




Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Jitendra	Last Name	Chaudhary	Photograph
Designation		Assistant Professor				
Address		28 A/16, Jia Sarai, New Delhi-16				
Office Phone No.						
Residence						
Mobile		9953585599				
Email		jnujitendra@gmail.com				
Web-Page						
Educational Qualifications		M.Phil-PhD				
Degree		University/Institute			Year	
Ph.D.		Jawaharlal Nehru University			2014	
M.Phil./M.Tech.		Jawaharlal Nehru University			2008	
PG		University of Allahabad			2006	
UG		V.B.S Purvanchal University			2004	
Any Other Qualification						
Career Profile (Teaching experience: 5 years)						

1. Assistant Professor (Ad-hoc) in Zoology Department, Shivaji College, Delhi University (Since July 2013 till date)
2. Assistant Professor (Guest Lecturer) in Zoology Department, Maitreyi College, Delhi University (15th March 2013 to 15th April 2013)
3. Assistant Professor (Guest Lecturer) in Zoology Department, Sri Venkateswara College, Delhi University (January 2013 to April 2013)
4. Qualified **ICMR-JRF** conducted by Indian Council of Medical Research (ICMR), New Delhi, India in the year 2007.
5. Qualified Council for Scientific and Industrial Research; one of the premier scientific bodies of Government of India) **CSIR-JRF** for **SPMF** (Ranked among top 10% at National Level) conducted by Council of Scientific & Industrial Research (CSIR), India, in the year 2007 (June).
6. Qualified **CSIR-JRF** conducted by Council of Scientific & Industrial Research, India in the year 2007 (June).
7. Qualified **CSIR-UGC-NET** conducted by Council of Scientific & Industrial Research, India in the academic year 2006 (December).
8. Qualified **All India Entrance Examination for M.Phil/Ph.D.** conducted by Jawaharlal Nehru University (JNU), New Delhi, India (2007) and stood among top 10.
9. Qualified Life Science Graduate Aptitude Test in Engineering conducted by IIT-Kanpur (**GATE-Life Sciences**) with All India Rank 846 in 2007.

Administrative Assignments

Have worked in several departmental committees like **Instrumentation supervisory committee** and **Result Analysis committee**.

Areas of Interest/Specialisation

Molecular Stem Cell and Cancer Biology

Subjects Taught

Molecular Biology, Cell Biology, Biochemistry, Animal Physiology & Developmental Biology, Genetics, Biostatistics, Immunology, Invertebrate and Vertebrate Biology, Ecology and Environmental Sciences & Management, Biotechnology, Research Methodology

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

NA

Publications Profile (Research Papers/Books)

1. **Chaudhary JK** and Rath PC 2017. Microgrooved-surface topography enhances cellular division and proliferation of mouse bone marrow-derived mesenchymal stem cells. *PLoS ONE*. 12(8):e0182128. (Journal Impact Factor = 4.092)(International publication). (eISSN-1932-6203) (UGC S.N. 37933).
2. Mishra RR, **Chaudhary JK**, Bajaj GD, Rath PC, 2011. A Novel Human TPIP Splice-Variant (TPIP-C2) mRNA, Expressed in Human and Mouse Tissues, Strongly Inhibits Cell Growth in HeLa Cells. *PLoS ONE* 6 (12): e28433. (Journal Impact Factor = 4.092) (International publication). (eISSN-1932-6203) (UGC S.N. 37933).
3. Mishra RR, **Chaudhary JK** and Rath, PC. 2012. Cell Cycle Arrest and Apoptosis by Expression of a Novel TPIP (TPIP-C2) cDNA encoding a C2-Domain in HEK-293 cells. *Molecular Biology Report* 39; 7389-7402. (Journal Impact Factor = 2.506) (International Publication). ISSN:4851 (print version) ISSN:1573-4978(electronic) (UGC S.N. 31535).
4. **Chaudhary JK** 2012. Experience at the 10th Annual Meeting of International Society for Stem Cell Research (ISSCR), Pacifico Yokohama, Japan. **Achievers league, USA**. Enriching Scientific Minds. *Newsletter*, Volume 1; Issue 1; pp 2-3: Fall-2012 (International Publication).
5. **Chaudhary JK** and Rath PC. 2013. Mesenchymal stem cells and regenerative medicine. *Stem cells and reproductive health (ISSRF Newsletter)*, September 2013;

- Issue 13; pp 14-15 (*National Publication*).
6. **Chaudhary JK** 2013. Research scenario: crucial issues and challenges from a researcher's perspective, *Society of Biological Chemist (SBC) Newsletter*. Vol. 103, Page 7; July 2013. (*National publication*).
 7. **Chaudhary JK** and Rath PC 2013. Stem cells: promising therapeutic avenues for neurodegenerative diseases. *BHU-IBRO* (Conference/workshop proceeding/Abstract book); page 7-11; 19-23 Oct. 2013.
 8. **Jitendra K. Chaudhary** and Pramod C. Rath 2014. Stem Cells and Regenerative Medicine: Mesenchymal Stem Cells from the Bone Marrow. *Proceedings of the National Symposium on Frontiers in Modern Biology*. Page 13-14. March 24 - 25, 2014 Department of Zoology, School of Biological Sciences, Dr. H. S. Gour Central University, Sagar (MP) (Proceeding/Abstract).
 9. **Chaudhary JK** 2014. Emergence of global scientific misconduct: relevant ethical concerns and step forward. Vol 1, No 3 (2014): *Journal of Studies in Dynamics and Change* (JSDC) vol-1, issue-3, page 134-136, July 2014;ISSN:2348-7038.
 10. **Chaudhary JK** 2014. Ph.D. and Research: Treading a difficult path. *Journal of Studies in Dynamics and Change* (JSDC): vol-1, issue-5, page 221-223, November 2014; ISSN:2348-7038.
 11. **Chaudhary JK** and Rath PC 2014. Geriatrics and stem cell research; Invited book chapter (*National Publication*) in "*Text Book of Geriatric Medicine*" published by Indian Academy of Geriatrics (National Publication: Paras Medical Publisher, New Delhi): Chapter 155, page778-785. 1st Edition, *Editor-in-Chief-Pratap Sanchetee*, DM. ISBN: 978-81-8191.
 12. **Chaudhary JK** 2016. Critical analysis of multidimensional health and non-health issues and challenges faced by women in India: putting the best foot forward. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016). *Conference Proceedings*: vol 2, page 191-195, January 2016; ISBN: 978-93-85822-10-0.

13. Chaudhary Pankaj Kumar, Mishra Kamlesh Kumar, **Chaudhary JK** 2016. Stem Cells: 2016 Spatio-temporal Diversity and Therapeutic Applications. *International Journal of Life Sciences*, 2016; 4(1), 151-158; ISSN: 2320-7817. (UGC S.N. 48951)
14. **Chaudhary JK** 2015. Harnessing stem cell potential for regenerative medicine and cell-based therapy. *Journal of Studies in Dynamics and Change (JSDC)*: vol 2, issue-1, page 339-343, January 2015; ISSN: 2348-7038.
15. **Chaudhary JK** 2016. Crucial issues concerning India's academic and educational institutions: challenges and way forward. *Shivraj: Shivaji College's Annual Magazine*; 7 April 2016; page 1-5.
16. Chaudhary PK and **Chaudhary JK** 2016. Generation of Induced Pluripotent Stem Cells (iPSCs) through Cellular Reprogramming. *International Journal of Life Sciences*. 2016; 4(2), 289-292; ISSN: 2320-7817. (UGC S.N. 48951)
17. **Chaudhary JK** and Rath PC 2016 (Abstract). Role of Stem Cells in Geriatrics. *Journal of the Indian Academy of Geriatrics* (Conference Issue). Page 94, Vol.12, No.3, Sept 2016; ISSN 0974-3405.
18. **Chaudhary JK**, Rath PC 2017. Stem Cells, Aging, Challenges and the Way Forward. *Ann Pharmacol Pharm*. 2(2): 1017. ISSN 2573-6051.
19. **Chaudhary JK** 2017 Digital distraction in educational institutions and workplaces: challenges and way forward *Shivraj: Shivaji College's Annual Magazine*; 7 April 2017; page 9-10.
20. **Chaudhary JK** and Rath PC 2017. A simple method for isolation, propagation, characterization and differentiation of adult mouse bone marrow-derived multipotent mesenchymal stem cells. *J Cell Sci Ther* 8:261. doi: 10.4172/2157-7013.1000261; ISSN: 2157-7013.
21. **Chaudhary JK** 2017. Integrating quantitative approach in classroom study to develop better understanding about biological concepts, processes and phenomena. *Research and Review: Journal of zoological sciences*. Vol 5, Issue 1, pp 70-72. (UGC S.N. 42580)
22. **Chaudhary JK** and Rath PC. Multipotent mesenchymal stem cells (MSCs) from the mouse bone marrow show enhanced expression of Interferon Regulatory Factors (IRFs)-1 and 2 in response to Lipopolysaccharide (LPS) and Retinoic acid (ATRA) treatments

(Under Review).

23. **Chaudhary JK** and Rath PC (2017). Stem cells and ageing (Springer book Chapter) (Accepted)
24. **Chaudhary JK** and Rath PC. Mesenchymal stem cells: Biology and Applications (under preparation: Review Article)

Conference/Seminar/Faculty Development Programme/Workshop

Scientific lectures/ talks

1. Jitendra K. Chaudhary, Naseem Ahamad and **Pramod C. Rath** (2017). Aging and Stem Cell Research.
2. **Chaudhary J.K.** and Rath P.C. (11 November 2016) "Role of Stem Cells in Geriatrics" during "Indian Aging Congress" held (9 Nov-11 Nov. 2016) at AIIMS, New Delhi.
3. Chaudhary J.K. and **Rath P.C.** (October 2013) "Stem Cells and Regenerative Medicine: Mesenchymal Stem Cells from the Bone Marrow" March 24-25, 2014 in National Symposium on Frontiers in Modern Biology organised by Dept. Of Zoology, School of Life Sciences, Dr. Hari Singh Gaur University, Sagar, M.P. India.
4. Chaudhary J.K. and **Rath P.C.** (October 2013) "Stem cells: promising therapeutic avenues for neurodegenerative diseases" from October 19- 23, 2013 (International brain research organization), Emerging Trends in Neuroscience: Molecular and Cellular Approaches at BHU.
5. **Chaudhary J.K.** and Rath P.C. (July 2013). "Stem cell research and ethical concern" in "National Convention of Ethical Research and Concern on Human Subject" on July 30-31, 2013 at Convention Centre, Jawaharlal Nehru University, New Delhi, India.
6. **Chaudhary J.K.** and Rath P.C. (15-16 Feb, 2013). "Isolation, culture and characterization of bone marrow-derived mesenchymal stem cells and their role in promoting bone marrow regeneration in radiation-induced bone marrow-damage mouse model" in Biospark-2013 at School of Life Sciences, Jawaharlal Nehru University-Delhi, India.
7. **Chaudhary J.K.** and Rath P.C. (2012). "Bone marrow mesenchymal stem cells:

culture, differentiation and gene expression” in the National Workshop on Stem Cell Research and Therapeutics: Current status and future strategies (as Young Investigator) held on 28-29 Sept. 2012 at IVRI, Izatnagar, India.

Scientific activities and Presentations

- 1. Chaudhary JK** (2016). “Regenerative potential of bone marrow and bone marrow-derived mesenchymal stem cells in a radiation-induced bone marrow-damage animal model”. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016) held at Daulat Ram College, University of Delhi, New Delhi, India, on 15th and 16th January, 2016 (*Poster presentation; International conference*). (ISBN:978-93-85822-11-7)
- 2. Chaudhary JK** and Rath PC (2013). “Isolation, propagation, characterization of the mesenchymal stem cells (MSCs) from the bone marrow of mouse and their potential in bone marrow regeneration” during **SCIENCE FESTIVAL (National science day)** on **28th Feb, 2013** in JNU auditorium complex with the support of DST-PURSE grant. (*Poster presentation; National conference*)
- 3. Chaudhary JK** and Rath PC (2013). “Isolation, culture and characterization of bone marrow-derived mesenchymal stem cells and their potential to regenerate bone marrow in a radiation-induced bone marrow-damage mouse model” in national conference on emerging trends and challenges in basic and translational research in biochemistry, February 4-5, 2013 at Department of zoology, Banaras Hindu University, Varanasi, India. (*Poster presentation; National conference*)
- 4. Chaudhary JK** and Rath PC (2013). “Biology and application of mesenchymal stem cells from bone marrow” in national conference on emerging trends and challenges in basic and translational research in biochemistry, February 4-5, 2013 at Department of zoology, Banaras Hindu University, Varanasi, India. (*Oral talk; National conference*)
- 5. Chaudhary JK** and Rath PC (2012). “Expression and localization analysis of Interferon Regulatory Factors (IRFs)-1 and 2 in mouse bone marrow-derived multipotent mesenchymal stem cells”) in “3rd International Conference on Stem Cells and Cancer (ICSCC-2012): Proliferation, Differentiation and Apoptosis”; 27-30 October, 2012 at PGIMER Auditorium, Dr. Ram Manohar Lohia Hospital, New Delhi, India. (*Poster;*

International Conference).

6. Kakar R, **Chaudhary JK**, Kakar P, Smith E and Walia V (2012). "Interactive Online Tool to Enhance Scientific Writing Skills" in "3rd International Conference on Stem Cells and Cancer (ICSCC-2012): Proliferation, Differentiation and Apoptosis"; 27-30 October, 2012 at PGIMER Auditorium, Dr. Ram Manohar Lohia Hospital, New Delhi, India. (*Poster; International Conference*).
7. **Chaudhary JK** and Rath P.C. (2012). "Bone marrow mesenchymal stem cells: culture, differentiation and gene expression" in the National Workshop on Stem Cell Research and Therapeutics: Current status and future strategies (as Young Investigator); 28-29 Sept. 2012 at IVRI, Izatnagar, India. (*Oral/Podium talk; National Conference*).
8. **Chaudhary JK** and Rath P.C. (2012). "A modified method for isolation and propagation of mouse bone marrow-derived mesenchymal stem cells" in 10th Annual Meeting of International Society for Stem Cell Research (ISSCR), 13 to 16 June at Pacifico Yokohama, Yokohama, Japan. (*Poster; International Conference*).
9. **Chaudhary JK** and Rath, PC. (2010) 'Isolation, culture, propagation, characterization and differentiation of bone marrow derived multipotent mesenchymal stem cells (MSCs) from mouse', "International Conference on Stem Cells and Cancer (ICSCC)", 11 to 14 December, 2010 at International Institute of Information Technology (I²IT), Pune, India. (*Poster; International Conference*).

National/International Conferences, Meeting and Symposium Attended

1. **Workshop:** Successfully completed Workshop on "Scientific Writing and Bioethics" held on 20-21 September 2012 at School of Life Sciences, Jawaharlal Nehru University (JNU), New Delhi, India.
2. **Workshop:** Successfully completed the lab sessions (Dr. B. S. Dwarakanath's Laboatory) and tutorials in the Flow Cytometry Workshop on "Cell Proliferation and Cell Death (TCS-12W2)" organized by the Cytometry Society, India, at Institute of Nuclear Medicine and Allied Sciences (INMAS), New Delhi, India, during July 17-20, 2012.
3. **Workshop:** Participated in the ICMR workshop on Biomedical Communication held

at the ICMR headquarters on April 28, 2012, New Delhi, India.⁴

4. Participated in On day National Symposium on “ New Horizon in Basic and Clinical Research” organized by Society of young scientists at AIIMS, New Delhi, JLN Auditorium on 16th April 2012.
5. **Workshop:** Confocal/Live cell imaging microscopy and its applications at Instrumentation Research Facility (AIRF), Jawaharlal Nehru University, New Delhi held on 26-27 March, 2012, India at AIRF, JNU.
6. **Workshop:** Electron Microscopy (SEM and TEM and their modified versions) and its applications at Advanced Instrumentation Research Facility (AIRF), Jawaharlal Nehru University, New Delhi held on 28-29 February, 2012, India.
7. Attended **Orientation programme** on Ethics in research on human subjects organized by Institutional Ethics Review Board-Jawaharlal Nehru University (IERB-JNU) on 18th February, 2012, at SLL & CS, Jawaharlal Nehru University (JNU), New Delhi, India.
8. Attended in the 'International Symposium on Molecular Pathology' held on January 28 to 29, 2012 at Manekshaw Centre, New Delhi, India.
9. Attended Abcam seminar covering introduction to ChIP optimization techniques for Immunoprecipitation and Optimization techniques for Immunohistochemistry, held on 16 Nov 2011, at School of Life Sciences (SLS), Jawaharlal Nehru University (JNU), New Delhi, India.
10. **Workshop:** Basic wet laboratory training on FACScalibur and its applications in cell immunophenotyping, cell cycle analysis, intracellular protein localization and analysis and other biological research fields from 10th to 12th March, 2008 at BD Biosciences Flow Cytometry Training Centre, Gurgaon, Haryana, India.
11. Attended/participated in the symposium on Molecular Approaches in Cytogenetics, held under the auspices of Department of Zoology, University of Allahabad from October 20-22, 2005, India

Short-duration courses/Diplomas

1. Successfully completed A Special Intensive Course "English for Academic Writing: From Synopsis to Thesis Writing", held from May 27th to June 14th 2013 (3 weeks duration) at Linguistic Empowerment Cell, Jawaharlal Nehru

University (JNU), New Delhi. This workshop was sponsored by Ministry of Human and Resource Development (MHRD), Government of India.

2. Successfully completed four-month duration-University Grant Commission-sponsored linguistic course on English communication, Writing and soft skill development at Jawaharlal Nehru University (JNU), New Delhi.
3. Successfully completed (Score 98.58%, A+ (1183/1200) two months duration "Advanced International Scientific Writing, Course/Workshop, Summer-2012" organised by Achievers League, USA (summer 2012, June19 to 26th August, 2012).
4. Successfully completed Capacity Building Programme for the students of the Jawaharlal Nehru University (Training/Workshop duration 29th March to 10th May 2012), sponsored by University Grant Commission (UGC) on Research and Data analysis (methodology, Experimental designing and writing project report and applications of various statistical tools, including SPSS, Sigma, Microsoft XL to analyse various kind of data) imparted by Sambodhi Research and Management Institute at Centre for Study of Law and Governance (CSLG), Jawaharlal Nehru University, India.

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

NA

Awards and Distinctions

1. **Young Investigator Award** for best scientific research presentation entitled “Bone marrow mesenchymal stem cells: culture, differentiation and gene expression” in the “National Workshop on Stem Cell Research and Therapeutics: Current Status and Future Strategies” held from 28th -29th September, 2012 at Indian Veterinary Research Institute (IVRI), Izatnagar, under the aegis of Indian Society for the Study of Reproduction and Fertility (ISSRF).
2. **Ranked 1st Position** (A+; 1183/1200; 98.58%) in “Advanced International Scientific Writing Course-2012” conducted by Achievers League, USA.
3. Travel grant from DST-SERB (SR/ITS/0861/2012-2013) to present poster 10th Annual ISSCR Meeting at Pacifico Yokohama, Japan during June 13- 16, 2012.
4. ICMR-SRF September 2010- August 2012
5. ICMR-JRF August 2007-August 2010
6. **Third Position** in M.Sc. Zoology Department, University of Allahabad-2006.
7. **First Prize-** Annual Sports day 2015 at Shivaji College, University of Delhi
8. **Second Best Poster Prize** during **International Conference** for presentation entitled “Regenerative potential of bone marrow and bone marrow-derived mesenchymal stem cells in a radiation-induced bone marrow-damage animal model”. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016) held at Daulat Ram College, University of Delhi, New Delhi, India, on 15th and 16th January, 2016 (ISBN:978-93-85822-11-7)
9. **Second Position-** Hurdle Race- Annual Sports Day 2017 (9 March) at Shivaji College, University of Delhi.

Memberships

1. Associate member (young investigator) of International Society for Stem Cell Research (ISSCR, Member ID 30605) (Since February 2012)
2. Student member of Molecular Pathology Association of India (MPAI) (Student Member MPAI/SM-0005)
3. Life member of Society of Biological Chemists (SBC), India. (Life Membership no. 2716)
4. Life member of The Cytometry Society-India (Life Membership no. L-1157)

Other Academic Activities

1. Organised "**Meet the Speaker**" seminar at School of Life Sciences in 2011-2012.
2. Worked as volunteer in organizing several symposium and seminar at JNU, New Delhi from 2008-2013.
3. Worked as Resource person and conducted hand-on-training on **UV spectrophotometer based DNA-Protein estimation** to Students during Science Camp sponsored by DST-INSPIRE Workshop organized from 19-23 December 2015 at Shivaji College, University of Delhi.
4. Worked as a resource person during organization of "**workshop for laboratory staff in chemical and life sciences**", 31st May-3 June 2016 at Shivaji College, DU.
5. Worked as a resource person during organization of "**Interdisciplinary workshops for science faculty**", 25 Sept. and 1st Oct. 2016 at Shivaji College, DU.
6. Worked as Resource person and conducted hand-on-training on **Measurement of Blood Pressure with Sphygmomanometer** to Students during 2nd Inspire Science Camp sponsored by DST-INSPIRE, organized from 14-18 December 2016 at Shivaji College, University of Delhi.

Cultural/Extracurricular Activities

1. Academic Tour to Sultanpur National Park & The Energy Research Institute-2014
2. Academic tour to Delhi Zoo-2013-2014
3. Student Visit to IGIB, New Delhi (2016-2017)
4. Student Visit to RGB, Gurugram Delhi (2016-2017)
5. Student visit to Department of anthropology, DU on 6th April 2017

Signature of Faculty Member