



**DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI – 110019**



Title	Dr.	First Name	Arun	Last Name	Chhokar	Photograph
Designation	Assistant Professor					
Address	Department of Zoology, Deshbandhu College, Kalkaji, University of Delhi, Delhi-110019					
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					2024
Career Profile						
2022 onwards	Assistant Professor, Department of Zoology, Deshbandu College, DU					
2018- 2022	CSIR-JRF/SRFship at University of Delhi, Delhi, INDIA.					
Administrative Assignments						
2026-2029	Member Secretary:	Institute Biosafety Committee (Approved by DBT), Deshbandhu College				
2025 -	Member	ERP Committee, Deshbandhu College.				
2025 -	Member	Student Grievances Committee, Deshbandhu College.				
2025 -	Member	Anti-Ragging Committee, Deshbandhu College.				
2024 -	Member	Alumni Association Committee, Deshbandhu College.				
2024 -	Member	NSS Unit, Deshbandhu College.				
2024 -	Nodal Officer	Special Campaign to institutionalize Swachhata and minimize pendency, Deshbandhu College.				
2024 -	Co-Convenor	YUVA, Deshbandhu College.				
2023 -	Member	Indian Knowledge System Committee, Deshbandhu College.				
2023-2025	Member	Har Ghar Dhyam Committee, Deshbandhu College.				
2023 -	Member	Proctorial Committee, Deshbandhu College.				
2023	Member	Extended College Student Union Election Committee, Deshbandhu College.				
Areas of Interest / Specialization						
Molecular Oncology						

Molecular Diagnostics, Host-Virus Interactions
Subjects Taught
Non-Chordates Lifestyle Disorders Principles of Genetics Human Physiology Reproductive Biology Science and Society
Research Guidance
Project Dissertations (B.Sc. 4th Year) 1. Kunal Goyal (2025-26) 2. Mitashi Yadav (2025-26) 3. Sarthak Dash (2025-26) 4. Alina Pervez (2025-26)
Publications Profile
Publications – Full length articles -23 ; Book Chapters– 4;
1) Chhokar A, Joshi U, Keshavam CC, Gupta B, Mudassir M, Janjua D, Chaudhary A, Tripathi T, Yadav J, Aggarwal N, Jaggi VK, Bharti AC (2026). Development of a novel multi-locus Flow-FISH based assay for detection of progressive cervical precancer lesions. <u>BMC Cancer</u>. 2026 Feb 9. doi: 10.1186/s12885-026-15664-5. PMID: 41664071. 2) Chhokar A, Joshi U, Tripathi T, Gupta B, Mudassir M, Janjua D, Chaudhary A, Yadav J, Aggarwal N, Jaggi VK, Bharti AC (2026). Quantitative assessment of STAT3 and HPV16 E6 transcripts using Flow-FISH approach for early detection of progressive cervical lesions. <u>World J Exp Med</u>. 2026 Jun 20;16(2):118250. doi: 10.5493/wjem.v16.i2.118250. PMID: 42394774; PMCID: PMC13323911. 3) Yadav J, Tripathi T, Tanwar N, Sharma N, Chaudhary A, Janjua D, Joshi U, Aggarwal N, Chhokar A, Senrunga A, Maras JS, Bharti AC (2026). Proteomic Profiling of Exosomes from HPV-Positive and HPV-Negative Head and Neck Squamous Cell Carcinoma: Selective Cargo Packaging. <u>J Proteome Res</u>. 2026 Jun 29. doi: 10.1021/acs.jproteome.5c01265. Epub ahead of print. PMID: 42372200. 4) Yadav J, Tripathi T, Chaudhary A, Janjua D, Joshi U, Aggarwal N, Chhokar A, Keshavam CC, Senrunga A, Bharti AC (2025). Influence of head and neck cancer exosomes on macrophage polarization. <u>Cytokine</u>. 2025 Feb;186:156831. doi: 10.1016/j.cyto.2024.156831. Epub 2024 Dec 18. PMID: 39700664. 5) Aggarwal N, Janjua D, Chaudhary A, Joshi U, Tripathi T, Keshavam CC, Yadav J, Chhokar A, Bharti AC (2025), Insights into the Expression and Localization of HPV16 LCR Associated Transcription Factors and their Association with LCR Activity in Head and Neck Squamous Cell Carcinoma, <u>Molecular Therapy: Oncology</u>, Volume 33, Issue 1, 2025, 200926, ISSN 2950-3299, doi.org/10.1016/j.omton.2024.200926. 6) Yadav J, Chaudhary A, Tripathi T, Janjua D, Joshi U, Aggarwal N, Chhokar A, Keshavam CC, Senrunga A, Bharti AC (2024). Exosomal transcript cargo and functional correlation with HNSCC patients' survival. <u>BMC Cancer</u>. 2024 Sep 13;24(1):1144. doi: 10.1186/s12885-024-12759-9. PMID: 39272022; PMCID: PMC11395213.

- 7) Janjua D, Thakur K, Aggarwal N, Chaudhary A, Yadav J, **Chhokar A**, Tripathi T, Joshi U, Senrung A, Bharti AC (2024). Prognostic and therapeutic potential of STAT3: Opportunities and challenges in targeting HPV-mediated cervical carcinogenesis. Crit Rev Oncol Hematol. 2024 May;197:104346. doi: 10.1016/j.critrevonc.2024.104346. Epub 2024 Apr 10. PMID: 38608913.
- 8) Tripathi, T., Yadav, J., Janjua, D., Chaudhary, A., Joshi, U., Senrung, A., **Chhokar, A.**, Aggarwal, N. and Bharti, A. C. (2023). Targeting Cervical Cancer Stem Cells by Phytochemicals. Current Medicinal Chemistry. doi: 10.2174/0109298673281823231222065616. Epub ahead of print. PMID: 38288813
- 9) Senrung, A., Lalwani, S., Janjua, D., Tripathi, T., Kaur, J., Ghuratia, N., Aggarwal, N., **Chhokar, A.**, Yadav, J., Chaudhary, A., Joshi, U. and Bharti, A. C. (2023). 3D tumor spheroids: morphological alterations a yardstick to anti-cancer drug response. In vitro models. In vitro models. 219–248. doi.org/10.1007/s44164-023-00059-8.
- 10) Senrung, A., Tripathi, T., Aggarwal, N., Janjua, D., **Chhokar, A.**, Yadav, J., Chaudhary, A., Thakur, K., Singh, T. and Bharti, A. C. (2023). Anti-angiogenic Potential of Trans-chalcone in an In Vivo Chick Chorioallantoic Membrane Model: An ATP Antagonist to VEGFR with Predicted Blood-brain Barrier Permeability. Cardiovasc Hematol Agents Med Chem. doi: 10.2174/0118715257250417231019102501. Epub ahead of print. PMID: 37936455.
- 11) Senrung, A., Tripathi, T., Aggarwal, N., Janjua, D., Yadav, J., Chaudhary, A., **Chhokar, A.**, Joshi, U. and Bharti, A. C. (2023). Phytochemicals Showing Antiangiogenic Effect in Pre-clinical Models and their Potential as an Alternative to Existing Therapeutics. Curr Top Med Chem. doi: 10.2174/0115680266264349231016094456. Epub ahead of print. PMID: 37867279.
- 12) Senrung, A., Tripathi, T., Janjua, D., Yadav, S. K., **Chhokar, A.**, Aggarwal, N., Yadav, J., Chaudhary, A., Joshi, U., Sethi, P. and Bharti, A. C. (2023). Chick chorioallantoic membrane: A valuable 3D in vivo model for screening nanoformulations for tumor antiangiogenic therapeutics. International Journal of Developmental Biology. doi: 10.1387/ijdb.230198pb. PMID: 38334179.
- 13) Senrung, A., Tripathi, T., Yadav, J., Janjua, D., Chaudhary, A., **Chhokar, A.**, Aggarwal, N., Joshi, U., Goswami, N. and Bharti, A. C. (2023). In vivo antiangiogenic effect of nimbolide, trans-chalcone and piperine for use against glioblastoma. BMC Cancer 23(1): 1173. doi: 10.1186/s12885-023-11625-4. PMID: 38036978.
- 14) Thakur, K., Janjua, D., Aggarwal, N., **Chhokar, A.**, Yadav, J., Tripathi, T., Chaudhary, A., Senrung, A., Shrivastav, A. and Bharti, A. C. (2023). Physical interaction between STAT3 and AP1 in cervical carcinogenesis: Implications in HPV transcription control. Biochim Biophys Acta Mol Basis Dis 1869(8): 166817. doi: 10.1016/j.bbadis.2023.166817. Epub 2023 Jul 31. PMID: 37532113.
- 15) 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. and Bharti, A. C. (2023). Evaluation of Therapeutic Potential of Selected Plant-Derived Homeopathic Medicines for their Action against Cervical Cancer. Homeopathy 112(4): 262-274. doi: 10.1055/s-0042-1756436. Epub 2023 Mar 1. PMID: 36858077.
- 16) Thakur, K., Janjua, D., Shishodia, G., **Chhokar, A.**, Aggarwal, N., Yadav, J., Tripathi, T., Chaudhary, A., Senrung, A. and Bharti, A. C. (2022). Investigation of molecular mechanisms underlying JAK/STAT signaling pathway in HPV-induced cervical

carcinogenesis using 'omics' approach. Med Oncol 39(12): 255. doi: 10.1007/s12032-022-01854-1. PMID: 36224441.

- 17) Bhat, A., Yadav, J., Thakur, K., Aggarwal, N., **Chhokar, A.**, Tripathi, T., Singh, T., Jadli, M., Veerapandian, V. and Bharti, A. C. (2022). Transcriptome analysis of cervical cancer exosomes and detection of HPVE6*I transcripts in exosomal RNA. BMC Cancer 22(1): 164. doi: 10.1186/s12885-022-09262-4. PMID: 35148692.
- 18) Singh, T., **Chhokar, A.**, Thakur, K., Aggarwal, N., Pragya, P., Yadav, J., Tripathi, T., Jadli, M., Bhat, A., Gupta, P., Khurana, A. and Chandra Bharti, A. (2021). Targeting Aberrant Expression of STAT3 and AP-1 Oncogenic Transcription Factors and HPV Oncoproteins in Cervical Cancer by Berberis aquifolium. Front Pharmacol 12: 757414. doi: 10.3389/fphar.2021.757414. PMID: 34776976.
- 19) Aggarwal, N., Yadav, J., Chhakara, S., Janjua, D., Tripathi, T., Chaudhary, A., **Chhokar, A.**, Thakur, K., Singh, T. and Bharti, A. C. (2021). Phytochemicals as Potential Chemopreventive and Chemotherapeutic Agents for Emerging Human Papillomavirus-Driven Head and Neck Cancer: Current Evidence and Future Prospects. Front Pharmacol 12: 699044. doi: 10.3389/fphar.2021.699044. PMID: 34354591.
- 20) Tripathi, A., Kashyap, A., Tripathi, G., Yadav, J., Bibban, R., Aggarwal, N., Thakur, K., **Chhokar, A.**, Jadli, M., Sah, A. K., Verma, Y., Zayed, H., Husain, A., Bharti, A. C. and Kashyap, M. K. (2021). Tumor reversion: a dream or a reality. Biomark Res 9(1): 31. doi: 10.1186/s40364-021-00280-1. PMID: 33958005.
- 21) Bhat, A., Yadav, J., Thakur, K., Aggarwal, N., Tripathi, T., **Chhokar, A.**, Singh, T., Jadli, M. and Bharti, A. C. (2021). Exosomes from cervical cancer cells facilitate pro-angiogenic endothelial reconditioning through transfer of Hedgehog-Gli signaling components. Cancer Cell Int 21(1): 319. doi: 10.1186/s12935-021-02026-3. PMID: 34167524.
- 22) Aggarwal, N., Yadav, J., Thakur, K., Bibban, R., **Chhokar, A.**, Tripathi, T., Bhat, A., Singh, T., Jadli, M., Singh, U., Kashyap, M. K. and Bharti, A. C. (2020). Human Papillomavirus Infection in Head and Neck Squamous Cell Carcinomas: Transcriptional Triggers and Changed Disease Patterns. Front Cell Infect Microbiol 10: 537650. doi: 10.3389/fcimb.2020.537650. PMID: 33344262.
- 23) Jadli, M., Thakur, K., Aggarwal, N., **Chhokar, A.**, Bibban, R., Singh, T., Bhat, A. and Bharti, A. C. (2020). Delineating role of NF-kappaB and interacting cytokines during prostate cancer-induced osteoclastogenesis. J Cell Biochem 122(2): 259-276. doi: 10.1002/jcb.29856. Epub 2020 Oct 14. PMID: 33053226.

Other Publications/ Book Chapters (4)

- 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) Janjua, D., Chaudhary, A., Aggarwal, N., **Chhokar, A.**, Yadav, J., Tripathi, T., Joshi, U. and Bharti, A. C. (2023). Circulating Tumor Cells: A New Avenue for Clinical Management of Cervical Cancer. B P International: 99.
- 3) Kashyap, M. K., Bhat, A., Janjua, D., Rao, R., Thakur, K., **Chhokar, A.**, Aggarwal, N., Yadav, J., Tripathi, T., Chaudhary, A., Senrunga, A. and Bharti, A. C. (2023). Role of angiotensin in different malignancies. Elsevier: 505-544.
- 4) Bharti, A. C. and **Chhokar, A.** (2019). "Need for a better cervical cancer screening tool for 'elimination' of cervical cancer." ISSRF Newsletter 24.

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).
- 3) International Webinar on "Integrating Developmental Biology and Ecology - A New Frontier" organised by Department of Zoology, Deshbandhu College, University of Delhi.
- 4) International Webinar on "Ecology and Evolution of Bacterial Interactions" organised by Deshbandhu College, University of Delhi, New Delhi, India on 17th April, 2023. (Co-convenor).
- 5) National Symposium on “POTENTIAL OF START-UPS START-UP AWARENESS” held on September 12-13, 2023 at Deshbandhu College, University of Delhi (Member of Organizing Team).
- 6) Introductory Session “Cool Down Mind Metters” by Har Ghar Dhyan Committee on September 26, 2023 at Deshbandhu College, University of Delhi (Member of Organizing Team).
- 7) Symposia on “Alcohol abuse harms: tissue, health, family, and society” organized by Department of Zoology in association with Health & Well-being Club on December 4-5, 2023 at Deshbandhu College, University of Delhi (Co-convenor).
- 8) International Symposium on “Advances in Health Science” organized by Department of Zoology held on 12th February 2024, (Convener).
- 9) Organise an orientation session for faculty members on “I-POD: INNER PEACE - OUTER DYNAMISM” organized by Deshbandhu College IQAC, Har Ghar Dhyan Initiative and Teaching Learning Centre PMMMNMTT Ramanujan College In association with The Art of Living Foundation (Member of Organizing Team).
- 10) FDP on the topic “Understanding the Power of Breath” Under the aegis of IQAC, ViksitBharat@2047, Har Ghar Dhyan, Initiative and Teaching Learning Centre (Under PMMMNMTT Scheme of Ministry of Education), Ramanujan College, in association with The Art of Living Foundation held on February 12th - 17th, 2024 at Deshbandhu College, University of Delhi (Member of Organizing Team).
- 11) National Seminar on “Science Behind Yoga in Daily Life: Integrating Mind, Body & Soul” in association with Indian Knowledge System, held on March 21-22, 2024 at Deshbandhu College, University of Delhi (Coordinator).
- 12) Organised International Seminar on “Exploring the Interplay of Senescence, Natural Compounds, and Environmental Factors on Cancer” by Deshbandhu college, University of Delhi on 8th July 2024 (Coordinator).
- 13) Organised “Entrepreneurship Awareness Program” at Deshbandhu College, University of Delhi on 4th Sep 2024 (Member of Organizing Team).
- 14) National Conference on “Ashwagandha – A Health Promoter” organized by Deshbandhu college, University of Delhi 4-5th March 2025 (Organizing team member).
- 15) Capacity building and Hands on workshop” organized by Deshbandhu College 14-19th July 2025. (Resource Person and organizing member)

- 16) Capacity building and Hands on workshop “Environmental Biotechnology and Toxicology” organized by Deshbandhu College 11th April 2026. (Resource Person and Co-Convener)
- 17) National Conference on “Shatavari and Human Health” organized by Deshbandhu college, University of Delhi 9-10th Feb 2025 (Organizing team member).

Conferences, Symposia and Workshops Attended

- 1) Workshop and Hands-on Experience in “Advance Spectroscopy & Dynamic Light Scattering” 9th October 2018.
- 2) Computational Biology Workshop for (Meta) Genomics Analysis for Beginners, February 19, 2020.
- 3) Workshop on “Getting Started with Single Cell Genomics” by 10X Genomics, March 6, 2020.
- 4) Virtual 22nd Indo-US Flow Cytometry Workshop on “Flow Cytometry and its Applications in Biological Research and Clinical Diagnostics” Online, 22nd-28th Feb 2021
- 5) International Colloquium on “Regulatory Mechanisms underlying Behaviour, Physiology and Development” 25th-26th March, 2021.
- 6) International Colloquium on “Deciphering Bioregulatory Mechanism in Health and Disease using ‘omics’ Approach” Department of Zoology, University of Delhi, 24th-25th February, 2022.
- 7) 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.
- 8) National Symposium on “POTENTIAL OF START-UPS START-UP AWARENESS” organized by Deshbandhu college, University of Delhi on 12-13th Sep 2023
- 9) AOGIN-2023, “Vanquishing Lower Genital Cancer: From Prevention to Treatment” from 16th-17th September, 2023, held at AIIMS Rishikesh.
- 10) Participated in inaugural ceremony of FIP on NEP 2020: Pedagogical Imperatives of Higher Education organized by University of Delhi on 1st Dec 2023.
- 11) Participated in Microscopy Workshop organized by USIC and Department of Zoology, University of Delhi on 22nd Jan 2024.
- 12) National Webinar entitled “Is Air Pollution Responsible for Increasing Rate of Lung Cancer?” organized by UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC/GAD-MMTTC), SGTB Khalsa College, University of Delhi in collaboration with Indian Cancer Society, Delhi held on 02 March 2024.
- 13) FDP – NEP 2020 Orientation and Sensitization Programme organised by CPDHE in collaboration with Deshbandhu College from 17-26th June 2025
- 14) Participated in Schrödinger’s Life Science Online Workshop organized by DUCC, University of Delhi from September 2-3, 2025.
- 15) Participated in GURU-DAKSHTA Faculty Induction Programme (FIP) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by “MM -TTC : Ramanujan College, Delhi” In collaboration with Motilal Nehru College, University Of Delhi from 17th February – 18th March, 2026 and obtained Grade A+.

Student related co-curricular, extension and field based activities such as student clubs, career counselling, study visits, student seminars and other events, cultural, sports, NCC, NSS and community services.

1. Visit to Delhi Zoological Park organized by Department of Zoology, Deshbandhu college, University of Delhi for B.Sc. Lifescience 1st sem students as per their practical academic curriculum 1st Feb 2023.
2. Visit at National Institute of Immunology organized by Department of Zoology, Deshbandhu college, University of Delhi under the aegis of IQAC and DBT Star College Science setu program, 28th Feb 2023.
3. Organizing Member Chimaera, Annual fest Department of Zoology, Deshbandhu college 19th April 2023.
4. Visit to Delhi State Cancer Institute, Dilshad Garden, Delhi, organized by Department of Zoology, in line with the establishment of the New Education Policy (NEP) 31st May 2023.
5. Jury Member for the event Nature Photography competition organized under aegis of MERI MATA MERA DESH organized by Deshbandhu College, University of Delhi on 22nd Aug 2023.
6. Jury Member in Life Sciences Society Annual Festival Synergia, Deshbandhu College 8th April 2024.
7. Basic Life Support Training Programme organized by Deshbandhu college, University of Delhi on 6th Sep 2024.
8. Educational Visit at National Institute of Immunology organized by Department of Zoology, Deshbandhu college 14th Nov 2024.
9. Judge for Sci-Poster: Poster Making Competition at Biospark 2024 Department of Biochemistry, Deshbandhu college, University of Delhi on 24th Sep 2024.
10. Organizing Member Chimaera, Annual fest Department of Zoology, Deshbandhu college 20 Feb 2025.
11. Teacher Coordinator BASF Kids' Lab Program at IIT Delhi and Deshbandhu College on 20th Jan 2025.
12. Organizing Member in UBA Society festival UNNATI 2025 at Deshbandhu College, on 15th April 2025.
13. Departmental Visit to Agra for procurement of permanent slides of specimens organized by Department of Zoology, Deshbandhu college 29th Oct 2025.

Number of Papers presented in conferences/Proceedings (Total -35)

- 1) Kunal Goyal*, Mitashi Yadav, Sarthak Das, Alaina Pervez, Kapil Dangi, & Arun Chhokar[#], Chemical vs. Biological Synthesis of AgNPs: Comparative Characterization Study, National Conference on "Shatavari and Human Health" organized by Deshbandhu college, University of Delhi 9-10th Feb 2025.
- 2) 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.
- 3) 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.

- 4) 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.
- 5) 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 osteoporesis" International conference on nutraceuticals and chronic diseases(INCD), IIT Guwahati, September 23-25, 2019.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) 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.
- 10) 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
- 11) **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
- 12) 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
- 13) 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-26th March, 2021.

- 14) Kulbhushan Thakur, Nikita Aggarwal, **Arun Chhokar**, Joni Yadav, Divya Janjua, Tanya Tripathi, Suhail Chhakara, 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.
- 15) 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.
- 16) **Arun Chhokar** and Alok Chandra Bharti*, HPV mRNA-based diagnostic tools, AOGIN2021: Elimination of Cervical Cancer: From Research to Practice, 3rd-5th December, 2021
- 17) Anna Senrunga, Tanya Tripathi, Nikita Aggarwal, **Arun Chhokar**, Joni Yadav, Kulbhushan Thakur, Divya Janjua, Suhail Chhakara, 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.
- 18) Kulbhushan Thakur, Divya Janjua, **Arun Chhokar**, Joni Yadav, Nikita Aggarwal, Tanya Tripathi, Apoorva Chaudhary, Suhail Chhakara, 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.
- 19) Nikita Aggarwal, Divya Janjua, Joni Yadav, Kulbhushan Thakur, Suhail Chhakara, 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.
- 20) Joni Yadav, Nikita Aggarwal, Kulbhushan Thakur, **Arun Chhokar**, Apoorva Chaudhary, Tanya Tripathi, Divya Janjua, Suhail Chhakara, 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.
- 21) **Arun Chhokar**^{1*}, Kulbhushan Thakur¹, Tanya Tripathi¹, Divya Janjua¹, Apoorva Chaudhary¹, Joni Yadav¹, Nikita Aggarwal¹, Suhail Chhakara¹, Anna Senrunga¹, Shalini Rajaram², Bindiya Gupta², Vinita Jaggi³, and Alok Chandra Bharti¹, 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.
- 22) Tanya Tripathi, **Arun Chhokar**, Anna Senrunga, Nikita Aggarwal, Apoorva Chaudhary, Kulbhushan Thakur, Joni Yadav, Divya Janjua, Suhail Chhakara, 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.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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.
- 27) 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.
- 28) 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.
- 29) 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.
- 30) 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. 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. 33) Tanya Tripathi, Apoorva Chaudhary, Udit Joshi, Divya Janjua, Nikita Aggarwal, Joni Yadav, Arun Chhokar, Chetkar Chandra Keshavam and Alok Chandra Bharti . Psoralidin as Potential anti-Cervical Cancer Therapeutic that Targets the Regulators of Cancer Stemness. 6th International Conference on Nutraceuticals and Chronic Diseases (INCD-2024) Department of Biochemistry, Panjab University, 22-24th February, 2024. 34) Apoorva Chaudhary, Tanya Tripathi, Divya Janjua, Udit Joshi, Arun Chhokar, Joni Yadav, Nikita Aggarwal, Chetkar Chandra Keshavam and Alok Chandra Bharti . Anti-telomerase activity of phytochemicals in HPV-associated malignancies. 6th International Conference on Nutraceuticals and Chronic Diseases (INCD-2024) Department of Biochemistry, Panjab University, 22-24th February, 2024. 35) Tanya Tripathi, Apoorva Chaudhary, Udit Joshi, Divya Janjua, Joni Yadav, Arun Chhokar, Nikita Aggarwal, Chetkar Chandra Keshavam and Alok Chandra Bharti . Identification of phytochemicals targeting Cervical Cancer Stem Cells. 8th World Cancer Congress. 18-20th March, 2024. 36) Apoorva Chaudhary, Divya Janjua, Tanya Tripathi, Udit Joshi, Joni Yadav, Arun Chhokar, Nikita Aggarwal, Karanpreet Nahar, Satvinder Singh, Roja Varanasi, Debadatta Nayak, Sunil S Ramteke, Subhash Kaushik and Alok Chandra Bharti, Alteration in telomere length and its association with diabetes and carcinogenic infection of Human Papillomavirus, 8th World Cancer Congress, 18-20th March, 2024.	
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