



**DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI – 110019**
Faculty Details Proforma for College Website

Title	Mr.	First Name	Arun	Last Name	Chhokar	Photograph
Designation	Assistant Professor					
Address	Department of Zoology, Deshbandhu College, Kalkaji, University of Delhi, Delhi-110019					
Phone No Office	--					
Residence	--					
Mobile	9671264606					
Email	achhokar@db.du.ac.in					
Web-Page	https://sites.google.com/db.du.ac.in/achhokar/home					
Educational Qualifications						
Degree	Institution				Year	
B.Sc. (Hons.) Zoology	Kirori Mal College, DU, New Delhi, INDIA				2015	
M.Sc. Zoology	Kurukshetra University, Kurukshetra, INDIA				2017	
Ph.D. (Zoology)	University of Delhi, New Delhi, INDIA				2018-	
Career Profile						
2022 onwards	Assistant Professor, Department of Zoology, Deshbandhu College, DU					
2018- 2022	CSIR-JRF/SRFship at University of Delhi, Delhi, INDIA.					
Administrative Assignments						
NA						
Areas of Interest / Specialization						
Molecular Oncology Molecular Diagnostics, Host-Virus Interactions						
Subjects Taught						
Non-Chordates Animal Behaviour Cell Biology Human Physiology						
Research Guidance						
NA						
Publications Profile						

Publications – Full length articles - 9; Book Chapters– 2;

1. Singh T., **Chhokar A.**, Thakur K., Aggarwal, N., Pragya P., Yadav J., Tripathi T., Bhat A., Jadli M., Kumar A., Gupta P., Khurana A., & Bharti A.C.^{##} (2021). Targeting aberrant expression of STAT3 and AP-1 oncogenic transcription factors and HPV oncoproteins in cervical cancer by *Berberis aquifolium*, **Frontiers in Pharmacology**, DOI: 10.3389/fphar.2021.757414 (IF:5.8)
2. Bhat A., Yadav J., Thakur K., Tripathi T., **Chhokar A.**, Aggarwal, N., Singh T., Jadli, M., Veerapandian V., Hutchin A.P., & Bharti A.C.^{##} (2020). Transcriptome analysis of cervical cancer exosomes and detection of HPV E6*1 transcripts in exosomal RNA, **BMC Cancer** (IF:3.4)
3. Aggarwal, N., Yadav J., Chhakara S., Janjua D., Tripathi T., Chaudhary A., **Chhokar A.**, Thakur K., Singh T., & Bharti A.C.^{##} (2021). Phytochemicals as Potential Chemopreventive and Chemotherapeutic Agents for Emerging Human Papillomavirus-driven Head and Neck Cancers: Current Evidence and Future Prospects, **Frontiers in Pharmacology**, doi.org/10.3389/fphar.2021.699044. (IF:5.8)
4. Bhat A., Yadav J., Thakur K., Aggarwal, N., Tripathi T., **Chhokar A.**, Singh T., Jadli, M., Sharma A., & Bharti A.C.^{##} (2021). Exosomes from cervical cancer cells facilitate pro-angiogenic endothelial reconditioning through transfer of Hh signalling components, **Cancer Cell International**. 21(1):319. PMID: 34167524. (IF:5.7)
5. Aggarwal, N., Yadav J., Thakur K., Bibban R., **Chhokar A.**, Tripathi T., Bhat A., Singh T., Jadli, M., Singh U., Kashyap M., & Bharti A.C.^{##} (2020). Human papillomavirus infection in head and neck cancers: Transcriptional triggers and changed disease patterns, **Frontiers in Cellular and Infection Microbiology**, 10:537650. PMID: 33344262. (IF:5.2)
6. Jadli, M., Thakur K., Aggarwal, N., **Chhokar A.**, Bibban R., Singh T., Bhat A., & Bharti.A.C.^{##} (2020). Delineating role of NF-κB and interacting cytokines during prostate cancer induced osteoclastogenesis, **Journal of Cellular Biochemistry**. 122(2):259- 276. PMID: 33053226. (IF:4.4)
7. Tripathi A., Kashyap A., Tripathi G., Yadav J., Bibban R., Aggarwal N., Thakur K., **Chhokar A.**, Verma Y., Zayed H., Husain A., Bharti A.C.,^{##} & Kashyap M.* (2021), Tumor Reversion: a dream or a reality, **Biomarker Research**, 9(1):31. PMID: 33958005. (IF: 8.6)
8. Thakur K, Janjua D, Shishodia G, **Chhokar A**, Aggarwal N, Yadav Joni, Tripathi T, Chaudhary A, Senrunga A and Bharti A.C.^{##} (2022). Investigation of Molecular Mechanisms Underlying JAK/STAT Signaling Pathway in HPV-induced Cervical Carcinogenesis using 'Omics' Approach. **Medical Oncology**, 2022 Oct 12;39(12):255. doi: 10.1007/s12032-022-01854-1. PMID: 36224441. (IF: 3.29)

9. Singh T., Aggarwal, N., Thakur K., **Chhokar A.**, Yadav J., Tripathi T., Jadli M., Bhat A., Kumar A., Narula R.H., Gupta P., Khurana A., & Bharti A.C.^{##} (2022). Evaluation of therapeutic potential of selected plant-derived homeopathic medicines for their action against cervical cancer. **Homeopathy. (Accepted) (IF: 1.5)**

Other Publications/ Book Chapters (2)

1. Yadav J., Aggarwal, N., Chaudhary A., Tripathi T., Baruah, D., Chhakara S., Janjua D., **Chhokar A.**, Thakur K., Senrunga, A., Bharti A.C.^{##} (2022). Role of Exosomes in Tumor Induced Neo-Angiogenesis, **Tumor Angiogenesis, InTech Open**, ISSN 0192303X.
2. Bharti, A. C.^{##}, & **Chhokar A.** (2019). Need for a better cervical cancer screening tool for 'elimination' of cervical cancer, **ISSRF Newsletter**, Issue 24, ISSN 23952806.

Conference Organization/ Presentations

Conferences, Symposia and Workshops Organized

1. International Colloquium on "Deciphering Bioregulatory Mechanism in Health and Disease using 'omics' Approach" Department of Zoology, University of Delhi, 24th-25th February, 2022 (Member of Organizing Team)
2. 5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on "Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases" Department of Zoology, University of Delhi, 7th-9th October, 2022 (Member of Organizing Team)

Number of Papers presented in conferences/Proceedings (Total -32)

1. Alok Chandra Bharti^{##}, Anjali Bhat, Aman Sharma, Mohit Jadli, Tejveer Singh, Kulbhushan Thakur, Kavita Bagel, Nikita Aggarwal, Joni Yadav, Ujala Singh, Rakhi Bibban, & **Arun Chhokar**, "Exploration of Exosomal Cargo from Cervical Cancer Cells and its Functional Relevance" International Symposium on "Tumor Microenvironment and Cancer Prevention & Therapeutics" School of Life Sciences, Jawaharlal Nehru University, New Delhi, February 08-09, 2019.
2. Alok Chandra Bharti^{##}, Anjali Bhat, Joni Yadav, Ujala Singh, Mohit Jadli, Tejveer Singh, Kulbhushan Thakur, Nikita Aggarwal, Rakhi Bibban, & **Arun Chhokar**, "Role of Exosomes in carcinogenic signaling in cervical cancer" National symposium on basic and translation research in cancer biology, IAR Gandhinagar, September 11-13, 2019.
3. Alok Chandra Bharti, Tejveer Singh, **Arun Chhokar**, Kulbhushan Thakur, Rakhi Bibban, Nikita Aggarwal, Mohit Jadli, Anjali Bhat, "Possibilities of repurposing homeopathic formulations based on Berberis aquifolium treatment of cervical cancer" International conference on nutraceuticals and chronic diseases(INCD), IIT Guwahati, September 23-25, 2019.
4. Mohit Jadli, Kulbhushan Thakur, Nikita Aggarwal, **Arun Chhokar**, Rakhi Bibban, Tejveer Singh, Anjali Bhat, Alok Chandra Bharti "Prostate cancer-induced osteoclastogenesis mediated by activators of NF- κ B signalling as a model for nutraceutical screening for cancer-induced osteoporosis" International conference

- on nutraceuticals and chronic diseases(INCD), IIT Guwahati, September 23-25, 2019.
5. Ujala Singh*, Kavita Baghel, Joni Yadav, **Arun Chhokar**, Kulbhushan Thakur, Rakhi, Tejveer Singh, Nikita Aggarwal, Mohit Jadli and Alok C. Bharti# “To understand molecular mechanisms of miRNA mediated drug resistance in lung cancer for their targeting by nutraceuticals” International conference on nutraceuticals and chronic diseases(INCD), IIT Guwahati, September 23-25, 2019.
 6. Kulbhushan Thakur, **Arun Chhokar**, Nikita Aggarwal, Rakhi Bibban, Joni Yadav, Mohit Jadli, Tejveer Singh, Anjali Bhat, Alok Chandra Bharti##, “Activated STAT3 signaling in cervical carcinogenesis: its role in HPV transcription, replication and integration in the host genome” in 8th International Translational Cancer Research Conference, Varanasi, February 13-16, 2020.
 7. Alok Chandra Bharti##, **Arun Chhokar**, Kulbhushan Thakur, Nikita Aggarwal, Rakhi Bibban, Joni Yadav, Mohit Jadli, Tejveer Singh, Anjali Bhat “Human Papillomavirus Infection and Cervical Cancer: Challenges and Opportunities for Early Detection and Prevention” ISSRF2020: World Congress on Reproductive Health with Emphasis on Reproductive Cancers, Infertility and Assisted Reproduction at Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir, February 14-16, 2020.
 8. Anjali Bhat, Joni Yadav, Aman Sharma, Kulbhushan Thakur, Nikita Aggarwal, Rakhi Bibban, **Arun Chhokar**, Mohit Jadli, Tejveer singh, Alok Chandra Bharti##, “Exploration of HPV specific cargo from cervical and oral cancer cells: Implications in modulation of tumor microenvironment” 13th International Symposium on "Cancer Prevention and Treatment" at School of Life Sciences, Jawaharlal Nehru University (JNU), New Delhi, India, February 20-21, 2020.
 9. Nikita Aggarwal, Joni Yadav, Anjali Bhat, Kulbhushan Thakur, **Arun Chhokar**, Tanya Tripathi, Divya Janjua, Suhail Choudhary, Tejveer singh, Alok Chandra Bharti##, Transcriptional Regulation of Human Papillomavirus in Head and Neck Squamous Cell Carcinoma Cells, International Colloquium on “Regulatory Mechanisms underlying Behaviour, Physiology and Development” 25th-26thMarch, 2021
 10. **Arun Chhokar**, Kulbhushan Thakur, Nikita Aggarwal, Joni Yadav, Tanya Tripathi, Divya Janjua, Suhail Choudhary, Tejveer singh, Alok Chandra Bharti##, Innovative screening tool for Progressive Cervical Cancer Lesions: Early Detection, Prevention and Elimination, International Colloquium on “Regulatory Mechanisms underlying Behaviour, Physiology and Development” 25th-26thMarch, 2021
 11. Kulbhushan Thakur, **Arun Chhokar**, Nikita Aggarwal, Joni Yadav, Tanya Tripathi, Divya Janjua, Suhail Choudhary, Tejveer singh, Alok Chandra Bharti##, Deciphering STAT3 regulatory mechanism(s) in HPV transcription in cervical carcinogenesis, International Colloquium on “Regulatory Mechanisms underlying Behaviour, Physiology and Development” 25th-26thMarch, 2021
 12. Joni Yadav, Anjali Bhat Kulbhushan Thakur, Nikita Aggarwal, **Arun Chhokar**, Tanya Tripathi, Divya Janjua, Suhail Choudhary, Tejveer singh, Alok Chandra Bharti##, Intracellular Communication Through Exosomal Compartment in Head and Neck Squamous Cell Carcinoma; Transfer of Transcription Factor STAT3, International Colloquium on “Regulatory Mechanisms underlying Behaviour, Physiology and Development” 25th-26thMarch, 2021.
 13. Kulbhushan Thakur, Nikita Aggarwal, **Arun Chhokar**, Joni Yadav, Divya Janjua, Tanya Tripathi, Suhail Chhokara, Apoorva Chaudhary, Anjali Bhat, & Alok Chandra Bharti##. Direct and Indirect Interaction(s) of STAT3 with HPV,

- International conference on “CANCER BIOLOGY: Advances and Challenges” November 11th to 13th, 2021.
14. Kulbhushan Thakur, **Arun Chhokar**, Nikita Aggarwal, Joni Yadav, Divya Janjua, Tanya Tripathi, Suhail Choudhary, Apporva Choudhary, Anjali Bhat, & Alok Chandra Bharti^{##}, Oncogenic Transcriptional (Dys)regulation During Human Papillomavirus Infection, International conference on “CANCER BIOLOGY: Advances and Challenges” November 11th to 13th, 2021.
 15. **Arun Chhokar** and Alok Chandra Bharti*, HPV mRNA-based diagnostic tools, AOGIN2021: Elimination of Cervical Cancer: From Research to Practice, 3rd-5th December, 2021
 16. Anna Senrunga, Tanya Tripathi, Nikita Aggarwal, **Arun Chhokar**, Joni Yadav, Kulbhushan Thakur, Divya Janjua, Suhail Chhokara, Apoorva Chaudhary, Khagendra Singh, Nidhi Goswami, Pallavi Sethi², Amar Jyoti², and Alok Chandra Bharti^{##} Assessment of Antiangiogenic Potential of Phytochemicals against Glioblastoma in an Ex-Ovo Model System, International Colloquium on “Deciphering Bioregulatory Mechanism in Health and Disease using ‘omics’ Approach” Department of Zoology, University of Delhi, 24th-25th February, 2022.
 17. Kulbhushan Thakur, Divya Janjua, **Arun Chhokar**, Joni Yadav, Nikita Aggarwal, Tanya Tripathi, Apoorva Chaudhary, Suhail Chhokara, Anna Senrunga, and Alok Chandra Bharti^{##}, Understanding the Role of STAT3 Signaling in Human Papillomavirus Induced Cervical Cancer via ‘Omics’ Approach, International Colloquium on “Deciphering Bioregulatory Mechanism in Health and Disease using ‘omics’ Approach” Department of Zoology, University of Delhi, 24th-25th February, 2022.
 18. Nikita Aggarwal, Divya Janjua, Joni Yadav, Kulbhushan Thakur, Suhail Chhokara, Tanya Tripathi, Apoorva Chaudhary, Raveesh Grewal, **Arun Chhokar**, Anna Senrunga, and Alok Chandra Bharti^{##}, Development of a Transcription Signature Based Biosensor for Prediction of HNSCC Treatment Outcome, International Colloquium on “Deciphering Bioregulatory Mechanism in Health and Disease using ‘omics’ Approach” Department of Zoology, University of Delhi, 24th-25th February, 2022.
 19. Joni Yadav, Nikita Aggarwal, Kulbhushan Thakur, **Arun Chhokar**, Apoorva Chaudhary, Tanya Tripathi, Divya Janjua, Suhail Chhokara, Anna Senrunga, and Alok Chandra Bharti^{##}, Transcriptome Analysis of Head and Neck Cancer Exosomes Using “Omics” Approach, International Colloquium on “Deciphering Bioregulatory Mechanism in Health and Disease using ‘omics’ Approach” Department of Zoology, University of Delhi, 24th-25th February, 2022.
 20. **Arun Chhokar**^{1*}, Kulbhushan Thakur¹, Tanya Tripathi¹, Divya Janjua¹, Apoorva Chaudhary¹, Joni Yadav¹, Nikita Aggarwal¹, Suhail Chhokara¹, Anna Senrunga¹, Shalini Rajaram², Bindhya Gupta², Vinita Jaggi³, and Alok Chandra Bharti^{1##}, Development of Novel STAT3 and HPV16 mRNA-based Detection Method for Early Detection of Progressive Cervical lesions, , International Colloquium on “Deciphering Bioregulatory Mechanism in Health and Disease using ‘omics’ Approach” Department of Zoology, University of Delhi, 24th-25th February, 2022.
 21. Tanya Tripathi, **Arun Chhokar**, Anna Senrunga, Nikita Aggarwal, Apoorva Chaudhary, Kulbhushan Thakur, Joni Yadav, Divya Janjua, Suhail Chhokara, and Alok Chandra Bharti^{##}, Development of Cancer Stem Cell-targeted Therapy against Cervical Cancer, , International Colloquium on “Deciphering Bioregulatory Mechanism in Health and Disease using ‘omics’ Approach” Department of Zoology, University of Delhi, 24th-25th February, 2022.

22. Divya Janjua*, Kulbhushan Thakur, **Arun Chhokar**, Nikita Aggarwal, Joni Yadav, Tanya Tripathi, Apoorva Chaudhary, Suhail Chhakara, Anna Senrunga, and Alok Chandra Bharti^{##}, Investigating the Self-seeding Capacity of Circulating Tumor Cells in Cancer of Uterine Cervix Using Single Cell 'Omics' Approach, International Colloquium on "Deciphering Bioregulatory Mechanism in Health and Disease using 'omics' Approach" Department of Zoology, University of Delhi, 24th-25th February, 2022.
23. Apoorva Chaudhary, Joni Yadav, Tanya Tripathi, Divya Janjua, Suhail Chhakara, Kulbhushan Thakur, Nikita Aggarwal, **Arun Chhokar**, Anna Senrunga, and Alok Chandra Bharti^{##}, Standardization of Exosome Isolation using in-house PEG Based Method, International Colloquium on "Deciphering Bioregulatory Mechanism in Health and Disease using 'omics' Approach" Department of Zoology, University of Delhi, 24th-25th February, 2022.
24. Suhail Chhakara, Nikita Aggarwal, Kulbhushan Thakur, Joni Yadav, **Arun Chhokar**, Tanya Tripathi, Divya Janjua, Apoorva Chaudhary, Anna Senrunga, and Alok Chandra Bharti^{##} Homeopathic Preparations with Anti-Cervical Cancer and Anti-HPV Activity, International Colloquium on "Deciphering Bioregulatory Mechanism in Health and Disease using 'omics' Approach" Department of Zoology, University of Delhi, 24th-25th February, 2022.
25. Joni Yadav, Apoorva Chaudhary, Nikita Aggarwal, Tanya Tripathi, **Arun Chhokar**, Divya Janjua, Udit Joshi, Kulbhushan Thakur, Anna Senrunga, Nupur Sharma, Jaswinder Singh Maras and Alok Chandra Bharti, Comparative Proteomics Analysis of HPV-Positive vs. HPV-Negative Head and Neck Cancer Exosomes, "5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases" Department of Zoology, University of Delhi, 7th-9th October, 2022.
26. Tanya Tripathi, **Arun Chhokar**, Nikita Aggarwal, Anna Senrunga, Joni Yadav, Apoorva Chaudhary, Kulbhushan Thakur, Divya Janjua, Udit Joshi, and Alok Chandra Bharti, Phytochemicals with Cancer Stem Cell Targeting Potential against Cervical Cancer, "5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases" Department of Zoology, University of Delhi, 7th-9th October, 2022.
27. Anna Senrunga, Tanya Tripathi, Nikita Aggarwal, Divya Janjua, **Arun Chhokar**, Joni Yadav, Apoorva Chaudhary, Kulbhushan Thakur, Udit Joshi and Alok Chandra Bharti*, Anti-angiogenic Potential of Trans-Chalcone in vivo: ATP Antagonist to VEGFR with predicted blood-brain barrier permeability, "5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases" Department of Zoology, University of Delhi, 7th-9th October, 2022.
28. Kulbhushan Thakur, Divya Janjua, **Arun Chhokar**, Nikita Aggarwal, Joni Yadav, Tanya Tripathi, Apoorva Chaudhary, Anna Senrunga, and Alok Chandra Bharti^{##}, Dissecting the Direct/ Indirect Interactions of STAT3 with Human Papillomaviruses and its Implications in HPV Transcriptional Control in Cervical Carcinogenesis, "5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases" Department of Zoology, University of Delhi, 7th-9th October, 2022.
29. Divya Janjua, Kulbhushan Thakur, Nikita Aggarwal, **Arun Chhokar**, Joni Yadav, Tanya Tripathi, Apoorva Chaudhary, Udit Joshi, Anna Senrunga, and Alok Chandra Bharti^{##}, Investigating the role of microRNA regulators targeting JAK/STAT signaling in HPV-induced Cervical carcinogenesis, "5th International Conference

on Nutraceuticals and Chronic Diseases (INCD-2022) on Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases” Department of Zoology, University of Delhi, 7th-9th October, 2022.

30. Apoorva Chaudhary, Joni Yadav, Tanya Tripathi, Divya Janjua, Kulbhushan Thakur, Nikita Aggarwal, **Arun Chhokar**, Udit Joshi, Anna Senrunga, and Alok Chandra Bharti^{###}, Comparative analysis of different exosome isolation protocols, “5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases” Department of Zoology, University of Delhi, 7th-9th October, 2022.
31. Nikita Aggarwal, Kulbhushan Thakur, Tanya Tripathi, Divya Janjua, Joni Yadav, Apoorva Chaudhary, **Arun Chhokar**, Udit Joshi, Anna Senrunga & Alok Chandra Bharti^{###}, Prediction of Treatment Outcome in HNSCC by a Transcription Signature-based Biosensor, “5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases” Department of Zoology, University of Delhi, 7th-9th October, 2022.
32. **Arun Chhokar**, Udit Joshi, Kulbhushan Thakur, Tanya Tripathi, Divya Janjua, Apoorva Chaudhary, Joni Yadav, Nikita Aggarwal, Anna Senrunga, Shalini Rajaram, Bindiya Gupta, Vinita Jaggi, Alok Chandra Bharti^{###}, Setting up an In situ-Hybridisation based Assay for Co-detection of Active HPV Infection and STAT3 Expression in Cervical Cancer Cell, “5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases” Department of Zoology, University of Delhi, 7th-9th October, 2022.

Research Projects (Major Grants/Research Collaboration)

NA

Awards and Distinctions

2017 June & December **CSIR NET-JRF Qualified**
2nd Rank Ph.D. University of Delhi Entrance Test (DUET2018)

Association With Professional Bodies

NA

Other Activities

Reviewer

a. Journals

1. Phytomedicine (IF-6.6)
2. BioMed Research International (IF-3.2)
3. Disease Markers (IF-3.4)
4. Frontiers in Oncology (IF-6.2)
5. Oxidative Medicine and Cellular Longevity (IF-7.3)
6. Frontiers in Molecular Neuroscience (IF-6.2)
7. Frontiers in Cell and Developmental Biology (IF-6.1)

(Arun Chhokar)

Signature of Faculty Member

You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.