




Faculty Details proforma for Gargi College

(PLEASE FILL THIS IN AND Email it to
gargi.college.website@gmail.com)

Title	Dr.	First Name	JASVINDER	Last Name	KAUR	Photograph
Designation		ASSISTANT PROFESSOR				
Address						
Phone No Office						
Residence*						
Mobile*						
Email		jasvinder1511@gmail.com				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		University of Delhi			2014	
M.Sc. Cell Biology		University of Delhi			2009	
B.Sc. (H) Zoology		University of Delhi			2007	
Career Profile						
<ol style="list-style-type: none"> 1. Assistant Professor in Gargi College, Delhi University on Permanent basis since 10th October 2015 to date 2. Assistant Professor in Gargi College, Delhi University on Ad-hoc basis since January 2014 till 9th October, 2015 3. Assistant Professor in Gargi College, Delhi University on Guest basis from July 2013 till November 2013 						
Administrative Assignments						
<ol style="list-style-type: none"> 1. Editor, Departmental magazine 'Flight' 2015-16. 2. Editor, Departmental magazine 'Flight' 2016-17. 3. Office-Bearer, Department of Zoology 2016-19. 4. Committee member for college Prospectus 2017-2018; 18-19 5. Member, Enliven (Western Dance Society). 6. Life sciences admissions 2018-19 						
Areas of Interest / Specialization						
Biotechnology, Molecular Biology and Bioinformatics						
Subjects Taught						
Biochemistry; Principles of Genetics; Physiology; & Evolutionary Biology						
Research Guidance						
Mentored 17 students under six bioinformatics projects under the DBT- STAR college funding (2014-19)						
Recent Publications						

1. Kaur, J., Kaur, J., Niharika, N. and Lal, R. 2012. *Sphingomonas laterariae* LNB2^T sp. nov. isolated from hexachlorocyclohexane (HCH) contaminated dumpsite in Lucknow. *Int. J. Syst. Evol. Microbiol.* 62: 2891–2896
2. Kaur, J., Moskalikova, H., Niharika, N., Khan, F., Sedlackova, M., Hampl, A., Damborsky, J., Prokop, Z., and Lal R. 2013. *Sphingobium baderi* LL03^T sp. nov., isolated from HCH contaminated soil. *Int. J. Syst. Evol. Microbiol.* 63: 673-8
3. Kaur, J., Niharika, N., Lata, P. and Lal, R. 2014. BIOFILMS: United we stand, divided we fall. *Indian J. Microbiol.* 54 (2): 246-247
4. Kaur, J[†], Verma[†], H., Tripathi, C., Khurana, J.P. and Lal, R. 2013. Draft Genome Sequence of a Hexachlorocyclohexane (HCH) degrading bacterium *Sphingobium baderi* LL03^T. *Genome Announc.* 1(5): e00751-13
5. Niharika, N[†], H, Moskalikova., Kaur, J[†], M, Sedlackova A, Hampl., Damborsky, J., Z, Prokop and Lal, R. 2013. *Novosphingobium barchiamii* LL02^T sp. nov., isolated from a hexachlorocyclohexane (HCH) dump site. *Int. J. Syst. Evol. Microbiol.* 63: 667-672
6. Niharika, N[†], Moskalikova, H., Kaur, J[†], Khan, F., Sedlackova, M., Hampl, A., Damborsky, J., Prokop, Z. and Lal, R. 2013. *Sphingobium czechense* LL01^T sp. nov., isolated from a hexachlorocyclohexane (HCH) dump site. *Int. J. Syst. Evol. Microbiol.* 63: 723-728

† Equal authors

7. Niharika, N., Jindal, S., Kaur, J. and Lal R. 2012. *Sphingomonas indica* sp. nov., isolated from HCH contaminated soil. *Int. J. Syst. Evol. Microbiol.* 62: 2997-3002
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., Garg, N., Verma, M., Kaur, J., Mukherjee, U., Gilbert, J.A., Dowd, S.E., Rajagopal, R., Khurana, P., Khurana, J. & Lal, R. 2012. Comparative Metagenomic analysis of soil microbial communities across three Hexachlorocyclohexane gradients. *PLoS ONE* 7(9): e46219
9. Jit, S., Dadhwal, M., Kumari, H., Jindal, S., Kaur, J., Lata, P., Niharika, N., Lal, D., Garg, N., Gupta, S. K., Sharma, P., Bala, K., Singh, A., Vijgen, J., Weber R. & Lal, R. 2010. Evaluation of hexachlorocyclohexane contamination from the last Lindane production plant operating in India. *Environ. Sci. Pol. Res.* 18: 586–597.
10. Anand, S., Sangwan, N., Lata, P., Kaur, J., Dua, A., Singh, A., Verma, M., Kaur, J., Khurana, J., Khurana, P., Raghuvanshi, S. and Lal, R. 2012. Genome Sequence of *Sphingobium indicum* B90A, a Hexachlorocyclohexane-Degrading Bacterium. *J. Bacteriol.* 194: 4471-4472
11. Sharma, P., Jindal, S., Kiran, B., Kumari, K., Niharika, N., Kaur, J., Pandey, G., Pandey, R., Russell, R. and Lal, R. 2013. Functional Screening of Enzymes and Bacteria for the Dechlorination of Hexachlorocyclohexane by a High-Throughput Colorimetric Assay. *Biodegradation* 25: 179-87.
12. Verma, M., Lal, D., Kaur, J., Saxena, A., Kaur, J., Anand, S. and Lal, R. 2013. Phylogenetic analysis of phylum actinobacteria based on whole genome sequences. *Res. Microbiol.* 164: 718-728
13. Dua, A., Sangwan, N., Kaur, J., Saxena, A., Kohli, P., Gupta, A. K. and Lal, R. 2013. Draft genome sequence of *Agrobacterium* sp. strain UHFBA-218, isolated from rhizosphere soil of crown gall-infected cherry rootstock Colt. *Genome Announc.* 1(3):e00302-13.
14. Verma, M., Lal, D., Saxena, A., Anand, S., Kaur, J., Kaur, J and Lal, R. 2013. Understanding alternative fluxes/effluxes through comparative metabolic pathway analysis of phylum actinobacteria using a simplified approach. *Gene.* 531: 306-317.
15. 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. & Lal, R. 2010. A New Life in a Bacterium through Synthetic Genome: A successful venture by Craig Venter. *Indian J. Microbiol.* 50: 125-131.
16. Majumdar, S., Rustagi, S., Mondal, S., Rijhwani, V., Kaur, J., & Sharma, P. 2014. Aspirin resistance: An emerging clinical predicament is associated with single nucleotide polymorphisms. *International journal of basic and applied biology.* 2: 63-68.
17. Sharma, P., Shyamli, P. S., Singh, R., Kaur, J., Sharma, P. 2014. Determining Parkinson's genes- Disease causing and risk factors. *International journal of basic and applied biology.* 2: 91-97
18. Garg, N., Lata, P., Jit, S. Sangwan, S., Singh, A. K., Dwivedi, V., Niharika, N., Kaur J., et al. 2016. Laboratory and field scale bioremediation of hexachlorocyclohexane (HCH) contaminated soils by means of bioaugmentation and biostimulation. *Biodegradation.* 27: 179. doi:10.1007/s10532-016-9765-6

19. Bhati, S., Chauhan, B., Kaur, J., Sharma, P. Genetics of Lung Cancer- Disease Causing and Risk Factors. 2017. *International Journal of Biotechnology and Biomedical Sciences* Volume 2, pp. 190-196.
20. Nagar, A., Dimple, Arya, A., Kaur, J., Sharma, P. Celecoxib: A Promising Clinical dilemma is associated with Single Nucleotide Polymorphisms. 2017. *International Journal of Biotechnology and Biomedical Sciences* Volume 2, pp. 202-206.
21. Pandey, N., Sharma, P., Rashmi, Navodita, Sharma, P., Kaur, J. Characterization of a Novel Human Protein Expected to be Involved in Signal Transduction. 2017. *International Journal of Biotechnology and Biomedical Sciences* Volume 2, pp. 211-251.
22. Verma, H., Bajaj, A., Kumar, R., Kaur, J., et al. 2017. Genome Organization of *Sphingobium indicum* B90A: An Archetypal Hexachlorocyclohexane (HCH) Degrading Genotype. *Genome Biology and Evolution*. 9 (9): 2191–2197
23. Anand, S., Malhotra, J., Niharika, N., Lal, D., Jindal, S., Kaur, J., Nigam, A., Garg, N., Lata, P., **Kaur, J.**, et al. 2013. Bioremediation of Hexachlorocyclohexane (HCH) Pollution at HCH Dump Sites in Knowledge Systems of Societies for Adaptation and Mitigation of Impacts of Climate Change. pp 387-404. Edited by S. Nautiyal *et al.* Springer Berlin Heidelberg ISBN 978-3-642-36143-2
24. E-content author under NME-ICT project for Zoology for **Undergraduate** courses in Zoology. Ministry of Human Resource Development (MHRD) project, 'National Mission on Education' ISSN 2349-154X
25. E-content Author for **post-graduate** pathshala, UGC under NME-ICT (Project Sponsored by MHRD Government of India) for Molecular Genetics (Zoology) and Molecular Cell Biology.

Conference Organization/ Presentations

CONFERENCE PROCEEDINGS

Proceedings of national conference on Striving & Thriving Towards Diffusion of Student-driven Research in Science and Technology for Inspired Learning ISBN 978-81-7273-958-4

1. Shreya Majumdar, Sonakshi Rustagi, Sreshtha Mondal, Vani Rijhwani, **Jasvinder Kaur**, Poonam Sharma. Genetic polymorphism of platelet aggregation pathway genes is related to aspirin resistance. 2014. pp. 156-162
2. Perna Sharma, P. Sushree Shyamli, Richa Singh, Poonam Sharma, **Jasvinder Kaur**. Determining why some gene mutations cause parkinson's disease and others do not. 2014. pp. 273-279.

POSTER PRESENTATIONS/CONFERENCES/WORKSHOPS

1. **Jasvinder Kaur**. Multidrug resistant TB: "Increasing resistance and emerging strategies" presented in the 49st Annual Conference of the Association of Microbiologists of India entitled " International symposium on microbial biotechnology: Diversity, Genomics and Metagenomics" held from 18th to 20th November 2008 at University of Delhi, India.
2. **Jasvinder Kaur**, et al. "Functional Screening of Enzymes and Bacteria for the Dechlorination of Hexachlorocyclohexane by a High-Throughput Colorimetric Assay". "**Best Poster Award**" presented in the 51st 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.
3. **Jasvinder Kaur**, et al. "Characterization of a novel bacterial strain *Sphingomonas* sp. nov. LNB2^T isolated from hexachlorocyclohexane (HCH) dumpsite". "**Best Poster Award**" 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 9th – 11th February, 2011.
4. **Jasvinder Kaur**, et al. Insertion sequence (IS) mediated Horizontal gene transfer of *linB* into *Novosphingobium barchaimii* U1^T and *Sphingobium baderi* LL02^T - A strategical approach". Poster presented in the 5th 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. **Jasvinder Kaur**, et al. "Whole Genome Sequencing of Hexachlorocyclohexane (HCH) Degrading Bacterium *Sphingobium indicum* B90A". Poster presented in the 53rd Annual Conference of the Association of Microbiologists of India entitled "Microbial World: Recent Innovations and Future Trends" held at KIIT University, Bhubaneswar, Orissa, India from 22-25, Nov 2012.
6. **Jasvinder Kaur**, et al. "Whole Genome Sequencing of Hexachlorocyclohexane (HCH) Degrading Bacterium *Sphingobium indicum* B90A". Poster presented in the Indian Network for Soil Contamination Research (INSCR), National Conference on "Environmental Pollution, Soil Health and Sustainable Agriculture" on January 15th to 17th 2013 held at Amity University Campus, Noida.
7. Helianthous Verma, **Jasvinder Kaur**, et al. "Taxonomical characterization of a novel bacterial strain *Sphingobium baderi* sp. nov., lacking the hexachlorocyclohexane haloalkane dehalogenase *linB* gene, isolated from the HCH dumpsite". Poster presented in the Indian Network for Soil Contamination Research (INSCR), National Conference on "Environmental Pollution, Soil Health and Sustainable Agriculture" on January 15th to 17th 2013 held at Amity University Campus, Noida.
8. Neha Niharika, Anupam Singh, **Jasvinder Kaur**, et al. "Purification of Hexachlorocyclohexane (HCH) Dehydrochlorinase (LinAy1-7) and Optimization of its *in vitro* Refolding from Inclusion bodies in *Escherichia coli*. **"Best Poster Award"** 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 9th – 11th February, 2011.
9. Swati Jindal, **Jasvinder Kaur**, et al. "Mining Diversity of Haloalkane Dehalogenase (*linB*) from Hexachlorocyclohexane (HCH) Dumpsite using Genomic & Metagenomic Approaches". Poster presented in the 51st 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.
10. Shreya Majumdar, Sonakshi Rustagi, Sreshtha Mondal, Vani Rijhwani, **Jasvinder Kaur**, Poonam Sharma. "Genetic polymorphism of platelet aggregation pathway genes is related to aspirin resistance." **"Best Poster Award"** presented in the National conference on "Striving & Thriving Towards Diffusion of Student-driven Research in Science and Technology for Inspired Learning" organized by Embedded Systems and Robotics Centre and Department of Electronics, Maharaja Agrasen College, University of Delhi, New Delhi from 16 - 17 October 2014.
11. Prerna Sharma, P. Sushree Shyamli, Richa Singh, Poonam Sharma, **Jasvinder Kaur**. Determining why some gene mutations cause Parkinson's disease and others do not. Poster presented in the National conference on "Striving & Thriving Towards Diffusion of Student-driven Research in Science and Technology for Inspired Learning" organized by Embedded Systems and Robotics Centre and Department of Electronics, Maharaja Agrasen College, University of Delhi, New Delhi from 16 - 17 October 2014
12. Rashmi, Navodita Sood, **Jasvinder Kaur**. Structural characterization of an uncharacterized human protein. **"Best Poster Award"** presented in Symposium on "Current techniques and developments in bioinformatics", held at TERI University of New Delhi on 19th-20th January, 2015.
13. Attended National Symposium titled "Recent Advances in Immunology" organized under the aegis of Indian Immunology Society's Continuing Medical Education (CME) Programme hosted by Miranda House, University of Delhi on 17 July 2014 at Indian National Science Academy (INSA)
14. Completed ASM virtual workshop on Scientific Writing and Publishing held at Sri Venkateswara College, University of Delhi, awarded on 6th February, 2013.
15. Attended One day national seminar on "Natural products: Application in Human Welfare" on 27th June, 2013, organized at Ramjas College, University of Delhi
16. Attended JNU conference on Indo-US conference and workshop on "Synthetic and Systems Biology" on November 9-12 2014, JNU convention center, New Delhi.
17. Participated in workshop on "Applications of Flow Cytometry", organized by Department of Zoology and D.S. Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi on 20th March, 2015.
18. Oral presentation in one day symposium on "Recent Trends in Biology", organized by the Zoology Department, Maitreyi College, University of Delhi, under the Star College scheme of DBT, Government of India 25th February 2015.
19. Participated in national conference on "Combating industrial pollution for sustainable environment- A fusion

- of industrial and scientific efforts” held at Gargi college, University of Delhi, Delhi on September 22-23, 2016.
20. Participated in workshop on “h-index” held at Gargi College, University of Delhi, Delhi on March 09, 2017.
 21. Attended the INSCR International Conference 2017 on “Role of Microbe-Plant-Animal Interactions in Human Health” from September 26-28, 2017.
 22. Attended a two day National Seminar titled “Mentoring the Teacher-Mentors: Capacity Building Programme” on 19th & 20th January 2018, Gargi College.
 23. Attended a two-day lecture symposium on Ingenuity in biological sciences organised by department of zoology, Gargi college, Delhi University from January 11-12, 2018
 24. Presented poster in the International conference on Microbes for Biotechnological Innovations (MBI-2018) held at Rohtak, Haryana on 7th December, 2018.

Awards and Distinctions

1. Awarded certificate of distinction for securing **1st position** in Acharya Narendra Dev College (2004- 2005).
2. **South Campus Topper** (Second Position) in B.Sc. (Hons.) Zoology (2005-2006).
3. **South Campus Topper** (Third Position) in B.Sc. (Hons.) Zoology (2004-2007).
4. Received **DU Science Meritorious Award** in B.Sc. (Hons.) Zoology (2005-2006).
5. Secured **fourth rank in Delhi University** in B.Sc. (Hons.) Zoology.
6. Receiving **Senior Research Fellowship** from Council of Scientific and Industrial Research (**CSIR-SRF**) in Life Sciences (2011) and awarded **Junior Research Fellowship** from Council of Scientific and Industrial Research (**CSIR-JRF**) in Life Sciences (2009-2011).
7. Qualified **National Eligibility Exam** of University Grants Commission-Junior Research Fellowship examination held in **June 2008**.
8. Qualified **National Eligibility Exam** of Council of Scientific and Industrial Research- Junior Research Fellowship examination held in **December 2008**.

Other Activities

1. Organized a workshop on “It’s in My Genes: A Molecular Biology Approach” at Department of Zoology, Gargi College on 14th- 15th March, 2017.
2. Resource person for summer workshop on Interdisciplinary sciences under star college scheme funded by DBT (Ministry of science and Technology) from 26th to 31st May, 2014. Organized by Gargi College, DU.
3. Course Coordinator for the annual Add-on course on “*Biotechcellence 1: Insights and Innovations*” 17-18
4. Course Coordinator for the annual Add-on course on “*Biotechcellence 2: Insights and Innovations*” 18-19
5. Resource person for DU Pre-Entrance Summer School 2017: Zoology
6. Participated in 8TH Orientation program held at HRDC, JNU from 3rd October to 28th October 2016.
7. Resource person for IGNOU Centre (May 2014-2015, 2017-18, 18-19).
8. Member of Organizing committee of the symposium on “Wanderers of Nature: Exploring Wildlife” scheduled on 12th March 2018, in Gargi College.
9. Reviewer - American Journal of Molecular Biology
10. Resource person for DU Pre-Entrance Summer School 2018: Zoology
11. Resource person for summer workshop on Interdisciplinary sciences under star college scheme funded by DBT (Ministry of science and Technology) from 26th to 31st May, 2014. Organized by Gargi College, DU.
12. Organized a lecture on “Wildlife research and conservation- Future prospects” by Ms. Vaishali Rawat on 7th September, 2018
13. Participated in 23rd Refresher course in Life Sciences and Biotechnology held at HRDC, JNU from 8th October till 2nd November 2018