




## Faculty Details proforma for DU Web-site

Title	Dr. (Mrs.)	First Name	Kamana	Last Name	Singh	Photograph
Designation	Associate Professor					
Address	201, Pkt-B, Sukhdev Vihar, New Delhi-25					
Phone No Office	-					
Residence	-					
Mobile	8447767266					
Email	ksingh@db.du.ac.in					
Web-Page						
<b>Educational Qualifications</b>						
Degree	Institution				Year	
Ph.D.	G. B. Pant university of Agri. And Tech, Pant Nagar				1988	
M. Phil.	-					
PG	G.B.Pant university of Agri. And Tech, Pant Nagar				1983	
UG	Agra University				1979	
Any other qualification	-					
<b>Career Profile</b>						
<p>1. Worked as Assistant Professor in permanent capacity for 7 months in the Department of Biochemistry, G. B. Pant University, Pant Nagar.</p> <p>2. 30 Years teaching experience in permanent capacity in the Department of Biochemistry, Deshbandhu College, Kalkaji, New Delhi-19</p>						
<b>Administrative Assignments</b>						
<ol style="list-style-type: none"> <li>1. Associate Professor in the Department of Biochemistry. Remained teacher In-charge of the Dept of Biochemistry from 1992-1994, 2000-2002, 2008-2010, Nov 2014-Nov 2016.</li> <li>2. Convenor of the organizing committee of departmental academic event "Biospark- 2015" &amp; "Biospark-2016" organised by Biochemistry Department, Deshbandhu College.</li> <li>3. Member of the departmental academic event, Biospark-2017 organised on 27th and 28th Mar, 2017, Biospark 2018 organised on 26th Feb and 9th Oct, 2018, Biospark-2019 organised on 20th Feb and 24th Sep 2019.</li> <li>4. Convenor of college cultural committee from 2018-19.</li> <li>5. Organized a Qawwali by Sufi Nizami brothers on first day of Sabrang-2019 (4-5 Mar 2019)</li> <li>6. Organized a performance by DJ and Prahar band at first day of Sabrang-2019 (4-5 Mar 2019)</li> <li>7. Organized a star performance by Shaan on second day Sabrang 2019 (4-5 Mar 2019)</li> <li>8. Judged the poster presentation session in the 4th National symposium on "Green Technology for Environmental Sustainability" by Department of Zoology on 25th September 2018.</li> <li>9. Organized SPIC MACAY Deshbandhu chapter "Virasat" as convenor, cultural committee on 29th Oct 2018. Padmashri Kathak Guru Shovana Narayan performed classical dance at college auditorium, Deshbandhu college.</li> <li>10. Organized a "Qawaali" by Sufi Nizami brothers on 9th January, in association with "Urdu academy" at college auditorium Deshbandhu College,</li> <li>11. Departmental Coordinator, DBT Advisory committee, DBT Star College scheme, Deshbandhu College, University of Delhi, 2019-2020.</li> <li>12. Judged an oral presentation session in National conference on, "Insect Plant Biology in 21st Century", organized by Department of Zoology, Deshbandhu College on 4th and 5th November 2019 at Vivekananda Auditorium,</li> </ol>						

Deshbandhu College.

13. Resource person in organizing DST-INSPIRE program from 17th to 21 Dec 2019 at Deshbandhu College.
14. Attended a lecture by extension lecture committee in February 2019 at Vivekananda Auditorium, Deshbandhu College.
15. Attended a self-defense workshop organized by women development cell at Deshbandhu College in February 2019.
16. Attended an NCC function organized by NCC, Deshbandhu College in Feb 2019.
17. Attended an NSS function organized by NSS, Deshbandhu College in Feb 2019.
18. Attended a lecture organized by commerce Department of Commerce, Deshbandhu College in Feb 2019.
19. Organised cultural performance by the students of western dance & Indian dance societies of Deshbandhu college at National conference "Pharmacovigilance: Advancements in the safe drug development", on 16th and 17th January 2020 at Vivekananda Auditorium, Deshbandhu College.
20. Organized Rajsthani folk by Sahitya kala parishad at International Conference on "Natural Products and Human Health-2020" organized by Department of Zoology, Deshbandhu College on 27th to 29th Feb 2020 at Conference centre, North Campus, University of Delhi.
21. Judged a classical solo dance performance by students at college annual festival, "Sabrang" on 3rd and 4th March 2020 at Deshbandhu College.
22. Judged "Mr. and Ms. Sabrang competition" at college annual festival, "Sabrang" on 3rd and 4th March 2020 at Deshbandhu College.
23. Convenor of college cultural committee from 2018-19.
24. Convenor of college cultural committee from 2021-22
25. Nominated as Nodal officer at University of Delhi for organization of "Azadi Ka Amrut Mahotsav" for celebrations of 75 years of India's Independence for the session 2021-2022.

#### Areas of Interest / Specialization

**Enzymology, molecular biology, cell biology, Plant Biochemistry**

#### Subjects Taught:

**Have been teaching Biochemistry as subject. Following papers were taught in different modes**

##### **Annual mode**

Metabolism of amino acids and nucleotides, Membrane Biology and Bioenergetics, Molecular Biology, Human Physiology, Biomolecules

##### **Three year program/Semester mode**

Metabolism of amino acids and nucleotides, Membrane Biology, Molecular Physiology, Bioenergetics

##### **FYUP/ Semester mode**

Metabolism of amino acids and nucleotides, Membrane biology and Bioenergetics, Human Physiology, Molecules of life

##### **CBCS mode**

Metabolism of amino acids and nucleotides, Membrane biology and Bioenergetics, Human Physiology, Molecules of life

#### Research Guidance:

1. External examiner in a Ph.D. viva of a student, Rashi Jai Singh who defended her thesis on the topic, "Isolation and characterization of plant growth promoting *Rhizobacteria* from *Seasamum indicum* and their exploitation for enhancement of growth and yield" on 25th April 2018 at Dept. of Microbiology, Himalayan University, Itanagar, Arunachal Pradesh, India.
2. External examiner in a Ph.D. viva of a student, Rakhi Sharma who defended her thesis on the topic, "Evaluation of

pharmacological activities of Cycus revoluta (sago palm) and isolation of active molecules from potent extract” on 24<sup>th</sup> Oct 2018 at Department of Biotechnology, Himalayan University, Itanagar, Arunachal Pradesh, India.

3. External examiner in a Ph.D. viva of a student, Meenakshi Chauhan who defended her thesis on the topic, “Proton donor acceptor equilibria and metal association of pyrazolones and thiovioluric acid” on 15<sup>th</sup> Oct 2018 at Department of Chemistry, Himalayan University, Itanagar, Arunachal Pradesh, India.
4. External examiner in a Ph.D. viva of a student, Ram Pratap who defended his thesis on the topic, “Studies on production and characterization of bio-diesel from Jatropha” on 24<sup>th</sup> Oct 2018 at Himalayan University, Itanagar, Arunachal Pradesh, India.

### Publications Profile

1. Wrote a book chapter on, “women empowerment & disaster management”, chapter 14, for the book Women Empowerment through Skill Development, edition 2015, published by Discovery Publishing House Pvt Ltd, New Delhi, ISBN 978-93-5056-7562.
2. Singh, K.(1988) Multiplication of VAM fungus through axenic propagation. Perspectives in Mycology & Plant pathology. Malhotra publishing house, New Delhi pp 92-102.
3. Singh, K. and Mishra D. P.( 1987) Changes in amylase, phosphorylase, starch and soluble sugars in germinating rice seeds (Oryza sativa L.). Paper presented at Ann. Meet. SBC (I), Chandigarh.
4. Singh, K., Mishra D. P. and Johri, B.N. (1989) Influence of vesicular arbuscular mycorrhiza-Rhizobium interaction on nodulation, N<sub>2</sub> fixation and productivity in French bean (Phaseolus vulgaris L.). Paper presented at Ann. Meet. SBC (I), Itanagar, Abstract no. AGB-2, P-25.
5. Singh, K., Mishra D. P. and Johri, B.N., Characterization of Mycorrhiza specific alkaline phosphatase from French bean (Phaseolus vulgaris L.). Paper accepted for oral presentation at national conference on Mycorrhiza, HAU, Hissar, 1990.
6. Lakhchaura, B. D., Atheya, U. K., Singh, K. (1989) Successful conception in repeat breeding zebu jersey cross bred heifers by injecting 11-alpha hydroxyl progesterone in the luteal phase of cycle. Paper accepted for oral presentation at A. conf. of Animal Physiologists, Kerala.
7. Singh, K., Mishra D. P. and Johri, B.N., Glomus caledonius-Rhizobium interaction and acid and alkaline phosphatases in French bean (Phaseolus vulgaris L.). Paper presented at 7<sup>th</sup> North American Conference on Mycorrhiza (NACOM) held from 3<sup>rd</sup> to 8<sup>th</sup> May 1987 at Gainesville, Florida, USA.
8. **Papers communicated**
9. Singh, K., Mishra, D. P. and Johri, B. N., Influence of VAM-Rhizobium interaction on nodulation, N<sub>2</sub> fixation and growth of French bean (Phaseolus vulgaris L.) communicated to Curr. Sci.
10. Singh, K., Mishra, D. P. and Singh, R.V. Study of whey proteins, alpha lactalbumin and beta-lactoglobulin during different days of lactation in Sahiwal, jersey, red bane, rathi, holstein, freisian cross breed cattles. Communicated to J. Dairy Sci.
11. Singh, K., Mishra, D. P. and Johri, B. N., A comparative study of alkaline phosphatase from mycorrhizal and non-mycorrhizal French bean (Phaseolus vulgaris L.). Communicated to New Phytol.
12. Singh, K., Mishra, D. P. and Johri, B. N., A comparative study of 32P uptake in mycorrhizal and non-mycorrhizal French bean (Phaseolus vulgaris L.). Communicated to Curr. Sci.
13. Popular Articles
  - A. Kamana Singh, Kalpana Garg and Ram Lakhan Singh (1989) “Rang Birange Khadya Padarth Kitne Hanikarak”, SEPT. ISSUE, P.407.
  - i. (ii) Ram Lakhan Singh, Kamana Singh and Kalpana Garg (1989) “Rang Birange Khadya Padarth Kitne Hanikarak”.

### Conference Organization/ Presentations (in the last three years)

1. Jury Member, Organizing Team, Intercollege Competitions for Scientific Cartoon making (Cell-Dialoguetoon) and Innovative idea (Innospark) along with webinar on “Learning Biology through the lens of Bioinformatics” by Prof. N. Latha, Department of Biochemistry, Coordinator, Bioinformatics Center, Sri Venkateshwara College, University of Delhi as part of Biospark’ 2021 at Department of Biochemistry, Deshbandhu College, University of Delhi on 9th April 2021.
2. Attended an “Online Hands-on Workshop in Research Methodology” organized by Deshbandhu College, University of Delhi from 1st April 2021 to 5th April 2021.
3. Member, Team Webinar, Webinar on "Rare Diseases: Rare Insights into The Research, Challenges and Concerns" organized on 29th March, 2021.
4. Member, Team Webinar, International Webinar Series lecture on “Hands on Training Session in Scientific Writing” organized on 12th November, 2020.

5. Member, Team Webinar, International webinar series on, "Understanding Pathophysiology and Therapeutic Strategies for Neurological Disorders" by department of Biochemistry, Deshbandhu College, University of Delhi on 29th Oct 2020.
6. Member, Team Webinar, International webinar on "Non-Invasive Cancer Diagnosis and Prognosis" organized by Department of Biochemistry, Deshbandhu college, University of Delhi on 17th October, 2020.
7. Attended an International Webinar on "The Malleable Brain" organised by the Department of Biochemistry, Shivaji College, under the aegis of DBT sponsored Star College Scheme on 10th October 2020.
8. Attended a national e-Symposium on "Food Safety and Health" organized by Department of Zoology, Deshbandhu College, University of Delhi under the aegis of DBT Star College Scheme and IQAC on 19th September 2020.
9. Attended an "International Yoga Festival-Yog mantrana"-2020 organized by Deshbandhu College, University of Delhi from 1st to 21st June 2020.
10. Attended a webinar on "Awareness on good menstrual hygiene management, stigmas and social practices" organized by WDC and IQAC, Deshbandhu College, University of Delhi on 28th May 2020.
11. Attended a webinar on Mind Matters: Coping with Stress" organized by WDC and IQAC, Deshbandhu College, University of Delhi on 11th May 2020
12. Attended a webinar on "Covid-19 pandemic and immunity" by Dr. Partap Chauhan, Director, Jiva Ayurveda on 6th May 2020 organized by Department of Zoology, Deshbandhu College.
13. Attended a webinar on, "Nanotechnology solutions to Covid-19" by Dr Anita Verma Kamra Associate Professor, Department of Zoology, Kirori Mal College, University of Delhi on 1st may 2020 organized by Institute of Home Economics, Delhi University.
14. Attended a webinar on "Socio psychological issues and covid-19"" by Prof. Swati Patra, School of Social Sciences, IGNOU, New Delhi on 6th May 2020 organized by Department of Zoology, Deshbandhu College.
15. Attended a webinar on the topic, "DNA Repair" by Dr. Umesh Varshney, Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru, India College on 30th April 2020, organized by Department of Biochemistry, Shivaji college, Delhi University.
16. Attended a webinar on, "Staying healthy and safe during covid-19" by Dr. L. Gopalachandran, Associate Professor at College of nursing, AIIMS, New Delhi on 29th April 2020 organized by Sri Venkateswara college, Delhi University
17. Attended a webinar on, "Mental Health Issues and Solutions" by Dr. Nand Kumar, Professor, Department of Psychiatry, AIIMS, New Delhi on 28th April 2020 organized by Sri Venkateswara college, Delhi University
18. Attended a webinar on, "Covid-19 breaking myths and moving forward" by Dr. Randeep Guleria, Director, AIIMS, New Delhi on 27th April 2020 organized by Sri Venkateswara college, Delhi University
19. Attended a webinar on, "Embracing traditional knowledge: Indian vedic immunoboosting practices" on 20th April 2020 by Prof. Bal Ram Singh, Professor at Institute of Advanced Sciences (Dartmouth, USA) organized by Shaheed Rajguru College of Applied Sciences for women, Delhi University,
20. As Convenor, organized a two days National conference, "Pharmacovigilance: Advancements in the safe drug development-(NCPASDD-2020)", on 16th and 17th January 2020 at Vivekananda Auditorium, Deshbandhu College.
21. Attended a national conference on, "Insect Plant Biology in 21st Century", organized by Department of Zoology, Deshbandhu College on 4th and 5th November 2019 at Vivekananda Auditorium, Deshbandhu College.
22. As a member, Organizing committee, International Conference on "Natural Products and Human Health-2020" by Department of Zoology, Deshbandhu College on 27th to 29th Feb 2020 at Conference centre, North Campus, University of Delhi.

#### Poster Presentations:

1. Arya P, Singh K, Mishra P, Kundu B. A review on natural compounds interacting with the amyloids and possibility of uses in treatment of neurodegenerative disorders, at International Conference on "Natural Products and Human Health-2020" organized by Department of Zoology, Deshbandhu College on 27th to 29th Feb 2020 at Conference centre, North Campus, University of Delhi.
2. Chattree V, Jain R, Singh K. Encapsulation of four natural products betulinic acid, parthenolide, honokiol, and ginsenoside Rh2 in cocktail liposome therapy for lung cancer treatment, International Conference on "Natural Products and Human Health-2020" organized by Department of Zoology, Deshbandhu College on 27th to 29th Feb 2020 at Conference center, North Campus, University of Delhi.

#### Research Projects (Major Grants/Research Collaboration)

NA

#### Awards and Distinctions

1. Recipient of various scholarships from 10<sup>th</sup> class to M.Sc. (Biochemistry).
2. CSIR-NET Fellowship for pursuing Ph.D.

#### Association With Professional Bodies

1. Edited abstract book of the national symposium organized by the Department of Zoology on the topic, "Green Technology for Environmental Sustainability" on 25<sup>th</sup> September 2018.
2. Member of the various committees at college like academic and workload committee, canteen committee, building committee and convener of cultural committee.
3. Convener of cultural committee of college from April 2018 to March 2019.

#### Other Activities

1. Presented SWOC (Strength, weaknesses, opportunities and challenges) report of the Department of Biochemistry before the peer team of NAAC on 20<sup>th</sup> September 2016.1. Have been Chief Guest & Guest of Honor at the annual fest of various schools.
2. Have been main person for the selection committee of science teacher in the New Horizon Public School, Nizamuddin, New Delhi.
3. Have been guest of honour during annual fest organised by New Horizon Public School, Nizamuddin, New Delhi.
4. Appointed as one of the member for society of the School Mount Olympus, Gurugram.
5. Member of the society for Tara Public School, Sohna.

Signature of Faculty Member