



## Dr. Gopal Jee Gopal

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### Education

<b>Ph.D. :</b> Special Centre for Molecular Medicine, Jawaharlal Nehru University, New Delhi	<b>2012</b>
<b>M.Sc. in Biotechnology ( DBT Sponsored)</b> School of Sciences, Gujarat University, Ahmedabad	<b>2005</b>
<b>B.Sc. Botany ( Honours)</b> Lalit Narayan Mithila University Darbhanga, Bihar	<b>2002</b>

### Specialization

**Recombinant DNA Technology and Molecular Biology**

### Professional/Teaching Experience

- **06<sup>th</sup> Aug 2015- Present:** Asst. Professor, Uka Tarsadia University, Bardoli, Gujarat.
- **18<sup>th</sup> May 2015-5<sup>th</sup> Aug 2015:** Scientist under **Fast Track Scheme of young Scientist** (SERB, DST schemes).
- **1<sup>st</sup> July 2013-16<sup>th</sup> May 2015:** Assistant Professor, Department of Biochemistry, Faculty of Science, Maharaja Sayajirao University (MSU), Baroda, Vadodara, Gujarat.
- **7<sup>th</sup> May 2012-30<sup>th</sup> June 2013:** **Dr. D. S. Kothari Postdoctoral Fellow**, School of Biotechnology, Jawaharlal Nehru University (JNU), New Delhi.
- **1<sup>st</sup> Sept 2011-4<sup>th</sup> May 2012:** **Senior Research Fellow**, Molecular Biology and Genetic Engineering Lab, School of Biotechnology (SBT), JNU, New Delhi.
- **January 2008-July 2011:** **Senior Research Fellow (CSIR)**, Special Centre for Molecular Medicine, JNU.
- **January 2006-Jan 2008:** **Junior Research Fellow (CSIR)**, Special Centre for Molecular Medicine, JNU.



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### Research Interest

Plastic degrading recombinant Enzymes  
Type IV secretion System of *Bacillus anthracis* and *Helicobacter pylori*

### Research Experience/ Research Project

#### ONGOING/FINISHED PROJECT

#### Research Interest

	agency	initiation	
Characterization Of Putative Type IV Secretion System of <i>Bacillus anthracis</i>	U.G.C.	2012-2013	Dr. D. S. Kothari PDF
Characterization Of Putative Type IV Secretion <i>E.coli</i> System of <i>Bacillus anthracis</i>	SERB, DST	2013- 2016	Fast Track Scheme of Young Scientists
Production of recombinant enzyme for degradation of plastic ( polyethylene terephthalate)	GSBTM	2021-2023	Research promotion Scheme

#### Awards/Honors/Scholarship

1. 2012 :Selected for Fast track Young Scientist (Science and Engineering Research Board, Department of Science and Technology, Govt. of India)
2. 2012 : Dr. D.S. Kothari Postdoctoral Fellowship (University Grant commission)
3. 2008 : Senior Research Fellowship from CSIR, New Delhi (India) for Ph.D.
4. 2006 : Junior Research Fellowship from CSIR, New Delhi, (India) for Ph.D.
5. 2005 : Awarded NET-JRF( Junior Research Fellowship ) in Life Science from UGC/CSIR, New Delhi.
6. 2003 : National Merit Scholarship for Pursuing M.Sc. in Biotechnology from Department

#### Creditable position

ServedAs Judge/Chairmain in the  
Conference/Symposium/Events.



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1. Served as Judge ( Poster and Oral of Biotechnology) in International Science Symposium-2021 on Recent trends in Science and Technology organized by Christ College, Rajkot, on April 8-9, 2021.
2. Served as Judge in poster competition in national conference on academia-industrial interactions on surfactants, nanomaterials, Biosciences and Environmental Remediation organized by School of science, P.P. Savani University, Surat on 9<sup>th</sup> February 2020.
3. Served as Judge in Poster competition in International conference on Ethanopharmacology jointly organized by Uka Tarsadia University and Society of Ethanopharmacology in Feb. 2017.

## **Workshop/Conference/Seminar Organized as co-ordinator /convenor**

21. Conducted 30 hrs online Certificate course in Basics in Genomics and Proteomics ( Batch-Ist) from 10<sup>th</sup> Aug. to 20<sup>th</sup> Aug. 2021 with 92 paid participants from all over India( Participants were students, research scholar, faculties and scientists). Out of 30 hours course, 20 hrs of lecture was delivered by me alone.
20. Conducted 34 hrs online Certificate course in Recombinant DNA Technology ( Batch-13th) from 28<sup>th</sup> July to 7<sup>th</sup> Aug. 2021 with 42 paid participants from all over India. Out of 34 hours course, 30 hrs of lecture was delivered by me alone.
19. Conducted 32 hrs online Certificate course in Recombinant DNA Technology ( Batch-12th) from 18<sup>th</sup> June to 28<sup>th</sup> June 2021 with 56 paid participants from all over India( IIT-jodpur, NIT, durgapur, IISER-Kolkata, SRM, Amity, VIT, Savitribhai Phule, D.Y. Patil University etc). Out of 32 hours course, 29 hrs of lecture was delivered by me alone.
18. Conducted 34 hrs online Certificate course in Recombinant DNA Technology ( Batch-11th) from 20<sup>th</sup> May to 30<sup>th</sup> May 2021 with 71 paid participants from all over India( IIT-Delhi, NIT, Warangal, IISER-Kolkata, BHU, SRM, Amity, VIT, Shiv Nadar) including Several faculties of colleges/dept. and Research Scholars and two participants from Sri Lanka also. Out of 34 hours course, 30 hrs of lecture was delivered by me alone.
17. Conducted 34 hrs online Certificate course in Recombinant DNA Technology ( Batch-10<sup>th</sup>) from 12<sup>th</sup> April to 22<sup>nd</sup> April 2021 with 58 paid participants from all over India including Several faculties of colleges/dept. and Research Scholars, 5 participants from Nepal and 2 from Bangladesh also. Out of 34 hours course, 32 hrs of lecture was delivered by me alone. Feedback by participants can be watched here <https://www.youtube.com/watch?v=MsfF68Jb6vY>
16. Conducted 34 hrs online Certificate course in Recombinant DNA Technology( Batch-9<sup>th</sup>) from 5<sup>th</sup> March 2021 to 16<sup>th</sup> March 2021 with 35 paid participants from all over India including Several faculties of colleges/dept. and Research Scholars. Out of 34 hours course, 30 hrs of lecture was delivered by me alone. <https://www.youtube.com/watch?v=mgRP3w4x5rE>
15. Conducted 30 hrs online Certificate course in Recombinant DNA Technology from 22<sup>nd</sup> Dec. to 31<sup>st</sup> Dec. 2020 with 93 paid participants from all over India

including Several faculties of colleges/dept. and Research Scholars. Out of 32 hours course, 29 hrs of lecture was delivered by me alone. This batch was sponsored by **Gujarat State Biotechnology Mission (GSBTM)**, Govt. of Gujarat. Feedback Shared by Participants can be watched here <https://www.youtube.com/watch?v=3SCGZUSwMKI>

14. Conducted 30 hrs online Certificate course in Recombinant DNA Technology from 15th Sept. to 25th Sept.2020 with 92 paid participants from all over India including Principal of Pharmacy college, Two HoDs of Microbiology Departments, Several faculties of colleges and Research Scholars. Out of 31 hours course, 28hrs of lecture was delivered by me alone. This batch was sponsored by **Gujarat State Biotechnology Mission (GSBTM)**, **Govt. of Gujarat**. Oral Feedback shared by participants: <https://www.youtube.com/watch?v=OupUwTHtkr0&t=157s>
13. Conducted 30 hrs online Certificate course in Recombinant DNA Technology from 28th July to 6th Aug. 2020 with 27 paid participants from all over India including college teachers and Research Scholars and two participants from Sindh province of Pakistan also. Out of 30 hours course 28hrs of lecture was delivered by me alone. Feedback: <https://www.youtube.com/watch?v=KJte-gtTT4I>
12. Conducted 30 hrs online Certificate course in Recombinant DNA Technology from 10<sup>th</sup> July to 19th July 2020 with 41 paid participants from all over India including college teachers and Research Scholars and two participants from Sindh province of Pakistan and Canada also. Out of 30 hours course 28hrs of lecture was delivered by me alone.  
  
Feedback: <https://www.youtube.com/watch?v=L-3Ug37kn1Y>
11. Conducted 25hrs online Certificate course in Recombinant DNA Technology from 23rd June to 27<sup>th</sup> June 2020 with 70 ( seventy) paid participants from all over India including college teachers and Research Scholars and two participant from Sindh province of Pakistan also. All 25 hrs of lectures were delivered by me only.
10. Conducted 25hrs online Certificate course in Recombinant DNA technology from 6<sup>th</sup> June to 10<sup>th</sup> June 2020 with 99 ( Ninety Nine) paid participants from all over India including college teachers and Research Scholars. All 25 hrs of lectures were delivered by me only.
9. Conducted 25hrs online Certificate course in Recombinant DNA technology from 23<sup>rd</sup> May to 27<sup>th</sup> May 2020 with 117 paid participants from all over India including college teachers and Research scholars. Complete 25 hrs of lectures were delivered by me only.
8. Served as coordinator of **GSBTM** sponsored 6 days crash workshop for cracking IIT-JAM, JNU-CEEB from 15<sup>th</sup> to 20<sup>th</sup> FEB. 2020 under Network of capacity building cell of GSBTM, South Gujarat. Entirely (fooding lodging, kit and tuition) funded by GSBTM. 58 Participants ( Second Year of B.Sc) were registered from 8 different colleges/institutes of south Gujarat.( Expenditure: Rs.2(**Two**) Lacs and completely funded by GSBTM).
7. Served as coordinator of **GSBTM** sponsored 12 days crash workshop for cracking IIT-JAM, JNU-CEEB from 2<sup>nd</sup> Jan to 13<sup>th</sup> Jan 2020 under Network of capacity building cell of GSBTM, South Gujarat. Entirely (fooding lodging, kit and tuition) funded by GSBTM. 112 Participants were selected from 11 different colleges/institutes of south Gujarat.( Expenditure: Rs.6,83,000 (**Six Lac eighty three thousand**) and completely funded by GSBTM) .Feedback link: [https://www.youtube.com/watch?v=P\\_0rrYCSr\\_o](https://www.youtube.com/watch?v=P_0rrYCSr_o)



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6. Conducted Orientation Sessions for TY and SY BSc. candidates at 11 colleges of South Gujarat from 14<sup>th</sup> Sep. 2019 to 16<sup>th</sup> November, 2019. Spread awareness and encouraged students of this region to participate in the GSBTM sponsored Crash workshop for the preparation of IIT-JAM, CEEB-JNU and other national level competitive exams.
5. Served as coordinator of **GSBTM** sponsored 6 days crash workshop for cracking IIT-JAM, JNU-CEEB from 17<sup>th</sup>-22<sup>nd</sup> Jan. 2019 (phase II) under Network of capacity building cell of GSBTM, South Gujarat. Entirely (fooding lodging, kit and tuition) funded by GSBTM. 72 Participants were selected from different colleges of south Gujarat. ( Expenditure: Rs.4 Lacs in both the phases) which is completely funded by GSBTM).
4. **Served as Coordinator of GSBTM** sponsored 6 days crash workshop for cracking IIT-JAM, JNU-CEEB from 10<sup>th</sup> -15<sup>th</sup> Dec. 2018 (phase I) under Network of capacity building cell of GSBTM, South Gujarat. 72 Participants were selected from different colleges of south Gujarat.
3. Conducted Orientation Sessions for TY and SY BSc. candidates at 8 colleges of South Gujarat from 14<sup>th</sup> Sep. 2019 to 16<sup>th</sup> November, 2018. Spread awareness and encouraged students of this region to participate in the GSBTM sponsored Crash workshop for the preparation of IIT-JAM, CEEB-JNU and other national level competitive exams.
2. **Served as coordinator of GSBTM** Sponsored 2 days workshop on ‘Chemistry and Mathematics for Biologists’ organized as coordinator from 26<sup>th</sup> to 27<sup>th</sup> March 2018 at Uka Tarsadia University, Bardoli.
1. **Served as coordinator of GSBTM** sponsored 3 days Entrepreneurship Awareness Camp was organized as Co-ordinator from 5<sup>th</sup>-7<sup>th</sup> Feb 2018 at Uka Tarsadia University.

### ➤ As a Guiding Teacher/Teacher In-charge

Dissertation/M.Phil/PhD	Year/Semester	No of student
M.Sc. Dissertation		40

## Skills

### TECHNICAL EXPERTISE

- Cloning and sub-cloning of Bacterial gene and their expression in *E.coli* host.
- Different types of PCR, Site directed mutagenesis, Generation of Gene deletion derivatives.
- Generation of isogenic null mutant strain by homologous recombination.
- Production of polyclonal antibody in Rabbit and Mice.
- Western blotting, southern blotting
- Affinity purification of protein.
- MBP-pull down assay and Co-immunoprecipitation.
- Yeast two hybrid assay for protein/Protein interaction.
  - Co-expression of genes in *E.coli* using two compatible/Bicistronic vector.
  - 2-D PAGE (Blue native gradient PAGE /SDS PAGE)
  - Spectrophotometry and Cyto-immunochemistry



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- *Helicobacter pylori* culture and their maintenance.
- Computers and computational biology: working knowledge of Word, Power point, Excel etc., Bioinformatics tool.

## Invited Speaker/Guest Lecture

### INVITED Lectures/Resource Person:

1. Delivered 30 hours online lectures on different topics of Recombinant DNA Technology in Online Recombinant DNA Technology Course( 34 hours) organized by Microbiologist society of India from 18<sup>th</sup> Sept to 28<sup>th</sup> Sept. 2021. There were 80 participants from all over country.
2. Delivered online lecture on Strategy for gene cloning and Expression in GSBTM sponsored Crash course for the preparation of IIT JAM , GAT-B and other competitive exams organized by Ganpat University, Mehshana on 26<sup>th</sup> Sept. 2021.
3. Delivered online lecture on Players of Gene cloning in GSBTM sponsored Crash course for preparation of IIT Jam and other National exams Coordinated by Ganpat University on 25<sup>th</sup> Sept. 2021.
4. Delivered Lecture on Polymerase Chain Reaction and Its types in Lecture series on Biotechnology and IPR ( From 12/0/2021 to 18/09/2021) jointly organized by National centre of Excellence( MHRD) Department of Biotechnology and IQAC cell of Thiagarajar College, Madurai, Tamilnadu on 17/09/2021.
5. Delivered talk on 'Various strategies for gene Cloning' in webinar organized by world forum of young scientists on 01/08/2021 in which registered participants were from Indonesia, Pakistan, Bangladesh, Nepal, Egypt, Ghana etc.
6. Delivered lecture on 'Opportunities for Bioscience Graduates and Post Graduates' in E-workshop organized on 'What to do next?- Career prospects in Life Science' on 3<sup>rd</sup> April 2021 organized by C.G.Bhakta institute of Biotechnology, Uka Tarsadia University.
7. Delivered lecture on Players of Molecular Cloning in GSBTM sponsored crash course( for preparation of IIT JAM, GAT-B and other national level competitive exams for PG admission) organized by Ganpat University , Mehshana, on 31/3/2021.
8. Delivered lecture on Players of Molecular Cloning in GSBTM sponsored crash course(for preparation of IIT JAM, GAT-B and other national level competitive exams for PG admission) organized by Pramukh Swami Science and HD Patel Arts college, Kadi on 21/3/2021.
9. Delivered lecture on "Recombinant DNA technology and polymerase chain reaction" In webinar organized by Shree P.M.Patel college of paramedical science and technology and Dr. I.P.patel institute of Medical Technology and Research, Anand on 27<sup>th</sup> Feb. 20021.
10. Conducted 30 hours online course in Recombinant DNA Technology organized by President Science college, Ahmedabad from 15<sup>th</sup> Feb to 25<sup>th</sup> Feb. I have alone delivered 27 hours of lecture out of 30 hour total course duration.
11. Delivered online lecture on PCR and gel Electrophoresis knowledge for startup (as Resource person) in 6 Days E- Faculty development programme on 'Advance Tools and Technique in Biotechnology for Startup Ecosystem Development' organized jointly by Pramukh Swami science and HD Patel Arts college Kadi and Dr. B. Lal Institute of Biotechnology, Rajasthan, dated 19/02/2021.
12. Delivered online lecture on Recombinant DNA Technology and Genetic Engineering tools for Startup development (as Resource person) in 6



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- Days E- Faculty development programme on ‘Advance Tools and Technique in Biotechnology for Startup Ecosystem Development’ organized jointly by Pramukh swami Science and HD Patel Arts college Kadi and Dr. B. Lal Institute of Biotechnology, Rajasthan, dated 15/02/2021.
13. Delivered online lecture on ‘Restriction Digestion’ in GSBTM sponsored crash course for the preparation of IIT-JAM and GAT-B exam organized by Christ College, Rajkot, On 07/02/2021
  14. Delivered talk on ‘Application of Recombinant DNA Technology in the management of disease’ in 20 days online training (Recent techniques in nucleic acid based diagnostics and cell Culture) organized by Dept of animal biotechnology, Lalalajpat Rai University of Veterinary science, Hisar, Haryana, on 30<sup>th</sup> Jan. 2021.
  15. Delivered online lecture on Strategy for gene cloning in GSBTM sponsored crash course for the preparation of IIT-JAM and GAT-B exam organized by Tolani Science college, Adipur, Kutchh on 22/01/2021.
  16. Delivered online lecture on Strategy for gene cloning in GSBTM sponsored crash course for the preparation of IIT-JAM and GAT-B exam organized by St. Xavier’s College Ahmedabad on 30/12/2020.
  17. Delivered online lecture on Molecular Biology ( as per their syllabus) to Pharm D students( SEM VI)of Maliba Pharmacy College, UTU on 15/12/2020.
  18. Delivered lecture and discussed previous years questions (12 hours) in 30 hours GSBTM Sponsored online course for the preparation of NET, GATE, CEEB and other national level competitive exams in Lifescience subject organized by Shri A.N.Patel College Anand from 2/11/2020 to 9/11/2020.
  19. Delivered talk on ‘Strategy for Molecular cloning’ in GSBTM sponsored 11 Days Crash course (for CSIR- NET JRF preparation) organized by Navrachna University, Baroda on 20/10/2020.
  20. Delivered talk on Strategy for recombinant Protein production in E.coli host’ in webinar organized by Scientific Community on 18/10/2020. There were more than 500 participants registered for webinar.
  21. Delivered talk on ‘Opportunities for Bioscience Graduate and post graduate’ in Two Day International Career Development workshop organized by Dept. of Microbiology, Shaheed Rajguru college of applied science for women, Delhi University on 1<sup>st</sup> Oct 2020.
  22. Delivered talk on Overview of Covid19 vaccine in GUJCOST sponsored National Webinar organized by Dr. Dayaram Pharmacy college, Bardoli on 18/9/2020.
  23. Delivered lecture on ‘Players of Gene cloning’ in GSBTM sponsored Crash course (for The preparation of IIT JAM, Combined Biotech exam, TIFR MSc. exam etc) organized by Christ College, Rajkot on 13<sup>th</sup> Sept. 2020.
  24. Delivered online lecture on Recombinant DNA Technology on 27/07/2020 in E- crash course (NET-JRF preparation in life Science ) organized by Institute of Advanced Research, Gandhinagar and Sponsored by GSBTM, Gandhinagar.
  25. on ‘Optimum use of google platform for online teaching’ in faculty development program organized by Nirma University, Ahmedabad for its own faculties on 13<sup>th</sup> July 2020.
  26. Delivered online lecture On ‘Recombinant DNA Technology’ in 12 days E-Crash workshop (For preparation of IIT-JAM and JNU-CEEB) organized by N.B.Pass College , Anand and funded by **GSBTM**, Govt. of Gujarat on 15/06/2020.
  27. Delivered talk on Role of Biotechnology in the management of Disease in **International**



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- e-conference** jointly organized by Sandip University, Nashik and Biotechnology Society of Nepal on Emerging Trend in Bioscience and Technology on 2<sup>nd</sup> June 2020.
28. Delivered Talk On 'Important techniques to study protein/protein and protein/DNA interaction studies' in E-Crash course organized by GSBTM, Govt. of Gujarat on 06/05/2020 for the preparation of NET-JRF in Life Science.
  29. Delivered lecture on Red Biotechnology in National seminar organized on 'Green and Red Biotechnology: A conjecture of Pharmaceutical Sciences' by Dr. Dayaram Pharmacy college, Bardoli on 6<sup>th</sup> March 2020.
  30. Delivered lecture On 'Chemistry and mathematics for Biologists in 6 days Crash workshop (For preparation of IIT-JAM and JNU-CEEB) organized by Tolani Arts and Science College, Adipur and funded by **GSBTM**, Govt. of Gujarat for SY. BSc. on 17/02/2020.
  31. Delivered lecture On 'Recombinant DNA Technology' in 12 days Crash workshop (For preparation of IIT-JAM and JNU-CEEB) organized by Tolani Arts and Science College, Adipur and funded by **GSBTM**, Govt. of Gujarat on 17/02/2020.
  32. Delivered lecture On 'Chemistry and mathematics for Biologists in 12 days Crash workshop (For preparation of IIT-JAM and JNU-CEEB) organized by Pramukh Swami Science & H.D Patel Arts college Kadi, and funded by **GSBTM**, Govt. of Gujarat on 06/02/2020.
  33. Delivered lecture On 'Chemistry and mathematics for Biologists in 12 days Crash workshop (For preparation of IIT-JAM and JNU-CEEB) organized by Tolani Arts and Science College, Adipur and funded by **GSBTM**, Govt. of Gujarat on 03/02/2020.
  34. Delivered lecture to M.Sc. Students of Sri. A.N. Patel PG. Institute, Anand on 'Restriction Modification System' on 01/02/2020.
  35. Delivered talk to Doctor of Pharmacy students of Maliba Pharmacy College, Uka Tarsadia University on 'Recombinant DNA Technology and It's application' on 30/01/2020.
  36. Delivered invited talk on 'Gene cloning Strategy' at M.G.Science Institute, Ahmedabad on 22/1/2020 under CPE scheme of Institute.
  37. Delivered Talk On 'Chemistry and mathematics for Biologists and **Various strategies for gene cloning** in 12 days Crash workshop (For preparation of IIT-JAM and JNU-CEEB) organized by Ganpat University, Mehsana and funded by **GSBTM**, Govt. of Gujarat on 18/12/2019.
  38. Delivered Talk On 'Important techniques for study protein/protein and protein/DNA interaction studies' in 6 Days Crash course organized by ARIBAS, Anand and funded by **GSBTM, Govt. of Gujarat on 08/12/2019.**
  39. Delivered talk on 'Protein Engineering and Strategies for gene cloning in GSBTM sponsored crash course for UG students organized by Christ College, Rajkot on 25/11/2019.
  40. Delivered invited lecture on Various types of polymerase chain reaction and its application at President Science College, Ahmedabad on 06/07/2019.
  41. On 'Various Strategies for Gene cloning and Expression' in Summer training organized on 'Basic Molecular Biology Tools and Bioinformatics' organized by Dept. of Animal Biotechnology, Lala Lajpat Rai University of Veterinary and Animal Science, Hisar on 24/06/2019.
  42. Delivered Lecture as Chief Guest at Dr. Nagendra Jha Mahila College, Darbhanga on the occasion of World Environment day ( 5<sup>th</sup> June 2019).
  43. Delivered Lecture as Chief Guest at MLSM College, Darbhanga on the occasion of World Environment Day( 5<sup>th</sup> June 2019).





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44. Delivered Talk On 'Available fellowships for pursuing PhD and important techniques for protein/protein and protein/DNA interaction studies' in 6 Days Crash course organized by ARIBAS, Anand and funded by **GSBTM, Govt. of Gujarat on 26/05/2019.**
45. Career counseling of Xth Pass students and parents organized by Jagrut at I.G.Desai School Bhatar, Surat on 05/05/2019.
46. Delivered invited talk On 'Chemistry and Mathematics for Biologists' in 6 Days Crash workshop (For preparation of IIT-JAM and JNU-CEEB) organized by Tolani College of Arts and Science, Adipur and Sponsored by **GSBTM, Govt. of Gujarat on 9/04/2019 and 10/4/2019.**
47. Delivered talk on 'Various Strategies for Molecular cloning' to M.Sc. Microbiology (Sem I and II) students of Christ College, Rajkot on 14/02/2019.
48. Delivered talk on 'Players of Recombinant DNA Technology' in GSBTM sponsored Crash course for UG students organized by Christ College, Rajkot on 14/02/2019.
49. Delivered lectures on a) Why we should study science? b) opportunities for bioscience graduate c) Players of recombinant DNA technology d) Various strategies for molecular cloning and E) strategies for the production of recombinant protein in *E.coli* in a 3 days workshop organized by North Bengal St. Xavier's college, Jalpaiguri, Bengal from 11-13<sup>th</sup> Feb. 2019.
50. Delivered lecture in GSBTM sponsored national seminar organized by Dr. Dayaram Patel Pharmacy college, Bardoli on 'Biotechnology and its applicability in Healthcare sector' as resource person dated 08/02/2019.
51. Delivered lecture on **Various strategies for Gene Cloning** at Smt.S.S.Patel Nootan Science and commerce college, Sakalchand Patel University, Visnagar on 2<sup>nd</sup> Feb.2019.
52. Delivered Talk On '**Various strategies for gene cloning** in 6 Days Crash workshop(For preparation of IIT-JAM and JNU-CEEB) organized by Ganpat University, Mehsana and funded by **GSBTM, Govt. of Gujarat on 24/01/2019.**
53. Conducted full day workshop on 'Chemistry and Mathematics for Biologists' at Shree P.M. Patel institute of PG studies and Research in Science, Anand. On 05/01/2019.
54. Delivered Talk On '**Recombinant DNA Technology and on Career for Bioscience Graduate** in 6 Days Crash workshop (For preparation of IIT-JAM and JNU-CEEB) organized by Tolani College of Arts and Science ,Adipur and funded by **GSBTM, Govt. of Gujarat on 04/01/2019**
55. Delivered Talk On 'Why we Study science?' to S.Y. BSc. Participants in 6 Days Crash workshop (For preparation of IIT-JAM and JNU-CEEB) organized by Tolani College of Arts and Science ,Adipur and funded by **GSBTM, Govt. of Gujarat on 03/01/2019.**
56. Delivered Talk On '**Chemistry and mathematics for Biologists** in 6 Days Crash workshop(For preparation of IIT-JAM and JNU-CEEB) organized by Ganpat University, Mehsana and funded by **GSBTM, Govt. of Gujarat on 21/12/2018.**
57. On 'Available fellowships for pursuing PhD and important techniques for protein/protein and protein/DNA interaction studies' in 6 Days Crash course organized by ARIBAS, Anand and funded by **GSBTM, Govt. of Gujarat on 28/11/2018.**
58. On 'Application of Chemistry and Mathematics for Biologists' at Dr.I.P Patel Institute of Medical technology and Research, Anand on 28/11/2018.
59. On '**Why students Should Study Science**' at Samithi English Medium School ( Run by Kerala Kala Samithi), Surat to class XI and XII students of science streams on 24/11/2018.
60. On '**Why Students Should Study Science**' at Sri Krishna Rashtriya Uchhatar Madhyamik Hindi Vidhyalay (Devkinandan School) Pandesra, Surat to class XI and XII students of science streams on 06/10/2018.



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61. On **Polymerase Chain Reaction (PCR)** at Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, MSU Baroda on 29/09/2018.
62. On **'Recombinant DNA technology and its application'** to M. Pharm students at Maliba Pharmacy college, Uka Tarsadia University, Bardoli, Surat on 06/09/2018 and on 20/9/2018.
63. On **'Strategies for Molecular cloning and it's Expression in E.coli host'** at President Science College, Ahmedabad, Gujarat on 28/08/2018.
64. On **'Refresh your Chemistry and Mathematics for competitive examinations and Research'** in GSBTM sponsored workshop organized on Bio-Math and Chemistry for Microbiologist by Gujarat Art and Science College, Ahmedabad, Gujarat on 28/08/2018.
65. On **'Opportunities for Bioscience Graduate'** at Dollyben Desai Institute of computer science and allied Science, Palsana, on 25/08/2018.
66. On **'Refresh your Chemistry and Mathematics for competitive examinations and Research'** in GSBTM sponsored workshop organized on Chemistry and Mathematics for Biologists by President Science College, Ahmedabad, Gujarat on 06/07/2018.
67. On **'Pattern of NET-JRF exam and important techniques for protein/protein and protein/DNA interaction studies'** in 5 Days Crash course organized by ARIBAS, Anand and funded by GSBTM. on 06/06/2018.
68. On **Technology and Communication skill: A platform for commercialization of Scientific achievements** in a National workshop organized by MRM college Darbhanga on the theme of **'Role of Communication skill in the Emerging Trend of Sciences'** on 28/05/2018.
69. Delivered talk at University Department of Zoology, LNMU, Darbhanga in the occasion of Inauguration of Zoological Society on **'Cloning and Expression of Gene in E.coli host'** on 18/05/2018.
70. On **'Various Strategies of Molecular Cloning'** at Shree P.M.Patel postgraduate studies and Research in science, Anand on 10<sup>th</sup> Feb.2018.
71. On **'Strategies for the Production of Recombinant Protein in E.coli'** in National seminar on **'Recent Innovation in Biological Science'** organized by Municipal Art and Urban Bank Science college, Mehsana, Gujarat on 07<sup>th</sup> Jan 2018. Seminar was sponsored by GSBTM.
72. On **'Pattern of NET-JRF exam and important techniques for protein/protein and protein/DNA interaction studies'** in 5 Days Crash course organized by ARIBAS, Anand and funded by GSBTM. on 25<sup>th</sup> Nov. 2017.
73. On **'Availability of Research funding for Faculties and Researchers'** in one day National symposium on **'Research Project: proposal and grant'** organized by Shree Ram Krishna Institute of computer science and applied science, Surat, on 15<sup>th</sup> Sep. 2017. Symposium was sponsored by GujCost.
74. On **'How to prepare Competitive exam and How to get admission at JNU'** at Sarjana Nikhar Shivir organised by MRM college, Darbhanga on 11<sup>th</sup> June 2017.
75. On **'How to write a Successful Research Proposal for Grant'** in 17<sup>th</sup> faculty Development program of HRDC of Uka Tarsadia University, Bardoli, on 2<sup>nd</sup> May 2017.
76. On **'Characterization of putative Type IV secretion system of Bacillus anthracis'** in International conference on Strategy for environmental planning and management and mini symposium of occupational health organized by Biotechnology research society of India and School of Environmental Sciences, Jawaharlal Nehru University, New Delhi held from 11<sup>th</sup> Dec to 13<sup>th</sup> Dec.2016.



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77. On 'Characterization of putative Type IV secretion system of *Bacillus anthracis*' in 57<sup>th</sup> annual conference and international seminar organized by Association of Microbiologists of India(AMI) at Guwahati University Guwahati on 27<sup>th</sup> Nov.2016
78. On Pattern of NET-JRF exam and important techniques for protein/protein and protein/DNA interaction studies' in 5 Days Crash course organized by ARIBAS, Anand and funded by GSBTM. on 24<sup>th</sup> Nov. 2016.
79. On Pattern of NET-JRF exam and important techniques for protein/protein and protein/DNA interaction studies' in 5 Days Crash course organized by ARIBAS, Anand and funded by GSBTM. on 2<sup>nd</sup> June. 2016
80. On 'Genetic Engineering' to pharmacy and nursing students under IDSS cell of Uka Tarsadia University on 22/02/2016.
81. Under DBT sponsored expert talk on **Protein Engineering** at M. N. Virani Science College, Rajkot on 9<sup>th</sup> Jan.2016.
82. On Pattern of NET-JRF exam and important techniques for protein/protein and protein/DNA interaction studies' in 5 Days Crash course organized by ARIBAS, Anand and funded by GSBTM. on 2<sup>nd</sup> Dec. 2015.
83. In International conference on 'The Recent trends in Biotechnology and Biodiversity' organized by TNB College Bhagalpur, T.M. Bhagalpur university, Bihar on 27<sup>th</sup> to 29<sup>th</sup> July 2015 on Characterization of H.pylori Type IV secretion system.
84. On Pattern of NET-JRF exam in 5 Days Crash course organised by ARIBAS, Anand and funded by GSBTM. on 22 May 2015.
85. Delivered plenary talk in National Conference on Prospect of Biotechnology and Bioinformatics tools and their Application" organised by T. M. Bhagalpur University, Bhagalpur on **19th – 21st Jan.' 2015**.
86. In International conference on Emerging Trends in Biotechnology (ICETB 2014)& 11<sup>th</sup> convention of Biotech Research Society, India (BRSI) on '**Characterization of *H. pylori* type IV secretion system**' at JNU, New Delhi, on 9<sup>th</sup> Nov 2014.
87. Delivered motivational talk in Sarjana Nikhar Shivir organized by MRM College Darbhanga on 14-06-2014.
88. On **Recombinant protein production in *E.coli*** at Dept. of Microbiology and Biotechnology, School of Sciences, Gujarat university, Ahmedabad, Gujarat on 5<sup>th</sup> March 2014.
89. Delivered talk (as Resource person) on **Characterization of CagX protein of *H. pylori* Type IV Secretion System** at National Conference on Integrative Genomics (11-12 Feb 2014) organized by Sri Shankaracharya Mahavidyalay, Bhilai Nagar, Chattisgarh and sponsored by CGCOST.
90. At M.P. Patel Institute, Anand, Gujarat on **Strategy for the production of recombinant protein in *E.coli*** on 5<sup>th</sup> Feb 2014.
91. At Shri Alpes N. Patel P.G. Institute, Anand, Gujarat on **Strategy for the production of recombinant protein in *E.coli*** on 1<sup>st</sup> Feb 2014.
92. On '**Strategy for the production of Recombinant Protein in *E.coli***' at Shree Ram Krishna Institute Of computer Science and Applied Science, Surat, Gujarat on 17<sup>th</sup> Dec.2013.
93. On **Gene Expression Strategy**' in training course organized by Department of Animal Biotechnology, Hisar Agriculture University, Hisar, Haryana on 29<sup>th</sup> Oct.2012.
94. On "Opportunities in Biological Science research" at MLSM College, Darbhanga, on 3/11/ 2010 The talk was sponsored by career counseling cell of UGC.



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95. On “Opportunities in Biological Science Research at Marwari college, Darbhanga on 03/11/2010. The talk was sponsored by career counseling cell of UGC.
96. On “Opportunities in Biological Science’ at Samastipur College, Samastipur (March 9<sup>th</sup> 2011).
97. On “Opportunities in Life Science’ G.D college, Begusarai (13/03/ 2011, sponsored by UGC career counseling cell).
98. On ‘Opportunities in Biotechnology’ at Department of Biotechnology and Botany of Lalit Narayan Mithila University, Darbhanga.

### Professional/Research Training

#### TRAINING PROGRAMMES ATTENDED

1. Participated in short term online training programme on E-Content Development organized by **HRDC, Gujarat University** from 6<sup>th</sup> Aug to 12 Aug. 2020.
2. Participated in 3 days workshop on ‘Transgenic Trait detection of crop’ from 24-26<sup>th</sup> sept.2018 organized jointly by Junagadh agriculture university and **GSBTM**.
3. Participated 4 days workshop on development of Research Based Pedagogical Tools from 6<sup>th</sup> to 09<sup>th</sup> Oct 2017 at Raipur. This program was jointly sponsored by Newton Bhabha fund of British council, **UK, DBT, IISER Pune and MHRD**. It was conducted by a team of experts from the Centre of science education, Sheffield Hallam University, UK.
4. Participated in 4 week orientation course organized by **UGC, HRDC, JNU**, New Delhi from 25<sup>th</sup> July to 19<sup>th</sup> August. 2016.
5. Attended one week (March 11-15, 2013) workshop on ‘Discovery, Development and Commercialization of Biologics’ combinely organized by **CDSA, PATH,OWH and IIT Delhi**.
6. Attended 15 days ‘Technology Led Entrepreneurship Programme’ (9<sup>th</sup>) of **CSIR(HRDG) conducted by IIM Bangalore at CSIR-IICT Hyderabad**.
7. Done 3 month project (November 2004 – January 2005) entitled “Isolation of genomic DNA and RNA from *Jatropha curcus*” at Central salt and Marine Chemical Research Institute (CSIR), Bhavnagar, Gujarat.

### Publications

#### Research and Review paper:

- 1) Pal J, Sanal MG, **Gopal GJ**. (2011) Vitamin-C as anti-Helicobacter pylori agent: More prophylactic than curative- Critical review. *Indian J Pharmacol*.43:624-7.( Cited by:18) UGC No: 20844
- 2) **Gopal GJ**, Kumar A (2013) Strategies for The Production of Recombinant Protein in *Escherichia.Coli*. *Protein J*. 32: 419-425.( Cited by:280) UGC No: 32003
- 3) **Gopal GJ\***, Kumar A, Pal J, Mukhopadhyay G\* (2014). Molecular Characterization and Polyclonal antibody generation against core component, CagX protein, of *H.pylori* Type IV secretion system. *Bioengineered* 5:2, 1–7.( Cited by:5) UGC No: 14639
- 4) **Gopal GJ\***, Pal J, Kumar A, Mukhopadhyay G\*.(2015) C-terminal domain of CagX is responsible for its interaction with CagT protein of *Helicobacter pylori* type IV secretion system, *Biochem Biophys Res Commun* 456(1):98-103 (cited by :6) UGC No: 14553
- 5) Batra K\*, Nanda T, Kumar A, Kumar V, **Gopal GJ** and Maan S (2018) Molecular cloning and expression kinetics of serum interferon stimulated gene for early pregnancy detection, *Indian Journal of Animal Research(Print*



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- 6) **Gopal GJ\***, Kumar A, (May 2019) Why studies on H. Pylori Type IV secretion system is so slow? SN Comprehensive Clinical Medicine 1 (5) 339–341
- 7) **Gopal GJ\***, Pramanik R (2019), Technology and Communication Skills: A Platform for commercialization of Scientific Achievements, *Biojournal*, 14(1) 21-27.
8. Gopal Jee Gopal\*, Awanish kumar, (2020), Characterization of putative Type IV secretion system of Bacillus anthracis, *Indian Journal of Animal Research*-54(12)1525-1531

### **Books**

- 1) Gopal Jee Gopal\* and Rinka Sanatan Pramanik(2020), JNU-CEEB and IIT-JAM Biotechnology Solved paper and model questions, New Delhi Publishers, New Delhi.
- 2) Gopal Jee Gopal\*, Akash Karkar (2019), Chemistry and Mathematics for Biologist, APH Publishing Corporation, New Delhi.

### **BOOK CHAPTER**

- 1) Rinka Sanatan Pramanik and Gopal Jee Gopal\* (2020) Recombinant Protein Production in E. Coli Host' in *Microbes, Environment and Human Welfare*; Nova science Publishers, Ed: Tilak Saha and Bipransh kumar Tiwary PP-257-273.

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