



Faculty Details proforma for DU Web-site

Title	Prof.	First Name	Alok Chandra	Last Name	Bharti	Photograph
Designation	Professor					
Address	Molecular Oncology Laboratory, Department of Zoology, University of Delhi, Delhi.110007					
Phone No Office	--					
Residence	--					
Mobile	-					
Email	bhartiacc2011@gmail.com , acbharti@zoology.du.ac.in					
Web-Page						
Educational Qualifications						
Degree	Institution				Year	
B.Sc. (Hons.) Zoology	University of Delhi, New Delhi, INDIA				1994	
M.Sc. Zoology	University of Delhi, New Delhi, INDIA				1996	
Ph.D. (Biotechnology)	Banaras Hindu University, Varanasi, INDIA				1999	
Postdoctoral Fellowship	MD Anderson Cancer Center, Houston (TX), USA				2001-2003	
Career Profile						
2016 onwards	Professor, Department of Zoology, University of Delhi, Delhi					
2012-2015	Scientist E and Head, Division of Molecular Oncology, Institute of Cytology and Preventive Oncology (ICMR), Noida, India.					
2008-2012	Scientist D and Head, Division of Molecular Oncology, Institute of Cytology and Preventive Oncology (ICMR), Noida, India.					
2004-2008	Scientist C, Institute of Cytology and Preventive Oncology (ICMR), Noida, India.					
2003-2004	Senior Research Officer, All India Institute of Medical Sciences, New Delhi, India					
2001-2003	Post-Doctoral Fellow at MD Anderson Cancer Center, Houston, Texas, USA					
2001	Project Associate, National Institute of Immunology, New Delhi, India					
2000	Senior Research Fellow (extended), Center for Biochemical Technology (IGIB), New Delhi, India					
1996-1999	CSIR-JRF/SRFship at Banaras Hindu University, Varanasi, India.					

Administrative Assignments

1. Served as Member of the Institutional Technical Committee from Dec 2004-August 2013 and April 2014- Dec 2015.
2. Served as Member of the Institutional Purchase Committee from Dec 2004-Dec 2015.
3. Served as Member of the Institutional Non-Smoking Policy Committee from 2004.
4. Served as Representative of ICPO to the Council's Technical Committee from 2005-2008.
5. Compilation, editing and formatting of ICPO's Annual Report of year 2003-2005.
6. Compilation of Institute's 11th Five Year plan document for the year 2007-2012
7. Appointed as Central Public Information Officer in Basic Sciences of the Institute Since July 2006.
8. In-charge, Audio-visual Facility of ICPO from Dec 2004-August 2013.
9. Served as a Drawing and Disbursing Officer for ICPO from Dec 2010-August 2012.
10. Served as Chairman, Institutional Condemnation Committee from April 2014-Dec2015.
11. Served as Nodal Officer for Legal Matters of the institute from May 2015-Dec 2015.
12. Serving as member of Contingency & Stationary committee, Museum Committee & Physical Stock Verification & Disposal Committee from June 2016 onwards.
13. Served as Observer for Delhi University Entrance Test 2017 and 2018.
14. Serving as Department's Nodal Officer for Admissions 2019, 2020.
15. Member, Committee of Courses for Under Graduate and Honours in Zoology (2019-2021)

Areas of Interest / Specialization

Molecular Oncology and Biochemistry, Transcriptional Regulation, Cancer Stem Cell Biology, Host-Virus Interactions, Tumor Immunology, Molecular Diagnostics.

Subjects Taught

Genomics, Structure and Function of Gene, Principles of Gene Manipulation, Immunology, Developmental Biology, Computation Biology and Biostatistics

Time table of the subjects taught during the current semester

S.No.	Subject	Days	Time (hr)	Classroom
1	Principles of Gene Manipulations	Thu (T)	14.00-15.00	Room # 19
		Fri (T)	11.30-12.30	Room # 19
		Mon-Thu (P)	9.30-12.30	New Lab
2	Developmental Biology	Fri (T)	9.30-10.30	Room # 19
		Mon-Wed (P)	13.00-17.00	
3	Computation Biology & Biostatistics	Friday (T)	9.30-10.30	New Lecture Theater
		Mon-Wed	14.00-17.00	Physio lab
4.	Genomics	Mon (T)	9.30-10.25	New Lecture Theater

Tues, Thu (T)	10.30-11.25	Cell Biology Laboratory
Thu	13.00-16.55	

Research Guidance

Academic Contribution:

1. **Ph.D. Guided – 11 Awarded; 7 under progress.**
2. M.Phil. Thesis Registered/ongoing (02)
3. MD research- 3 awarded; (1 ongoing)
4. MDS research- 1 awarded.
5. UGC-DS Kothari PDF guided – 2
6. ICMR-PDF guided – 2 (completed);
7. ICMR-RA guided – 1;
8. CSIR-Pool Officer guided – 1;
9. DST Women Scientists guided – 2;
10. SERB-TARE fellow – 1 (ongoing)
11. Pre-doctoral research (ICMR/UGC-SRF/JRF) guided -8 (2 ongoing).
12. Member of the Ph.D. Doctoral Committee (AIIMS) – (2 awarded, 2 ongoing)
13. M.Sc./M. Tech./M.Pharm. Project Dissertations (1 Year) - 10
14. M.Sc. dissertations (6 months)- 30.
15. Indian Academy of Science Summer Research Fellows – 26.
16. Summer Trainees guided – 30.

Details of Ph.D Thesis Co-supervised and Awarded (11):

1. **Shirish Shukla**, “Role of STAT-3 transcription factor in cervical cancer carcinogenesis”, Jamia Millia Islamia, New Delhi. (2010) : **Current Placement-** *Serving as senior post-doctoral fellow at Cierpick’s Laboratory at Department of Pathology, University of Michigan Health Systems, USA*
2. **Showket Hussain**, “Cellular and viral gene interaction and their regulation during development of Esophageal cancer”. Jamia Millia Islamia, New Delhi. (2009). **Current Placement-** *Serving as Scientist D, Division of Molecular Oncology, ICPO, NOIDA*
3. **Sachin Kumar**, “Clinical Implications of Circulating DNA and Protein Markers in Lung Cancer”, All India Institute of Medical Sciences (AIIMS), New Delhi. (2010) : **Current Placement-** *Serving as Research Scientist at IRCH, All India Institute of Medical Sciences, New Delhi*
4. **Shabeena Rehman**, “Prevalence and Molecular Characterization of *Helicobacter pylori* genotypes in patients with duodenal ulcers and gastric carcinoma”. Jamia Millia Islamia, New Delhi. (2010) **Current Placement-** *Serving as senior post-doctoral fellow, Division of Cardiology, Department of Internal Medicine, Viginia Commonwealth University, Richmond Virginia, USA*
5. **Abhishek Tyagi**, “ Identification and characterization of cervical cancer stem cells” Ambedkar Centre for Biomedical Research, Delhi University, Delhi (2013). **Current Placement-** *Serving as post-doctoral Fellow at Dept. of Cancer Biolog,Wake Forest School of Medicine, USA*
6. **Gauri Shishodia**, “Role of microRNA in cervical carcinogenesis” Ambedkar Centre for Biomedical Research, Delhi University, Delhi (2013) **Current Placement-** *Serving as post-doctoral fellow, University of Louisiana, USA.*
7. **Arvind Pandey**, “Role of survivin in gastric carcinogenesis” University of Allahabad,

Allahabad (2013). **Current Placement-** *Serving as post-doctoral fellow, at Methodist Hospital, Houston, USA*

8. **Shantanu Kumar Lele**, “Development of intelligent nano-particles-based drug delivery systems” Indian Institute of Technology, New Delhi (May 2015) **Current Placement-** *Serving as Formulation Scientist at Biolytical Laboratories Inc., Richmond, British Columbia, Canada*
9. **Shilpi Gupta**, “Regulatory Role of Transcription Factors AP-1 and NF- κ B in HPV Mediated Oral-Tongue Carcinoma”, University of Delhi, Delhi (June 2015) **Current Placement-** *Serving as National Post-Doctoral Fellow at AIMMSCR, Amity University, Noida*
10. **Gaurav Verma**, “Investigation of molecular signature of oral cancer” Banaras Hindu University, Varanasi (2016). **Current Placement-** *Serving as National Post-Doctoral Fellow at NICPR (ICMR), Noida*
11. **Kanchan Vishnoi**, “Investigation of viral appropriation of cancer stem cell signaling in HPV induced cervical carcinogenesis” Banaras Hindu University, Varanasi (2016). **Current Placement-** *Serving as Post Doctoral Research Associate, Department of Surgery, College of Medicine, University of Illinois, Chicago, Illinois, USA*

Ph.D Thesis Registered (07):

1. **Mohit Jadli**, “Understanding the Role of Inducible Regulator of Pathological Osteoclastogenesis by Metastatic Prostate Cancer” University of Delhi, Delhi (2016)
2. **Tejveer Singh**, “Development of Anti-HPV Therapeutics” University of Delhi, Delhi (2016)
3. **Anjali Bhat**, “Investigation Of The Role Of Exosomes In Cervical Cancer Angiogenesis And Endothelial Cell Conditioning.” University of Delhi, Delhi (2016),
4. **Kulbhushan Thakur**, (2017) “Role of STAT3 in cervical carcinogenesis”
5. **Nikita Aggarwal** (2018) “Transcriptional regulation in head and neck cancer”
6. **Arun Chhokar** (2018) “Study of cancer stem cells”
7. **Rakhi** (2018) “Cell signaling and stemness”

M.Phil. Thesis Registered/ongoing (02):

1. **Jony Yadav** (2018) “Role of exosomes in head and neck cancer”
2. **Ujala Singh** (2018) “Drug resistance in lung cancer”

Supervisor-ship of M.S./M.D./M.D.S. Dissertations (04)

1. **Dr. Shweta Tahlan**, “Screening for pre-malignant and malignant lesions of cervix by HPV testing, Pap Smear and aided visual methods in perimenopausal and post-menopausal women”, Department of Obstetrics and Gynaecology, Maulana Azad Medical College and Lok Nayak Hospital, University of Delhi (2009-11) –Completed
2. **Dr. Suman Galwa**, “Evaluation of inflammatory and abnormal Pap Smears by concurrent use of visual screening methods, high risk human papillomavirus detection and colposcopy”, Department of Obstetrics and Gynaecology, Maulana Azad Medical College and Lok Nayak Hospital, University of Delhi (2009-12) -Completed.
3. **Dr. Ankit Goel**, “Prevalence of human papillomavirus in oral squamous cell carcinoma in non-habit patients”, Department of Oral Medicine and Radiology, Subharti Dental College, Subharti Medical University, Meerut (2009-11) -Completed.
4. **Dr. Ankita Sharma** (2016) Study of immunohistochemical expression of vascular endothelial growth factor and its association with human papillomavirus E6 and E7

oncoproteins in oral and oropharyngeal squamous cell carcinoma. Degree M.D.(Pathology), Lady Hardinge Medical College, University of Delhi session (2014-2017) Completed.

UGC DS Kothari Fellowship (2)

1. **Dr. Deepti Pande**, "Alteration in redox microenvironment in HPV induced cervical carcinogenesis and its impact on key viral replicative and oncoproteins" (2016-2018)
2. **Dr. Kavita Baghel**, "To identify specific miRNAs attributed to drug resistance in non-small cell lung cancer stem cells."(2018-2019).

ICMR-PDF Guided (2)

1. **Dr. Sutapa Mahata**, "Investigation on crosstalk between stem cell signaling and HPV genes/oncogenes in cervical carcinogenesis" ICMR-PDF (2010-2013) – Completed.
2. **Dr. Shyam Babu Prasad** "Role of GSK3 β and STAT3 signaling in regulation of Epithelial–Mesenchymal Transition in Cervical Cancer" ICMR-PDF (2014- 2015).

ICMR-RA Guided (1);

1. **Dr. Shailja Pande**, "Role of transcription factors and HPV infection in cervical epithelial cell differentiation and cell cycle regulation" (2007-2009) ICMR-Research Associate. – Completed

CSIR-Pool Officer Guided (1);

1. **Dr. Prishla Varghese**, "Expression profiling of genes associated with the development of oral pre-cancers and cancers" CSIR-Pool Officer (2007-2010) –Completed.

DST Women Scientists Guided (2)

1. **Dr. Harsimrat Kaur**, "Expression profiling and identification of genes associated with development of cervical cancer in North-Indian women" (2007-2010) DST-Women Scientist Scheme (WOS-A). - Completed
2. **Dr. Shailja Pande**, "Role of transcription factor YY1 in HPV16-induced cervical carcinogenesis" (2010-2013) DST-Women Scientist Scheme (WOS-A). - Completed.

SERB-Teacher Associateship for Research Excellence (TARE) Fellow guided (1-ongoing)

1. **Dr. Manoj K. Kashyap**, Associate Professor, Stem Cell Institute, Amity Medical School, Amity University Haryana, Amity Education Valley Panchgaon, Manesar, Gurugram, Haryana "Targeting of the Spliceosome in Esophageal Squamous Cell Carcinoma" (March 2019 – March 2022)

Pre-doctoral Project Research Supervised (7)

1. **Shabeena Rehman**, "Prevalence and molecular characterization of Helicobacter pylori genotypes in patients with duodenal ulcers and gastric carcinogenesis" (2007-2010) ICMR-SRF Completed.
2. **Arvind Pandey**, "Role of survivin in gastric carcinogenesis" (2010-2013) ICMR-SRF Completed.

3. **Abhishek Tyagi**, "Identification and characterization of cervical cancer stem cells" (2010-2014) ICMR-SRF.
4. **Gaurav Verma**, "Molecular implications of HPV infection in head and neck cancers" UGC-SRF (2009-2014)
5. **Kanchan Vishnoi**, "Characterization of Stem cell signaling pathways that interact with HPV16 oncoproteins during cervical carcinogenesis" UGC-SRF (2010 – 2015).
6. **Mohit Jadli**, ICMR-Senior Research Fellowship (2016-ongoing).
7. **Tejveer Singh**, UGC-JRF and SRF (2015-ongoing).

Member of the Ph.D. Doctoral Committee (AIIMS) – (4 awarded)

1. **Neelam Nazmi** (2005-2010). Department of Transplant immunology and Immunogenetics, All India Institute of Medical Sciences, New Delhi. (Awarded): Supervisor – Prof. Narender Mehra
2. **Surendra Sehrawat** (2008-2013) "To Study Biological and Clinical Significance of Proliferative (c-KIT, FLT3) / Apoptotic (BAX, BCL2) Markers Ratio in de novo Acute Myeloid Leukemia", B.R.A. Institute Rotary Cancer Hospital, All India Institute of Medical Sciences, New Delhi (Awarded) Supervisor – Prof. Sameer Bakshi
3. **Shivali Jasrotia** (2012 onwards) "Role of Bone Marrow Microenvironment in Multiple Myeloma", B.R.A. Institute Rotary Cancer Hospital, All India Institute of Medical Sciences, New Delhi. Supervisor – Prof. Lalit Kumar
4. **Minakshi Mann** (2014 onwards) "To investigate the role of PARP-1 and beta-catenin in cisplatin resistance" B.R.A. Institute Rotary Cancer Hospital, All India Institute of Medical Sciences, New Delhi. Supervisor – Prof. Lalit Kumar

M.Sc./M. Tech./M.Pharm. Project Dissertations (1 Year) (10)

5. **Chetna Joshi**, M.Pharm (Pharmacology), Department of Pharmaceutical Sciences, Kumaun University, Nainital. "Variation Analysis of Long Control Region of HPV16 in Cervical Cancer Patients of Indian Population and its effect on certain Anti-Cancer drugs", August 2011-August 2012.
6. **Mohsin Raza**, M.Sc. (Biomedical Sciences), Ambedkar Centre for Biomedical Research, University of Delhi, New Delhi. "Role of GLI in cancer stem cells", December 2011- June 2012.
7. **Dharmendra Kumar Singh**, M. Tech (Biotechnology), Department of Biotechnology, IMS College of Engineering, Mahamaya Technical University, Ghaziabad. "Assesment of P53 gene polymorphesm at Codon 72 using PCR in cardiovascular disease", June 2012- May 2013.
8. **Manzilut Naqvi**, M.Sc. (Biomedical Sciences), Ambedkar Centre for Biomedical Research, University of Delhi, New Delhi, To study the functional contribution of let7a miRNA in cervical carcinogenesis, June 2012- May 2013.
9. **Aniket Bansal**, M.Sc. (Biomedical Sciences), Ambedkar Centre for Biomedical Research, University of Delhi, New Delhi. "Involvement of HPV16E6 oncoproteins in promoting epithelial mesenchymal transition manifested by cervical cancer stem cells" June 2013-May 2014.
10. **Loukik Arora**, M.Sc. (Biomedical Sciences), Ambedkar Centre for Biomedical Research, University of Delhi, New Delhi. "Association of Stem Cell Markers with Chemoresistance in Cervical Cancer", June 2013- May 2014.
11. **Jaya Kapoor**, M.Sc. (Biomedical Sciences), Ambedkar Centre for Biomedical Research,

University of Delhi, New Delhi. "Study of Epithelial Mesenchymal Transition (EMT) associated markers in chemosensitive and chemoresistant cervical cancer cells", June 2014- May 2015.

12. **Shruti Shalini**, M.Sc. (Biomedical Sciences), Ambedkar Centre for Biomedical Research, University of Delhi, New Delhi. "Expression profiling of epithelial mesenchymal transition markers and their correlation with GSK3B signaling in cervical cancer", June 2014- May 2015.
13. **Pragya Chaudary**, M.Sc. (Biomedical Sciences), Ambedkar Centre for Biomedical Research, University of Delhi, New Delhi. "In silico screening of selected phytochemicals for potential human papillomavirus E6 inhibitory activity", June 2016- May 2017.
14. **Umesh Hathi**, M.Sc. (Biomedical Sciences), Ambedkar Centre for Biomedical Research, University of Delhi, New Delhi. "Role of oxidative stress on cervical cancer cells", June 2017- May 2018.

M.Sc./B.Sc./M.Pharm. Project Dissertations (6 Months) (33)

1. **Indu Panwar**, "Detection of Co-infection HPV types in HPV-16 infected cervical lesions and determination of HPV 16 integration in host genome", M.Sc Applied Microbiology & Biotechnology, Banasthali University, Rajasthan, 2008.
2. **Kanika Gaur**, "Analysis of promoter hypermethylation in HPV-associated esophageal squamous cell carcinoma", B.Tech Biotechnology, Allahabad Agricultural Institute, Deemed University, Allahabad, 2008.
3. **Pooja Singh**, "Constitutive Activation of NF- κ B in Esophageal Squamous cell Carcinoma", M.Sc. Biomedical Sciences, Bundelkhand University, Jhansi, 2008.
4. **Alka Diwaker**, "Molecular studies of BRCA1, BRCA2 and p53 gene mutation in sporadic breast cancer patients from North-East region of India", M.Sc. Biotechnology, CCS University, Meerut, 2008.
5. **Shilpi Gupta**, "Analysis of Human Papillomavirus prevalence in women residing Refugee Camp of Jammu and Kashmir", M.Sc. Medical Microbiology, CCS University, Meerut, 2008.
6. **Janeesh P. A.**, "Identification of SP phenotype in cancer cell line" M.Sc. (Biochem) Bharathidasan University, Tamil Nadu 2009.
7. **Kapil Bandil**, "P53 Codon 72 polymorphism in different organ sites in north east population" M. Tech (Biotech) Madhav Institute of Technology & Science, Gwalior 2009.
8. **Aditi Nohria**, "Expression pattern of transcription factor AP-1 and NF- κ B and cell cycle regulatory protein Cyclin D1 and p21 in cervical cancer" B. Sc.(Medical Biotech), Manipal University, Karnatka, 2009.
9. **Geeta Chauhan**, "Immunohistochemical localization of STAT3 and pSTAT3 in different grades of cervical carcinoma". M.Sc.(Biochem), CCS University, Meerut, UP 2009.
10. **Neeraj Kumar**, B.Tech. (Biotechnology), Maharishi Dayananda University, Rohtak "Prevalence of HPV infection in menopausal women". Jan to June 2010.
11. **Pratishtha Jain**, M.Sc. (Biotechnology), School of Bioscience and Technology, Vellore

Institute of Technology, Vellore. "Anti-tumor agents on survivin expression in Gastric Adenocarcinoma Cells", December 2011-May 2012.

12. **Kakul Maheshwari**, M.Sc (Applied Microbiology and Biotechnology), Department of Biotechnology, Banasthali Vidhyapith, Jaipur. "IL-6 inducible STAT3 expression in HPV", January -June 2012.
13. **Shweta Chaudhary**, M.Sc (Applied Microbiology and Biotechnology), Department of Biotechnology, Banasthali Vidhyapith, Jaipur. "Assessment of DNA biomarker for Biobanking", January -June 2012.
14. **Vivek Akhouri**, M.Sc. (Biotechnology), P.G. Department of Biotechnology, Magadh University, Bihar, "p16 promoter methylation and expression in sporadic breast cancers", January - July 2012.
15. **Anju Kathel**, M.Sc. (Biotechnology), TRS College, A.P.S.U, Rewa, "BRCA1 promoter methylation and expression in sporadic breast cancer", January-June 2012.
16. **Rajkamal Vibhuti**, M.Sc. (Biotechnology), Department of Biotechnology, Jiwaji University, Gwalior. "Standardization and optimization of DNA extraction for Biobanking", January -July 2012.
17. **Ira Dave**, M.Sc. (Biotechnology), School of Bioscience and Technology, Vellore Institute of Technology, Vellore. "Effect of anti- tumor agents on survivin expression in Gastric Adenocarcinoma Cells (AGS)", February-August 2012.
18. **Manali Baghel**, M.Sc. (Biotechnology), Department of Biotechnology, Choudhary Charan Singh University, Meerut. "Role of let-7a in Cervical cancer", February-August 2012.
19. **Manish Mishra**, M.Sc. (Biotechnology), Department of Biotechnology, Veer Bahadur Singh, Purvanchal University, Jonpur. "Role of GLI signalling and HPV oncogenes in cervical cancer cells", February- August 2012.
20. **Vaneet Kaur**, B.Tech (Biotechnology), Department of Biotechnology, Amity University, Noida. "Role of HPV oncogene in EMT regulation in Cervical Cancer", March - May 2012.
21. **Sankarasastry Pragada**, M.Pharm. (Pharmacology), Department of Pharmacology, Rajiv Gandhi University of Health Science, Bangalore. "In-vitro anticancer activity of Clerodendron inerme on human cancer cell lines and their possible mechanism of action", March - September 2012.
22. **Akanksha Marwah**, M.Tech (Genetic Engineering), Department of Biotechnology, SRM University, Chennai. "Role of Hedgehog Signaling Pathway in maintaining chemo-resistance in cervical cancer cell line SiHa", December 2012- May 2013.
23. **Apurva**, M.Sc (Applied Microbiology), School of Bioscience and Technology, Vellore Institute of Technology, Vellore, Detection of Human Papilloma Virus infections in cervical scrapes from commercial sex workers, January- May 2013.
24. **Prafulla Chandra Tiwari**, M. Pharm.(Pharmacology), Department of Pharmacology, Jaipur College of Pharmacy, Rajasthan University of Health Sciences, Jaipur, To explore possibility of anticancer potential of topoisomerase inhibitors against cancer cell lines, February 2013- August 2013.
25. **Nadeem Ahmed Khan**, M.Sc. (Biotechnology), Jamia Milia Islamia, New Delhi, Targeting constitutively active signal transducer and activator of transcription 3 (STAT 3)

and its effect on cell cycle regulators p53 and pRb in hepatocellular carcinoma cells, HepG2, February 2013- May 2013.

26. **Sartaj Khurana**, M.Tech. (Genetic Engineering), SRM University, Chennai. "Transcriptional Regulation of HPV Mediated Carcinogenesis: An In-Vitro Expression Analysis of Transcription Factors and HPV16 E6/E7 Oncoproteins in HPV16 Transfected Cancer Cells", August 2013- May 2014.
27. **Dalveer Singh**, M.Sc. (Biotechnology), Department of Biotechnology, R.B.S. College Agra, Agra University, U.P. "In Situ Expression of Host Cell Transcription Factors STAT3 and NF-KB in Oral Cancer", Jan 2015- June 2015.
28. **Somnath Chatterjee**, M.Sc. (Biotechnology), Department of Biotechnology, Faculty of Science and Humanity, SRM University, Chennai. "Detection of HPV in plasma of female sex worker", Jan 2015- June 2015.
29. **Anuradha**, M.Sc. (Biotechnology), Department of Biotechnology, Multanimal Modi (P.G.) College, Modinagar, U.P. "Prevalence and Genotyping of HPV in cervical cancer cases through PGMY-RLB", Jan 2015- June 2015.
30. **Shivani Gupta**, MSc (Stem Cell Research), Amity Institute of Molecular Medicine and Stem Cell Research, Amity University, Noida, Feb 2018- May 2018
31. **Aditi Chauhan**, (Stem Cell Research), Amity Institute of Molecular Medicine and Stem Cell Research, Amity University, Noida, "Role of Oxidative Stress in cervical cancer cell viability", Dec. 2019 to Mar 2020.
32. **Simran Dhillon**, (Stem Cell Research), Amity Institute of Molecular Medicine and Stem Cell Research, Amity University, Noida, "Differential Expression of TF-X in adherent and Spheroid Culture of Cervical Cancer Cells" Jan 2020 to Mar 2020.
33. **Shreya Mahajan**, Department of biotechnology, Maharishi Markandeshwar (Deemed to be University), Ambala "Characterization and protein profiling of exosomes isolated from HNSCC" Jan 2020 to Mar 2020.

Short-term Project Fellows from Indian Academy of Science Summer Fellows (2 months)
(26)

1. **Madhumita Ramesh**, B.Tech Industrial Biotechnology, Anna University, Chennai, 2008.
2. **Arvind Murali**, B.Tech Industrial Biotechnology, Centre for Biotechnology, Anna University, Chennai. 2009
3. **Debanjana Chatterjee**, (Int. M.Sc.-Ph.D. Biomedical Science), Ambedkar Centre for Biomedical Sciences, University of Delhi, Delhi. 2009
4. **Anagha Kadam**, "Development of PGMY-Reverse Line Blot as a method for comprehensive HPV genotyping" M.Sc. Biotechnology, Department of Biotechnology, Pondicherry Central University, Puducherry. May-July 2010.
5. **Vrundha M. Nair**, Head and Lecturer, Department of Bioinformatics, Malankara Catholic College, Mariagiri. "HPV detection and expression of hedgehog/Gli pathway in HPV positive and HPV negative cervical cancer cell lines". April 2011-June 2011.
6. **Anjali Pathania**, M.Sc (Biotechnology), Gandhi Institute of Technology and Management, GITAM Institute of Sciences, Vishakapatnam. Association of STAT3 activation and MMP expression in cervical carcinoma. May 2011- June 2011.
7. **Vaneet Kaur**, B.Tech (Biotechnology), Department of Biotechnology, Amity University,

Noida. "Role of Notch signaling in Cervical Cancer". May 2011- July 2011.

8. **Md. Ali Abbas**, M.Sc. (Biotechnology), Interdisciplinary biotechnology unit, Aligarh Muslim University, Aligarh. "Association of HPV16 and its viral load with microRNA-21 expression in cervical cancer". June-August 2011.
9. **Disha Rao**, B.E (Biotechnology), Department of Biotechnology, R.V College of Engineering, Bangalore. "Effect of knock down of miR-21 in cervical cancer", June - August 2012
10. **G. Himasagar Naik**, B.Tech (Biotechnology), NIT, Warangal. "Clonal characterization of cancer stem like cells in cervical cancer", June -August 2012.
11. **Mukta Mahajan**, M.Sc. (Bioinformatics), Jamia Milia Islamia, New Delhi. "STAT3 and NFκB- Functional and Structural Interactions", May-July 2013.
12. **Baldev Nagpal**, M.Tech. (Industrial Biotechnology), SASTRA University. "Survivin: It's Role in Apoptosis and Other cellular Funtions with Respect to its Subcellular Localization", June-June 2013.
13. **Ishita Chowdhary**, M.Sc. (Biotechnology), VIT, Vellore. "Interaction of GLI Signalling with other Stem Cell Signaling pathways", May-June 2013.
14. **Saswati Karmakar**, B.Tech. (Biotechnology), University School of Biotechnology, GGSIPU, Delhi. "STAT3: Upstream Regulation and Downstream Targets in Cervical Cancer using RT2 profiler", June-August 2013.
15. **Arpita Sundaria**, B.Tech. (Biotechnology), University of Rajasthan, Jaipur "Evaluation of Chemoresistance in Cervical Cancer Cell Line, SiHa", April-June 2014.
16. **Tanve Shinde**, B.Tech. (Biotechnology), National Institute of Technology, Warangal "In-Situ Expression Analysis of Transcription Factors in Oral Pre-Cancer and Cancer Lesions", May-July 2014.
17. **K.R. Ethiraj**, Lecturer, Department of Chemistry, Vellore Institute of Technology University, Vellore May-July 2015.
18. **Komal Avinash Joshi**, Institute of Bioinformatics & Biotechnology, University of Pune.
19. **Priyanka Ranjan**, "Assessment of role of neutraceutical in cancer chemosensitization". PSG College of Technology. Coimbatore, Tamilnadu.
20. **Utkarsh Chandra**, "Diagnosis of diseases using LAMP-PCR Technique". Manipal University. Manipal.
21. **Muskan Khaitan**, "Detection of HPV 16 infection using Polymerase Chain Reaction" Hindustan College of Science and Technology, Farah (Mathura) May-July 2017.
22. **Vinay Kumar** "Excision of HPV16 Full lenth genome from pBR322 AND Cloning in PCDNA3.1" B.Tech. (Biotechnology) Amrita School of Biotechnology, Amrita University, Clappana , Amritapuri, Vallikavu, Kerala
23. **Ushasi Roy** "Excision of HPV16 Full lenth genome from pBR322 AND Cloning in PCDNA3.1" MSc Genetics, University of Calcutta, June –August 2018
24. **Smrti Sneh Verma** May – July 2019
25. **Garvita Goyal** MSc Zoology, University of Delhi, June – July 2019
26. **Sweta Priyadarshini** June – July 2019

Summer and Other Trainees (30)

1. **Sakshi Aggarwal**, B. Tech. (Biotechnology), Amity University, Noida.
2. **Silky Mukherjee**, B. Tech. (Biotechnology), Amity University, Noida.
3. **Nandini Jain**, B. Tech. (Biotechnology), Amity University, Noida.
4. **Rohan Kapoor**, B. Tech. (Biotechnology), Amity University, Noida.
5. **Saurabh Samaddar**, M.Sc. (Biotechnology), KIIT University, Bhubaneswar.
6. **Gargi Bindal**, B. Sc.(Hons.) Biomedical Sciences, Shaheed Rajguru College of Applied Sciences, Delhi University, Delhi.
7. **Nishtha Punj**, B. Tech. (Biotechnology), Amity Institute of Biotechnology, Amity University, Noida.
8. **Sidharth Arora**, M.Tech (Industrial Biotechnology), Department of Chemical Engineering, NIT, Suratkhal, June 2010-July 2010.
9. **Heena Panwar**, B.Tech (Biotechnology), Department of Biotechnology, IILM Academy of Higher Learning, UPTU, Greater Noida, June 2010-July 2010.
10. **Abhishek Badolia**, B.E (Biomedical), PDM college of engineering, Maharshi Dayanand University, Rohtak, June-August 2010
11. **Arun Verma**, B.Tech (Biotechnology), Department of Biotechnology, Amity University, Noida, March 2011- May 2011.
12. **Yogesh Kumar**, B.Tech (Biotechnology), Department of Biotechnology, Amity University, Noida, March - May 2011
13. **Kamal Preet Sarna**, B.Tech (Biotechnology), Department of Biotechnology, Sam Higginbottom Institute of Agriculture, Technology and Sciences. Allahabad, June - July 2011.
14. **Abhishek Badolia**, B.E (Biomedical), PDM college of engineering, Maharshi Dayanand University, Rohtak, June-August 2011
15. **Pallavi Choudhary**, B.Tech (Biotechnology), Department of Biotechnology, Mangalayatom University, Aligarh, December 2011-January 2012
16. **Anjali Choudhary**, B.Tech (Biotechnology), Department of Biotechnology, Mangalayatom University, Aligarh, December 2011-January 2012
17. **Dipali Sharma**, B.Tech (Biotechnology), Department of Biotechnology, Amity University, Noida, March- May 2012.
18. **Akanksha Marwah**, M.Tech (Genetic Engineering), Department of Biotechnology, SRM University, Chennai, May- June 2012
19. **Nancy Soni**, M.Sc. (Biotechnology), Department of Biotechnology, Amity University, NOIDA, May-July 2012.
20. **Vijay Kumar Verma**, School of Biotechnology, M.Sc. (Biotechnology), Banaras Hindu University, Varanasi, May -July 2012.
21. **Rohit Sahai**, School of Biotechnology, M.Sc. (Biotechnology), Banaras Hindu University, Varanasi, May -July 2012.
22. **Jasveen Chadha**, B.Tech. (Biotechnology), JAYPEE Institute of Information

Technology, Noida, UP, December 2013-January 2014.

23. **Neha Mehrotra**, B.Tech.+M.Tech. (Nanotechnology), Amity University, Noida, May-June 2014.
24. **Nitiksha Kundaliya**, B.Tech.+M.Tech. (Biotechnology), Amity University, Noida, May-June 2014.
25. **Jasveen Chadha**, B.Tech. (Biotechnology), JAYPEE Institute of Information Technology, Noida, Dec 2014.
26. **Apoorva Garg**, M. Tech Biotechnology, BITS Pilani. (2015)
27. **Anubhav Kumar**, Pondicherry University (2015)
28. **Pranav Mishra**, B.Sc. Zoology, SGTB Khalsa College, University of Delhi. (2016)
29. **Rashmi Sharma**, B.Sc. Biochemistry, Daulat Ram College, University of Delhi. (2016)
30. **Muskan Khaitan**, "Detection of HPV 16 infection using Polymerase Chain Reaction" Hindustan College of Science and Technology, Farah (Mathura) May-July 2017.

Editorial Board Member:

1. Biomarker (Elsevier),
2. BMC Complementary and Alternate Medicine,
3. Current Traditional Medicine (Bentham Science).
4. J. Biomarkers (Hindawi)

Reviewer

a. Journals

1. Clinical Cancer Research
2. Carcinogenesis,
3. Microbes and Infection,
4. Indian Journal of Medical Research,
5. Molecular and Cellular Biochemistry,
6. International Immunopharmacology,
7. BMC Cancer
8. BMC Genomics
9. Journal of Translational Medicine
10. Tumor Biology
11. DNA and Cell Biology
12. Frontiers
13. Drug Development Research
14. PLoS one
15. PLoS Pathogens
16. Gynecology Oncology
17. Scientific Reports

b. Funding Agencies

1. Department of Biotechnology (Govt. of India)
2. Department of Science and Technology (Govt. of India)
3. Indian Council of Medical Research, (Govt. of India)
4. Council of Scientific and Industrial Research, (Govt. of India)
5. Central Council of Research in Homeopathy (AYUSH, Govt. of India)
6. Technology Development Board, (Govt. of India)
7. Kerala State Council for Science, Technology & Environment

Recent Invited Lectures (135)

Guest Faculty Lectures in Universities at Graduate and Post-graduate Level (45)

1. Guest faculty lecture on “Antibodies - Structure and Type, Nature of Antigens, Antigen-Antibody based Applications- Basic and Advanced” at School of Biotechnology, Banaras Hindu University, Varanasi. February 13-14, 2020.
2. Invited lecture on “Virus Infections Causing Cancer: Challenges and Opportunities” at School of Life Sciences, Mahatma Gandhi Central University, Motihari on Nov 29, 2019.
3. Invited lecture on “Introduction to Flowcytometry: Principle, Methods and Applications” at Indo-African (ICMR-AUSRTC) International Workshop on “Basic Molecular Biology Techniques Relevant to Cancer Research” held at National Institute of Cancer Prevention and Research (ICMR), Noida, on September 5, 2019.
4. Guest faculty lecture on “Stem Cells: Past, Present and Future” at Miranda House, University of Delhi, Delhi, August 29, 2019.
5. Invited lecture on “Human Papillomavirus - Induced Tumorigenesis” at Lecture Series on “Augmenting curricular concepts in Microbiology to stimulate young minds: an interdisciplinary approach” held at Bhaskaracharya College, Delhi University, on February 5, 2019.
6. Invited lecture on “Animal Cell Culture: Cell Culture Based Assays” at DBT Workshop on “Recent techniques in DNA and Protein analysis” held at SOS in Biotechnology, Jiwaji University, Gwalior from Feb 24 – March 11, 2018” (Lecture on March 3, 2018).
7. Guest faculty lecture on “Antibodies - Structure and Type, Nature of Antigens, Antigen-Antibody based Applications- Basic and Advanced” at School of Biotechnology, Banaras Hindu University, Varanasi. February 10-12, 2018.
8. Invited lecture on “Animal Tissue Culture: Contributions to Modern/Medical Science” at National Workshop on “Animal Cell Culture: Techniques and Applications” held at Guru Ghasidas University, Bilaspur, from January 18-24, 2018.
9. Guest faculty lecture on “Stem Cells in Regenerative Medicine and Cancer Research” at Miranda House, University of Delhi, Delhi, October 05, 2017.
10. Guest faculty lecture on “Cancer Research and Molecular Oncology: Current Health Challenge and Available Tools” in Biotechnological Interventions for Societal Development, held at Motilal Nehru National Institute of Technology, Allahabad, March 22, 2017.
11. Guest faculty lecture on “Targeting Human Papillomavirus Infection and Cervical Cancer by Herbal Derivatives” Department of Botany, University of Calcutta, Kolkata, March 16, 2017.
12. Guest faculty lecture on “Basic Cancer Biology and Molecular Oncology” Department of Botany, University of Calcutta, Kolkata, March 15, 2017.

13. Guest faculty lecture on “Gene Manipulation and Genomics” Department of Botany, University of Calcutta, Kolkata, March 14, 2017.
14. Guest faculty lecture on “Nature of Antigens Structure and Type of Antibodies, Antigen-Antibody based Applications- Basic and Advanced” at School of Biotechnology, Banaras Hindu University, Varanasi. February 14, 2017.
15. Guest faculty lecture on “Cellular Organization” during Pre-CSIR NET –Crash Course- December 2016 at Ambedkar Centre for Biomedical Research, University of Delhi, Delhi, November 6, 2016.
16. Guest faculty lecture on “Stem Cells in Regenerative Medicine and Cancer Research” at Miranda House, University of Delhi, Delhi, September 14, 2016.
17. Guest faculty lecture on “Stem Cells in Regenerative Medicine and Cancer Research” at Miranda House College. University of Delhi. June 09, 2016.
18. Guest faculty lecture on “Transcription Factors as Anti-Cancer Therapeutic Targets” at Miranda House, University of Delhi, Delhi, October 8, 2015.
19. Guest faculty lecture on “Antigens – Antibody Interactions, Assays, and Their Research and Clinical Applications” at School of Biotechnology, Banaras Hindu University, Varanasi. April 06, 2015.
20. Invited lecture on “Human Papillomavirus and Cervical Cancer: Molecular Biology at the fulcrum of Disease Diagnostics and Emerging Therapeutics”. TE-QIP Short Term Course on “Theoretical and Practical Aspects of Cancer Research”, IIT Guwahati, February 4-8, 2015.
21. Guest faculty lecture on “Stem Cells: Basics and Applications” at Miranda House, University of Delhi, Delhi, September 24, 2014
22. Guest faculty lecture on “Transcriptional regulation in Head & Neck cancer” at Dr. B.R.A. Institute of Rotary Cancer hospital: AIIMS, New Delhi on 10th March 2014.
23. Guest faculty lecture on “Nature of Antigens – Antibody Interactions, Assays, and Their Research and Clinical Applications” at School of Biotechnology, Banaras Hindu University, Varanasi. March 03, 2014.
24. Guest faculty lecture on “Writing a Research Report” during orientation training course in “Medical Bio-Statistical Methods and Research Methodology” held at ICPO, Noida. April 11, 2013.
25. Guest faculty lecture on “Stem Cells: Basics and Applications” at Miranda House, University of Delhi, Delhi, October 12, 2012
26. Guest faculty lecture on “Apoptosis, Necrosis, Proapoptotic and Anti-apoptotic Genes” at Ambedkar Centre for Biomedical Research, University of Delhi, Delhi, October 12, 2012
27. Guest faculty lecture on “Oncogenes and Tumor Suppressor Genes” at School of Biotechnology, Banaras Hindu University, Varanasi, September 28, 2012
28. Guest lecture on “Link between Inflammation & Cancer, Role of Transcription Factors & other Inflammatory mediators”, SBT BHU- 29 Feb 2012
29. Guest lecture on “Tumor Immunology”, SBT BHU- 28 Feb 2012
30. Guest faculty lecture on “Writing Results and Discussion in a Research Report” during orientation training course in “Medical Bio-Statistical Methods and Research Methodology” held at ICPO, Noida. December 27, 2011.
31. Guest faculty lecture on “Stem Cells, Basics & Applications”, Miranda House, DU 14 Oct 2011
32. Guest faculty lecture on “Apoptosis”. ACBR, DU Sept 2011
33. Guest faculty lecture on “Flowcytometry: Principles and Applications” during Workshop

on “Basic Molecular Biology Techniques Relevant to Cancer Research” held at ICPO, Noida. August 10, 2011.

34. Guest faculty lecture on “Tumor Virology” at Ambedkar Centre for Biomedical Research, University of Delhi, Delhi, July 13, 2011.
35. Guest faculty lecture on “Molecular Diagnostics of Cancer” during “Training Program in Bio-medical Sciences” for young researchers from African Countries held at Department of Pathology, University College of Medical Sciences, Delhi. April 29, 2011.
36. Guest faculty lecture on “Human Papillomavirus Genotypes”, at Symposium on “New Frontiers in Medicine” for Undergraduate Medical Students” held at Moti Lal Nehru College of Medical Sciences, Allahabad by Moving Academy of Medicine and Biomedicine. February 10, 2011.
37. Guest faculty lecture on “Apoptosis, Necrosis, Proapoptotic & anti-apoptotic genes”, SCBT BHU, 11 Feb 2011
38. Guest faculty lecture on “Apoptosis, Necrosis, Proapoptotic & anti-apoptotic genes”, ACBR, DU, 12 Nov2010
39. Guest faculty lecture on “Molecular Cancer Diagnostics” at Miranda House, University of Delhi, Delhi, November 8, 2010.
40. Guest faculty lecture on “Stem Cells: Implications in Oncology” at Miranda House, University of Delhi, Delhi, September 28, 2010.
41. Invited to CME program on ‘Molecular Biology Techniques in Cancer Diagnosis and Treatment’ and deliver a lecture on “Blotting assays and PCR: Their Applications in Cancer” During RGCON2010, New Delhi on March 26, 2010.
42. Delivered an invited lecture on “Stem Cells Technology: The new era in Biotechnology” during a ‘Certificate Course in Medical Biotechnology’ organized at Miranda House, University of Delhi, Delhi on September 29, 2009.
43. Invited to deliver a lecture on “Tumor Virology: Cancer of the Uterine Cervix and Infection of Human Papillomavirus” during a special Course for Biology Teachers of Delhi’s Senior Secondary Schools organized by Ambedkar Centre for Biomedical Research, University of Delhi, Delhi on November 15, 2008
44. Delivered an invited lecture on “Anti-Cancer Drugs” during a ‘Certificate Course in Medical Biotechnology’ organized at Miranda House, University of Delhi, Delhi on September 19, 2008.
45. Delivered an invited lecture on “Stem Cells in Medical Biotechnology” during a ‘Certificate Course in Medical Biotechnology’ organized at Miranda House, University of Delhi, Delhi on September 17, 2008.

Lectures at School Level through DST-INSPIRE Program (30)

1. Invited lecture on “Cancer: Another Me within Me (But is it desirable?)” in INSPIRE Science Camp at Hi Tech Institute, Ghaziabad. July 23, 2019.
2. Invited lecture on “Cancer: A Challenge, Whatsapp Gyan and Career Prospects!” in INSPIRE Science Camp at Hi Tech Institute, Ghaziabad. Jan 20, 2019.
3. Invited lecture on “Cancer: An Enemy Within” in INSPIRE Science Camp at Arunachal University of Studies, Namsai. January 30, 2017.
4. Invited lecture on “Cancer: How I Can Contribute To Its Prevention And Control” in INSPIRE Science Camp at Columbia College, Raipur. December 27, 2016.
5. Invited lecture on “Cancer and Cancer Research in India” in INSPIRE Science Camp at Institute of Management Technology, Meerut. November 23, 2016.
6. Invited lecture on “Cancer A Lifestyle Disease? Cancer Prevention A Lifestyle

Approach!!" in INSPIRE Science Camp at Hi Tech Institute, Ghaziabad. September 20, 2016.

7. Invited lecture on "Let's Talk About Cancer" in DST-INSPIRE program at Maharana Pratap College of Allied Sciences, Gwalior, MP. August 27, 2016.
8. Invited lecture on "Cancer Research: What do we Know and What we Need to Know" in INSPIRE Science Camp at Hi Tech Institute, Ghaziabad. August 11, 2016.
9. Invited lecture on "Cancer: Is it Really Fatal" in DST-INSPIRE program at RKGEC, Ghaziabad. January 19, 2016.
10. Invited lecture on "Cancer: More We Learn Less We Know" in INSPIRE Science Camp at Hi Tech Institute, Ghaziabad. January 16, 2016.
11. Invited lecture on "Cancer: The Inner Terrorists - Act today for a terror-free tomorrow" in INSPIRE Science Camp at Hi Tech Institute, Ghaziabad. November 26, 2015.
12. Invited lecture on "Cancer: Emperor of Maladies and an Enemy Within" in INSPIRE Science Camp at Centre for Development of Physics Education, University of Rajasthan, Jaipur. October 6, 2015.
13. Invited lecture on "Cancer" in Safdarjung Lioness Club, Delhi. July 18, 2015.
14. Invited lecture on "Cancer: Emperor of Maladies and an Enemy Within" in DST-INSPIRE program at University of Engineering and Management, University Area, Kolkata. May 12, 2015.
15. Invited lecture on "KNOW Cancer for NO Cancer" in DST-INSPIRE program at Vedant College of Engineering & Technology, Bundi, Rajasthan, November 18, 2014.
16. Invited lecture on "Know Cancer to fight Cancer" in DST-INSPIRE program at S.B.S.S.P.S.J College, Godda, Jharkhand. August 12, 2014.
17. Invited lecture on "Cancer: An Example of 'Prevention is Better than Cure' Cancer Research: Hope Against Hope" in DST-INSPIRE program at Rajkumar Goel Institute of Technology, Ghaziabad, December 21, 2013.
18. Invited lecture on "Cancer: An Example of 'Prevention is Better than Cure' Detect Cancer Early Save Life" in DST-INSPIRE program at Rajkumar Goel Engineering College, Pilkhuwa, Hapur. December 20, 2013.
19. Invited lecture on "Cancer: A Perspective for the Young Mind" in DST-INSPIRE program at Rukmani Devi Institute of Science & Technology, Bhopal. December 18, 2013.
20. Invited lecture on "KNOW Cancer for NO Cancer" in DST-INSPIRE program at Amity University Rajasthan, Jaipur. December 17, 2013.
21. Invited lecture on "Mystical World of Cancer: Myths and Facts" in DST-INSPIRE program at CCP, Raipur. November 14, 2013.
22. Invited lecture on "Cancer – An Enemy Within: Know Cancer for No Cancer" in DST-INSPIRE program at Gandhi Shanti Niketan Degree College, Gohniya (Jasra) Allahabad. August 24, 2013.
23. Invited lecture on "Cancer and Cancer Research: A Bird's Eyeview" in DST-INSPIRE program at Maharana Pratap College of Allied Sciences, Gwalior, MP. August 7, 2013.
24. Invited lecture on "Stem Cells: Basics and Applications" in DST-INSPIRE program at S.B.S.S.P.S.J College, Godda, Jharkhand. August 4, 2013.
25. Invited lecture on "Cancer and Cancer Research: A Bird's Eyeview" in DST-INSPIRE program at S.B.S.S.P.S.J College, Godda, Jharkhand. August 3, 2013.
26. Invited lecture on "Basics of Cancer and Cancer Research" in DST-INSPIRE program at Selvam Institute, Namakkal. November 7, 2012.
27. Invited lecture on "Basics of Cancer and Cancer Research" in DST-INSPIRE program at

DCS College, Mathura. September 6, 2012.

28. Invited lecture on "Stem Cell Technology: The New Era of Biotechnology" in DST-INSPIRE program at Krishna College, Bijnor. May 15, 2012.
29. Invited lecture on "Basics of Cancer and Cancer Research" in DST-INSPIRE program at Bharat Institute, Kurukshetra. April 2, 2012.
30. Invited lecture on "Basics of Cancer and Cancer Research" in DST-INSPIRE program at Krishna College, Bijnor. January 28, 2012.

Lectures during Conferences, Seminars And Symposiums (60)

1. Invited lecture on "Exploration of exosomal cargo with implications in tumor progression of squamous cell carcinoma harbouring Human papillomavirus infection" in 13th International Symposium on "Cancer Prevention and Treatment" (Feb 20-21, 2020) at School of Life Sciences, Jawaharlal Nehru University, New Delhi, February 18, 2020.
2. Invited lecture on "Human Papillomavirus Infection and Cervical Cancer: Challenges and Opportunities for Early Detection and Prevention" in World Congress on Reproductive Health with Emphasis on Reproductive Cancers, Infertility and Assisted Reproduction (February 14-16, 2020) organized by ISSRF at Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir. February 15, 2020.
3. Invited lecture on "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: Role of Inflammation and Immune System for Cancer Prevention and Treatment (February 13-16, 2020) organized by Department of Biochemistry, Institute of Science, Banaras Hindu University Varanasi, INDIA, February 14, 2020.
4. Invited lecture on "Potential of Repurposing homeopathic formulations based on Berberis vulgaris and Berberis aquifolium in treatment of cervical cancer" in 4th International Conference on Nutraceuticals and Chronic Diseases organized by Indian Institute of Technology Guwahati, Guwahati. September 24, 2019.
5. Invited lecture on "Role of Exosomes in Carcinogenic Signaling in Cervical Cancer" in National Symposium on Basic & Translational Research in Cancer Biology at Department of Biological Sciences & Biotechnology, Institute of Advanced Research, Koba Institutional Area Gandhinagar, Gujarat, India, September 11, 2019.
6. Invited lecture on "STAT3:A master regulator or prime target of HPV-induced tumorigenesis" in 38th Annual Convention of Indian Association for Cancer Research & International Symposium on "Integrating Cancer Research into Comprehensive Disease Management: Recent Breakthroughs" at PGIMER, Chandigarh. March 1, 2019.
7. Invited lecture on "Cervical Cancer and Exosomes: From Trash Cans to Signalosomes" at Indian Institute of Technology Guwahati. Feb 11, 2019.
8. Invited lecture on "Exploration of Exosomal Cargo from Cervical Cancer Cells and its Functional Relevance" in International Symposium on "Tumor Microenvironment and Cancer Prevention & Therapeutics" at School of Life Sciences, Jawaharlal Nehru University, New Delhi, February 09, 2019
9. Invited lecture on "Viral Oncoproteins as Regulators of Cervical Cancer Stem Cells and Chemo/Radio-resistance" In International Symposium on Translational Cancer Research, Delhi State Cancer Institute, Delhi. December 29, 2018
10. Invited lecture "Anti-Cervical Cancer and Anti-HPV Activity of Nutraceuticals & Plant Derived Homoeopathic Formulations", during 4th International Conference on Nutraceuticals and Chronic Diseases, The Himalayan University, Jolly Grant, Dehradun on September 15, 2018.

11. Invited lecture “HPV and Cervical Cancer Stem Cells: Viral Oncoproteins as Causative Link and Promoter of Chemoresistance”, on Indo-China (INSA-CAS) Bilateral Exchange visit to The First Hospital of Sun-Yet-Sen University, Guangzhou, China on September 7, 2018.
12. Invited lecture “STAT3: is it a master regulator or prime target of virally-induced tumors?”, on Indo-China (INSA-CAS) Bilateral Exchange visit to Guangzhou Institute of Biomedicine and Health, Guangzhou, China on August 31, 2018.
13. Invited lecture “Cervical Cancer – a success story from an immunologist viewpoint: Even a small star shines in the dark”, on The World Immunology Day Symposium on ‘Nurturing Immunobiology and Beyond’ Department of Zoology, University of Delhi on May 11, 2018 .
14. Invited lecture “Role of Viral Oncoproteins in Maintenance of Cervical Cancer Stem Cells and Chemoresistance”, Regenerative Medicines and Chronic Degenerative Diseases and Role of Omics and Biomarkers in Health (3.0 Edition) 2018 at Department of Zoology, University of Karala, Thiruvananthapuram, March 10, 2018.
15. Invited lecture on “Targeting Radioresistance in Cervical Cancer by Curcumin through Combating AP-1 Activity in Cancer Stem Cells” in Trends in Biochemical and Biomedical Research: Advances and Challenges (TBBR-2018) organized by Department of Biochemistry, Institute of Science, Banaras Hindu University Varanasi, INDIA, February 13-15, 2018.
16. Invited lecture on “Cervical Cancer – A Preventable Lifestyle Disease but NOT YET Prevented: Molecular Targets as Avenues for Potential Therapeutics” at National Conference on Diseases and Drugs: Emerging Trends and Challenges" NCDD2018 Plenary Session 2: Physiological and Molecular Mechanism of Lifestyle Diseases at Zakir Hussain Delhi College, University of Delhi, Delhi, Jan 31-Feb 1, 2018.
17. Invited lecture “Molecular Methods of HPV Testing in Cervical Scrapes: Options and Opportunities”, AOGIN-India Workshop on “Cervical Cytology and HPV Testing” during AOGIN-India Annual Conference 2017, at Lucknow, September 8, 2017.
18. Invited lecture “HPV infection, Cervical Cytology & Cervical Carcinogenesis: Basics”, AOGIN-India Workshop on “Cervical Cytology and HPV Testing” during AOGIN-India Annual Conference 2017, at Lucknow, September 8, 2017.
19. Invited lecture on “Targeting Radioresistance in Cervical Cancer by Curcumin through Combating AP-1 Activity in Cancer Stem Cells” in Second International Conference on Nutraceuticals and Chronic Diseases organized by Indian Institute of Technology Guwahati at Goa. September 2, 2017.
20. Invited lecture on “Maintenance of Cervical Cancer Stem Cells and Chemoresistance: Viral Oncoproteins as Potential Therapeutic Targets” in on "Recent Advances in Regenerative Medicine” at Centre for Stem Cell Tissue Engineering & Biomedical Excellence, Panjab University, Chandigarh. March 31, 2017.
21. Invited lecture “Methods of HPV Testing- Practical Aspects”, 12th Annual conference of ISCCP, at Maulana Azad Medical College, New Delhi March 3, 2017.
22. Keynote lecture “Role of Viral Oncoproteins in Maintenance of Cervical Cancer Stem Cells and Chemoresistance”, International Conference on Advancements in Disease Genetics, Structural & Systems Biology at Ashoka–Institute of Technology & Management, Varanasi, January 22, 2017.
23. Invited lecture on “Cervical Cancer - a Preventable Cancer but Not Yet Prevented: Avenues for Surgical Strike” in National Conference on Recent Trends And Advances In Biotechnology at Institute of Management Studies, Ghaziabad. November 26, 2016.
24. Invited lecture “Epidemiology of HPV Types Amongst General Population And Genital

- Cancer”, AOGIN-India Annual Conference, at Hotel Ashoka Patliputra, October 15, 2016.
25. Invited lecture “Oral HPV Infections: Are They Different from Genital Infections”, Workshop on “Cervical Cytology and its Integration with HPV Detection” during AOGIN-India Annual Conference, at Hotel Ashoka Patliputra, October 14, 2016.
 26. Invited lecture on “Targeting Human Papillomavirus Infection and Cervical Cancer by Herbal Derivatives” in First International Conference on Nutraceuticals and Chronic Diseases organized by Indian Institute of Technology Guwahati at Cochin. September 9, 2016.
 27. Invited lecture on “HPV Viral Oncoproteins: Role Beyond Cervical Cancer Initiation and Progression” In 35th Annual Convention of Indian Association for Cancer Research (IACR 2015), Delhi. April 10, 2016.
 28. Invited lecture on “Human Papillomavirus Oncogenes Differentially Modulate Chemoresistance in Cervical Cancer Cells” in 3rd Symposium on Translational Cancer Research at Delhi State Cancer Institute, Delhi. November 2, 2015.
 29. Invited lecture “MicroRNA-mediated Regulatory Loops Promote Carcinogenic Signaling in Cervical Cancer”, AOGIN-India Annual Conference, Christian Medical College, Vellore August 28, 2015.
 30. Invited lecture on “Anti-HPV Therapeutics: Bottlenecks and Future of Emerging Leads” In 34th Annual Convention of Indian Association for Cancer Research (IACR 2015), Jaipur, Rajasthan. February 19, 2015.
 31. Invited lecture on “Cervical Cancer and HPV Infection: Targeting Cancer Stem Cells and Radio-resistance by Curcumin” In 41st Annual Conference of Association of Clinical Biochemists of India (ACBICON 2014), AIIMS, Jodhpur, Rajasthan. December 12, 2014
 32. Invited lecture on “Transcriptional Regulation in Control of HPV infection and Associated Malignancies” In 2nd International Symposium on Translational Cancer Research, Delhi. December 1, 2014
 33. Invited lecture on “Role of Viral Oncoproteins in Maintenance of Cervical Cancer Stem Cells” In 5th International Conference on Stem Cells and Cancer (ICSCC-2014), JNU, New Delhi. November 9, 2014
 34. Invited lecture on “Host Transcription Factors as Cofactors of Cervical Carcinogenesis: Role of STAT3”, AOGIN-India, Cuttack. September 14, 2014
 35. Invited lecture on “Role of Human Papillomavirus Infection in Maintenance of Cervical Cancer Stem Cells: Targeting by Curcumin” in 5th International Conference on translational Cancer Research” at Vigyan Bhawan, New Delhi. February 08, 2014.
 36. Invited lecture on “Anti-cancer Phytochemicals: Molecular Targets and Downstream Effects on Cell Cycle and Apoptosis” in Ranbaxy Annual Round Table Meeting on “Life Style and Cancer with Focus on Cancer Prevention” held at AIIMS, New Delhi. November 30, 2013.
 37. Invited lecture on “Herbal Derivatives as Anti-Cancer Therapeutics” in International Conference on “Frontier in Cancer Research: Chemoprevention to Therapeutics” organized by Amity university, Noida. November 16, 2013.
 38. Plenary lecture on “Transcriptional Control of Human Papillomavirus Infection in Malignant Transformation” in 16th All India Congress of Cytology and Genetics and Symposium on “Gene, Environment and Health” held at the Department of Botany, University of Kerala, Kariavattom, Trivandrum from October 22-24, 2013
 39. Invited lecture on “Flowcytometry and cell sorting in molecular oncology” in FACS Aria User Meet 2013 at BD FACS Academy, Jamia Hamdard, New Delhi. July 19, 2013.

40. Invited lecture on "Role of Transcription Factor STAT3 in Linking HPV Infection with Cervical Carcinogenesis" in 32nd Annual Convention of Indian Association for Cancer Research & International Symposium : Infection & Cancer at Ambedkar Centre for Biomedical Research, University of Delhi (North Campus), Delhi. February 16, 2013.
41. Special lecture on "Transcriptional Regulation of HR-HPV16 and Anti-HPV Therapeutics" at Center for Disease Control, Atlanta, USA. January 9, 2013.
42. Invited lecture on "Role of Transcription Factor STAT3 in Linking HPV Infection with Cervical Carcinogenesis" in Symposium on Breakthroughs in Basic and Translational Cancer Research at Delhi State Cancer Institute, Delhi. December 22, 2012.
43. Invited lecture on "Survivin as Marker of Gastric Cancer Progression and Target for Overcoming Chemoresistance" in ISCA Seminar on "Science for Shaping the Future of India" held at Punjab University, Chandigarh. November 17, 2012.
44. Invited lecture on "microRNA-Mediated Regulation of STAT3 activity in HPV-induced Cervical Carcinogenesis" in International Conference on "Genes, Genetics and Genomics: Today and Tomorrow- human concerns" and 37th Annual Conference of The Indian Society of Human Genetics (ISHG) held at Punjab University, Chandigarh, March 4, 2012.
45. Invited lecture on "Advances in Anti-Human Papillomavirus Therapeutics" in International Symposium on "Recent Advances in Cancer Research Therapeutics to Chemoprevention", Central University of Gujarat, Gandhinagar, February 08 2012.
46. Invited lecture "AOGIN-India, HPV in Men: Prevalence and Natural History", Mumbai 04 Nov 2011
47. Invited lecture on "PGMY- Reverse Line Blot- A Comprehensive HPV Genotyping Assay & its utility in STI Research in India" during World STI, Congress, IUSTI, National Science Centre, New Delhi 02 Nov 2011
48. Guest lecture on "Role of Transcription Factor STAT3 in Cervical Carcinogenesis" during International Symposium on "Cancer Research and Translational Initiatives cum Workshop on Flowcytometry" held at Punjab University, Chandigarh. October 14, 2010.
49. Invited to participate in Research Advisory Committee Meeting of Rajiv Gandhi Cancer Institute and Research Centre, Rohini, Delhi on August 28, 2009.
50. Invited as a guest faculty and resource person for WHO HPV LabNet workshop on "HPV genotyping and serology" held at National Cancer Institute, Bangkok, Thailand, August 3-7, 2009
51. Invited to deliver a lecture on "Human Papillomavirus and Cancer : Carcinogenic link beyond cervical cancer" Indian Association of Pathologists and Microbiologists- Delhi Chapter meeting held on August 01, 2009.
52. Invited to deliver a lecture on "Regional HPV Laboratory for South East Asia Under WHO Global HPV Laboratory Network (HPV LabNet)" in AOGIN-India Biennial Meeting at Kolkata, April 26th, 2009
53. Invited as Guest Faculty and deliver series of lectures for Special Course on "Tumor Immunology" for M.Sc. Programme of Ambedkar Centre for Biomedical Research, University of Delhi, Delhi March 23-26, 2009.
54. Invited to deliver a talk on "Finding Cancer Stem Cells in Cancer of the Uterine Cervix: Challenges and Opportunities" during Biogenesis II, organized by Institute of Integrative Learning and Management, Greater Noida on 28th February, 2009.
55. Invited to participate in Research Advisory Committee Meeting of Rajiv Gandhi Cancer Hospital and Research Centre, Rohini, Delhi on February 11, 2009.
56. Invited to deliver a lecture on "Dry 'Paper Smear' Method for Rapid HPV Testing" during

2nd WHO HPV Laboratory Network (LabNet) Meeting held at WHO Headquarters, Geneva, Switzerland from 17-19 November, 2008

57. Invited to deliver a talk on “Suppression of Activated STAT3 Induces p53 Accumulation and Leads to Apoptosis of Cervical Cancer Cells” during International HPV Symposium held at Rajiv Gandhi Centre of Biotechnology, Trivandrum on November 3, 2008.
58. Delivered a lecture on “Cancer Stem Cells: Role in Cervical Cancer Development and Progression” at International Symposium on Cancer Stem Cells held at Punjab University, Chandigarh. July 29, 2008.
59. Invited to deliver a talk on “Transcriptional Targeting of STAT3 in Cervical Carcinogenesis by Herbal Derivatives” in 2nd International Symposium of Translational Research on “Natural Products and Cancer” organized by Society for Translational Cancer Research at Fariyas Hotel, Lonavala, Mumbai from December 9-12, 2007
60. Invited to deliver a talk on New Horizons in HPV diagnostics: Integration of HPV on STD Chip” during ACBR-Globionic Meeting, Delhi University, Delhi, Dec 02, 2006.

Specialized Trainings and Workshop Participation

1. Participated – 5th DST Sponsored Contact Program in Molecular Biology organized by Prof. S.C. Lakhotia at Department of Zoology, Banaras Hindu University, Varanasi – July 4-15, 1995.
2. Participated - 2nd Winter School of Immunology at Trivandrum 2001.
3. Specialized training in “Safe handling of radioactive materials in research and clinical laboratories” M.D. Anderson Cancer Center, Texas, USA. August 8, 2001.
4. Participated - Indo-US Workshop on “Grantsmanship in India” New Delhi, September 6&7, 2004.
5. Participated - ICMR-MIHR workshop on “IP and Technology Management in Health” New Delhi, January 23, 2006.
6. Participated - NIMS Training workshop on Medical Statistics, New Delhi, January 9-12, 2006.
7. Specialized training during workshop on ‘spectral Confocal LASER scanning Microscopy’, Dept. of Plant Mol. Biology, South campus, Delhi University, 10-12, October 2007.
8. Participated - Workshop on “Fast HPV test”, organized by ICPO and PATH, Nov 2007
9. Specialized training in Flowcytometry and cell sorting in 9th Indo-US-Flowcytometry workshop held at Bangalore, July 2008.
10. Participated -WHO HPV LabNet workshop on HPV genotyping and serology held at National Cancer Institute, Bangkok, Thailand, August 3-7, 2009
11. Participated -Indo-US workshop on ‘Epigenetic Regulation and Genome Control’, Centre for Cellular and Molecular Biology, Hyderabad, India, December 16-18, 2009.
12. Participated -ICMR EU workshop on collaborative research in the area of cancer & Neurosciences, ICMR Head Quarters, New Delhi Feb 18-19, 2010.
13. Participated -ICMR-NRDC Workshop on “Intellectual Property and Innovation Management in Medical Research” New Delhi, Nov 11-12, 2011.

14. Specialized training of Financial Management during DST Sponsored Workshop on “Finance Management in Scientific Institution by the Scientists” Xavier’s Institute of Management, Bhubaneswar Nov 21-26, 2011.
15. Second International Next Generation Sequencing Data Analysis Workshop, University of Pune, December 10-13, 2012.
16. 15-Day Training for Comprehensive HPV Genotyping, World Health Organization (WHO) HPV Laboratory Network (LabNet), CDC Atlanta, January 2-16, 2013.

Publications Profile

Publications – Full length articles - 103; Book edited – 1; Journal special issue edited – 1; Abstracts ~ 143 (**##Corresponding Author**)

Publications with Peer Review Process (85)

1. Shukla S., Jadli M., Thakur K., Shishodia G., Mahata S., Basir SF., Das BC., **Bharti AC##** (2019). Level of phospho-STAT3 (Tyr705) correlates with copy number and physical state of human papillomavirus 16 genome in cervical precancer and cancer lesions. **PLoS One** 14(9):e0222089. PMID: 31487312
2. Rajaram, S., Sathija, P.K., Gupta, B., Arora, V.K., **Bharti, A.C.**, & Goel, N. (2019). Evaluation of Biomarkers p16/Ki-67 in Cervical Cytology for Diagnosis of Cervical Intraepithelial Neoplasia. **Ind J Gynecol Oncol**. 17: 46.
3. Rao, R., Husain, A., **Bharti, A. C.##**, & Kashyap, M. K.## (2019). Discovery of a novel connecting link between Renin-Angiotensin System and cancer in Barrett's Esophagus by Proteomic screening. **PROTEOMICS–Clinical Applications**, 1900006. PMID: 30891939 (Commentary)
4. Bhat, A., Sharma, A., & **Bharti, A. C.##** (2018). Upstream Hedgehog signaling components are exported in exosomes of cervical cancer cell lines. **Nanomedicine**, 13(17), 2127-2138. PMID: 30265222
5. Gupta, S., Kumar, P., Kaur, H., Sharma, N., Saluja, D., **Bharti, A. C.** and Das, B. (2018). Constitutive activation and overexpression of NF-kappaB/c-Rel in conjunction with p50 contribute to aggressive tongue tumorigenesis. **Oncotarget** 9(68), 33011-33029. PMID: 30250646
6. Pandey, A., Tripathi, S. C., Shukla, S., Mahata, S., Vishnoi, K., Misra, S. P., Misra, V., Mitra, S., Dwivedi, M. and **Bharti, A. C.##** (2018). Differentially Localized Survivin and STAT3 as Markers of Gastric Cancer Progression: Association with *H. pylori*. **Cancer Rep** 1:e1004.
7. Kunnumakkara AB, Sailo BL, Banik K, Harsha C, Prasad S, Gupta SC, **Bharti AC**, Aggarwal BB (2018). Chronic diseases, inflammation, and spices: how are they linked? **J Transl Med** 16(1):14. PMID: 29370858 (Review article)
8. **Bharti AC##**, Singh T, Bhat A, Pande D, Jadli M (2018). Therapeutic strategies for human papillomavirus infection and associated cancers. **Front Biosci (Elite Ed)** 10:15-73. PMID: 28930604 (Review article)
9. Shishodia G, Verma G, Das BC, **Bharti AC##** (2018). miRNA as viral transcription tuners in HPV-mediated cervical carcinogenesis. **Front Biosci (Schol Ed)** 10:21-47. PMID: 28930517 (Review article)
10. Tyagi A, Vishnoi K, Mahata S, Kaur H., Srivastava Y, Roy BG, Das BC, and **Bharti AC##** (2017) Cervical Cancer Stem Cells Manifest Radioresistance: Association with

Upregulated AP-1 Activity. **Sci Rep** 7(1):4781. PMID: 28684765

11. Verma, G., Vishnoi, K., Tyagi, A., Jadli, M., Singh, T., Goel, A., Sharma, A., Agarwal, K., Prasad, S. C., Pandey, D., Sharma, S., Mehrotra, R., Singh, S. M. and **Bharti, A. C.**^{##} (2017). Characterization of key transcription factors as molecular signatures of HPV-positive and HPV-negative oral cancers. **Cancer Med** 6(3): 591-604. PMID: 28155253
12. Vishnoi, K., Mahata, S., Tyagi, A., Pandey, A., Verma, G., Jadli, M., Singh, T., Singh, S. M. and **Bharti, A. C.**^{##} (2016). Cross-talk between Human Papillomavirus Oncoproteins and Hedgehog Signaling Synergistically Promotes Stemness in Cervical Cancer Cells. **Sci Rep** 6: 34377. PMID: 27678330
13. Vishnoi K, Mahata S, Tyagi A, Pandey A, Verma G, Jadli M, Singh T, Singh SM, **Bharti AC**^{##}. (2016) Human papillomavirus oncoproteins differentially modulate epithelial-mesenchymal transition in 5-FU-resistant cervical cancer cells. **Tumour Biol.** 37(10):13137-13154. Epub 2016 Jul 24. PMID: 27449048
14. Tyagi A, Vishnoi K, Mahata S, Verma G, Srivastava Y, Masaldan S, Roy BG, **Bharti AC**^{##}, Das BC. (2016) Cervical cancer stem cells selectively overexpress HPV oncoprotein E6 that controls stemness and self renewal through upregulation of HES1. **Clin Cancer Res.** 22(16):4170-8. PMID: 26988248
15. Naik, D., Kumar, V., Joshi, R. and **Bharti, A.C.** (2016). HPV Inflammation Mediates IL-6 through STAT3 Signaling Pathway in Different Grades of Cervical Cancer. **J Cancer Res Mol Med** 2(1): 103.
16. Talwar GP, Sharma R, Singh S, Das BC, **Bharti AC**, Sharma K, Singh P, Atrey N, Gupta JC. (2015) BASANT, a Polyherbal Safe Microbicide Eliminates HPV-16 in Women with Early Cervical Intraepithelial Lesions. **Journal of Cancer Therapy**, 6, 1163-1166
17. Gupta S, Kumar P, Kaur H, Sharma N, Saluja D, **Bharti AC**, Das BC. (2015) Selective participation of c-Jun with Fra-2/c-Fos promotes aggressive tumor phenotypes and poor prognosis in tongue cancer. **Sci Rep.** 5:16811. PMID: 26581505
18. Pandey A, Vishnoi K, Mahata S, Tripathi SC, Misra SP, Misra V, Mehrotra R, Dwivedi M, **Bharti AC**. Berberine and Curcumin Target Survivin and STAT3 in Gastric Cancer Cells and Synergize Actions of Standard Chemotherapeutic 5-Fluorouracil. **Nutr Cancer.** 2015 PMID: 26492225
19. Shishodia, G., Shukla, S., Srivastava, Y., Masaldan, S., Mehra, S. Bhambhani, S., Sharma, S. Mehrotra, R., Das, B. C. and **Bharti, A. C.**^{##} (2015). Alterations in microRNAs miR-21 and let-7a correlate with aberrant STAT3 signaling and downstream effects during cervical carcinogenesis. **Mol Cancer.** 14: 116. PMID: 26051842
20. Joshi, S., Kulkarni, V., Darak, T., Mahajan, U., Srivastava, Y., Gupta, S., Krishnan, S., Mandolkar, M. and **Bharti, A. C.** (2015). Cervical cancer screening and treatment of cervical intraepithelial neoplasia in female sex workers using “screen and treat” approach. **International Journal of Women’s Health** 7: 477-483. PMID: 25999765
21. Sharma, K., Kathait, A., Jain, A., Kujur, K., Raghuwanshi, S., **Bharti, A. C.**, Saklani, A. C. and Das, B. C. (2015). Higher prevalence of human papillomavirus infection in adolescent and young adult girls belonging to different Indian tribes with varied socio-sexual lifestyle. **PLoS One** 10(5): e0125693. PMID: 25954813
22. Lale, S. V., Kumar, A., Prasad, S., **Bharti, A. C.** and Koul, V. (2015). Folic Acid and Trastuzumab Functionalized Redox Responsive Polymersomes for Intracellular

- Doxorubicin Delivery in Breast Cancer. **Biomacromolecules**. 16(6):1736-52. PMID: 25918899
23. Mishra, A., Kumar, R., Tyagi, A., Kohaar, I., Hedau, S., **Bharti, A. C.**, Sarker, S., Dey, D., Saluja, D. and Das, B. (2015). Curcumin modulates cellular AP-1, NF-kB, and HPV16 E6 proteins in oral cancer. **Ecancermedicalsecience** 9: 525. PMID: 25932049
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29. Verma, G., Hussain, S., Singh, S. M., Das, B. C. and **Bharti, A. C.**^{##} (2013). Transcriptional Control of Human Papillomavirus in Oncogenic Transformation: Roadmap for Future Anti-cancer Therapeutics. **Perspectives in Cytology and Genetics** 16: 1-16. (Review article)
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46. Shukla, S., Shishodia, G., Mahata, S., Hedau, S., Pandey, A., Bhambhani, S., Batra, S.,

- Basir, S. F., Das, B. C. and **Bharti, A. C.**^{##} (2010). Aberrant expression and constitutive activation of STAT3 in cervical carcinogenesis: implications in high-risk human papillomavirus infection. *Mol Cancer* 9: 282. PMID: 20977777
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Other Publications/ Book Chapters (18)

1. **Bharti, A. C.^{##}** and Chhokar, A. (2019). Need for a better cervical cancer screening tool for 'elimination' of cervical cancer. *ISSRF Newsletter*. Jaipur, India, ISSRF. **24**: pp31-34.
2. Shishodia, G., Das, B. C. and **Bharti, A. C.^{##}**. (2017). Micro RNA-based Regulation during HPV Infection and Cervical Carcinogenesis: Where Do We Stand? In Human Genomics and Applications. Eds Sobti R.C., Puri S., Sharma V.L. and Bhanwer A.J.S.. Publisher Narendra Publishing House, Delhi, India, pp 21-37.
3. **Bharti, A. C.^{##}**, Vishnoi, K., Singh, S. M. and Aggarwal, B. B. (2017) Pathways Linked to Cancer Chemoresistance and Their Targeting by Nutraceuticals. In Role of Nutraceuticals in Chemoresistance to Cancer (2017), Editors: Bharti AC and Aggarwal BB. Elsevier, USA. Pp1-30
4. **Bharti, A. C.^{##}** and Rajan, P. (2017) Berberine as an Adjuvant and Sensitizer to Current Chemotherapy. In Role of Nutraceuticals in Chemoresistance to Cancer (2017), Editors: Bharti AC and Aggarwal BB. Elsevier, USA. Pp221-240.
5. Vishnoi, K., Tyagi, A., Singh, S. M., Das, B. C. and **Bharti, A. C.** (2015). Cervical Cancer Stem Cells and Their Association with Human Papillomavirus: Are They Ready as Anticancer Targets? Multi-Targeted Approach to Treatment of Cancer V. Gandhi, K. Mahta and B. B. Aggarwal. Cham (ZG), Switzerland, Springer International Publishing: pp377-399.
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10. WHO QSS (2010). Human Papillomavirus Laboratory Manual (First Edition). Geneva, World Health Organization. (**Bharti, A.C.** is one of the contributor)
11. **Bharti, A.C.**, (2008). Stem Cell Research in India. *Cancer News 2 (Sept)*, pp10.
12. Mahata, S., Shukla, S., Maru, S., Hedau, S., **Bharti A.C.**, and Das, B.C. (2009). "Elimination of HPV and control viral oncogene expression in cervical cells by herbal compounds", in "*Treatment of Advanced Stage Cancers: Current Status & Emerging Frontiers*" (Ed Talwar, G.P.) Narosa Publishing House, New Delhi pp122-130.
13. Aggarwal, B.B., **Bharti, A.C.**, and Shishodia., S. (2009). Chapter 2 – Tumor Necrosis Factor and its Family Members. In *Protein Discovery Technologies* Ed. Pasqualini, R., Arap, W.:pp15
14. Das, B.C., Sarin, S.K., Kazim, S.N., and **Bharti, A.C.** (2006). Infections Causing Cancer. In *UICC handbook – Cancer awareness, Prevention and control strategies* (Ed. Dr. S Shastri), UICC Press, Geneva, Switzerland. pp117-31.
15. **Bharti, A.C.**, Takada, Y., and Aggarwal, B.B. (2005). PARP Cleavage and Caspase Activity to Assess Chemosensitivity. In *Methods in Molecular Medicine: Chemosensitivity* (Ed. Dr. R. Blumenthal), Humana Press, NJ, USA 111: 69-78. PMID: 15911972
16. Aggarwal, B.B., Kumar, A., and **Bharti, A.C.** (2004) Therapeutic Potential of Curcumin Derived from Turmeric (*Curcuma longa*). In "*Herbal and Traditional Medicine: Molecular Basis of Health*". Eds. Packer, L., Nam Ong, C. and Halliwell, B.;pp686-711.

Full papers in conference proceedings (2)

17. **Bharti, A. C.** and Mahata, S. (2014). Anti-Human Papillomavirus Therapeutics: Opportunities and Bottlenecks. 5th National Conference of Asia Oceania Research Organization on Genital Infections and Neoplasia - India. AOGIN-INDIA. Cuttack, Orissa: pp45-50.
18. Aggarwal, B.B., **Bharti, A.C.**, Ashikawa, K.' Aggarwal, S. (2004) Identification of Blocker of Transcription Factor NF-kappa B from Natural Resources: Potential Role of Suppression of Inflammation and Cancer. Proc. of Second Int. Symp. Mol Med, Baroda, 20-23 Jan 2002; pp257-276.

Guest Editor for Special Issues

19. Co-editor of a Special Issue of Indian Journal of Medical Research (Impact Factor - 1.883) on "Human Papillomavirus and Cervical Cancer" September 2009

Books Edited

20. Role of Nutraceuticals in Chemoresistance to Cancer (2017), Editors: **Bharti AC** and Aggarwal BB. Elsevier, USA. ISBN: 978-0-12-812373-7; ISSN : 2468-3183



Conference Organization/ Presentations

Conferences, Symposia and Workshops Organized

1. 24th Annual Convention of Indian Association for Cancer Research & International Symposium on “Human Papillomavirus and Cervical Cancer” (February 9-12, 2005) (Joint Secretary)
2. Wet workshop on DBT Multicentric Task Force Project Entitled “Development of HPV Diagnostic for Early Detection of Cervical cancer” March 27-28, 2006 (Organizing Secretary)
3. Organized a corporate seminar series on “Proteomics: Cutting edge technologies and their applications” at ICPO, NOIDA. July 17, 2006 (Organizing Secretary)
4. Organized a Minisymposium on “Recent Trends in Translational Cancer Research” at ICPO, NOIDA. September 20th 2006.
5. Organized an International Symposium on “Cancer Stem Cells” at Chandigarh on 27-28th July 2008 (Organizing Secretary)
6. Organized Seminar and Training Course on “Spectral Confocal LASER Scanning Microscopy” from August 4 - 6th , 2008 (Organizer).
7. Special lecture organized on “Scatter and Shatter: Induction of centrosome declustering as a novel chemotherapeutic approach” from Prof. Ritu Aneja, Department of Biology, Georgia State University; Atlanta, GA, USA; May 11, 2012
8. Special lecture organized on “Role of Microenvironment in HPV-Induced Carcinogenesis”, Prof. Dr. Sigrun Smola, Director, Institute of Virology, University Hospital of Saarland, Homburg, Saar, Germany. February 12, 2013.
9. Organized Workshop on “Cervical Cytology and its Integration with HPV Detection” during AOGIN-India Annual Conference, at Hotel Ashoka Patliputra, October 14, 2016.
10. Organized invited lecture on “Models And Muddles Of Scientific Discoveries” by Prof. Bharat B. Aggarwal, Director, Inflammation Research Centre, San Diego, California, USA and Retired Professor of Experimental Therapeutics, Cancer Center, Houston, Texas, USA at Department of Zoology, University of Delhi. Delhi, February 6, 2017
11. Organized invited lecture on “Regulation Of Muscle Stem Cell Homeostasis And Function” by Prof. Ashok Kumar, Professor and Distinguished University Scholar. Department of Anatomical Sciences and Neurobiology, School of Medicine, University of Louisville. USA at Department of Zoology, University of Delhi. Delhi, February 10, 2017
12. Organized invited lecture on “Cancer Immunotherapy: Challenges And Recent Advances” by Prof. Anil Shanker, Associate Professor of Biochemistry and Cancer Biology, Meharry Medical College, Vanderbilt University. USA at Department of Zoology, University of Delhi. Delhi, February 10, 2017
13. Organized “Women Health and Cancer Awareness Workshop” with AOGIN-India at Miranda House, University of Delhi. Delhi, April 7, 2017
14. Organized “Women Health and Cancer Awareness Camp” with AOGIN-India and Miranda House at Delhi University Women Association, University of Delhi. Delhi April 7, 2017.
15. Organized Workshop on “Cervical Cytology and HPV Testing” during AOGIN-India Annual Conference, at Hotel Clarks Awadh, September 8, 2017.
16. Co-coordinator ‘Refresher Course in Life Sciences on “Advancement in Life Sciences leading to improvement in Agriculture environment and Human Health” organized by Centre for Professional Development in Higher Education (CPDHE), UGC Human Resource Development Centre, University of Delhi, June 28-July 11, 2019.

Number of Papers presented in conferences/Proceedings (Total -143)

1. Shanker, A., Singh, S. M. and Bharti, A. C. (1998). Mechanisms of immunosuppression in a tumor-bearing host. International Symposium on Tumor Immunology of 8th International Immunology Congress, Calcutta, West Bengal, India. October 1998.
2. Singh, S. M., Shanker, A., Khare, V. and Bharti, A. C. (1998). Mechanism of immunosuppression in tumor-bearing host: Induction of apoptosis in thymocytes and bone marrow hematopoietic cells. 6th Brainstorming Sessions in Molecular Immunology of Indian Molecular Immunology Forum, Sariska, Rajasthan, India. January 1998.
3. Bharti, A. C. and Singh, S. M. (2000). Induction of apoptosis in bone marrow cells by gangliosides produced by a T cell lymphoma. 27th Annual Conference of Indian Immunology Society, Agra, Uttar Pradesh, India. December 2000.
4. Aggarwal, B. B., Bharti, A. C., Banerjee, S., Ashikawa, K. and Shishodia, G. (2003). Nuclear factor-kappa B as a therapeutic target for chemoprevention and chemosensitization. Proceedings of the 22nd Annual Convention of the Indian Association of Cancer Research and International Symposium on Recent Advances in Cancer Causes and Control, Thiruvananthapuram, Kerala, India. January 2003.
5. Bharti, A. C., Donato, N., Singh, S. and Aggarwal, B. B. (2003a). Nuclear factor-kappa B and signal transducer and activator of transcription-3 as a therapeutic target for multiple myeloma. Trainee Recognition 2003 of The U.T. M.D. Anderson Cancer Center, Houston, Texas, USA. May 2003.
6. Bharti, A. C., Reuben, J. M., Weber, D., Alexanian, R., Talpaz, M. and Aggarwal, B. B. (2003b). Nuclear Factor-kB and STAT3 are Constitutively Active in CD138+ Myeloma Cells Derived from Patients and Their Suppression Leads to Apoptosis. 5th SASS International Conference on Emerging Concepts in Leukemia and Lymphoma, New Delhi, India. December 13-16, 2003.
7. Zheng, B., Li, Y., Georgakis, G., Bharti, A. C., McConkey, D., Aggarwal, B. B. and Younes, A. (2003). Potentiation of chemotherapy and trail-induced cell death of Hodgkin disease cell line by the proteasome inhibitor PS341. 39th Annual Meeting of American Society of Clinical Oncology, Chicago, Illinois, USA. May 31 - June 3, 2003.
8. Bharti, A. C., Panigrahi, A., Bhaumic, D., Tiwari, S. C. and Mehra, N. K. (2004). Curcumin (Diferuloylmethane) Downregulates CD4:CD8 Ratio and Expression of Interferon- γ and Interleukin-4 in T Lymphocytes from Patients Following Renal Transplantation. 12th International Congress of Immunology and 4th Annual Conference of FOCIS, Montreal, Quebec, Canada. July 18 - 23, 2004.
9. Mishra, A., Bharti, A. C., Saluja, D. and Das, B. C. (2005). Expression and Cellular Localization of NF- κ B Superfamily Members in Oral Carcinogenesis. 24th Annual Convention of Indian Association for Cancer Research and International Symposium on Human Papillomavirus and Cervical Cancer, Institute of Cytology and Preventive Oncology, Noida, India. February 9 -12, 2005, p123-124.
10. Panigrahi, A., Bharti, A. C., Gupta, N., Bhowmik, D., Dash, S. C., Tiwari, S. C., Guleria, S., Mehta, S. N. and Mehra, N. K. (2005). Curcumin (Diferuloylmethane) as an Adjuvant Immunosuppressant with Cyclosporine: An in vitro study in Live Related Renal Transplantation. 35th Annual Scientific Meeting of the Australasian Society for Immunology and 14th International HLA & Immunogenetics Workshop 'Genetics and The Immune Response', Tissue Antigens. 66: 508.
11. Prusty, B. K., Hedau, S., Mishra, A., Mahata, S., Bharti, A. C. and Das, B. C. (2005). Fos - related antigen - 1 (Fra-1) : Is it a tumor suppressor or tumor promoter? International Symposium on Translational Research : Apoptosis and Cancer, Trivendrum, India. December 18-21, 2005, p136.
12. Kaur, H., Varghese, P., Pande, S., Mishra, A., Mahata, S., Hussain, S., Kumar, R., Shukla, S., Hedau, S., Bharti, A. C. and Das, B. C. (2006). Development of Customized Microarrays for Early Diagnosis of Cervical Cancer. 2nd Medical Development Congress on "Developments in Genomics & Proteomics: its implication in health & disease" New Delhi, India. September 8-9, 2006.
13. Mahata, S., Mishra, A., Shukla, S., Hussain, S., Maru, S., Kumar, R., Tyagi, A., Hedau, S., Bharti, A. C. and Das, B. C. (2006). Molecular Targeting of Viral Oncogene Expression by Herbal Compounds. 6th Annual Symposium on Frontiers in Biomedical Research, Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi, Delhi India. November 30 - December 2, 2006.
14. Prusty, B. K., Kaur, H., Mahata, S., Varghese, P., Mishra, A., Hedau, S., Bharti, A. C. and Das, B. C. (2006). Genes and Genomics of Cervical cancer. International Symposium on "Human Genome and Public Health" and XXXI Annual Conference of Indian Society of Human Genetics, New Delhi, India. February 27 - March 1, 2006, p4.
15. Bharadwaj, M., Nasre, V., Hedau, S., Hussain, S., Kohaar, I., Thakur, N., Shukla, S., Asthana, S., Narain, R., Bharti, A. C. and Das, B. C. (2007). Prevalence of Human Papillomavirus (HPV) infection among Pre-adolescent children in India. 24th International Papillomavirus Conference and Clinical Workshop, Beijing, China November 3 - 9, 2007, p294.
16. Bharti, A. C., Vergese, P., Kaur, H., Mukhtar, U., Shukla, S., Mishra, A., Hussain, S., Mahata, S., Kumar, R., Tyagi, A., Hedau, S. and Das, B. C. (2007). Role of Transcription Factor STAT3 in Human Papillomavirus 16 (HPV16)-Induced Cervical Carcinogenesis. 26th Annual Convention of Indian Association for Cancer Research and International Symposium on Translational Research in Cancer, Bhuvaneshwar,

Orissa. January 17 -19, 2007, p74.

17. Hedau, S., Kumar, R., Tyagi, A., Hussain, S., Shukla, S., Mishra, A., Mahata, S., Bharti, A. C. and Das, B. C. (2007). No evidence of HPV infection in breast cancer as revealed by conventional as well as Real-Time PCR. 26th Annual Convention of Indian Association for Cancer Research and International Symposium on Translational Research in Cancer, Bhuvaneshwar, Orissa. January 17 -19, 2007.
18. Hussain, S., Shukla, S., Kumar, R., Kumar, U., Salam, I., Rehman, S., Basir, S. F., Bharti, A. C. , Bhat, M. A., Siddiqi, M. A. and Das, B. C. (2007a). The Role of c-Fos and Fos Related Antigen-1 (Fra-1) in the Pathogenesis of Esophageal Carcinoma. International Symposium on Genomic Instability and Cancer, Srinagar, Jammu and Kashmir, India. July 22 - 26, 2007, p40.
19. Hussain, S., Shukla, S., Mahata, S., Kumar, S., Tyagi, A., Varghese, P., Kaur, H., Mishra, A., Hedau, S., Bharti, A. C. and Das, B. C. (2007b). Analysis of Promoter Methylation of E- Cadherin Gene in Cervical Cancer. 26th Annual Convention of Indian Association for Cancer Research and International Symposium on Translational Research in Cancer, Bhubaneswar, Orissa. January 17 -19, 2007, p83.
20. Kaur, H., Varghese, P., Bharti, A. C. and Das, B. C. (2007). Genomics: Deciphering the Molecular Signature of Genes in Pathogenesis of Cervical Cancer. XIIIth All India Congress of Cytology and Genetics & International Symposium on "Genomic and Proteomic Approaches to Decipher the Molecular Basis of Pathogenesis, Department of Zoology, Osmania University, Hyderabad, India. December 28 - 30, 2007.
21. Kumar, R., Mishra, A., Mahata, S., Joshi, S., Tyagi, A., Hussain, S., Shukla, S., Hedau, S., Bharti, A. C. , Chaturvedi, M. M. and Das, B. C. (2007). Role of transcription factor Activator Protein-1 (AP-1) in breast cancer carcinogenesis. 26th Annual Convention of Indian Association for Cancer Research and International Symposium on Translational Research in Cancer, Bhubaneswar, Orissa. January 17 -19, 2007, p186.
22. Mahata, S., Mishra, A., Shukla, S., Hussain, S., Maru, S., Kumar, R., Tyagi, A., Hedau, S., Bharti, A. C. and Das, B. C. (2007). Transcriptional Targeting of Epithelial Cell Carcinoma by Herbal Derivatives. 2nd International Symposium on Translational Cancer Research, Fariyas Holiday Resort, Lonavala, Mumbai, India. December 9 - 12, 2007, p37.
23. Mishra, A., Bharti, A. C. , Varghese, P. and Das, B. C. (2007). HPV infection in oral carcinogenesis: Role of Transcription Factor NF-kB. ICGEB DNA Tumour Virus Meeting International Center for Genetic Engineering and Biotechnology, Trieste, Italy July 17-22, 2007.
24. Pande, S., Jain, N., Prusty, B. K., Hedau, S., Bharti, A. C. and Das, B. C. (2007). Molecular Variant Analysis of HPV16 in Cervical Cancer Patients from India. 30th All India Cell Biology Conference, Department of Zoology, University of Delhi, Delhi, India. February 2-4, 2007, p126.
25. Shukla, S., Hedau, S., Hussain, S., Kumar, R., Tyagi, A., Pande, S., Varghese, P., Kaur, H., Bharti, A. C. , Bharadwaj, M. and Das, B. C. (2007a). Biology of HPV and Human Cancer. 34th National Conference of Association of Clinical Biochemists of India India Habitat Center, New Delhi, India. December 17 - 20, 2007, p87.
26. Shukla, S., Hussain, S., Mahata, S., Kumar, R., Joshi, S., Tyagi, A., Mishra, A., Varghese, P., Kaur, H., Pande, S., Hedau, S., Bharti, A. C. and Das, B. C. (2007b). Development of a Rapid, Cost effective and Sensitive Multiplex PCR Assay for Detection of High Risk HPV Type 16 and 18. 30th All India Cell Biology Conference, Department of Zoology, University of Delhi, Delhi, India. February 2-4, 2007, p174.
27. Shukla, S., Hussain, S., Pande, S., Varghese, P., kaur, H., Prusty, B. K., Jain, N., Mishra, A., Bugnait, G., Katiyar, S., Gopalkrishna, V., Hedau, S., Bharadwaj, M., Bharti, A. C. and Das, B. C. (2007c). Mapping of Human Papillomaviruses Infections in Cancers and Pre-cancers of Different Organ Sites in India. 24th International Papillomavirus Conference and Clinical Workshop, Beijing, China. November 3 - 9, 2007, p216.
28. Shukla, S., Mahata, S., Prusty, B. K., Hedau, S., Das, B. C. and Bharti, A. C. (2007d). Transcriptional Targeting of STAT3 in Cervical Carcinogenesis by Herbal Derivatives. 2nd International Symposium on Translational Cancer Research, Fariyas Holiday Resort, Lonavala, Mumbai, India. December 9 - 12, 2007, p125.
29. Das, B. C., Bharti, A. C. , Mohan, A., Guleria, R., Kumar, R. and Kumar, S. (2008). Vascular endothelial growth factor (VEGF) as a marker of response to therapy in lung cancer. Indian J Cancer. pS22.
30. Hussain, S., Salam, I., Hedau, S., Bhat, M. A., Mir, M. M., Siddiqi, M. A., Basir, S. F., Bharti, A. C. and Das, B. C. (2008a). The role of Activator Protein (AP-1) in the Pathogenesis of Esophageal Cancer. 27th Annual Convention of Indian Association for Cancer Research, Networking Research to Applications & International Symposium on Frontiers in Functional Genomics, The Gujarat Cancer and Research Institute, Ahmedabad, India. February 6 – 9 , 2008, p92.
31. Hussain, S., Salam, I., Hedau, S., Gaur, K., Bhat, M. A., Mir, M. M., Siddiqi, M. A., Basir, S. F., Bharti, A. C. and Das, B. C. (2008b). Analysis of Promoter Methylation of E- Cadherin Gene in Esophageal Squamous Cell Carcinoma. HGM2008: 13th Human Genome Meeting, Hyderabad, India. September 27 - 30, 2008, p178.
32. Hussain, S., Shukla, S., Kumar, U., Tyagi, A., Mahata, S., Kumar, R., Varghese, P., Kaur, H., Sharma, A., Hedau, S., Bharadwaj, M., Bharti, A. C. , Sharma, J. K. and Das, B. C. (2008c). High Prevalence of specific

- cancers in North-East India: Effect of environmental agents. International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting, Aligarh Muslim University, Aligarh, India. January 1- 3, 2008.
33. Kumar, R., Gnanasekaran, A., Hedau, S., Varghese, P., Bharti, A. C. , Chaturvedi, M. M. and Das, B. C. (2008). Trans-activation and expression profiling of different members of AP-1 transcription factors in Breast Carcinogenesis. 27th Annual Convention of Indian Association for Cancer Research, Networking Research to Applications & International Symposium on Frontiers in Functional Genomics, The Gujarat Cancer and Research Institute, Ahmedabad, India. February 6 – 9 , 2008, p93.
 34. Kumar , S., Kumar, R., Guleria, R., Mohan, A., Bharti, A. C. and Das, B. C. (2008). Vascular Endothelial Growth Factor (VEGF) as a Marker of Response to Therapy in Lung Cancer. 3rd Asia Pacific Lung Cancer Conference Hyderabad India. December 5 - 7, 2008, p463.
 35. Mahata, S., Shukla, S., Hedau, S., Bharti, A. C. and Das, B. C. (2008a). Anti-Human Papillomavirus Therapeutics: Prospects and Future. International Symposium on Human Papillomavirus - associated Cancers: Translating Research into Cancer Prevention and Medicine, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, India. November 1 - 3, 2008, p43.
 36. Mahata, S., Shukla, S., Maru, S., Hedau, S., Bharti, A. C. , Bharadwaj, M. and Das, B. C. (2008b). Early Detection of Human Papillomavirus and Control of Cervical Cancer. Annual Convention of the Indian National Sciences Congress, Visakhapatnam, India. January 3 - 7, 2008.
 37. Shukla, S., Mahata, S., Hedau, S., Basir, S. F., Das, B. C. and Bharti, A. C. (2008a). Suppression of Activated STAT3 Induces p53 Accumulation and Leads to Apoptosis of Cervical Cancer Cells. International Symposium on Human Papillomavirus - associated Cancers: Translating Research into Cancer Prevention and Medicine, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, India. November 1 - 3, 2008.
 38. Shukla, S., Varghese, P., Mahata, S., Hussain, S., Hedau, S., Bashir, S. F., Das, B. C. and Bharti, A. C. (2008b). Aberrant Expression and activation of STAT3 in cervical carcinogenesis. 27th Annual Convention of Indian Association for Cancer Research, Networking Research to Applications & International Symposium on Frontiers in Functional Genomics, The Gujarat Cancer and Research Institute, Ahmedabad, India. February 6 – 9 , 2008, p115.
 39. Singhai, R., Mahata, S., Prusty, B. K., Bharti, A. C. and Das, B. C. (2008). Effect of Phyllanthus amarus extract on AP-1 activity in cervical cancer cells. 27th Annual Convention of Indian Association For Cancer Research, Networking Research to Applications & International Symposium on Frontiers in Functional Genomics, The Gujarat Cancer and Research Institute, Ahmedabad, India. February 6 – 9 , 2008, p127.
 40. Bharti, A. C. , Mahata, S., Shukla, S., Shishodia, G., Tyagi, A., Hedau, S. and Das, B. C. (2009a). Development of Anti-HPV Therapeutics for Prevention and Treatment of Cervical Cancer. International Conference on Emerging Trends in Biotechnology and 6th Annual convention of the Biotech Research Society, India, , Banaras Hindu University, Varanasi. 4-6th, December 2009, p064.
 41. Bharti, A. C. , Shukla, S., Hussain, S., Shishodia, G., Hedau, S., Takur, N., Bharadwaj, M. and Das, B. C. (2009b). Development of South East Asian regional HPV laboratory for monitoring HPV vaccine program under WHO's global HPV laboratory network (HPV-LabNet) at ICPO, Noida. 28th Annual Convention of Indian Association for Cancer Research and International Symposium on Emerging Challenges and Approaches in Cancer Biology, Indian Institute of Science, Bangalore, India. February 21 – 24, 2009, p79.
 42. Bharti, A. C. , Shukla, S., Hussain, S., Shishodia, G., Hedau, S., Takur, N., Bharadwaj, M. and Das, B. C. (2009c). WHO's Regional HPV Reference Laboratory. Asia Oceania research organisation on Genital Infections-India Biennial Conference, Hyatt Regency, Kolkata, India. April 25-26, 2009.
 43. Bhattacharyya, S., Raina, V., Shukla, N., Shukla, S., Kumar, R., Hedau, S., Kumar, G., Bharti, A. C. , Rath, G. and Das, B. C. (2009). Circulating tumor DNA in Plasma of Breast Cancer patients from India. American Society of Clinical Oncology Annual Meeting 2009, Orlando, Florida, USA. May 29-Jun 2, 2009, p09-AB-33985-ASCOAM.
 44. Chaudhary, A. K., Pandya, S., Shukla, S., Mehrotra, R., Bharti, A. C. , Singh, M., Sundaram, S. and Singh, M. (2009). Synergistic effect of stromelysin-1 (matrix metallo-proteinase-3) promoter -1171 5A/6A polymorphism in oral submucous fibrosis and head-neck lesions Frontiers in Prevention, Diagnosis and therapy of Cancer, Department of Pathology, Moti Lal Nehru Medical College, Allahabad, India. November 21-22, 2009.
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120. Das, B. C., Tyagi, A., Roy, B. G. and Bharti, A. C. (2016). AP-1/Fra-1 as a target for therapy promotes chemoradiosensitivity of cancer and cancer stem cell. AACR Annual Meeting New Orleans, LA. April 18, 2016, p2536.
121. Jadli, M., Srivastava, Y., Singh, T., Bhat, A., Hedau, S., Joshi, S., Kulkarni, V. and Bharti, A. C. (2016). HPV Infection and Type Specific Prevalence in Different Organ Site of Female Sex Workers of Pune, Maharashtra. 7th National Conference of Asia Oceanic Research Organisation on Genital Infections and Neoplasia-India, Hotel Ashoka Patliputra, Patna, Bihar. October 14-16, 2016.
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124. Bharti, A. C. (2017b). Cancer Research and Molecular Oncology: Current Health Challenge and Available Tools. National Conference on Biotechnological Interventions for Societal Development Department of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh. March 22, 2017.
125. Bharti, A. C. (2017c). Maintenance of Cervical Cancer Stem Cells and Chemoresistance: Viral Oncoproteins as Therapeutic Targets. Recent Advances in Regenerative Medicine, Centre for Stem Cell Tissue Engineering & Biomedical Excellence, Panjab University. March 31, 2017.
126. Bharti, A. C. (2017d). Targeting Radioresistance in Cervical Cancer by Curcumin through Combating AP-1 Activity in Cancer Stem Cells. 2nd International Conference on Nutraceuticals and Chronic Diseases Bogmalo Beach Resort, Goa September 1-3, 2017, p45.
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129. Bharti, A. C. (2018a). Central Role of Transcription Factor, AP-1 in cervical carcinogenesis: From controlling viral transcription to maintenance of cancer stemness. Trends in Biochemical and Biomedical Research: Advances and Challenges, Banaras Hindu University, Varanasi, Uttar Pradesh. February 13-15, 2018.
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131. Bharti, A. C. (2018c). Role of Viral Oncoproteins in Maintenance of Stemness in Cervical Cancer Cells and Manifestation of Chemoresistance. Regenerative Medicines and Chronic Degenerative Diseases and Role of Omics and Biomarkers in Health (3.0 Edition), Department of Zoology, University of Kerala, Thiruvananthapuram, Kerala. March 10, 2018.
132. Bhat, A., Vishnoi, K., Sharma, A., Jadli, M., Singh, T., Pande, D. and Bharti, A. C. (2018). Control of Stemness and Metastasis by Human Papillomavirus Oncoprotein E6 Through Hedgehog – GLI Signaling in Cervical Cancer. International Conference on Cell Death in Cancer and Toxicology, Indian Institute of Toxicology Research, Lucknow, Uttar Pradesh. February 20-22, 2018, p11-12.
133. Singh, T., Pande, D., Jadli, M., Bhat, A., Aggarwal, N., Thakur, K. and Bharti, A. C. (2018). Anti-Cervical Cancer and Anti-HPV Activity of Nutraceuticals & Plant Derived Homoeopathic Formulations. 3rd International Conference on Nutraceuticals and Chronic Diseases Swami Rama Himalayan University, Jolly Grant, Doiwala, Dehradun, Uttarakhand. September 14-16, 2018, p4-5.
134. Bharti, A. C., Bhat, A., Sharma, A., Jadli, M., Singh, T., Thakur, K., Bagel, K., Aggarwal, N., Yadav, J., Singh, U., Bibban, R. and Chhokar, A. (2019a). 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, India, February 08-09, 2019.
135. Bharti, A. C., Bhat, A., Yadav, J., Singh, U., Jadli, M., Singh, U., Thakur, K., Aggarwal, N., Bibban, R. and Chhokar, A. (2019b). Role of Exosomes in Carcinogenic Signaling in Cervical Cancer. National Symposium on Basic & Translational Research in Cancer Biology on "Discover New Challenges", Department of Biological Sciences and Biotechnology, Institute of Advanced Research, Koba Institutional Area, Gandhinagar, Gujarat, India, September 11-12, 2019, p7.
136. Bharti, A. C., Chhokar, A., Thakur, K., Aggarwal, N., Bibban, R., Yadav, J., Jadli, M., Singh, T. and Bhat, A. (2020). 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" and 30th Annual meeting of Indian Society for the Study of Reproduction and Fertility, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir, India, February 14 - 16, 2020, p29.
137. Bharti, A. C., Thakur, K., Aggarwal, N., Bibban, R., Jadli, M., Bhat, A., Singh, T., Bagel, K., Yadav, J., Singh, U. and Chhokar, A. (2019c). STAT3: A master regulator or prime target of HPV induced tumorigenesis. IACR2019: 38th Annual Convention of Indian Association for Cancer Research, Theme "Integrating Cancer Research into Comprehensive Disease Management: Recent Breakthroughs", Post Graduate Institute of Medical Education and Research, Hotel Mountview, Chandigarh, India, March 1 - 3, 2019, p17.
138. Bhat, A., Yadav, J., Jadli, M., Singh, T., Thakur, K., Bagel, K., Aggarwal, N., Singh, U., Bibban, R., Chhokar,

- A., Rai, Y., Bhatt, A. N., Sharma, A. and Bharti, A. C. (2019). Exosomes as Carriers of Hedgehog Signalling Components in Cervical Cancer. International Symposium on "Tumor Microenvironment and Cancer Prevention & Therapeutics", School of Life Sciences, Jawaharlal Nehru University, New Delhi, India, February 08-09, 2019.
139. Bhat, A., Yadav, J., Sharma, A., Thakur, K., Aggarwal, N., Bibban, R., Chhokar, A., Jadli, M., Singh, T., Singh, U. and Bharti, A. C. (2020). Exploration of exosomal cargo with implications in tumor progression of squamous cell carcinoma harbouring Human papillomavirus infection. 13th International Symposium on "Cancer Prevention and Treatment" School of Life Sciences, Jawaharlal Nehru University (JNU), New Delhi, India February 20 - 21, 2020, p5.
140. Jadli, M., Thakur, K., Aggarwal, N., Chhokar, A., Bibban, R., Singh, T., Bhat, A. and Bharti, A. C. (2019). Prostate cancer-induced osteoclastogenesis mediated by activators of NF- κ B signalling as model for nutraceutical screening against cancer-induced osteoporosis. International Conference on Nutraceuticals and Chronic Diseases, Indian Institute of Technology, Guwahati, Assam, India September 23-25, 2019.
141. Singh, T., Chhokar, A., Thakur, K., Bibban, R., Aggarwal, N., Jadli, M., Bhat, A. and Bharti, A. C. (2019a). Possibilities of repurposing homeopathic formulations based on *Berberis vulgaris* and *Berberis aquifolium* in treatment of cervical cancer. International Conference on Nutraceuticals and Chronic Diseases, Indian Institute of Technology, Guwahati, Assam, India, September 23-25, 2019.
142. Singh, U., Bagel, K., Yadav, J. and Bharti, A. C. (2019b). To understand molecular mechanisms of miRNA mediated drug resistance in lung cancer for their targeting by nutraceuticals. International Conference on Nutraceuticals and Chronic Diseases, Indian Institute of Technology, Guwahati, Assam, India, September 23-25, 2019.
143. Thakur, K., Chhokar, A., Aggarwal, N., Bibban, R., Yadav, J., Jadli, M., Singh, T., Bhat, A. and Bharti, A. C. (2020). Activated STAT3 signaling in cervical carcinogenesis: its role in HPV transcription, replication and integration in the host genome. TCR2020: 8th International Translational Cancer Research Conference on "Role of Inflammation and Immune System for Cancer Prevention and Treatment", Department of Biochemistry, Institute of Science, Banaras Hindu University, Varanasi, Uttar Pradesh, India, February 13 - 16, 2020, p6.

Research Projects (Major Grants/Research Collaboration)

Ongoing Extramural Research Support (2)

1. Investigation of the role of exosomes in cervical cancer angiogenesis and endothelial cell conditioning. Funded by **DST-SERB**; Role: **PI**, Total Funding: Rs. ~30 Lakhs.
2. Investigation of Molecular Mechanisms of STAT3-mediated Regulation of HPV Infection and Cervical Carcinogenesis. Funded by **ICMR**; Role: **PI**, Total Funding : Rs. **34Lakhs**.

Completed Extramural Research Support (12)

3. Investigation of Host Transcription Factors That Predispose Head and Neck Cancers to HPV16 infection. Funded by **DBT**; Role: **PI**, Total Funding : Rs. **25Lakhs**.
4. Designing a Biobank for Biological samples collected from a mega studies-**ICMR** Task force project; Duration 2012-2016; Role :**PI**. Total Funding : **Rs.37.14 Lakhs**
5. Comprehensive Molecular Study on Head and Neck Cancers. Funded by **ICMR**; Duration 2014-2017; Role:**PI**. Total Funding : **Rs.30 Lakhs. [Intramural]**
6. Multi-disciplinary approach to combat cancer by targeted drug delivery using intelligent polymeric nanoparticles. Funded by **DBT**; Duration 2010-2015; Role: Co-Investigator. Total Funding : **Rs.19.26Lakh**
7. HIV and HPV co-infection among female sex workers. Funded by **ICMR**; Duration: 2012-2014; Role: co-PI; Total Funding : **Rs.31.81Lakh**
8. Role of transcription factor YY1 in HPV16-induced cervical carcinogenesis (Under INSA Young Scientist Medal Program). Funded by **INSA**; Duration: 2010-2013; Role: PI, Total Funding : Rs. **1.5Lakh**
9. Designing a Biobank for Biological samples collected from a Mega study on Management of Acute Coronary Events (MACE) in Indians (Indo-French Collaborative Project). Funded by **ICMR-INSERM**; Duration: 2009-2012; Role: **Co-PI**. Total Funding : **Rs. 37.38Lakh**

10. Role of Transcription Factor STAT3 in Human Papillomavirus 16 (HPV16)-Induced Cervical Carcinogenesis. Funded by **DBT** Duration: 2008-2012; Role: **PI**. *Total Funding : **Rs. 45 Lakh***
11. Investigation on the clearance of human Papillomavirus infection in uterine cervix by BASANT, a polyherbal vaginal cream and CURCUMIN. Funded by **DBT**; Duration: 2007-2012; Role: **Co-PI**. *Total Funding : **Rs. 27.66Lakh***
12. Development of Regional HPV Laboratory for Monitoring HPV Vaccine Programme, Funded by **WHO** (International Grant); Duration: 2007-2010; Role: **Co-PI**. *Total Funding : **USD40,000***
13. Task force project on role of tobacco use in causation of cancer in North-East India, Funded by **ICMR**; Duration: 2005-2010; Role: **Co-PI**. *Total Funding : **Rs.58.36Lakh***
14. Task force project on role of pesticide exposure in causation of cancer in North-East India, Funded by **ICMR**, Duration: 2005-2010, Role: **Co-PI**. *Total Funding : **Rs.25.84Lakh***

Research Support Under Review for Funding (1)

15. Identification of Homoeopathic Formulations with Anti-Cervical Cancer and Anti-HPV Activity. Submitted to Central Council for Research in Homeopathy, Department of AYUSH. Role: **PI**, *Total Funding requested : **Rs. 40.7Lakh***

Awards and Distinctions

2020-2023	Member, Homeopathic Pharmacopoeia Committee, Pharmacopoeia Commission of Indian Medicine and Homeopathy, Ghaziabad, Uttar Pradesh, India
2019	Member, Review Committee for CCRH EMR projects, Central Council for Research in Homeopathy, New Delhi, India
2019	Expert Member, Institute's Specification Committee, National Institute of Cancer Prevention and Research (ICMR), Noida, Uttar Pradesh
2019	Member, Institutional Biosafety Committee (IBSC), Jamia Milia Islamia, New Delhi
2019	Expert Penalist, Vigyan Prasar programme of DST on "Cancer Chemoprevention " telecasted on Doordarshn
2019	Expert Member, Course Committee (Zoology), Chaudary Bansi Lal University, Bhiwani, Hariyana
2019	Member, Peer Review Committee, Genomics and Stem Cell Biology, Indian Council of Medical Research, New Delhi, India
2019-2021	Member, Departmental Research Committee, Department of Anthropology, University of Delhi, Delhi
2018-2021	External member, Special Committee of the School of Life Sciences
2018	Member, Vendor Development Committee (Basic Medical Scientist) of CSIR-Institute of Genomics and Integrative Biology, Delhi.
2018	Selected for INSA-CAS Bilateral Exchange program (Senior Scientist) for 2 weeks to visit China.
2018	Member, Institutional Ethics Committee (Basic Medical Scientist) of Delhi State Cancer Institute, Delhi.
2018-2021	Member, Area Advisory Board (AAB) for B.Sc. Biochemistry (H) and master's program (M.Sc.) of Molecular Medicine (MSM) run by AIMMSCR, Amity University, Noida
2017-2019	Member, Academic Committee, Translational Health Sciences and Technology Institute, Faridabad.
2017	Member, Internal Screening Committee, Technology Development Board, Department of Science and Technology (Govt. of India).
2016-2018	Member, Departmental Research Committee, Department of Genetics, University of Delhi South Campus, Delhi
2015-2021	Member, Fundamental Research Committee, Central Council for Research in Homeopathy, Deptt. of AYUSH (Govt. of India)

2015-2017	Joint Secretary, Asia Oceania research organization for Genital Infections and Neoplasia – India Chapter (AOGIN-India)
2014	Member, Scientific Advisory Committee, Talwar Research Foundation, New Delhi
2013	Selected for INSA-DFG Bilateral Exchange program (Senior Scientist) for 3 weeks at DKFZ.
2012	ICMR-International Fellowship for Senior Scientists for training visit CDC, Atlanta, USA
2011 onwards	Expert member of Institutional Technical Committee of Delhi State Cancer Institute, Delhi
2010 onwards	Adjunct Faculty Ambedkar Centre for Biomedical Research, University of Delhi, Delhi
2010 onwards	Expert member of Institutional Bio-Safety Committee of University of Delhi, Ambedkar Centre for Biomedical Research, India.
2010 onwards	Expert for DST- INSPIRE program for promotion of science in the country.
2009	Award of INSA Medal for Young Scientists in Basic and Applied Medical Sciences , Indian National Science Academy (INSA), New Delhi
2008	Nominated as Advisor to World Health Organization for WHO-HPV Laboratory Network
2008 onwards	Distinguished Faculty for Special Course in Medical Biotechnology at Miranda House, University of Delhi, New Delhi, India
2004	Travel Award by International Union of Immunology Societies, Department of Science and Technology and Talwar Research Foundation to attend International Immunology Congress at Montreal, Canada
1996	CSIR -National Eligibility Test qualified
1995	Graduate Aptitude Test Examination (Life Sciences) qualified
Association With Professional Bodies	
2013	Life Member of Indian Society of Oncology (ISO)
2009	Life member and Joint Secretary of Asia Oceania research organization for Genital Infections and Neoplasia – India Chapter (AOGIN-India).
2008	Life Member of The Cytometry Society of India.
2008	Member of International Society of Analytical Cytology.
2007	Life Member of Indian Society of Cell Biology, India.
2004	Life Member of Indian Association for Cancer Research, India.
1997	Life Member of Indian Immunology society, India.
Other Activities	
Miscellaneous Invitations :	
<ul style="list-style-type: none"> Invited as expert faculty to judge the poster session of 4th Biennial Conference of Asia Oceania Research Organization on Genital Infections, New Delhi, March 26-28, 2010. Special invitee to the Coordination Committee meeting of 1st Indian Cancer Congress 2013 held at India Expo Centre, Greater Noida, September 23, 2013. Invited to Judge the Debate on “Stem Cell Research – An Unethical Way of Saving Life” organized at Miranda House on 27th November, 2008 Invited to participate in Research Advisory Committee Meeting of Rajiv Gandhi Cancer Hospital and Research Centre, Rohini, Delhi and to present laboratory profile of ICPO, August 22, 2008. Chaired the session “Bench to Bedside: Cancer Cervix” in In 34th Annual Convention of Indian Association for Cancer Research (IACR 2015), Jaipur, Rajasthan. February 19, 2015. 	

Foreign visits for academic and research pursuit

S.No	Name of countries visited	Purpose of visit	Year & duration of visits	Financial assistance: (specify countries visited and the quantum of grant received from INSA or from other sources)
1	China (Guangzhou)	INSA-CAS Bilateral Exchange Program	2018 (2 weeks)	INSA and Chinese Academy of Sciences
2	USA (Atlanta)	ICMR-International Fellowship for Senior Scientists	2013, (15 days) Jan 2-Jan 17,	ICMR
3	GERMANY (Berlin)	27 th International Papillomavirus Conference - 17 to 22, Sept. 2011	2011 (6 days) September 17-22	INSA Young Scientist Award (100%)
4	GERMANY (Heidelberg)	CONFOCAL MICROSCOPE TRAINING	2010 (5 days) September 20-24,	LabIndia / ICMR - Approx Rs 1.5 Lakh
5	THAILAND (Bangkok)	PARTICIPATION IN THE WHO HPV LABNET WORKSHOP ON HPV GENEOTYPING AND HPV 16/18 SEROLOGY	2009, (5 days) Austust 3-7,	ICMR, plus Local hospitality by organizers
6	SWITZERLAND (Geneva)	PARTICIPATION IN THE WHO HPV LABORATORY NETWORK MEETING. TO GENEVA	2008 (3 days) November 17-19	World Health Organization
7	CANADA (Montreal)	PARTICIPATION IN THE INTERNATIONAL CONFERENCE OF IMMUNOLOGY.	2004-07-18 TO 2004-07-23 (6 days)	INSA, CSIR, TRF
8	USA (Houston)	Clayton Research Foundation – Post Doctoral Fellowship	June 2001-June 2003 (2 years)	Clayton Research Foundation

(AC BHARTI)

Signature of Faculty Memer

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.