

## CURRICULUM VITAE

**DR. ANKITA DUA**

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### **Designation**

- Assistant Professor (Ad-hoc), Department of Zoology, Shivaji College, University of Delhi
- Ph. D (completed under the supervision of Prof. Rup Lal)

### **Education**

Ph. D.	Department of Zoology, University of Delhi	2014	NA
M.Sc. Zoology	Hindu College, University of Delhi	2010	75.6
B.Sc. (H) Zoology	Sri Venkateswara College, University of Delhi	2008	79.8
Class XII	Springdales School, Dhaula Kuan (CBSE)	2005	85.2
Class X	Springdales School, Dhaula Kuan (CBSE)	2003	85.6

### **Title of Ph. D Thesis**

“Sequencing and Comparative Genomic Analysis of Two Proteobacterial Strains- *Agrobacterium* sp. UHFBA-218 and *Acinetobacter* sp. HA”

### **Awards**

- Received “**Certificate of appreciation**” for project titled “Lifestyle disorders: Etiology, Awareness & Management” for being selected for research display at the Convention Centre, by University of Delhi on November 19<sup>th</sup>, 2016.
- Received certificate for project with “**Most Significant Societal Impact**” at the Research Display at the Convention Centre, , on November 19<sup>th</sup>, 2016.
- Awarded “**Certificate for being Resource Person**” in the ‘Workshop for Laboratory staff in Chemical and Life Sciences’ from May 31<sup>st</sup> – 03<sup>rd</sup>, June, 2016 in Shivaji college, University of Delhi
- Awarded “**Certification of participation**” in one day workshop on “Biochemistry of Metabolic Processes” held on 2<sup>nd</sup> February, 2015 at Kirori Mal College, University of Delhi, Delhi-110007.

- Awarded “**Certificate for Organizing**” the ASM Virtual Workshop on ‘Art of Science Communication’ at the Department of Chemistry, University of Delhi on 31st March, 2014.
- Awarded “**Certificate for Organizing**” the ASM Virtual Workshop on ‘Art of Science Communication’ at Amity University, Noida on 26<sup>th</sup> March, 2014.
- Awarded “**Certificate for Organizing**” the ASM Virtual Workshop on ‘Art of Science Communication’ at the Platinum Jubilee International ASM-AMI Workshop at Maharshi Dayanand University, Rohtak, Haryana on 4<sup>th</sup> March, 2014.
- Awarded “**Certificate of Completion**” at the ASM Virtual Workshop on ‘Art of Science Communication’ at Indian Institute of Technology (IIT) Roorkee, Uttarakhand on 8<sup>th</sup> February, 2014.
- Awarded “**Certificate of Recognition**” as the Co-President for the Establishment of the ASM International Student Chapter Inaugurated at the 54<sup>th</sup> Annual Conference of the Association of Microbiologists of India.
- Awarded “**Certificate of Appreciation**” as Staff Organizer in the “Workshop on Basic Techniques in Biotechnology” held at Department of Zoology, Ramjas College, University of Delhi from 11<sup>th</sup>-13<sup>th</sup> October, 2011.
- Awarded “**Certificate of Completion**” at the ASM Virtual Workshop on Scientific Writing and Publishing on 6<sup>th</sup> February, 2013 at Sri Venkateswara College.
- Awarded “**Certificate of Completion**” at the ASM Virtual Workshop on ‘Culture of responsibility and Art of Science Communication’ at Convention Centre, Jawaharlal Nehru University (JNU), Delhi on 3<sup>rd</sup> September, 2013.
- Awarded “**Certificate of Completion**” at the ASM Virtual Workshop on ‘Art of Science Communication’ at Indian Institute of Technology (IIT) Roorkee, Uttarakhand on 8<sup>th</sup> February, 2014.
- Awarded “**Best Poster Award**” at the 53<sup>rd</sup> Annual Conference of Association of Microbiologists of India (AMI) entitled “Microbial World: Recent Innovations and Future Trends” held at KIIT University, Bhubaneswar, India from 22<sup>nd</sup> – 25<sup>th</sup> November, 2012 for presenting the poster entitled “Genome Sequence of *Acinetobacter* sp. Strain HA, Isolated from Gut of Polyphagus Insect Pest *Helicoverpa armigera*”.
- Awarded **CSIR-JRF** (All India Test for Junior Research Fellowship & Eligibility for Lectureship) in 2010.
- Selected for the “**Science Meritorious Award**” by the University of Delhi for the academic year 2006-2007.
- Secured **IIIrd position in UDSC** examination in both 2007 and 2008.
- Awarded the ‘**Dr. O.B. Tandon Memorial Gold Medal**’, “**Bharatula Savitri Memorial Cash Prize**”, “**Balaji Merit Medal**” and “**Mrs. P. Gupta Meritorious Medal**” for securing highest marks in B. Sc. (H) Zoology in Sri Venkateswara College in 2008.
- Awarded **Certificate of Merit** for Active Participation as “**President of Chiasma**”, the Zoological Society of Sri Venkateswara College.

### Research Projects

- Project Investigator of University Innovation Project (Session 2016-17): Lifestyle Disorders: Etiology, Awareness & Management

### Research Publications

1. Sood, U., Dhingra, G.G., Anand, S., Hira, P., Kumar, R., Kaur, J., Verma, M., Singhvi, N., Lal, S. Rawat, C.D., Singh, V.K., Kaur, J., Verma, H., Tripathi, C, Singh, P., **Dua, A.** et al. 2022. Microbial Journey: Mount Everest to Mars. *Indian J Microbiol* [<https://doi.org/10.1007/s12088-022-01029-6>]
2. Saxena, A\*, Dua, A\*, Talwar, C., Singh, M. & Lal, R. 2022. Environmental impact of the COVID-19 pandemic. *Biosphere* 1:1-70.
3. Anand, S., Lal, S., Sood, U., Gupta, V., Dhingra G.G., Solanki, R., Kaur, J. Kumar, R., Saxena, A., **Dua, A.** et. al. 2021. The Alphabet of the Elementary Microbiology: Revisited. *Indian Journal of Microbiology* Vol 61: 397-400 [<https://doi.org/10.1007/s12088-021-00987-7>]
4. Dhingra, G.G., Saxena, A., Nigam, A., Hira, P., Singhvi, N., Anand, S., Kaur, J., Kaur, J., **Dua, A.** et al. (2021). Microbial World: Recent Developments in Health, Agriculture and Environmental Sciences. *Indian Journal of Microbiology* Vol 61:pp 111–115.
5. Malik, D., Thakur, J., **Dua, A.**, Aggarwal, J. & Nijhawan, S. 2016. Irregularities of the Ovarian Cycle in Young Females: Etiology, Awareness and Management. *International Journal of Biotechnology and Biomedical Sciences*. Vol 2(1): 57-59 [ISSN: 2454-4582]
6. Malik, D., Thakur, J., **Dua, A.**, Aggarwal, J. & Nijhawan, S. 2016. Lifestyle Disorders: A Case Study of Quetelet's Index and WHR in Undergraduate Students. *Proceedings of International Conference on Public Health: Issues, Challenges, Opportunities, Prevention, Awareness 2016*, pp 232-236 [ISBN: 978-93-85822-10-0]
7. Malik, D., Thakur, J., Aggarwal, J., **Dua, A.**, Nijhawan, S., Kumar, A., Kaur, K., Aggarwal, H., Mehta, D., Verma, H., Subhasis, Sheetal, Singh, A., GM Akshay & Yadav, M. 2016. Quetelet's Index and Body Fat Percentage Assessment in Indian Undergraduate Students. *DU Journal of Undergraduate Research and Innovation*. 2(1):56-69. [ISSN: 2395-2334] [Peer reviewed]
8. Garg, N., Lata, P., Jit, S., Sangwan, N., Singh, A.K., Dwivedi, V., Niharika, N., Kaur, J., Saxena, A., **Dua, A.**, Nayyar, N., Kohli, P., Geuke, B., Kunz, P., Rentsch, D., Holliger, C., Kohler, H-P. E. and Lal, R. 2016. Laboratory and field scale bioremediation of hexachlorocyclohexane (HCH) contaminated soils by means of bioaugmentation and biostimulation. *Biodegradation*. Pp 179-193. [ISSN: 0923-9820 ; IMPACT FACTOR: 2.208][UGC Listed & SCOPUS indexed]
9. Malhotra J., Aparna K., **Dua A.**, Sangwan N., Trimurtulu N., Rao DLN and Lal R. 2015. Microbial and genetic ecology of tropical Vertisols under intensive chemical farming. *Environ. Monit. Assess.* **187**:4081. [ISSN: 0167-6369 ; IMPACT FACTOR: 1.633] [UGC Listed & SCOPUS indexed]
10. **Dua, A.**, Malhotra, J., Saxena, A., Khan, F. and Lal, R. 2013. *Devosia lucknowensis* sp. nov., a bacterium isolated from hexachlorocyclohexane (HCH) contaminated pond soil. *J. Microbiol.* **51(5)**:689-94. [ISSN: 1225-8873 ; IMPACT FACTOR: 1.621] [UGC Listed & SCOPUS indexed]
11. **Dua, A.**, Sangwan, N., Kaur, J., Saxena, A., Kohli, P., Gupta, A.K. and Lal, R. 2013. Draft genome sequence of *Agrobacterium* sp. UHFBA-218 isolated from rhizosphere soil of crown gall infected *Prunus* sp. rootstalk-Colt. *Genome Announc.* 1(3):e00302-13. [ISSN: 2169-8287; IMPACT FACTOR: 1.18] [SCOPUS indexed]
12. Kaur, P., **Dua, A.**, Sangwan, N., Oldach, P., Khurana, J.P. and Lal, R. 2013. Draft genome sequence of *Sphingobium ummariense* Strain RL-3, a hexachlorocyclohexane-degrading bacterium. *Genome Announc.* 1(6):e00956-13. [ISSN: 2169-8287; IMPACT FACTOR: 1.18] [SCOPUS indexed]
13. Jindal S., **Dua, A.** and Lal, R. 2013. *Sphingopyxis indica* sp. nov., isolated from a high dose point hexachlorocyclohexane (HCH) contaminated dumpsite. *Int. J. Sys. Evol. Microbiol.* **63**: 2186-2191. [ISSN: 1466-5026; IMPACT FACTOR: 2.782] [UGC Listed & SCOPUS indexed]

14. Malhotra, J., **Dua, A.**, Saxena, A., Sangwan, N., Mukherjee, U., Pandey, N., Raman, R., Khurana, P., Khurana, J.P. and Lal, R. 2012. Genome sequence of *Acinetobacter* sp. HA isolated from the gut of polyphagous insect pest *Helicoverpa armigera*. *J. Bacteriol.* **194**, 5156. [ISSN: 0021-9193; IMPACT FACTOR: 2.688] [UGC Listed & SCOPUS indexed]
15. Saxena, A., Anand, S., **Dua, A.**, Sangwan, N., Khan, F and Lal, R. 2012. *Novosphingobium lindaniclasticum* sp. nov., a hexachlorocyclohexane (HCH) degrading bacterium isolated from HCH Dumpsite. *Int. J. Sys. Evol. Microbiol.* **63**: 2160-2167. [ISSN: 1466-5026; IMPACT FACTOR: 2.782] [UGC Listed & SCOPUS indexed]
16. Sangwan, N., Lata, P., Dwivedi, V., Singh, A., Niharika, N., Kaur, J., Anand, S., Malhotra, J., Jindal, S., Nigam, A., Lal, D., **Dua, A.**, Saxena, A., Garg, N., Verma, M., Kaur, J., Mukherjee, U., Gilbert, J.A., Dowd, S.E., Raman, R., Khurana, P., Khurana, J.P., and Lal, R. 2012. Comparative metagenomic analysis of soil microbial communities across three hexachlorocyclohexane contamination levels. *PLoS One* : 7, e46219. [ISSN: 1932-6203; IMPACT FACTOR: 3.234] [UGC Listed & SCOPUS indexed]
17. Anand, S., Sangwan, N., Lata, P., Kaur J., **Dua, A.**, Singh, A., Verma, M., Kaur, J., Khurana, J.P., Khurana, P., Mathur, S. and Lal, R. 2012. Genome sequence of *Sphingobium indicum* B90A, a hexachlorocyclohexane-degrading bacterium. *J. Bacteriol.* **194**, 4471-4472. [ISSN: 0021-9193; IMPACT FACTOR: 2.688] [UGC Listed & SCOPUS indexed]
18. Anand, S., Malhotra, J., **Dua, A.**, Garg, N., Saxena, A., Sangwan, N., Lal, D., Verma, M., Jindal, S., Kaur, J., Kumari, K., Nigam, A., Niharika, N., Kaur, J. and Lal, R. 2010. A new life in a bacterium through synthetic genome: landmark experiments by Craig Venter. *Indian J. Microbiol.* **50**, 125-131. [ISSN: 0046-8991; IMPACT FACTOR: 1.143] [UGC Listed & SCOPUS indexed]
19. Saxena, A., Mukherjee, U., **Dua, A.** and Lal, R. 2012. India losing battle against multi drug resistant tuberculosis (News and Views). *Indian J. Microbiol.* **52**, 713. [ISSN: 0046-8991; IMPACT FACTOR: 1.143] [UGC Listed & SCOPUS indexed]
20. Saxena, A., **Dua, A.**, Sangwan, N. and Lal, R. 2010. "Bacterial nanowires: a new mode of communication" (News and Views). *Indian J. Microbiol.* **50**, S144. [ISSN: 0046-8991; IMPACT FACTOR: 1.143] [UGC Listed & SCOPUS indexed]

#### Chapters in Books:

1. **Dua, A.**, Verma, A., Hira, P. and Shakarad, M. 2016. Visualization of Nucleic Acids and Proteins. An Introduction to Biotechnology: A GENETIC MANIPULATION PERSPECTIVE. Pp 100-111. [ISBN: 978-93-84588-86-1; I.K. International Publishing House Pvt. Ltd., New Delhi, India]
2. **Dua, A.** and Mukherjee, U. 2016. Isolation of plasmid DNA. An Introduction to Biotechnology: A GENETIC MANIPULATION PERSPECTIVE. Pp 83-94. [ISBN: 978-93-84588-86-1; I.K. International Publishing House Pvt. Ltd., New Delhi, India]
3. Saxena, A. and **Dua, A.** 2016. Introduction to Gene Manipulation. An Introduction to Biotechnology: A GENETIC MANIPULATION PERSPECTIVE. Pp 52-55. [ISBN: 978-93-84588-86-1; I.K. International Publishing House Pvt. Ltd., New Delhi, India]
4. **Dua, A.** and Nigam, A. 2016. Faces of courage: Acid attack survivors. Utkarsha. [ISBN: 978-81-86845-41-0; Prithavi Prakashan, New Delhi, India]
5. Nigam, A. and **Dua, A.** 2015. Running Out of Time: The Decline of Great Indian Bustard. Wild life Management: Concept, analysis and management. Pp 247-257 [ISBN: 9789351247920; [Daya Publishing House@ A Division of Astral International Pvt. Ltd., New Delhi, India](#) ]
6. **Dua, A.** and Nigam, A. 2015. XX vs XY: The richer sex? Sansrishti: Creator of good things. pp 62-65. [ISBN: 978-81-86845-38-0; Prithavi Prakashan, New Delhi, India]
7. Anand, S., Malhotra, J., Niharika, N., Lal, D., Jindal, S., Kaur, J., Nigam, A., Garg, N., Lata, P., Kaur, J., Sangwan, N., Singh, AK., **Dua, A.**, Saxena, A., Dwivedi, V., Mukherjee, U., Lal, R. 2013. Bioremediation of

hexachlorocyclohexane (HCH) pollution at HCH Dumpsites. Springer-Verlag Berlin Heidelberg. 387-404. [ISBN: 978-3-642-36142-5]

## Poster Presentations

1. Jindal, S., **Dua, A.** and Lal, R. "*Sphingopyxis indica* sp. nov. isolated from a high dose point hexachlorocyclohexane (HCH) contaminated dumpsite". Poster presented in the 51<sup>st</sup> Annual Conference of the Association of Microbiologists of India entitled "International Symposium on Recent Advances in Cross-disciplinary Microbiology: Avenues & Challenges" held at Birla Institute of Technology, Mesra, Ranchi from December 14-17, 2010.
2. **Dua, A.**, Kumar, A., Saxena, A. and Lal, R. "Taxonomical characterization of novel strains from a high dose point hexachlorocyclohexane (HCH) contaminated dumpsite using polyphasic approach". Poster presented in the Indo-Swiss Collaboration in Biotechnology (ISCB) International Conference entitled "Recent Trends in Developing Bioremediation Strategies for Hexachlorocyclohexane (HCH) & Other Chlorinated Contaminants" held at University of Delhi, India from 9<sup>th</sup> – 11<sup>th</sup> February, 2011.
3. **Dua, A.**, Kumar, A., Saxena, A. and Lal, R. "Taxonomical characterization of novel strains from a high dose point hexachlorocyclohexane (HCH) contaminated dumpsite using polyphasic approach". Poster presented in the Indo-Swiss Collaboration in Biotechnology (ISCB) International Symposium organized by ISCB held at Symposium Hall, NASC Complex, New Delhi, India from 10<sup>th</sup> – 11<sup>th</sup> March, 2011.
4. **Dua, A.**, Malhotra, J., Gupta, A. K. and Lal, R. "Screening of antibiotic producing bacterial isolates against plant pathogen *Agrobacterium tumefaciens* C58". Poster presented in the 52<sup>th</sup> Annual Conference of the Association of Microbiologists of India entitled "International Conference on Microbial Biotechnology for Sustainable Development" held at Panjab University, Chandigarh, India from 3-6, Nov 2011.
5. **Dua, A.**, Negi, V., Malhotra, J., Saxena, A., Sangwan, A., Mukherjee, U., Pandey, N., Rajagopal, R., Khurana, P., Khurana, J.P., and **Lal, R.** "Genome sequence of *Acinetobacter* sp. strain HA, isolated from gut of polyphagous insect pest *Helicoverpa armigera*". Poster presented in the 53<sup>rd</sup> Annual Conference of Association of Microbiologists of India (AMI) entitled "Microbial World: Recent Innovations and Future Trends" held at KIIT University, Bhubaneswar, India from 22<sup>nd</sup> – 25<sup>th</sup> November, 2012. [Won **Best Poster Award** at the event]
6. **Dua, A.**, Negi, V., Malhotra, J., Saxena, A., Sangwan, A., Mukherjee, U., Pandey, N., Rajagopal, R., Khurana, P., Khurana, J.P., and **Lal, R.** "Genome sequence of *Acinetobacter* sp. strain HA, isolated from gut of polyphagous insect pest *Helicoverpa armigera*". Poster presented in the first INSCR conference held at Amity University, Noida, India on 15<sup>th</sup> January, 2013.
7. **Dua, A.**, Gupta, A. K., and **Lal, R.** "Comparative genomic analyses of biovar I *Agrobacteria* spp". Poster presented in the 54<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI) held at MDU, Rohtak, Haryana, India from November 17-20, 2013.
8. **Dua, A.**, Thakur, J. and Jalodia, R. "Burden of Type II Diabetes: A Lifestyle Disorder". Poster presented at National Symposium on "Lifestyle Disorders: Understanding the molecular Mechanisms" held at Shivaji College from 28<sup>th</sup>-29<sup>th</sup> January, 2016.
9. **Dua, A.** and Nigam, A. "Type II diabetes: Catalyzed by bad lifestyle choices". Poster presented at National Symposium on Man Made Diseases: An Urban Menace held at Maitreyi College from 11<sup>th</sup>-12<sup>th</sup> February, 2016.
10. **Dua, A.** and Nigam, A. "From Health to Disease: Effect of Lifestyle Choices and Environment on Reproductive Health". Poster presented at 2<sup>nd</sup> International Conference on Public Health: Issues, Challenges, Opportunities, Prevention, Awareness (Public Health: 2016) Organized by Krishi Sanskriti on 21<sup>st</sup> May, 2016 at Jawaharlal Nehru University

11. **Dua, A.** , Nijhawan, S & Nigam, A. "E-Waste Management: Bane of Technology" at Two days National Workshop on "Skill Development to Build A Clean India" at Deshbandhu College, University of Delhi on 7<sup>th</sup> -8<sup>th</sup> June, 2018.
12. . Nigam, A, Nijhawan, S & **Dua, A.** "Radiation Pollution: The Silent Killer" at Two days National Workshop on "Skill Development to Build A Clean India" at Deshbandhu College, University of Delhi on 7<sup>th</sup> -8<sup>th</sup> June, 2018.
13. **Dua, A.** & Nigam, A. "Progress of Women in Science & Health: Change is the only Constant" at the International Conference on '**Women's Leadership for Global Peace and Prosperity**' at Shivaji College, University of Delhi on 9<sup>th</sup> -10<sup>th</sup> January, 2020

### Membership of Societies

- Member, American Society for Microbiology (ASM)
- Member, Association of Microbiologists of India (AMI)
- Member, Indian Network for Soil Contamination Research (INSCR)

### Conferences/Workshops/Seminars Attended:

#### CONFERENCES:

- INSCR International Conference 2017 on "Role of Microbe-Plant-Animal Interactions in Human Health" from September 26-28, 2017 Organized by University of Delhi
- International Conference on "Role of Arts, Culture, Humanities, Religion, Education, ethics, Philosophy, Spirituality & Science for Holistic Societal Development" Organized by Krishi Sanskriti Publications on 19<sup>th</sup> March, 2017 at Jawaharlal Nehru University
- 4<sup>th</sup> International Conference on Science and Arts of Holistic Health: Issues, Challenges, Opportunities, Prevention, Awareness (Holistic Health: 2017) Organized by Krishi Sanskriti on 25<sup>th</sup> February, 2017 at Jawaharlal Nehru University
- 2<sup>nd</sup> International Conference on Public Health: Issues, Challenges, Opportunities, Prevention, Awareness (Public Health: 2016) Organized by Krishi Sanskriti on 21<sup>st</sup> May, 2016 at Jawaharlal Nehru University
- International Conference on Public Health: Issues, Challenges, Opportunities, Prevention, Awareness (Public Health: 2016) Organized by Daulat Ram College & Krishi Sanskriti on 15<sup>th</sup> -16<sup>th</sup> January, 2016 at Daulat Ram College, University of Delhi, Delhi
- 56<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI) held at JNU, Delhi, India from December 7-10, 2015.
- 54<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI) held at MDU, Rohtak, Haryana, India from November 17-20, 2013.
- INSCR conference held at Amity University, Noida, India on 15<sup>th</sup> January, 2013.
- 53<sup>rd</sup> Annual Conference of Association of Microbiologists of India (AMI) entitled "Microbial World: Recent Innovations and Future Trends" held at KIIT University, Bhubaneswar, India from 22<sup>nd</sup> - 25<sup>th</sup> November, 2012
- 52<sup>th</sup> Annual Conference of the Association of Microbiologists of India entitled "International Conference on Microbial Biotechnology for Sustainable Development" held at Panjab University, Chandigarh, India from 3-6, Nov 2011.
- Indo-Swiss Collaboration in Biotechnology (ISCB) International Conference entitled "Recent Trends in Developing Bioremediation Strategies for Hexachlorocyclohexane (HCH) & Other Chlorinated Contaminants" held at University of Delhi, India from 9<sup>th</sup> - 11<sup>th</sup> February, 2011.

- 51<sup>st</sup> Annual Conference of the Association of Microbiologists of India entitled “International Symposium on Recent Advances in Cross-disciplinary Microbiology: Avenues & Challenges” held at Birla Institute of Technology, Mesra, Ranchi from December 14<sup>th</sup> – 17<sup>th</sup>, 2010.
- 49<sup>th</sup> Annual Conference of the Association of Microbiologists of India entitled “International Symposium on Microbial Biotechnology: Diversity, Genomics & Metagenomics” held at University of Delhi, Delhi from 18<sup>th</sup> – 20<sup>th</sup> November, 2008.

#### **SEMINARS:**

- One-day National Seminar on “Natural Products: Application in Human Welfare” on 27<sup>th</sup> June 2013, organized at Ramjas College, University of Delhi, Delhi-110007.

#### **SYMPOSIA:**

- National Symposium on “Lifestyle Disorders: Understanding the molecular Mechanisms” held at Shivaji College from 28<sup>th</sup>-29<sup>th</sup> January, 2016.
- National Symposium on Man Made Diseases: An Urban Menace held at Maitreyi College from 11<sup>th</sup>-12<sup>th</sup> February, 2016
- Indo-Swiss Collaboration in Biotechnology (ISCB) International Symposium organized by ISCB “A Decade of Experience in R&D and Technology Management” held in NASC Complex, New Delhi, India from 10<sup>th</sup> – 11<sup>th</sup> March, 2011.

#### **WORKSHOPS:**

- Two day National Workshop on “Skill Development to Build A Clean India” at Deshbandhu College, University of Delhi on 7<sup>th</sup> -8<sup>th</sup> June, 2018.
- Workshop for Laboratory staff in Chemical and Life Sciences’ from May 31<sup>st</sup> – 03<sup>rd</sup>, June, 2016 in Shivaji college, University of Delhi
- Sharing Science, Rising Together - An Interdisciplinary Workshop for the Faculty of Science Departments of Shivaji College organized on 24<sup>th</sup> September and 1<sup>st</sup> October, 2016
- One day workshop on “Biochemistry of Metabolic Processes” held on 2<sup>nd</sup> February, 2015 at Kirori Mal College, University of Delhi, Delhi-110007.
- ASM Virtual Workshop on ‘Art of Science Communication’ at the Department of Chemistry, University of Delhi on 31<sup>st</sup> March, 2014.
- ASM Virtual Workshop on ‘Art of Science Communication’ at Amity University, Noida on 26<sup>th</sup> March, 2014.
- ASM Virtual Workshop on ‘Art of Science Communication’ at the Platinum Jubilee International ASM-AMI Workshop at Maharshi Dayanand University, Rohtak, Haryana on 4<sup>th</sup> March, 2014.
- ASM Virtual Workshop on ‘Art of Science Communication’ at Indian Institute of Technology (IIT) Roorkee, Uttarakhand on 8<sup>th</sup> February, 2014.
- ASM Virtual Workshop on Scientific Writing and Publishing on 6<sup>th</sup> February, 2013 at Sri Venkateswara College.
- ASM Virtual Workshop on ‘Culture of responsibility and Art of Science Communication’ at Convention Centre, Jawaharlal Nehru University (JNU), Delhi on 3<sup>rd</sup> September, 2013.
- Workshop on Basic Techniques in Biotechnology held at Department of Zoology, Ramjas College, University of Delhi from 11<sup>th</sup>-13<sup>th</sup> October, 2011.

<b>Work Experience</b>
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- Working as **Assistant Professor (Ad-hoc)** in Department of Zoology at Shivaji College, University of Delhi from 16<sup>th</sup> September, 2014 till date.
- Worked as “**University Teaching Assistant (UTA)**” at Department of Zoology, University of Delhi since 15<sup>th</sup> March, 2011 – 14<sup>th</sup> September, 2014.

### Research Experience

- Isolation and characterization of bacteria (taxonomy using polyphasic approach)
- Basic molecular biology techniques: culturing of bacteria, cloning, transformation
- Analysis of bacterial genomes (Bioinformatics)

### Techniques Known

- **Molecular Biology:** Isolation of genomic and plasmid DNA, cloning of a target gene, electrophoretic separation of plasmid/ chromosomal DNA, restriction digestion, transformation, pulse field gel electrophoresis.
- **DNA Sequencing:** Designing of primers and gene sequencing using ABI sequencer. Operating the ABI sequencer.
- **Microbiology:** Basic microbiological techniques for isolation of bacterial colonies, inoculation, sterilization and maintenance and isolation of cosmid libraries.
- **Chromatography:** Thin Layer Chromatography (TLC) and Gas Chromatography for the analysis of various compounds and their metabolites.
- **Bioinformatics:** Sequence analysis, genome assembly, genome annotation using Artemis (version 10) and RAST, database similarities searches, Multiple sequence alignment, Phylogenetic analysis (Phylip, TreeCon). Analytical softwares such as Mauve, r2cat, MeV that are operated on windows interface as well as online ones such as MinPath, KEGG, AMIgene viewer, IMG, MAGE, CONTIGuator.
- Resource person, Workshop for the Laboratory Staff of Chemical and Life Sciences organized from May 31<sup>st</sup> – June 3<sup>rd</sup>, 2016

### Events conducted:

- Resource person, INSPIRE Science Camp, organized by Shivaji College, funded by the Department of Science and Technology, December 14<sup>th</sup> – 18<sup>th</sup>, 2016
- Resource Person, ‘Sharing Science, Rising Together’ - An Interdisciplinary Workshop for the Faculty of Science Departments of Shivaji College organized on 24<sup>th</sup> September and 1<sup>st</sup> October, 2016
- Organized various health camps in the premises of Shivaji College as Project Investigator of SHC-311:
  - Health Camp on Lifestyle Disorders on 28<sup>th</sup> September, 2015 in Shivaji College premises
  - Health Check up on 7<sup>th</sup> April, 2016 on celebration of ‘World Health Day’ in Shivaji College premises
  - ‘Breathe Easy Camp’ setup on 3<sup>rd</sup> May, 2016 on celebration of ‘World Asthma Day’ in Shivaji College premises
  - Health Check up done from 19<sup>th</sup> September-1<sup>st</sup> October, 2016 in Shivaji College premises for lung vital capacities, blood oxygen saturation, body fat composition, Harvard step test
  - Health Check up on 29<sup>th</sup> September, 2016 on celebration of ‘World Health Day’ in Shivaji College



premises

- Health Awareness Desk setup by members of SHC-311 from 18<sup>th</sup>-19<sup>th</sup> October, 2016
- Organizing member, *Health Mela* organized in **Shivaji College** premises in collaboration with **West District Legal Services Authority (WDLSA)** for all Teaching & Non-Teaching Staff and students on Wednesday, **31st October, 2018**. The event was organized in coordination with Sh. Vinod Kumar Meena (alumnus of Shivaji College), Secretary, WDLSA, Tis Hazari Court, New Delhi.
- Resource person, Intra-college laboratory skill training programme for Assistants/Attendants in Chemical & Life Science Laboratories for the topic "Preparation of media & aseptic conditions in Microbiology laboratory" sponsored by DBT Star College Scheme in Shivaji College from 20<sup>th</sup> -24<sup>th</sup>, May, 2019
- Resource person for the module 'Diseases & Diagnostics-Measuring Lifestyle Parameters', Summer Training programme 'Disease & Diagnostics' conducted by Department of Zoology, Shivaji College under the DBT Star College Scheme held from 17<sup>th</sup> June-12<sup>th</sup> July, 2019.
- Member, Organising team for Health Camp 'Know your wellness' during admissions 5<sup>th</sup> & 9<sup>th</sup> July, 2019 sponsored by DBT Star College Scheme
- Member, Organizing Committee, Campus Dragonfly Count Survey, workshop and Lecture organized on 20<sup>th</sup> August, 2019 under DBT Star College Scheme in collaboration with WWF India, Bombay Natural History Society (BNHS) & CEC Delhi.
- Member, Organizing Committee, Campus Butterfly Count Survey, workshop and Lecture organized on 19<sup>th</sup> September 2019 under DBT Star College Scheme in collaboration with WWF India, Bombay Natural History Society (BNHS) & CEC Delhi.
- Member, Organizing Committee, National Seminar on "Recent Trends in Biological Research and Career Prospects" organized at Shivaji College, University of Delhi, under the auspices of the DBT Star College Scheme Program on 27<sup>th</sup> September 2019.
- Member, Organizing Committee, The Intra-college Laboratory Skill Training Programme For Assistants / Attendants In The Chemical / And Life Sciences Laboratories from November, 27<sup>th</sup> -3<sup>rd</sup> December 2019.
- Resource person for the module 'Preparation of media and aseptic conditions in microbiology laboratory' in the Intra-college Laboratory Skill Training Programme For Assistants / Attendants In The Chemical / And Life Sciences Laboratories from November, 27<sup>th</sup> -3<sup>rd</sup> December 2019.
- Member, Organizing Committee (Women Development Cell), International Conference on 'Women's Leadership for Global Peace and Prosperity', sponsored by University Grants Commission (UGC) from January 9-10, 2020 at Shivaji College.
- Resource person, "Online Guidance Program Regarding Entrance Examinations for Higher Studies & Scholarships in Biological Sciences" on 16<sup>th</sup> June, 2020 on Zoom Online Platform organized by Department of Zoology, Shivaji College
- Member, Organizing Committee, Webinar organized by the Department of Zoology on 9<sup>th</sup> July, 2020 at 11 am on Zoom Platform entitled 'Epidemiology, Detection, Treatment and Comparative Genomics of SARS-CoV-2 and Managing Personal and Professional Life During COVID-19 Pandemic and Lockdown' under the aegis of DBT sponsored Star College Scheme. The guest speaker for the event was recognized academician Prof. Rup Lal.
- Member, Organizing Committee, Webinar organized by the Department of Zoology on 11<sup>th</sup> July, 2020 at 11 am on Zoom Platform entitled "Importance of IPR in Pandemic situation: Special focus on Expedite Patent Processing" under the aegis of DBT sponsored Star College Scheme. The guest speaker for the event was Dr. Kumar Kartikey Yadav, Examiner of Patents & Designs Patent Office, Delhi.

- Resource person, Summer Training programme 'COVID-19: Epidemiology & Impacts' conducted by Department of Zoology, Shivaji College under the DBT Star College Scheme held from 15<sup>th</sup> June- 26<sup>th</sup> July, 2020. Module conducted: 'Laboratory diagnosis of infections caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)'
- Member, Organizing Committee, One-week Online Faculty Development Programme on "**ICT Enhanced Teaching Learning and Creating MOOCs**" Organized by Shivaji College in collaboration with Teaching Learning Centre, Ramanujan College from August 18-25, 2020 under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), Ministry of Human Resource Development (MHRD)
- Member, Organising team for Webinar organized under the aegis of DBT Star College Scheme by on the topic "Plastics and Endocrine Disruptions: A 21st Century Update by Dr. (Prof.) Deep Dutta, DM Endocrinology, FRCP, FACE on 24<sup>th</sup> September, 2020 on online platform Google Meet.
- Member, Organizing Committee, Annual International Conference of The Association of Microbiologists of India and Indian Network for Soil Contamination Research in association with The Energy & Resources Institute, New Delhi, Department of Zoology, University of Delhi, Indian Agricultural Research Institute (IARI) & Indian National Science Academy (INSA) entitled 'Microbial World: Recent Developments in Health, Agriculture & Environmental Sciences from 3<sup>rd</sup> to 5<sup>th</sup> February, 2021.
- 'Certificate of Appreciation' for Co-Chair at Annual International Conference of The Association of Microbiologists of India and Indian Network for Soil Contamination Research in association with The Energy & Resources Institute, New Delhi, Department of Zoology, University of Delhi, Indian Agricultural Research Institute (IARI) & Indian National Science Academy (INSA) entitled 'Microbial World: Recent Developments in Health, Agriculture & Environmental Sciences from 3<sup>rd</sup> to 5<sup>th</sup> February, 2021.
- **Resource person**, Intercollege Laboratory skill training programme for assistants in Chemical and Life Science Laboratories organized by Shivaji College, University of Delhi under the aegis of DBT Star College Scheme, held at Shivaji College from 8<sup>th</sup>-12<sup>th</sup>, February 2021
- Resource person, Summer Training programme 'Current Diagnostic & Therapeutic Modalities. For COVID-19' conducted by Department of Zoology, Shivaji College under the DBT Star College Scheme held from 28<sup>th</sup> June- 10<sup>th</sup> July, 2021. Module conducted: 'Looking into mutations/SNPs which cause a change in infectivity of SARS-CoV-2'
- Co-Ordinator, Virtual tour & Online poster making competition on the theme 'Assisted Reproductive Techniques' in collaboration with NOVA IVF Fertility Centre on 5<sup>th</sup> August, 2021
- **Resource person**, Intra-college Laboratory skill training programme for assistants in Chemical and Life Science Laboratories organized by Shivaji College, University of Delhi under the aegis of DBT Star College Scheme, held at Shivaji College from 11<sup>th</sup>-17<sup>th</sup>, August 2021 [Module held on August 11<sup>th</sup> 2021].
- **Resource person**, Inter-college Laboratory skill training programme for assistants/attendants in the Chemical and Life Science Laboratories organized by Shivaji College, University of Delhi under the aegis of DBT Star College Scheme, held at Shivaji College from 14<sup>th</sup>-20<sup>th</sup>, September, 2021
- **Organizing Committee Member**, of Microsphere: An International Outreach Program on occasion of International Microorganism Day on 17<sup>th</sup> September, 2021 organized by Deen Dayal Upadhyaya College, Gargi College, IIT Roorkee, Kirori Mal College, Ramjas College, P.G. Department of Zoology & PhiXgen Pvt. Ltd. Gurugram in association with Acharya Narendra Dev College, Maitreyi College, Sri Venkateswara College & C.M.P College.
- **Member, Organizing Committee**, 6<sup>th</sup> Annual International E-Conference of Indian Network for Soil Contamination Research (INSCR) organized in association with Department of Zoology (DU), Acharya Narendra Dev College(DU), Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU), Ramjas College (DU), Maitreyi College (DU), Sri Venkateswara College (DU), C.M.P. College (AU),

S.G.T.B. Khalsa College (DU), COCAS (PU) P.G. Department of Zoology (MU) & PhiXgen Pvt. Ltd. Gurugram from November 15-18,2021.

- **'Certificate of Appreciation' for Co-Chair** at 6<sup>th</sup> Annual International E-Conference of Indian Network for Soil Contamination Research (INSCR) organized in association with Department of Zoology (DU), Acharya Narendra Dev College(DU), Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU), Ramjas College (DU), Maitreyi College (DU), Sri Venkateswara College (DU), C.M.P. College (AU), S.G.T.B. Khalsa College (DU), COCAS (PU) P.G. Department of Zoology (MU) & PhiXgen Pvt. Ltd. Gurugram from November 15-18,2021.
- **Event Coordinator**, Webinar on "Treatable Genetic Disorders: A glimpse into gene therapies" organized under the aegis of DBT sponsored Star College Scheme on December 2<sup>nd</sup>, 2021
- **Convener, Lecture** on 'Introduction to Herpetology & Remote Sensing based Conservation' organized by Oyester-The Zoological Society of Shivaji College on 25<sup>th</sup> February, 2022 at 4pm on Zoom Platform. Lecture delivered by 'Mr. Indraneel Kulkarni' JRF, Symbiosis Institute of Geoinformatics
- **Examiner** for Undergraduate Examination Nov/Dec 2021 for Generic Elective: Animal Diversity (Semester I), Unique Paper Code: 32235902
- **Co-Convener**, Two day 'Faculty Training Program' on 'Hands-on Techniques in Developmental Biology' organized under the aegis of IQAC & DBT Star College Scheme from 1<sup>st</sup> & 2<sup>nd</sup> April, 2022 by department of Zoology, Shivaji College.

**Refresher Courses/Orientation Programmes/Faculty Development Programmes attended:**

1. Successfully completed one-week National Online Faculty Training Programme on "Pedagogical Training for Effective Online Teaching & Learning" organized by Deen Dayal Upadhaya College, University of Delhi & K.T.H.M College, Nashik from 3<sup>rd</sup>-10<sup>th</sup> August, 2020.
2. Successfully completed One-week Online Faculty Development Programme on "**ICT Enhanced Teaching Learning and Creating MOOCs**" Organized by Shivaji College in collaboration with Teaching Learning Centre, Ramanujan College from August 18-25, 2020 under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), Ministry of Human Resource Development (MHRD)
3. Successfully completed One Week Online Interdisciplinary Faculty Development Programme on "**Wildlife Conservation and Management**" organized by Mahatma Hansraj Faculty Development Centre, Hansraj College from October 4<sup>th</sup> - 9<sup>th</sup>, 2021.