARTMENT	SIGNATURE
Sana Shaikh	557	Botany	Shaikh
CHOUDHARI TABASUM	558	BOTANY	tabassum
Kalpana D. Singh	522	Botany	kalpana
Neetu S. Choudhary	526	BOTANY	Neetu
Khan Sana Aziz Haque	547	BOTANY	Sana Khan
Nadaf Kalima Safi	527	Botany	Kalima
Jafar Shaikh	506	Botany	JAFAR
Harshala Shinde	507	Botany	Shinde
Reethik Pal	511	Botany	Reethik
Shreya Shrinivas Bhandarkar	515	Botany	Shrinivas
SIDDHITA CHANDALIYA	513	Botany	Siddhita
Taram Kusundal	554	Botany	Kusundal
Abdul Hafeez	548	Botany	Hafeez
Tayde Karishma Rajuwar	516	Botany	Karishma
POOJA SINHA	560	Botany	Pooja
Naziya Shaikh	508	Botany	Naziya
Khan Alsaba	531	Botany	Alsaba
ABDUL HAFEEZ	548	Botany	Hafeez
Khan Najra	530	Botany	Najra
Khan Arif	535	Botany	Arif



*(Signature)*

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## CERTIFICATES



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### Department of Botany

This is to certify that Mr. Balkrishna Pathak of Class TYBSc Roll No 537 participated in Hum Honge Kamyab held on 25<sup>th</sup> June 2022.

Dr. Himanshu Dawda  
*Principal*



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### Department of Botany

This is to certify that Ms. Mehek Khan of Class TYBSc Roll No 545 participated in Hum Honge Kamyab held on 25<sup>th</sup> June 2022.

Dr. Himanshu Dawda  
*Principal*



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