**Dr. SONIA**

***Residence*:** *Flat 301, Anand Niketan apartment, Frontier colony, Adarsh nagar, Jaipur*

***Tel****: Mobile: 09833640615*

***E-mail:*** *soniakaura198@gmail.com*

***DOB****: 19-01-1979*

**Assignments in Research & Development with a high growth oriented research organization.**

**EXECUTIVE SUMMARY**

* Post Graduate Diploma holder in Environment Studies with 5 years of experience in mentoring and teaching students at graduate and post graduate level. (**Ph.D** in **Environmental Toxicology and Microbiology**)
* Exposure in planning and organizing day-to-day research activities and resolving procedural/ logistical problems as appropriate to the timely accomplishment of research objectives.
* *Qualified* ***SLET “State Level Eligibility Test for Lecturership”*** *in 2005.*
* Possess a flexible & detail oriented attitude with excellent relationship management skills & honed analytical, problem solving & organizational abilities.

**DOCTORATE ASSIGNMENT**

* **Ph.D in Environmental Toxicology** from Department of Zoology, Rajasthan University.

**ACADEMIC CREDENTIALS**

* P.G Diploma in Environmental Studies from Department of Environmental Studies, Rajasthan University in 2002.
* M.Sc (Bio-Technology) from BanasthaliVidyapith in 2001.
* B.Sc (Industrial Microbiology, Chemistry & Zoology) from Maharani College, Rajasthan University in 1999.
* TY B.Sc Sem VI Microbiology Paper IV First Half As an Examiner for Assessment of answer books University of Mumbai (April 2015)
* TY B.Sc Sem V Microbiology Paper IV Second Half As an Examiner for Assessment of answer books University of Mumbai (Oct 2015)
* TY B.Sc Sem VI Microbiology Paper IV First Half As an Examiner for Assessment of answer books University of Mumbai (April 2016)
* TY BSc Microbiology Semester VI Practical examination March 2016 as an Examiner in Mithibai college, Mumbai and Abhinav College, Mumbai 2016
* Examiner/Moderator in the subject of Microbiology S1001 / Microbiology : Paper IV- Bioprocess Technology & Environmental Microbiology (Rev.) (R-2016). S0125 / Third Year B. Sc. (CBSGS) (75:25) Semester V (Oct 2016)
* Examiner/Moderator in the subject of Microbiology S0126 / T. Y. B. Sc. (Sem - VI) (Credit Based Semester & Grading System) (75/25 Pattern) Subject S1174 / Microbiology: Paper IV- Bioprocess Technology - Part - II. (April 2017)
* Examiner/Moderator in the subject of Microbiology S0126 / T. Y. B. Sc. (Sem - VI) (Credit Based Semester & Grading System) (75/25 Pattern) Subject S1864 / Microbiology: Paper IV- Applied & Industrial Microbiology. (R-2016-17)
* Examiner/Moderator in the subject of Microbiology S1001 / Microbiology: Paper IV- Bioprocess Technology & Environmental Microbiology (Rev.) (R-2016). S0125 / Third Year B. Sc. (CBSGS) (75:25) Semester V (Oct 2016)
* Examiner/Moderator in the subject of Microbiology S0125 / Third Year B. Sc. (CBSGS) (75:25) Semester V Subject S1000 / Microbiology : Paper IV- Bioprocess Technology - Part - I. (Old)
* Examiner/Moderator in the subject of Microbiology S0126 / T. Y. B. Sc. (Sem - VI) (Credit Based Semester & Grading System) (75/25 Pattern) Subject S1174 / Microbiology: Paper IV- Bioprocess Technology - Part - II.
* Examiner/Moderator in the subject of Microbiology S0126 / T. Y. B. Sc. (Sem - VI) (Credit Based Semester & Grading System) (75/25 Pattern) Subject S1864 / Microbiology: Paper IV- Applied & Industrial Microbiology. (R-2016-17)
* TY B.Sc Microbiology Semester VI Practical examination April 2018 as an Examiner in Bandodkar college of science, Thane, Mumbai and Vivekananda College, Mumbai 2016
* Corrected SY B.Sc Microbiology Paper of Mumbai University
* Preparation of B. Vocational Course Syllabus of Food Technology –Food Processing and Quality Management approved by UGC
* Coordinator-Value added courses at Dr. B. Lal Institute of Biotechnology

**TEACHING ASSIGNMENTS**

1. Kanoria PG MahilaMahavidyalaya, Jaipur Lecturer Jul’01 to Feb’02
2. Maharani College, Jaipur Lecturer Aug’02 to Mar’06
3. MGIaS, Jaipur Lecturer Oct’06 to July’08
4. Dr. B. Lal Institute of Biotechnology Associate Professor May’2010 to May’2014
5. Lords Universal College, Mumbai Assistant Professor Nov’ 2014 to Jan’2017
6. Karamveer Bhaurao Patil College Assistant Professor Jan’2017to Nov’2018

Vashi, Navi Mumbai

1. Dr. B. Lal Institute of Biotechnology Associate Professor Dec’ 2018 till now

***Key Role;***

* Worked at Dr. B. Lal Institute of Biotechnology, Jaipur as a Academic Coordinator and Library Coordinator
* Worked at Dr. B. Lal Institute of Biotechnology as a Researcher
* Teach & tutor students by planning, preparing and presenting lessons on Environment Technology.
* Set and mark assignments and tests by assessing students' work for internally assessed components of qualifications.
* Foster healthy learning atmosphere in class and respond to all classroom queries in a spontaneous manner.
* Worked at Lords Universal College, Mumbai as an member of Research committee
* Worked at Karamveer Bhaurao Patil College, Vashi as an member of RPEC committee
* Working at Dr. B. Lal Institute of Biotechnology, Jaipur as a Academic Coordinator and IQAC Coordinator and Value added course coordinator
* Editorial Board Member of Austin Journal of Biotechnology & Bioengineering

**Technical/Professional Qualification**

Knowledge about all Microbiological and Molecular techniques including PCR, DNA isolation, RAPD, RFLP, Ligation, Protein Isolation and SDS PAGE.

Knowledge about all Microbiological techniques, Biochemistry techniques and Environment technique

**SUMMER TRAINING**

***Title:* Production of Gellan Gum from “*Sphingomonas paucimobilis*” at Birla Institute of Scientific Research, Jaipur.**

Details: The project was undertaken to study the production of Gellan Gum from the organism *Sphingomonaspaucimobilis*in various sugars including Lactose, Jaggery, Sucrose, Glucose.

**PROJECTS HANDLED**

***Title:* Qualification of Gonadotrophins in Swiss Albino Female by ELISA from day thirty to ninety at Department of Biocsience and Biotechnology, Banasthali Vidyapith, Banasthali**.

*Duration:* Jan’01-May’01

*Details:* Project involved detailed study to analyse and estimate the titres of LH and FSH in mice from puberty to 90 days to correlate the serum hormonal profiles with histological sections of ovary and uterus.

*Conclusion:* From the study it was concluded that female rat showed decrease in LH and FSH levels in serum from puberty to 90 days. Comparison of samples taken during morning, afternoon, evening hours showed an enhanced afternoon secretion of LH. The LH level was at peak during proestrous stage whereas FSH showed maximum level during estrous stage of estrous cycle. Histological section also marked changes with development.

**FIELD REPORT SUBMITTED**

*Title:* Study of Drinking Water (Underground) with particular emphasis on Nitrates and Bacteriological Examination of Water in Malviya Nagar Colony, Jaipur at Department of Environmental Studies, Rajasthan University, Jaipur.

*Duration :* Mar’02-Apr’02

**Student Teacher Projects Sanctioned (DST)**

***Title:*** In vitrooptimization of various factors affecting microbial enzyme production

***Title***: Comparison of Antimicrobial Activities of Spices Oils and their extracts on some Food borne Pathogens

***Title:*** In Vitro Optimization of various factors for the production of Exopolysaccharides from Microbes isolated from Soil and Rhizosphere region

***Title:*** Ecofriendly treatment of AzoDyes: Biodecolorization using Bacterial strains

***Title:*** Probiotic properties of Microorganisms isolated from Milk and Milk products

**Student Teacher Projects(KBP College Funded)**

1. Production of polyhydroxybutyrate by consortia formed from the Isolated obtained from garden soil- M.Sc II Student- Aishwarya Aklekar (Completed)
2. Production of Biopesticides from the microbes isolated from soil- M.Sc II Student- Rashmi kanade (Completed)
3. Isolation of Bioluminescent Bacteria- B.Sc SY Students- Mamta Tupe,Nisha Sawant, Shivani Wadam,Namrata Lokhande (Completed)
4. Electricity generation from microbes isolated from sewage sample-- B.Sc FY Students- Rutuja (Ongoing)
5. Isolation of Bioluminescent Bacteria and Their Application in Toxicity Testing-- B.Sc SY Students-Chirag, Rohit (Ongoing)
6. Increased organic acid production and decreased phytate phosphorous by high level of water content of *Bacillus subtilis* fermentation of soyabean meal –M.Sc Part II student Arpita
7. Antioxidant and Antimicrobial activities of Green Coffee–M.Sc Part II student Shraddha

**MINOR PROJECTS SANCTIONED (DST)**

***Title***: Comparative Study on effect of biopesticides and chemical pesticides on microbiological and biochemical indices of Soil

**MINOR PROJECTSSANCTIONED (KBP College Funded)**

***Title***: Microbial reduction of Chromium in Paper and Pulp Industrial effluents

**Student Teacher Projects (Dr. B. Lal institute of Biotechnology)**

1. Evaluation Of Vaginal Micro biota And Their Antibiotics Susceptibility Pattern Of High Vaginal Swab And Urine Culture In Symptomatic Women In Jaipur Region
2. Comparative study on effect of bio pesticides and chemical pesticides on growth parameters of food crops
3. Isolation of laccase producing microorganisms and its application as a sustainable approach
4. Prevalance of Antibiotic resistance genes and their association with antibiotics in wastewater treatment plant
5. Vermiwash preparation analysis and its impact on crop plants

**PUBLISHED PAPER**

1. Paper entitled “**Evaluation of Mutagenicity of Synthetic Pyrethroids by Salmonella Microsome Reversion Assay-Ames Test**”. \*Sonia Sethi, NupurMathur, PradeepBhatnagar. Toxicology International in 2007 ISSN No. Print -0971-6580, Online - 0976-5131**Included in Pubmed**
2. Paper entitled **“Antimicrobial Activity of Medicinal Plants on Urinary Tract Pathogens” Shrikant, \*Sonia Sethi, Gupta B Lal in International Journal of Pharmacy and Pharmacological Sciences in 2012 with IMPACT FACTOR of 0.91. ISSN 0975 – 1491.Indexed in Elsevier.**
3. Paper entitled **“Antimicrobial Activity of Spices against Isolated Food Borne Pathogens”\*SoniaSethi, AparnaDutta, B. Lal Gupta, Saksham Guptain International Journal of Pharmacy and Pharmacological Sciences in 2013 with IMPACT FACTOR of 0.91 and ICV of 2011.Indexed in Elsevier**
4. Paper entitled “**Optimization of alkaline protease production from Bacteria isolated from soil**” Pradeeppalsaniya, Rinkimishra, Nehabeejawat, \*Sonia sethi, B. Lalgupta in Journal of Microbiology and Biotechnology Research in 2013. CAS
5. Paper entitled “**Amylase activity of a Starch degrading bacteria isolated from soil**”Shyam Sunder
Alariya,\*Sonia Sethi, Sakhsam Gupta and B. Lal Guptain Archives of Applied Science research in 2013. Peer reviewed journal
6. Paper entitled “**Antimicrobial Activity of Medicinal Plants against Respiratory Tract Pathogens**” \*Sonia Sethi, PreetiDevnani, Mahesh Poonia, Saksham Gupta in International journal of Biological and Pharmaceutical research in 2013 with IMPACT FACTOR of 1.34 and ICV of 4.67.CAS and Indian Citation index 1.34
7. Paper entitled “**Optimization of Cellulase production from Bacteria isolated from Soil**”\*Sonia Sethi, AparnaDatta, B. Lal Gupta, and Saksham Gupta. ISRN BiotechnologyHindwaii publications in 2013.
8. Paper entitled “**Biodecolorization of Azo dye by Microbial isolates from textile effluent and Sludge**” \*Sonia Sethi, Shubhum, Mohan Mukeshmalviya, Neelam Sharma, Saksham Gupta. UJERT, Vol 2, issue 6, 2012 with ICV of 5.09**(UGC Listed journal) Cosmos Impact factor 4.596 h5 index 11**
9. Paper entitled “**Antibiotic production from microbes isolated from soil** \*Sonia Sethi, Ravi kumar, Saksham Gupta. Vol. 4, Issue 08; August, 2013 Issue of International Journal of Pharmaceutical sciences and Research with IMPACT FACTOR of 2.44. (**UGC approved Journal**)
10. Paper entitled “**A Review: Urinary tract infection and its treatment Naturally**. \*Sonia Sethi, Saksham Gupta. Volume 1 Issue 1of Vedic Research International journal.
11. Paper entitled “**Impact of pesticides and biopesticides on soil microbial biomass**”. \*Sonia Sethi, Saksham Gupta. UJERT, Vol 3, issue 2, 2013 with ICV of 5.09**(UGC Listed journal)Cosmos Impact factor 4.596 h5 index 11**
12. Paper entitled “**Growth response of Microbial Population exposed to Synthetic pyrethroids**\*Sonia Sethi, NupurMathur, PradeepBhatnagar. Volume 4 Issue 1 of International Journal of Environmental Sciences.
13. Paper entitled “**Effect of synthetic pyrethroids on Phosphate solubilizing activity of Soil microorganisms**” \*Sonia Sethi, Nupur Mathur, Pradeep Bhatnagar. Int.J.Curr.Microbiol.App.Sci (2013) 2(12): 240-246 with IMPACT FACTOR of 4.119
14. Paper entitled “**Antioxidant activity of medicinal plants**” Sonia sethi, Sakshamgupta, Ankithinshu, Smritirastogi. World journal of pharmacy and pharmaceutical sciences 2014 January issue 1 with IMPACT FACTOR of 7.42 (**UGC approved Journal**)
15. Paper entitled “**Heavy metal Impact on Soil Microbial Biomass, Soil dehydrogenase activity and Soil Respiration rate**” \*Sonia Sethi and Saksham Gupta. Int.J.Adv. Res.Biol.Sci.2014; 1(6):29-34 with IMPACT FACTOR of SJIF 6.433
16. Paper entitled “**Optimization of cultural parameters for cellulase enzyme production from Fungi**” \*Sonia Sethi and Saksham Gupta. Biolife | 2014 | Vol 2 | Issue 3 with IMPACT FACTOR of SJIF4.175.
17. Paper entitled “**Optimization of Protease production from Fungi isolated from Soil**”\*Sonia Sethi and Saksham Gupta. International journal of applied biology and pharmaceutical technology . Volume 6, issue 3, Page no. 149-154, 2015 with Impact factor 1.2653.
18. Paper entitled “**Isolation, Characterization and Optimization of cultural conditions for Amylase production from Fungi**” \*Sonia Sethi and Saksham Gupta. Journal of Global Biosciences, Volume 4, Number 9, Page no.3356-3363, 2015 with IIFS impact factor 1.115.
19. Paper entitled “**Responses of Soil enzymes to heavy metals**” \*Sonia Sethi and Saksham Gupta. Biolife | 2015 | Vol 3 | Issue 1/ Page no. 147-153 with IMPACT FACTOR of SJIF 4.175.
20. Paper entitled “**Evaluation of Antimicrobial and Antioxidant Activity of Medicinal Plants**” \*Sonia Sethi, SimranKhanna, Airambano Khan and Nanda Hatti. World journal of pharmacy and pharmaceutical sciences, Volume 4 , Issue 5, Page No. 1403-1413, 2015 with impact factor 7.42 (**UGC approved Journal**)
21. Paper entitled “**Microbial population response exposed to different pesticides**” \*Sonia Sethi, Shubhadapophle, Nandinivarte, Christina Salve and Sanjay waghela. International Journal of Scientific Engineering and Applied Sciences, Volume 1, Issue 5, Page no.250-266, 2015 with impact factor 3.466.
22. Chapter entitled “**Antimicrobial Spices: Use in Antimicrobial Packaging**” in Book “Antimicrobial Food Packaging published by international publisher **Elsevier in 2016**
23. Paper entitled “**Analysis of Water Quality using physicochemical and microbiological parameters in Verjeshwari reservoir of Mumbai, India**” \*Sonia Sethi, AlokPandey, AkshayPalande. International Journal of Applied and Natural Sciences; 5(3), 2016:107-114. Impact Factor (JCC):4.876.
24. Paper entitled”**Biodecolorization of Azo dye by Microbial isolates from Soil**” \*Sonia Sethi, Archana, Sangeeta. International Journal of Current Research; Volume8, Issue 05, 2016 with impact fatorSJIF 7.617
25. Paper entitled” **Optimisation Of Parameters For Fermentation Conditions Of Phosphate Solubilising Bacteria”** \*Sonia Sethi, Sakhsham Gupta. Global Journal of Biology, Agriculture & Health Sciences; Vol 5, 2016. Impact factor SJIF 3.122
26. Paper entitled “**Microbiological Analysis Of Street-Vended Fruit Salad in Mumbai”** \*Sonia Sethi, Ashwini.Global journal for research analysis; Volume-5, Issue-11, November – 2016. SJIF 5.156
27. Paper entitled” **Evaluation of antimicrobial and antioxidant activity of tea leaves**” \*Sonia Sethi, Dimple Yadav, Neha Pal and Harshangi. European Journal of Biomedical and Pharmaceutical Sciences; Vol 3 issue 12, November 2016. Impact factor 4.918 **(UGC approved Journal)**
28. Paper entitled” **Responses of Soil Enzymes to Pesticides and Biopesticides in Soil”** Sonia Sethi, Sakhsham Gupta. International Journal of Recent Scientific Research**;** Vol. 7, Issue, 11, pp. 14108-14112, November, 2016.
29. Paper entitled” **Evaluation of antimicrobial and antioxidant activity of polyherbal formulation**” Sonia Sethi, BhowadSukanya, GuravKajal, **2017.**. International Journal of Phytopharmacology. 8(1), 2017, 16-22. Impact factor 1.02 and GJIF-4.89.
30. Paper entitled”**Probiotic properties of Lactobacillus isolated from milk samples**” Sonia Sethi, Sakhsham Gupta. Impact Journals: International journal of Research in Applied, Natural and Social sciences,6(2); 69-76, Feb 2018. Impact factor (JCC) 3.6754. **(UGC approved Journal).**
31. Paper entitled” **Isolation and Characterization of Beta Galactosidase Producing Bacteria from Soil”** Sonia Sethi, Sakhsham Gupta. International Journal of Creative Research Thoughts, 6 (2); 356-361, April 2018. Impact factor 5.97. **(UGC approved Journal)**
32. Paper entitled “Synthetic Pyrethroids: A Review”**Sonia Sethi, Nupur mathur and Pradeep Bhatnagar.** International Journal of Scientific & Engineering Research Volume 11, Issue 1, January-2020. Impact factor 4 **(UGC approved Journal)**
33. Paper entitled “**Effects of insecticide (imidacloprid & profex) and biopesticide (*pseudomonas & trichoderma*) on growth and nutritive composition of millet (jowar) & sorghum (bajra)” International Journal of Agriculture Sciences** ISSN: 0975-3710 & E-ISSN: 0975-9107, Volume 12, Issue 14, 2020, pp.-10062-10066. Impact factor-4.7
34. Chapter Entitled” **Soil Contamination: A menace to Life**” Intech open -open access International publisher
35. Chapter entitled” **Approaches to anti infective therapies” in Book ‘Recent approaches in the development of anti-infective agents**’ By Bentham science publishers in 2021
36. Chapter entitled” **Gastroenteritis: symptoms and epidemiology of sars-cov-2 ” in Book ‘**Coronaviruses’ By Bentham science publishers in 2021
37. Chapter entitled” **Biochar and Microbes: Collaborative approaches for bioremediation of industrial effluents** “ in Book **Biochar and its application in Bioremediation by Springer in 2022**
38. Chapter entitled” **Utilization of beneficial fungal strain/bacterial strains in** **climate-resilient agriculture”** in **Book Microbiome Under Changing Climate: Implications and Solutions by Elsevier in 2022**
39. Chapter entitled” **The use of Bio-Pesticides for sustainable farming: way forward towards sustainable development goals (SDGs)” in Book**

**Subject/ Section Strengths**

Molecular Biology, **Microbiology, Biotechnology**, Molecular Biophysics, Instrumentation, Environmental biotechnology, Industrial Biotechnology, Dairy and food technology and Biochemistry

**co-curricular activities**

**Conducted**

* Joint Secretary for one day Workshop on “Techniques in Biotechnology- Molecular Biology and Medical Biotechnology”, Indian Science Congress Association, Jaipur Chapter, December 15, 2012, Jaipur.
* Joint Secretary one day intercollegiate fest BIOCHROME, Indian Science Congress Association, Jaipur Chapter, November 3, 2012, Jaipur.
* Joint Secretary for one day Workshop on “Techniques in Biotechnology- Molecular Biology and Immunotechnology”, Department of Science and Technology, Government of Rajasthan, September 25, 2010, Jaipur.
* Organizing Committee member of BIOINFOCAD –Bioinformatics One day National Workshop at Dr. B. Lal Institute of Biotechnology in collaboration with DST, Govt of Rajasthan and CIRD Jaipur.
* Organizing Committee member of BIOESD –Two day National Conference on Biotechnology and Environment For sustainable development at Dr. B. Lal Institute of Biotechnology in collaboration with DST, Govt of Rajasthan and CIRD Jaipur,29th –30th March 2019
* Organizing Committee member of National Science Day –“Womens in Science” One day Symposium at Dr. B. Lal Institute of Biotechnology in collaboration with DST, Govt of Rajasthan and Dr. B.Lal Clinical Laboratory, 25th February 2020.

 **ATTENDED**

1. 22nd Annual session of The Academy of Environmental Biology Symposium/ BRPM Competetion on “ Biodiversity and Resource management. 11-13th September 2002, Organised by National Bureau of Fish Genetic Resources, Lucknow (India).
2. National Symposium on Recent Trends in Biology and Biotechnology and 23rd Annual Session of The Academy of Environmental Biology Organised by Department of Zoology, Shivaji University, Kolhapur, 9-11th October 2003.
3. STOX, National Symposium on GLP and Regulatory issues and CE courses on GLP, 28-30thth October 2004 at Shree ChitraTrivnalInstitutute for medical Science and Technology, Trivananthapuram.
4. 74th Annual Session and National Symposium on Science and technology for Desert Development Organised by National Academy of Sciences, India December 2-4th , 2004.
5. Botanical Seminar and Expoproducts 2005, 5-7th Feb at UOR, Rajasthan
6. 25th Annual session of The Academy of Environmental Biology Symposium on recent trends in Environemtal biology and biotechnological Approach to conserve Biodiversity 22-24th October 2005, organised by Department of Zoology, Gulbarga University, Gulbarga.
7. International Conference on Toxicology, Environmental and occupational Health, 14-17th November 2005, ITRC, Lucknow.
8. National conference on Environment and Natural Disaster management November 28-30th , 2005, Department of Zoology, UOR, jaipur under the auspices of Indian Academy of Environmental Science and Centre for Advanced studies in Zoology.
9. Biotech: Oppurtunities and Challanges in India 17th April 2008 (DST, Rajasthan) at ICG, Jaipur.
10. Three days Workshop cum Training program on Computational methods in Molecular Biology 14-16th January 2011 organised by Bioinformatics Centre BISR, jaipur.
11. Lecture Series on biotechnology:Potentials and Concerns: Indian Science Congress Association (Jaipur Chapter) 25-26th November 2011.
12. XXXI Annual Conference of STOX, India and International Symposium on current trends in Enviromental Toxicology, 22-24th December 2011.
13. One day Workshop on “Techniques in Biotechnology- Molecular Biology and Immunotechnology”, Department of Science and Technology, Government of Rajasthan, September 25, 2012, Jaipur.
14. Two days National seminar for Shaping the Future of India, University of Rajasthan, October, 6-7’2012.
15. One day intercollegiate fest BIOCHROME, Indian Science Congress Association, Jaipur Chapter, November 3, 2012, Jaipur.
16. One Day workshop On Techniques in Molecular Biology Supported by DST, Jaipur Saturday 29th June 2013.
17. National seminar and Science Model Exhibition on ‘Innovations in Science and Technology for Inclusive development’ 16-17 January 2014 in association with Indian Science Congress Association (Jaipur Chapter).
18. National Conference on Food Base Strategies: An inititaitve to combat Micronutrient deficiencies organised by IIS University, Jaipur in collaboration with National Health mission and UNICEF, jaipur, 21-22 Jan 2014
19. National Sciemce Day 2014 Organised by Regional Science Centre Jaipur organised by DST, Jaipur, Feb 26-28, 2014.
20. One Day Seminar on “Biotechnology Innovation, its need and Promotion” 15th MAY 2014.
21. National Conference on Environmental Issues, Toxicology and Exposure Science Sponsored by UGC, September 20-21, 2013, organised by Agarwal P.G. College, Jaipur
22. TY B.Sc Syllabus Revision Workshop held at Wilson College 18th June 2016 Department of Microbiology.
23. Two Day Workshop on Bioinstrumentation on 24-25th Jan 2017 organised by Department of Microbiology in collaboration with Bioanalytical Science
24. Workshop on Integrating concepts in the undergraduate biology Laboratory course at HomiBhabha Centre for Science Education (TIFR) on September 7-8th 2017.
25. Faculty Development programme in Entrepreneurship Development at KBP college, Vashi on Feb 14, 15 and 16th 2018.
26. Two day National conference on “ Biodiversity Conservation for a Sustainable Future organized by Department of Botany, IIS university on 11-12 October 2019 and contributed by co authoring abstract entitled Effects of Pesticides and Biopesticides on growth and nutritive composition of Sorghum and Pearl Miller crop plants.
27. One day National seminar on Role of plants in conventional medicine, on September 30 2019.
28. Two day National seminar on Current strategies and challenges on diagnosis, treatment and control of covid-19 by Jiwaji university Gwalior on 15-16th  July 2020
29. One day National seminar on Selection of journals for research paper publication Vpms b. N. Bandodkar college of science, thane on 29th July 2020
30. One day National seminar on Ethics in Research Publications Innovative education & Scientific Research Foundation on 2nd August 2020
31. One day National seminar on Startup and artificial intelligence in pharmaceutic+als Society of pharmaceuticals sciences and research on 16/8/2020
32. One day National seminar on Cornerstone of scientific publication- getting published an article", "literature review", "plagiarism" and "peer review" presented by Panel of editor-in-chief of medical research journal Innovative education & Scientific Research Foundation on 17th August 2020
33. One day National seminar on Miccroprotiens: novel tool to bioengineer future ready plants Bioingine –plant science research on 17 August 2020
34. One day National seminar on National education policy (nep) Career launcheron 18th August 2020
35. One day National seminar on Strategies for writing good research article Dept of commerce, mnaipal academy of higher education30 August 2020
36. One week online fdp on imparting online teaching learning methodology during covid -19pandemic E & ict academy iit guwahati From 17-24th August 2020
37. One week online fdp on ipr E & ict academy iit guwahati From 4-9th September 2020
38. One day National seminar on Crispr in agriculture: contect of improving wue Bioingine –plant science research on 12Sept 2020
39. One day National seminar on Adolescent Health during COVID19 Pandemic ISSSRF Dept of Zoology UOR Jaipur on 19th sept 2020
40. One day National seminar on Career opportunities in scientific writing and Publishing Faba academy on 4th nov 2020
41. Towards raising crops for saline and dry lands Bioingine –plant science researchon 6th Nov 2020
42. One day National seminar on Best practices webinar series- administrationa acumen and academic excellence- NAAC Ss jain subodh college jaipur 6th nov 2020
43. One day National seminar on Chromosomal abbreations in reproduction Dept of Microbiology, Govt college Khandola Goa on 9th Nov 2020
44. One day National seminar on Revised accreditation framework of NAAC quality enhancement practices in higher education Ss jain subodh college jaipur on 25th oct 2020
45. One day National seminar on Promoting agricultural trade from india: trends, Methodological issues & covid-19 Impacts Organised by the department of Economics, aligarh muslim university, aligarh Wednesday, 16 december, 2020
46. Two day International conference Biocon 2020 Biyani grop of colleges, jaipur17-19 dec 2020
47. Two day National webinar of ideal manuscript a webinar on exploration of scientific manuscript writing Organized by the department of chemistry, school of science, RK university. 21st to 22nd december 2020
48. One day National seminar on Inborn errors of metabolism and genetic counseling current scenario in india Dept of medical genetics mgm scool of biomedical sciences29th dec 2020
49. One day National seminar on How to recognize your review on publons and basics of review Innovative education & scientific Research foundation2/01/2021
50. One day National seminar on Impact of covid 19 on pharmaceutical Education and research’ Organized by society of pharmaceutical sciences and research (spsr) On January 8, 2021
51. One day National seminar on countering the rise of superbugs through anti-microbial resistance Organized by society of pharmaceutical sciences and research (spsr) february 21, 2021
52. National level fdp on advanced tools & techniques in biotechnology for startup ecosystem development Ssip cell, department of biotechnology pamukh swami science and h.d.patel arts college and dr.b.lal institute of biotechnology, jaipur from 15-20th Febbruary 2021
53. Annual "national science day" workshop Department of biophysics, university of mumbai18-19th march, 2021
54. E workshop on Intellectual property rights School of life sciences, JNU, in collaboration with Entrepreneurship and career hub (ECH), UOR, Jaipur on 30th April 2021
55. policy initiative and Quality enhancement in higher education” Academic research group,kolar(a research oriented academic body)“srinivasa”, ngos layout, udayagiri extension, harohalli main road, kolar-563101 from 5-11th May 2021
56. National webinar on Our Solution s are in Nature- Development of organic input production of prganic farming technologies Directorate of research , Maharana pratap university of agriculture and technology, Udaipur, Rajasthan on 22nd May 2021
57. International webinar on stem cell and its therapeutic applications Dept of microbiology, Ayya Nadar Janaki Ammal college, Sivakasi Tamil nadu on 4th June 2021
58. National e seminar on World Environment day Dominant college of education Dausa, Rajasthan 5th June 2021
59. International Symposium on IoT and ML for Ecosystem Restoration & Multi-Hazard Resilience Amrita university & ESRI India on 5th June 2021
60. National E colloquium on Nano Aspect of Nature organised by OM College of Science and PG centre on 12th June
61. International conference on Post CoViD-19 associated Black & white Fungal infections: Disease has no color organised by Dept of Bioscience, School of basic sciences, Faculty of Science and Directorate of Admissions, manipal University on 14th June 2021
62. International seminar on Plant tissue culture: Current trends and future perspectives organised by Dept of Biotechnology, GSFU University, Gujarat, India on 17-19th June
63. National e seminar on“About Pandemics in General & Covid-19 Pandemic in Particular” organised by School of Biotechnology and Bioinformatics, D. Y. Patil Deemed to be University, Navi Mumbai on 31st July, 2021
64. “ ‘Online FDP on "IPR" in association with BN College, Dhubri IIT Gwahati Assam from 23-28th August 2021
65. ONLINE INDUCTION TRAINING/ORIENTATION PROGRAMME FOR FACULTIES IN UNIVERSITIES/ COLLEGES/INSTITUTES OF HIGHER EDUCATION (ADVANCED) organised under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) scheme. Ramanujan College, New Delhi Through rmoocs from 23rd July to 24th August 2021

**Paper presentation**

1. Poster presentation at National Symposium on Recent Trends in Biology and Biotechnology and 23rd Annual Session of The Academy of Environmental Biology Organised by Department of Zoology, Shivaji University, Kolhapur, 9-11th October 2003
2. Poster presentation at XXXI Annual Conference of STOX, India and International Symposium on current trends in Environmental Toxicology, 22-24th December 2011
3. Paper presentation at Two days National seminar for Shaping the Future of India, University of Rajasthan, October, 6-7’2012.
4. Paper presentation at National Conference on Environmental Issues, Toxicology and Exposure Science Sponsored by UGC, September 20-21, 2013, organised by Agarwal P.G. College, Jaipur
5. Paper Presentation at Research Scholar meet organised by KBP College, Vashi, Navi Mumbai, Jan 23rd 2017.
6. Paper presentation on Molecular characterisation of urine and vaginal samples and their antibiotic susceptibility pattern associated with β- lactamases resistance gene at National conference Emerging strategies in antimicrobial agents and bio-innovations" Organized by RK university, Rajkot, Gujarat (India) in association with microbiologist society, India, and GSBTM on 18-19th dec
7. Poster presentation at international conference of BSEAH Foundation on topic Screening of laccase enzyme activity in fungal species and its application organised by MNIT Jaipur in April 2021

Consultancy?Bioservices Done:

1. Isolation of Phenol degrading Microorganism from Soil and its degradation by the consortia of Microroganisms

Requested by: SISMIRA, Mr Pramod Salunkhe

1. Production and extraction of PHB

Requested by: SISMIRA, Mr Pramod Salunkhe

1. “Determination of ***Streptococcus mutans*** count and pH of patients’ saliva after usage of stevia and xylitol chewing gum”.

Requested by: Dr. Mitali Shinde, DY Patil College

1. Analysis of Milk samples (SPC count )

Requested by BASK foundation, Jaipur

1. Quantititative estimation of urease activity in given isolates (7)

Requeeted by Eyuva Centre, University of Rajasthan

Paper reviewed:

1. Antibacterial activity of moringa oleifera root bark extract against some pathogenic organisms. Asian journal of immunology
2. Microbial community of hydrocarbon impacted sites of bodo oilfield,ogoniland rivers state, nigeria Microbiology research j international
3. Statistical optimization of cellulases by talaromyces thermophilus utilizing saccharum spontaneum a novel substrate Electronic journal of biotechnology (elsevier)
4. **Toxicological Assessment of Crops Grown in Soils Amended with Municipal Solid Waste Ash** Manuscript Number: **Ms\_JSRR\_64995** Plant cell biotechnology and molecular biology
5. Resource-Saving Technologies In Cotton-Growing Economic Efficiency Indicator Systems Jouranl of acientific research and report