


## Faculty Details

<b>Title</b>	Dr.	<b>First Name</b>	Aeshna	<b>Last Name</b>	Nigam	<b>Photograph</b>
<b>Designation</b>	Assistant Professor					
<b>Address</b>	Department of Zoology Shivaji College University of Delhi					
<b>Office Phone No.</b>	-					
<b>Residence</b>	-					
<b>Mobile</b>						
<b>Email</b>	aeshna.nigam@gmail.com					
<b>Web-Page</b>						
<b>Educational Qualifications</b>	M.Sc.(Cell Biology), Ph.D. (Molecular Biology)					
<b>Degree</b>	University/Institute				<b>Year</b>	
<b>Ph.D.</b>	Department of Zoology, University of Delhi				2012	
<b>M.Phil./M.Tech.</b>	----				-	
<b>PG</b>	Department of Zoology, University of Delhi				2007	
<b>UG</b>	Miranda House, University of Delhi				2005	
<b>Any Other Qualification</b>	--					
<b>Career Profile</b>						
<p>University Teaching Assistant, Department of Zoology, University of Delhi (2008-2011)  Assistant Professor, Shivaji College, University of Delhi (2012- till date)</p>						
<b>Administrative Assignments</b>						

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**Been committee member of NAAC (2015-till date)**  
**Member, Placement Cell**  
**Member, Women Development Cell**

**Areas of Interest/Specialisation**

**Evolutionary Biology**  
**Animal Behaviour**  
**Biotechnology**

**Subjects Taught**

**Evolutionary Biology**  
**Animal Behaviour**  
**Biotechnology**  
**Biochemistry**  
**Ecology**  
**Bioinformatics**

**Innovation Project/Research Projects (Major Grants/Research Collaboration)**

- ‘Comparative analysis of heavy metal toxicity and pesticide contamination in vegetables collected from local sites and organic stores in Delhi’. The aim of the investigation is to look into the heavy metal and pesticide contamination in vegetables grown in and around Delhi due to environmental pollution. [2015-16]
- Project Investigator of Research project under the DBT Sponsored Star College Scheme: ‘To study & analyse the microbial diversity at area around Najafgarh Drain’[2019-till date]

**Publications Profile (Research Papers/Books)**

**Research Papers**

1. Dhingra, G.G., Saxena, A., **Nigam, A.** et al. (2021). Microbial World: Recent Developments in Health, Agriculture and Environmental Sciences. Indian Journal of Microbiology Vol 61:pp 111–115.
2. **Nigam A.**, Bamel K., Nijhawan S., Bharti S., Dogra S., Dalal H., Priyanka<sup>7</sup>, Shashank and Walia A. 2016. “Effect of Heavy Metals on Reproductive Health of Women: Health Alarm!” International Journal of Basic and Applied biology, 3(4), 247-251.
3. Bamel K., **Nigam A.**, Nijhawan S., Priyanka, Dogra. S., Dala H., Shashank and Walia A., 2016. Heavy Metal Toxicity affects Male Reproductive Health. Proceedings of National Seminar on Water and Air Quality in Urban Ecosystem, 1-6, ISBN:978-93-5267-493-0
4. **Nigam A.**, Bamel K., Malik, D. and Nijhawan, S. 2016. Heavy metal contamination in vegetables: Source of Nutrition or Health Hazard? *Journal of Basic and Applied Engineering Research*, Vol 3(1), 60-65,

5. Dwivedi, V., Kumari, K., Gupta, S.K, Kumari, R, Tripathi, C., Lata P., Singh, A.K., Niharika, N, Kumar, R., **Nigam A.**, Garg, N. and Lal, R. 2015 *Thermus parvatiensis* RLT sp. nov., Isolated from a Hot Water Spring, Located Atop the Himalayan Ranges at Manikaran, India. Indian J. Microbiol. 55(4), 357-365, ISSN-0973-7715, Impact Factor--0.457
6. **Nigam, A.**, Almabruk, K.H., Saxena, A., Yang, J., Mukherjee, U., Kaur, H., Kohli, P., Kumari, R., Singh, P., Zakharov, L.N., Singh, Y., Mahmud, T. and Lal, R. 2014. Modification of Rifamycin Polyketide Backbone Leads to Improved Drug Activity Against Rifampicin-Resistant *Mycobacterium tuberculosis*. J Biol Chem, 289 (30), 21142-21152, ISSN no.- 0021-9258 Impact factor-4.6.
7. Lal, D., Jindal, S., Kumari, H., Jit, S., **Nigam, A.** Sharma, P., Kumari, K. and Lal, R. 2013. Bacterial diversity and real-time PCR based assessment of linA and linB gene distribution at hexachlorocyclohexane contaminated sites.. J Basic Microbiol, 53,1-11, ISSN-1521-4028, Impact Factor-1.198.
8. 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., Garag, N.; Verma, M.; Kaur, J.; Mukherjee, U.; Gilbert , J.A., Dowd, S. E., Raman, R., Khurana, P., Khurana, J., Lal R. 2012. Comparative Metagenomic analysis of soil microbial communities across three Hexachlorocyclohexane gradients. PLoS ONE, 7(9), 1-12, ISSN 1932-6203, Impact factor-3.73
9. Dwivedi, V., Sangwan, N., **Nigam A.**, Niharika, N., Khurana, P., Khurana, J., and Lal, R. 2012. Draft Genome Sequence of *Thermus* sp. RL Isolated from Hot Water Spring Located a top the Himalayan Ranges at Manikaran, India. J Bacteriol, 194(13), 3534, ISSN 1098-5530, Impact factor- 3.193.
10. Verma, M., Kaur, J., Kumar, M., Kumari, K., Saxena, A., Anand, S., **Nigam, A.**, Ravi, V., Raghuvanshi, S., Khurana, P., Tyagi, A. K., Khurana, J. P. and Lal, R. 2011. Whole Genome Sequence of Rifamycin B Producing *Amycolatopsis mediterranei* S699. J. Bacteriol. 193, 5523-5524, ISSN 1098-5530, Impact factor- 3.193.
11. **Nigam, A.**, Jit, S and Lal, R. 2010. *Sphingomonas histidinilytica* sp. nov. isolated from hexachlorocyclohexane (HCH)- dumpsite, India. Int. J. Syst. Evol. Microbiol. 60, 1038- 1043, ISSN-1466-5034, Impact factor-2.112.
12. Sharma, P., Verma, M., Bala, K., **Nigam, A** and Lal, R. 2010. *Sphingopyxis ummariensis* sp. nov., isolated from hexachlorocyclohexane (HCH)-dumpsite in north India. Int. J. Syst. Evol. Microbiol. 60, 780-784, ISSN-1466-5034. Impact factor-2.112.
13. Lal, R., Dadhwal, M., Kumari, K., Sharma, P., Singh, A., Kumari, H., Jit, S., Gupta, S.K., **Nigam, A.**, Lal, D., Verma, M., Kaur, J., Bala, K. and Jindal, S. 2008. *Pseudomonas* sp. to Sphingobium indicum: a journey of microbial degradation and bioremediation of hexachlorocyclohexane. Indian J. Microbiol. 48, 3–18, ISSN-0973-7715, Impact Factor--0.457.
14. 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., Jit, S., Bala, K., Negi, P. L. and Lal, R. 2010. A New Life in a Bacterium through Synthetic Genome: Landmark experiments by Craig Venter. Indian J. Microbiol. 48, 125-131, ISSN-0973-7715, Impact Factor--0.457.

#### Chapters in book:

15. **Nigam, A.** and Dua, A. 2016. Running Out of Time: The Decline of great Indian Bustard. Wildlife Management: Concept, Analysis and Conservation, Daya Publishing House, India, 247-256.

16. **Nigam A** and Nijhawan, S. 2016. A body to sell, a Story to tell- Sex workers in India. Utkarsha: Epitomizing Progress. Prithavi Prakashan, 59-61, ISBN-978-81-86845-41-0.
17. Dua, A. and **Nigam, A.** 2016. Faces of courage: Acid attack survivors. Utkarsha: Epitomizing Progress. Prithavi Prakashan, 66-69, ISBN-978-81-86845-41-0
18. **Nigam, A.** 2015. The Mutability and Repair of DNA. E content for MHRD project, National Mission on Education Information Communication Technology, India
19. **Nigam, A.** and Nijhawan, S. 2015. The evolving face of Women in Indian Advertisement. Sansrishti-Creator of Good Things. Prithavi Prakashan, 44-52. ISBN-81-8645-38-D
20. Dua, A. and **Nigam, A.** 2015. XX vs XY: The Richer Sex. Sansrishti-Creator of Good Things. Prithavi Prakashan, 62-65. ISBN-81-8645-38-D
21. 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, Online ISBN- 978-3-642-36143-2

#### **Conference/Seminar/Faculty Development Programme (FDP)/Workshop**

##### **Conferences and Seminars**

1. Completed one week interdisciplinary FDP on ‘ Wildlife Conservation and Management’ organised by Daulatram College in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College from 4-9 October, 2021.
2. Has participated in Orientation cum Training Programme on the use of Twitter Handle for enhanced presence of College in the Social Media organised by University of Delhi on March 22, 2021 at Conference Centre, University of Delhi.
3. Co-Chaired the session ‘Industrial Microbial Biotechnology’ of 61<sup>st</sup> Annual International Conference of Association of Microbiologists of India and Indian Network for Soil Contamination and Research from February 3-5, 2021.
4. Organising member of 61<sup>st</sup> Annual International Conference of Association of Microbiologists of India and Indian Network for Soil Contamination and Research from February 3-5, 2021.
5. Participated and organising member of one week FDP on ‘ICT enhanced Teaching Learning and Creating MOOCs’ organised by Shivaji College in collaboration with Teaching Learning Centre and Research Development and Services Cell, Ramanujan College from August 18-15, 2020.
6. International Conference on “Women’s Leadership for Global Peace and Prosperity” at Shivaji College, University of Delhi on January 9-10, 2020 .
7. National Seminar on “Recent Trends in Biological Research and Career Prospects” organised at Shivaji College, University of Delhi, under the auspices of the DBT Star College Scheme Program on September 27, 2019.
8. Participated and poster presented in Participated and oral presentation in 4<sup>th</sup> International Conference on “Science and Arts of Holistic Health : Issues, challenges, opportunities,

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prevention, awareness” held on 25<sup>th</sup> February, 2017, in Jawaharlal Nehru University

9. Participated in the International Conference on “Role of Microbe-Plant-Animal Interactions in Human Health” held at University of Delhi from 26<sup>th</sup>-28<sup>th</sup> September 2017.
10. Participated and poster presented in 2<sup>nd</sup> International Conference on “Public Health: Issues, Challenges and Opportunities, Prevention, Awareness (Public Health, 2016) on 21<sup>st</sup> May, 2016.
11. Participated and oral presentation on ‘Toxic Effect of Heavy Metals on Reproductive Health of Women’ at Environmental Concerns of 21<sup>st</sup> Century: Indian and Global Context’ organized by Zakir Hussain Delhi College (Evening) on 21-22 March, 2016.
12. Participated and presented poster in “National Seminar on Water and Air Quality in Urban Ecosystem” organized by Eco-Club Shivaji College, University of Delhi on 22<sup>nd</sup> March, 2016.
13. Participated and poster presented in National Symposium on Lifestyle Disorders (NSLD): Understanding the Molecular Mechanism held in Shivaji College, University of Delhi on 28<sup>th</sup> January 2016
14. Participated in International Conference on “Public Health: Issues, Challenges and Opportunities, Prevention, Awareness (Public Health, 2016) ” organized by Daulat Ram College, University of Delhi on 15-16 January, 2016
15. Participated and was awarded the young scientist award in 55<sup>th</sup> annual conference of Association of Microbiologists of India ‘Empowering Mankind with Microbial Technologies’ from 12-14 November, 2014 at Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu.
16. Participated in International conference on “Empowerment of Women in Developing World” organized by Women’s Development Cell, Shivaji College from 1st- 2<sup>nd</sup> April, 2013 at University of Delhi, Delhi
17. Participated in 51<sup>st</sup> Annual Conference of Association of Microbiologists of India entitled ‘International Conference on Microbial Biotechnology for Sustainable Development’ held at Panjab University, Chandigarh, Punjab from 3-6 November, 2011.
18. Participated in ISCB International symposium ‘A decade of experience in Red and Technology Management’ organized by Indo-Swiss collaboration in Biotechnology (ISCB) from 10-11 March, 2011 at New Delhi.
19. Participated in International conference on “Recent trends in Developing Bioremediation Strategies for Hexachlorocyclohexane (HCH) & Other Chlorinated Contaminants” organized by Indo-Swiss collaboration in Biotechnology (ISCB) from

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9<sup>th</sup>- 11<sup>th</sup> February, 2011 at University of Delhi, Delhi.

20. Participated in the 51<sup>st</sup> Annual Conference of Association of Microbiologists of India entitled “International Symposium on Recent advances in Cross-disciplinary Microbiology: Avenues & Challenges” from 14<sup>th</sup>-17<sup>th</sup> December, 2010 at Birla Institute of Technology, Ranchi, Jharkhand.
21. Participated in Phase III meeting of Indo-Swiss Collaboration in Biotechnology (ISCB) “Environmental Risk and Bioremediation of Hexachlorocyclohexane Isomers” on 16<sup>th</sup> November, 2009 at the Department of Zoology, University of Delhi, Delhi.
22. Participated in the 49<sup>th</sup> Annual Conference of The Association of Microbiologists of India entitled “International Symposium on Microbial Biotechnology: Diversity, Genomics & Metagenomics” from 18<sup>th</sup>-20<sup>th</sup> November, 2008 at University of Delhi, Delhi.
23. Participated in first co-ordination meeting of Indo-Australian Collaboration in Biotechnology (IACB) “Enabling Technologies for the Enzymatic Bioremediation of Cyclic Organochlorine Residues”, with project partners from CSIRO (Australia) and IMTECH (India) held on 11<sup>th</sup>- 12<sup>th</sup> September 2007, at the Department of Zoology, University of Delhi.
24. Participated in 30<sup>th</sup> All India Cell Biology Conference and Symposium on ‘Molecules to Compartments: Cross-Talks and Networks’ organized by Department of Zoology, University of Delhi, held on 2-4 February, 2007
25. Participated in National Seminar on ‘Chemistry of Life’ organized by Miranda House held on 18-20, January, 2005, Miranda House, University of Delhi.

**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:**

1. Resource person in Inter College Laboratory Skill Training Programme for Assistants in Chemical and Life Science Laboratories organised by Shivaji College, University of Delhi under the aegis of DBT Star College Scheme, held at Shivaji College from September 14-20, 2021.
2. Resource person in Intra College Laboratory Skill Training Programme for Assistants in Chemical and Life Science Laboratories organised by Shivaji College, University of Delhi under the aegis of DBT Star College Scheme, held at Shivaji College from August 11-17,

2021.

3. Resource person in Inter College Laboratory Skill Training Programme for Assistants in Chemical and Life Science Laboratories organised by Shivaji College, University of Delhi under the aegis of DBT Star College Scheme, held at Shivaji College from February 8-15, 2021.
4. 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.
5. 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
6. Sharing Science, Rising Together - An Interdisciplinary Workshop for the Faculty of Science Departments of Shivaji College organized on 24<sup>th</sup> September and October 1, 2016
7. **Workshop** \_Kisan Jagrukta Karyashala' in Najafgarh area on September 28, 2016 to create awareness among farmers and educate them about use of pesticides.
8. 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.
9. ASM Virtual Workshop On 'The Art Of Science Communication' held on November 13, 2014 at Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu
10. Workshop, "Ankuran" organized by Eco-Club on 29<sup>th</sup> January, 2015 in Shivaji College

#### **WEBINARS ATTENDED:**

1. "Constructive Living and Education in the times of Corona Crisis" on May 13, 2020 on the Zoom Cloud organised by Shivaji College.
2. "Zebrafish Model System" on May 8, 2020, Friday between 3:00-5:00 PM on the Zoom Cloud platform organised by Department of Biochemistry under aegis of IQAC, Shivaji College.
3. WDC WEBINAR (Under the Aegis of IQAC) on 'Psychological Well-Being and COVID19: An Internal Journey' on May 7, 2020, Thursday from 3:00-5:00 PM on Zoom Cloud platform.
4. Webinar organised by Department of Zoology under aegis of IQAC 'Biosafety Measures & Biocontainment of pathogens in research' by Dr. Manpreet Kaur, Scientist, Biosafety & Biocontainment, Biosafety Support unit of Department of Biotechnology, Govt. of India & Regional Centre for Biotechnology on April 29, 2020.

#### **Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)**

Nil

## Awards and Distinctions

- Awarded the '**Certificate of Most Significant Societal Impact**' for the project 'Comparative analysis of heavy metal toxicity and pesticide contamination in vegetables collected from local sites and organic stores in Delhi during the Research Display at the Convocation Ceremony on 19th November, 2016.
- The **Best Speaker Award** for paper presentation at the International Conference on "Public Health: Issues, Challenges and Opportunities, Prevention, Awareness (Public Health, 2016)" organized by Daulat Ram College, University of Delhi on 15-16 January, 2016
- Awarded **Young Scientist Award** by Association of Microbiologists of India on 13 November, 2014 ( <http://people.du.ac.in/~rlal/Recent.htm>.)
- Awarded the '**Best performance in Quiz**' in ASM Virtual Workshop On 'The Art Of Science Communication' held on 13 November, 2014 at Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu
- **2007- 2009** Awarded **JRF** (Junior Research fellowship) sponsored by **CSIR Govt. of India**
- **2009- 2011** Awarded **SRF** (Senior Research fellow) sponsored by **CSIR Govt. of India**
- Awarded **certificate of excellence** for scoring the highest marks in post graduation, Miranda House, University of Delhi, India (2007)
- Awarded **certificate of excellence** for scoring the highest marks in graduation, Miranda House, University of Delhi, India (2005)
- Won a number of paper presentations and quizzes during graduation

## Memberships

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- Member of American Society for Microbiology (Member ID- 56763477)

Life Member of Association of Microbiologists of India.

## Other Academic Activities

26. Resource person, workshop, 'Workshop for Laboratory assistant /attendants of Chemical and Life Sciences' from 16- 18, July, 2014.
27. Resource person, workshop, 'Ankuran' organized by Eco-Club on 29<sup>th</sup> January, 2015 in Shivaji College
28. 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
29. 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
30. **Organiser, Workshop** 'Kisan Jagrukta Karyashala' in Najafgarh area on 28<sup>th</sup> September, 2016 to create awareness among farmers and educate them about use of pesticides.
31. Resource Person, 'Sharing Science, Rising Together' - An Interdisciplinary Workshop for



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the Faculty of Science Departments of Shivaji College organized on 24th September and 1st October, 2016

32. Resource person, Intra-college laboratory skill training programme as a resource person for the topic "Preparation of media & aseptic conditions in Microbiology laboratory" sponsored by DBT Star College Scheme on 22nd May, 2019 in Shivaji College.
33. Resource person, Summer Training programme conducted by Department of Zoology, Shivaji College under the DBT Star College Scheme
34. Member, Organising team for Health Camp during admissions 2019 sponsored by DBT Star College Scheme in July, 2019
35. Member, Organising Committee of National Seminar on "Recent Trends in Biological Research and Career Prospects" organised at Shivaji College, University of Delhi, under the auspices of the DBT Star College Scheme Program on September 27, 2019.
36. 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.
37. 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
38. Resource person, Summer Training programme 'COVID-19: Epidemiology & Impacts' conducted by Department of Zoology, Shivaji College under the DBT Star College Scheme.
39. Resource person, Summer Training programme "Current Diagnostics and Therapeutic Modalities for COVID 19" from 28<sup>th</sup> June- 10<sup>th</sup> July, 2021 under the DBT Star College Scheme
40. Organised several educational trips to department of Geology, Anthropology, Sultanpur Sanctuary, Okhla bird Sanctuary and Delhi Zoological Park over the years.

#### **ORAL AND POSTER PRESENTATIONS:**

41. Presented poster: 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 January 9-10, 2020
42. Presented poster '**Radiation Pollution: The Silent Killer**' at Two day National Workshop on "Skill Development to Build A Clean India" at Deshbandhu College, University of Delhi on June 7 -8, 2018.
43. Oral presentation on 'Effect of Heavy Metals on Reproductive Health of women: Health Alarm' at 4<sup>th</sup> International Conference on Science and Arts of Holistic Health: Issues, Challenges, Opportunities, prevention, Awareness (Holistic Health: 2017) on 25<sup>th</sup> February, 2017.
44. Poster presented for the project 'Comparative analysis of heavy metal toxicity and pesticide contamination in vegetables collected from local sites and organic stores in Delhi during the Research Display at the Convocation Ceremony on 19<sup>th</sup> November, 2016.
45. **Aeshna Nigam** and Ankita Dua. 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, Oppurtunities, Prevention, Awareness (Public Health: 2016) organized by Krishi Sanskriti in Jawaharlal Nehru University, on 21<sup>st</sup> May, 2016.

46. Kiran Bamel, **Aeshna Nigam** and Shashi Nijhawan: Toxic effects of heavy metals on reproductive health. Poster presented in National Seminar on Air and Water Quality in Urban Ecosystem organized by Eco Club of Shivaji College, University of Delhi on 22<sup>nd</sup> March, 2016.
47. Oral presentation on 'Toxic Effect of Heavy Metals on Reproductive Health of Women' at Environmental Concerns of 21<sup>st</sup> Century: Indian and Global Context' organized by Zakir Hussain Delhi College (Evening) on 21-22 March, 2016.
48. Kiran Bamel, **Aeshna Nigam** and Shashi Nijhawan' Heavy metal contamination leading to lifestyle disorder'. Poster presented in National Symposium on Lifestyle Disorders (NSLD): Understanding the Molecular Mechanism held in Shivaji College, University of Delhi on 28<sup>th</sup> January 2016.
49. Awarded The **Best Speaker Award** for oral presentation 'Heavy metal contamination in vehetables: Source of Nutrition or Health Hazard?' at the International Conference on "Public Health: Issues, Challenges and Oppurtunities, Prevention, Awareness (Public Health, 2016) " organized by Daulat Ram College, University of Delhi on 15-16 January, 2016
50. As a Young Scientist Awardee made an oral presentation on 'Modification of Rifamycin Polyketide Backbone Leads to Improved Drug Activity Against Rifampicin-Resistant *Mycobacterium tuberculosis*' at 55<sup>th</sup> annual conference of Association of Microbiologists of India 'Empowering Mankind with Microbial Technologies' on 14 November, 2014 at Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu
51. **Aeshna Nigam**, Anjali Saxena and Rup Lal. "Genetic manipulation of polyketide synthase (PKS) gene cluster of *Amycolatopsis mediterranei* S699 to produce rifamycin B analog". Poster presented in the 52<sup>nd</sup> Annual Conference of the Association of Microbiologists of India entitled 'International Conference on Microbial Biotechnology foe Sustainable Development' held at Panjab University, Chandigarh, Punjab from 3-6 November, 2011.
52. Hansi Bisht, Swati Jindal, Devi Lal, Simran Jit, **Aeshna Nigam**, Pooja Sharma, Kirti Kumari and Rup Lal . "Bacterial diversity and Real time PCR based assessment of *linA* (dehydrochlorinase) and *linB* (haloalkane dehalogenase) gene distribution at hexachlorocyclohexane (HCH) contaminated sites". Poster presented at International conference on "Recent trends in Developing Bioremediation Strategies for Hexachlorocyclohexane (HCH) & Other Chlorinated Contaminants" organized by Indo-Swiss collaboration in Biotechnology (ISCB) held at University of Delhi, Delhi from 9 -11 February, 2011.
53. **Aeshna Nigam** and Rup Lal. "Genetic manipulation of polyketide synthase (PKS) gene cluster of *Amycolatopsis mediterranei* S699 to produce rifamycin B analog". 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 [AMI 2010-CMAC]" held at Birla Institute of Technology, Mesra, Ranchi, Jharkhand from 14-17 December, 2010.
54. **Aeshna Nigam**, Naseer Sangwan, Nidhi Garg, Neha Niharika, Mansi Verma, Jaspreet Kaur, Paramjit Khurana, Jitendra P. Khurana, R. Rajagopal, and Rup Lal "Assembly and targeted genome sequencing of

*Thermos manikarensis* RLM". Poster presented in 51<sup>st</sup> Annual Conference of Association of Microbiologists of India & International Symposium on Recent advances in Cross disciplinary Microbiology: Avenues and Challenges [AMI 2010-CMAC] held at Birla Institute of Technology, Mesra, Ranchi, Jharkhand from December 14- 17, 2010.

55. **Aeshna Nigam**, Simran Jit and Rup Lal. "Taxonomical Characterization of *Sphingomonas histidinilytica* sp. nov., isolated from Hexachlorocyclohexane (HCH) dumpsite, India." Poster presented in the 49<sup>th</sup> Annual Conference of the Association of Microbiologists of India entitled "International Symposium on Microbial Biotechnology: Diversity, Genomics and Metagenomics" held at University of Delhi, Delhi from November 18 -20, 2008.
56. Simran Jit, **Aeshna Nigam** and Rup Lal. "A study on vertical distribution of linA and linB and community structure in Hexachlorocyclohexane (HCH) contaminated soil" Poster presented in the 49<sup>th</sup> Annual Conference of the Association of Microbiologists of India entitled "International Symposium on Microbial Biotechnology: Diversity, Genomics and Metagenomics" held at University of Delhi, Delhi from November 18 -20, 2008.
57. **Aeshna Nigam**, Richa Sharma and Shradha Sharma. "Interplay of miRNA and SNP- A New Light in Medicine?" Poster presented in the 30<sup>th</sup> All India Cell Biology Conference & Symposium entitled 'Molecules to Compartments: Cross Talks and Network' held at University of Delhi, Delhi from November 2-4, 2007.
58. Presented a paper and was awarded the **first prize** on 'Photodynamic therapy: A New light in medicine' in Zoological fest of Hans Raj College, University of Delhi, Delhi held in 2004.
59. Participated in declamation competition 'GM Food: Boon or Bane' in the science fest entitled 'Celebrating Science' organized by Sri Guru Tegh Bahadur Khalsa college and Heart Care Foundation of India on February 18, 2004.

#### Cultural/Extracurricular Activities

- Member, Organizing team, annual Zoology fest 'Oyster, 2012' of Shivaji college as well as conducted the entire programme on stage.
- Member, Organizing team, Bioconvergence', 26-27 march, 2014, the combined annual academic festival of Biochemistry, Botany and Zoology departments of Shivaji college.
- Member, Organizing team, Annual Academic Festival, Vivente 2017
- Member, Organizing team, Annual Academic Festival of Life Science Society „Verve 2017.

Signature of Faculty Member