




## Faculty Details proforma for DU Web-site

Title	<b>Prof.</b>	First Name	<b>Alok Chandra</b>	Last Name	<b>Bharti</b>	Photograph
Designation	<b>Professor</b>					
Address	<b>Molecular Oncology Laboratory, Department of Zoology, University of Delhi, Delhi.110007</b>					
Phone No Office	--					
Residence	--					
Mobile	-					
Email	<a href="mailto:bhartiac2011@gmail.com">bhartiac2011@gmail.com</a> , <a href="mailto:acbharti@zoology.du.ac.in">acbharti@zoology.du.ac.in</a>					
Web-Page						
<b>Educational Qualifications</b>						
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	
<b>Career Profile</b>						
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.					
<b>Administrative Assignments</b>						

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 015.
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.

#### 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,**

#### Research Guidance

##### **Academic Contribution:**

- **Ph.D. Guided – 11 Awarded; 3 under progress.**
- MD research- 3 awarded;
- MDS research- 1 awarded.
- UGC-DS Kothari PDF guided – 1 ongoing
- ICMR-PDF guided – 2 (complete);
- ICMR-RA guided – 1;
- CSIR-Pool Officer guided – 1;
- DST Women Scientists guided – 2;
- Pre-doctoral research (ICMR/UGC-SRF/JRF) guided -7.
- Member of the Ph.D. Doctoral Committee (AIIMS) – (2 awarded, 2 ongoing)
- M.Sc./M. Tech./M.Pharm. Project Dissertations (1 Year) - 10

- M.Sc. dissertations (6 months)- 30.
- Indian Academy of Science Summer Research Fellows – 21.
- 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-1and NF-κB in HPV Mediated Oral-Tongue Carcinoma”, University of Delhi, Delhi (June 2015) **Current Placement-** *Serving as National Post-Doctoal 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-Doctoal 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 (03):**

1. **Mohit Jadli**, University of Delhi, Delhi (2016)- HPV Infection and Type Specific Prevalence in Different Organ Site of Female Sex Workers of Maharashtra.
2. **Tejveer Singh**, University of Delhi, Delhi (2016)- Identification of anti HPV and anti-cervical cancer activity of plants derived homeopathic medicines.
3. **Anjali Bhat**, University of Delhi, Delhi (2016)- Role of exosome in cervical cancer carcinogenesis.

### **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 Gynecology, 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 Gynecology, 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 (1)**

1. **Dr. Deepti Pande**, "Alteration in redox microenvironment in HPV induced cervical carcinogenesis and its impact on key viral replicative and oncoproteins" (2016-2019) – Ongoing.

### **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 $\beta$  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.

#### **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) – (2 awarded, 2 ongoing)**

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)**

1. **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.
2. **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.
3. **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.

4. **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.
5. **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.
6. **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.
7. **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.
8. **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.
9. **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.
10. **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) (30)**

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-kB 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- $\kappa$ 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 chemoresistance 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

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

**(23)**

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 Functions 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. **Ushasi Roy**, "Excision of HPV 16 full length genome from bacterial vector pBR322 and cloning in pcDNA 3.1" Department of Genetics, University of Calcutta. June-July 2018
23. **Thotta Vinay Kumar**, "Excision of HPV 16 full length genome from bacterial vector pBR322 and cloning in pcDNA 3.1" Amrita School of Biotechnology, Amrita University. June-July 2018

#### **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. **Poonam Behra**. NISER Bhubaneshwar. (2017)

**F. Editorial Board Member:**

- Biomarker (Elsevier),
- BMC Complementary and Alternate Medicine,
- Current Traditional Medicine (Bentham Science).
- J. Biomarkers (Hindawi)

**G. Reviewer**

**a. Journals**

- Clinical Cancer Research
- Carcinogenesis,
- Microbes and Infection,
- Indian Journal of Medical Research,
- Molecular and Cellular Biochemistry,
- International Immunopharmacology,
- Tumor Biology
- DNA and Cell Biology

**b. Funding Agencies**

- Department of Biotechnology (Govt. of India)
- Department of Science and Technology (Govt. of India)
- Indian Council of Medical Research, (Govt. of India)
- Council of Scientific and Industrial Research, (Govt. of India)
- Central Council of Research in Homeopathy (AYUSH, Govt. of India)
- Technology Development Board, (Govt. of India)
- Kerala State Council for Science, Technology & Environment

**H. Recent Invited Lectures (116)**

**Guest Faculty Lectures in Universities at Graduate and Post-graduate Level (40)**

1. 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).
2. 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.
3. 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.
4. Guest faculty lecture on “Stem Cells in Regenerative Medicine and Cancer Research” at Miranda House, University of Delhi, Delhi, October 05, 2017.
5. 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.
6. Guest faculty lecture on “Targeting Human Papillomavirus Infection and Cervical Cancer by Herbal Derivatives” Department of Botany, University of Calcutta, Kolkata, March 16, 2017.
7. Guest faculty lecture on “Basic Cancer Biology and Molecular Oncology” Department of Botany, University of Calcutta, Kolkata, March 15, 2017.
8. Guest faculty lecture on “Gene Manipulation and Genomics” Department of Botany, University of Calcutta, Kolkata, March 14, 2017.
9. 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.
10. 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.
11. Guest faculty lecture on “Stem Cells in Regenerative Medicine and Cancer Research” at Miranda House, University of Delhi, Delhi, September 14, 2016.
12. Guest faculty lecture on “Stem Cells in Regenerative Medicine and Cancer Research” at Miranda House College. University of Delhi. June 09, 2016.
13. Guest faculty lecture on “Transcription Factors as Anti-Cancer Therapeutic Targets” at Miranda House, University of Delhi, Delhi, October 8, 2015.
14. 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.
15. 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.
16. Guest faculty lecture on “Stem Cells: Basics and Applications” at Miranda House, University of Delhi, Delhi, September 24, 2014
17. 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.
18. 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.
19. 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.
  20. Guest faculty lecture on “Stem Cells: Basics and Applications” at Miranda House, University of Delhi, Delhi, October 12, 2012
  21. Guest faculty lecture on “Apoptosis, Necrosis, Proapoptotic and Anti-apoptotic Genes” at Ambedkar Centre for Biomedical Research, University of Delhi, Delhi, October 12, 2012
  22. Guest faculty lecture on “Oncogenes and Tumor Suppressor Genes” at School of Biotechnology, Banaras Hindu University, Varanasi, September 28, 2012
  23. Guest lecture on “Link between Inflammation & Cancer, Role of Transcription Factors & other Inflammatory mediators”, SBT BHU- 29 Feb 2012
  24. Guest lecture on “Tumor Immunology”, SBT BHU- 28 Feb 2012
  25. 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.
  26. Guest faculty lecture on “Stem Cells, Basics & Applications”, Miranda House, DU 14 Oct 2011
  27. Guest faculty lecture on “Apoptosis”. ACBR, DU Sept 2011
  28. 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.
  29. Guest faculty lecture on “Tumor Virology” at Ambedkar Centre for Biomedical Research, University of Delhi, Delhi, July 13, 2011.
  30. 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.
  31. 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.
  32. Guest faculty lecture on “Apoptosis, Necrosis, Proapoptotic & anti-apoptotic genes”, SCBT BHU, 11 Feb 2011
  33. Guest faculty lecture on “Apoptosis, Necrosis, Proapoptotic & anti-apoptotic genes”, ACBR, DU, 12 Nov 2010
  34. Guest faculty lecture on “Molecular Cancer Diagnostics” at Miranda House, University of Delhi, Delhi, November 8, 2010.
  35. Guest faculty lecture on “Stem Cells: Implications in Oncology” at Miranda House, University of Delhi, Delhi, September 28, 2010.
  36. 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.
  37. 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.
  38. 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

39. 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.
40. 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 (28)**

1. Invited lecture on “Cancer: An Enemy Within” in INSPIRE Science Camp at Arunachal University of Studies, Namsai. January 30, 2017.
2. Invited lecture on “Cancer: How I Can Contribute To Its Prevention And Control” in INSPIRE Science Camp at Columbia College, Raipur. December 27, 2016.
3. Invited lecture on “Cancer and Cancer Research in India” in INSPIRE Science Camp at Institute of Management Technology, Meerut. November 23, 2016.
4. Invited lecture on “Cancer A Lifestyle Disease? Cancer Prevention A Lifestyle Approach!!” in INSPIRE Science Camp at Hi Tech Institute, Ghaziabad. September 20, 2016.
5. Invited lecture on “Let’s Talk About Cancer” in DST-INSPIRE program at Maharana Pratap College of Allied Sciences, Gwalior, MP. August 27, 2016.
6. 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.
7. Invited lecture on “Cancer: Is it Really Fatal” in DST-INSPIRE program at RKGEC, Ghaziabad. January 19, 2016.
8. Invited lecture on “Cancer: More We Learn Less We Know” in INSPIRE Science Camp at Hi Tech Institute, Ghaziabad. January 16, 2016.
9. 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.
10. 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.
11. Invited lecture on “Cancer” in Safdarjung Lioness Club, Delhi. July 18, 2015.
12. 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.
13. Invited lecture on “KNOW Cancer for NO Cancer” in DST-INSPIRE program at Vedant College of Engineering & Technology, Bundi, Rajasthan, November 18, 2014.
14. 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.
15. 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.
16. 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.
17. 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.
18. Invited lecture on “KNOW Cancer for NO Cancer” in DST-INSPIRE program at Amity University Rajasthan, Jaipur. December 17, 2013.
  19. Invited lecture on “Mystical World of Cancer: Myths and Facts” in DST-INSPIRE program at CCP, Raipur. November 14, 2013.
  20. 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.
  21. 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.
  22. 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.
  23. 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.
  24. Invited lecture on “Basics of Cancer and Cancer Research” in DST-INSPIRE program at Selvam Institute, Namakkal. November 7, 2012.
  25. Invited lecture on “Basics of Cancer and Cancer Research” in DST-INSPIRE program at DCS College, Mathura. September 6, 2012.
  26. Invited lecture on “Stem Cell Technology: The New Era of Biotechnology” in DST-INSPIRE program at Krishna College, Bijnor. May 15, 2012.
  27. Invited lecture on “Basics of Cancer and Cancer Research” in DST-INSPIRE program at Bharat Institute, Kurukshetra. April 2, 2012.
  28. 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 (48)**

1. 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 .
2. 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.
3. 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.
4. 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.
5. Bharti AC. Targetting radioresistance in cervical cancer by curcumin through combating AP-1 activity in cancer stem cell. International conference on nutraceuticals and chronic disease 1-3rd Sep 2017.
6. 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.
7. 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.
  8. 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.
  9. 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.
  10. Invited lecture “Methods of HPV Testing- Practical Aspects”, 12th Annual conference of ISCCP, at Maulana Azad Medical College, New Delhi March 3, 2017.
  11. 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.
  12. 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.
  13. Invited lecture “Epidemiology of HPV Types Amongst General Population And Genital Cancer”, AOGIN-India Annual Conference, at Hotel Ashoka Patliputra, October 15, 2016.
  14. 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.
  15. 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.
  16. 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.
  17. 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.
  18. Invited lecture “MicroRNA-mediated Regulatory Loops Promote Carcinogenic Signaling in Cervical Cancer”, AOGIN-India Annual Conference, Christian Medical College, Vellore August 28, 2015.
  19. 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.
  20. 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
  21. 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

22. 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
23. Invited lecture on “Host Transcription Factors as Cofactors of Cervical Carcinogenesis: Role of STAT3”, AOGIN-India, Cuttack. September 14, 2014
24. 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.
25. 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.
26. 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.
27. 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
28. 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.
29. 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.
30. Special lecture on “Transcriptional Regulation of HR-HPV16 and Anti-HPV Therapeutics” at Center for Disease Control, Atlanta, USA. January 9, 2013.
31. 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.
32. 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.
33. 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.
34. 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.
35. Invited lecture “AOGIN-India, HPV in Men: Prevalence and Natural History”, Mumbai 04 Nov 2011
36. 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

37. 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.
38. Invited to participate in Research Advisory Committee Meeting of Rajiv Gandhi Cancer Institute and Research Centre, Rohini, Delhi on August 28, 2009.
39. 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
40. 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.
41. 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
42. 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.
43. 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.
44. Invited to participate in Research Advisory Committee Meeting of Rajiv Gandhi Cancer Hospital and Research Centre, Rohini, Delhi on February 11, 2009.
45. 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
46. 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.
47. 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.
48. 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
49. 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.

#### **I. 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, Bhubaneshwar 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 99; Abstracts ~ 105 (**##Corresponding Author**)

#### Publications with Peer Review Process (80)

1. 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.
2. 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.
3. **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.
4. 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.
5. 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.
6. 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.**<sup>##</sup> (2017). Characterization of key transcription factors as molecular signatures of HPV-positive and HPV-negative oral cancers. **Cancer Med** 6(3): 591-604.
  7. Vishnoi, K., Mahata, S., Tyagi, A., Pandey, A., Verma, G., Jadli, M., Singh, T., Singh, S. M. and **Bharti, A. C.**<sup>##</sup> (2016). Cross-talk between Human Papillomavirus Oncoproteins and Hedgehog Signaling Synergistically Promotes Stemness in Cervical Cancer Cells. **Sci Rep** 6: 34377.
  8. Vishnoi K, Mahata S, Tyagi A, Pandey A, Verma G, Jadli M, Singh T, Singh SM, **Bharti AC**<sup>##</sup>. (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
  9. Tyagi A, Vishnoi K, Mahata S, Verma G, Srivastava Y, Masaldan S, Roy BG, **Bharti AC**<sup>##</sup>, 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
  10. 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.
  11. 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
  12. 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
  13. 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
  14. Shishodia, G., Shukla, S., Srivastava, Y., Masaldan, S., Mehra, S. Bhambhani, S., Sharma, S. Mehrotra, R., Das, B. C. and **Bharti, A. C.**<sup>##</sup> (2015). Alterations in microRNAs miR-21 and let-7a correlate with aberrant STAT3 signaling and downstream effects during cervical carcinogenesis. **Mol Cancer.** 14: 116.
  15. 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.
  16. 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. [Pubmed]
  17. 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. [Pubmed]
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### Other Publications/ Book Chapters (17)

81. Shishodia, G., Das, B. C. and **Bharti, A. C.**<sup>##</sup>. (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.
82. **Bharti, A. C.**<sup>##</sup>, 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. (In press)
83. **Bharti, A. C.**<sup>##</sup> 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. (In press)
84. **Bharti, A.C.**<sup>##</sup>, Singh, T., Bhat, A. Pande, D. and Jadli, M. (2017). Therapeutic strategies for human papillomavirus infection and associated cancers. *Frontiers in Biosciences*. (In press)
85. Shishodia, G., Verma, G., Das, B. C. and **Bharti, A. C.**<sup>##</sup>. (2017). MiRNA as Viral Transcription Tuners in HPV-mediated Cervical Carcinogenesis *Frontiers in Biosciences*. (In press)
86. 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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89. **Bharti, A. C.** and Shishodia, G. (2014). Human Papillomavirus Detection Methods. Cervical Cytopathology. S. Bhambhani. New Delhi, Mehta Press. pp135-147.

90. Shishodia, G., Gupta, S., Das, B. C. and **Bharti, A. C.** (2012). Cervical Cancer, HPV Infection and its Genotypes in India: Prospects of Prevention Strategies. *ISSRF Newsletter*. Jaipur, India, ISSRF. **12**: pp9-12.
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92. **Bharti, A.C.**, (2008). Stem Cell Research in India. **Cancer News 2 (Sept)**, pp10.
93. 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.
94. 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
95. 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.
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#### **Full papers in conference proceedings (2)**

98. **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.
99. 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**

100. 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**

101. Role of Nutraceuticals in Chemoresistance to Cancer (2017), Editors: **Bharti AC** and Aggarwal BB. Elsevier, USA

## Conference Organization/ Presentations

### *Conferences, Symposia and Workshops Organized*

1. 24<sup>th</sup> 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.

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**Bharti, A. C.** (2012a). Advances in Anti-Human Papillomavirus Therapeutics. Recent Advances in Cancer Research Therapeutics and Chemoprevention School of Lifesciences, Central University of Gujrat, Gandhinagar, Gujrat, Central University of Gujrat. February 8-9, 2012

**Bharti, A. C.** (2012b). Role of Transcription Factor STAT3 in Linking HPV Infection and Cervical Carcinogenesis. Symposium on breakthroughs in basic and translational cancer research, New Delhi, Delhi State Cancer Institute. December 22-23, 2012

**Bharti, A. C.**, Srivastava, Y., Masaldan, S., Mohanty, S., Pias, P., Khullar, M. and Sharma, M., for ICMR MACE-Biobank study group. (2012). Establishment of ICMR-MACE Biobank Using Samples Collected from Megastudy

on Acute Coronary Events in Indians. INDO-US Symposium Industry – Academia Interaction in Diabetes & Cardiovascular Disease (CVD) Drug Discovery, Institute of Medical Sciences, Banaras Hindu University, Varanasi. December 4-5, 2012

Das, B. C., Tyagi, A., Kumar, R., **Bharti, A. C.** and Singh, R. K. (2012). Curcumin-folate conjugate for increased bioavailability and targeted delivery of curcumin to cancer cells. American Association of Cancer Research 103rd Annual Meeting 2012, Chicago, IL, Cancer Res. March 31, April 4, 2012

Hedau, S., Akhouri, V., Sinha, R., Kumar, U., Doval, D. C., Kumar, K., Das, B. C. and **Bharti, A. C.** (2012). P16(INK4a) promoter methylation and expression in sporadic breast cancer. Third international conference of Carcinogenesis Foundation Frontiers in Carcinogenesis & Preventive Oncology Molecular Mechanisms to Therapeutics, Dr. Ram Manohar Lohia Hospital - PGIMER, New Delhi, India, Carcinogenesis Foundation November 19-21, 2012

Pandey, A., Mahata, S., Shukla, S., Vishnoi, K., Misra, V., Dwivedi, M. and **Bharti, A. C.** (2012). Survivin as marker of gastric cancer progression and target for overcoming chemoresistance. Indian Science Congress Association seminar on Science for Shaping the future of India, Punjab University, Chandigarh, Punjab University. November 17-18, 2012

Shishodia, G., Shukla, S., Das, B. C. and **Bharti, A. C.** (2012). microRNA-Mediated Regulation of STAT3 activity in HPV Induced Cervical Carcinogenesis. International Symposium on Cancer Biology and Flowcytometry, Panjab University, Panjab University. March 2012

**Bharti, A. C.** (2013). STAT3: A key transcriptional regulator in HPV16-induced cervical carcinogenesis. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhbai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

**Bharti, A. C.** and Mahata, S. (2013). Herbal derivatives as anti-cancer therapeutics. International Symposium on "Frontiers in Cancer Research: Prevention to Therapeutics, Amity University Uttar Pradesh, Noida, India, Amity University Uttar Pradesh. November 15-16, 2013

**Bharti, A. C.**, Verma, G., Vishnoi, K., Mahata, S., Shukla, S., Shishodia, G., Tyagi, A., Pandey, A., Pande, S., Srivastava, Y., Masaldan, S., Hedau, S. and Das, B. C. (2013). Transcriptional Control of Human Papillomavirus in Malignant Transformation. 16th All India Congress of Cytology and Genetics and National Symposium on "Gene, Environment and Health", Department of Botany, University of Kerala, Kariyavattom, Thiruvananthapuram, Kerala, India. October 22-24, 2013

Gupta, S., Kumar, P., Sharma, N., **Bharti, A. C.**, Kaur, H. and Das, B. C. (2013). The role of NF-Kb during HPV mediated tongue carcinogenesis. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhbai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

Hedau, S., Kumar, U., Rani, M., Mukherjee, U., Kadyaprath, G., Das, B. C. and **Bharti, A. C.** (2013). Promoter hypermethylation of HIC-1 and p16 genes in sporadic breast cancer. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhbai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

Kumar, P., Gupta, S., Mehta, S., Sharma, N., **Bharti, A. C.**, Kaur, H. and Das, B. C. (2013). Selective Participation of Fos-Related Antigen-2 Promotes Aggressive Tumor Progression and Metastasis in Tongue Carcinogenesis. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhbai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

Mahata, S., Vishnoi, K. and **Bharti, A. C.** (2013a). Interference with HhG1 signaling inhibits HPV oncogenes in cervical cancer cells. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhkhai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

Mahata, S., Vishnoi, K., Verma, G., Singh, S. M., Das, B. C. and **Bharti, A. C.** (2013b). Anti-cancer Phytochemicals: Molecular Targets and Downstream Effects on Cell Cycle and Apoptosis Ranbaxy Science Foundation 30th Round Table Conference on "Lifestyle and Cancer with focus on Cancer Prevention", All India Institute of Medical Sciences, New Delhi, India, Ranbaxy Science Foundation, New Delhi. November 30, 2013

Maru, S., Mahata, S., **Bharti, A. C.** and Das, B. C. (2013). Control of oncogenic expression of HPV by modulating AP-1 complex and inducing apoptosis in cervical cancer cells by a herbal remedy used by tribals of M.P. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhkhai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

Pande, S., Joshi, C., Vishnoi, K., Mahata, S., Hedau, S. and **Bharti, A. C.** (2013). Expression profiling of transcription factor YY1 in cervical cancer and its therapeutic targeting. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhkhai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

Pandey, A., Mahata, S., Shukla, S., Vishnoi, K., Mishra, V., Dwivedi, M. and **Bharti, A. C.** (2013). Survivin as marker of gastric cancer progression and target for overcoming chemoresistance. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhkhai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

Shishodia, G., Shukla, S., Mehta, S., Das, B. C. and **Bharti, A. C.** (2013). Activation of microRNA-mediated STAT3-regulatory loop on clinically-advanced cervical cancer lesions. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhkhai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

Tyagi, A., Duhan, R. K., Srivastava, Y., Kaur, H., **Bharti, A. C.** and Das, B. C. (2013a). Curcumin inhibits AP-1 mediated Breast Cancer Stem-like Cells Showing Altruistic Effect: towards Targetting Cancer Stem Cells with Phytochemicals. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhkhai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

Tyagi, A., Verma, G., Kaur, H., Mishra, A., Mahata, S., **Bharti, A. C.** and Das, B. C. (2013b). HPV E6 oncogene silencing alters self renewal ability of cervical cancer stem-like cells mediated through HES1. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhkhai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer Research. February 13-16, 2013

Vishnoi, K., Tyagi, A., Mahata, S., Singh, S. M. and **Bharti, A. C.** (2013). Association between expression of HPV E6 oncogene and stemness related pathways in cervical cancer stem cells. 32nd Annual Convention of Indian Association for Cancer Research on Emerging Trends in Cancer Research: Toad to Prevention and Cure and An International Symposium on Infection and Cancer, Paintal Memorial Golden Jubilee Auditorium, Vallabhkhai Patel Chest Institute, Delhi University, Delhi, India, Indian Association for Cancer

Research. February 13-16, 2013

Gupta, S., Kumar, P., Singh, S., **Bharti, A. C.** and Das, B. C. (2014). Infection of Human Papillomavirus (HPV) in Pregnant Women and its Transmission to Infants. 33rd Annual Convention of Indian Association for Cancer Research: "Discovery, Innovation and Translation in Cancer Research", Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, India, Indian Association for Cancer Research. February 13-15, 2014

Tyagi, A., **Bharti, A. C.** and Das, B. C. (2014a). Targeting of Cancer Stem Cells by Phytoconjugates. 5th International Conference on Translational Cancer Research :Multi- Targeted Approach to Treatment of Cancer, Vigyan Bhawan, New Delhi, India, Delhi State Cancer Institutes, Delhi, India. February 6 -9, 2014

Tyagi, A., Vishnoi, K., Mahata, S., Verma, G., Kaur, H., Das, B. C. and **Bharti, A. C.** (2014b). Role of HPV in Maintaining Cervical Cancer Stem Cells- Targeting by Curcumin. 5th International Conference on Translational Cancer Research: Multi- Targeted Approach to Treatment of Cancer, Vigyan Bhawan, New Delhi, India, Delhi State Cancer Institutes, Delhi, India. February 6 -9, 2014.

**Bharti, A.C.**, Shukla, S., Mahata, S., Shishodia, S., Vishnoi, K., Verma, G., Pandey, A., Mahata, S., Tyagi, A. and Das, B. C. (2014). Host Transcription Factors as Co-factor of Carcinogenesis in Cervical Cancer: Role of STAT3. AOGIN INDIA 2014, Odisha, Cuttack, Asia Oceania Research Organisation on Geital Infections & Neoplasia India, September 12- 14, 2014

**Bharti, A.C.** and Mehrotra, R. (2014). Biobank at the Institute of Cytology and Preventive Oncology, Noida. Mumbai Biobanking Workshop 2014, November 19-21, 2014.

**Bharti, A.C.**, Vishnoi, K., Tyagi, A., Singh, S. M. and Das, B. C. (2014). Cervical Cancer and HPV Infection: Targeting Cancer Stem Cells by Herbal Anti-cancer Derivatives. 41st Annual Conference of association of Clinical Biochemist of India (ACBICON 2014), Jodhpur, India, Indian Journal of Clinical Biochemistry, December 10-13, 2014.

**Bharti, A.C.**(2015) Human Papillomavirus and Cervical Cancer: Molecular Biology at the fulcrum of Disease Diagnostics and Emerging Therapeutics. IIT Gowahati, February 4-8, 2015.

Prasad, S.B. and **Bharti, A.C.**(2015). Blocking STAT3 signaling abrogates epithelial mesenchymal transition in Cervical Cancer cells. 34th Annual Convention of Indian Association for Cancer Research, Jaipur. February 19-21, 2015

Hedau, S., Sahu, R.K., Sinha, R., Kumar, K., Doval, D.C. Sureshkumar, R., and **Bharti, A.C.** (2013). Promoter hypermethylation of tumor suppressor genes BRCA1, p16, and HIV-1 in breast cancer. 34th Annual Convention of Indian Association for Cancer Research. Jaipur February 19-21, 2015

Das, B. C., Tyagi, A., Vishnoi, K., Mahata, S., Verma, G. and **Bharti, A.C.** (2015). Role of HPV E6 oncoprotein in the maintenance of cervical cancer stem cells. AACR Annual Meeting: bringing Cancer Discovery to patients, Philadelphia, American Association for Cancer Research April 18-22.

Das BC, Tyagi A, Roy BG, **Bharti AC.** AP-1/Fra-1 as a target for therapy promotes chemoradiosensitivity of cancer and cancer stem cell. AACR Annual Meeting , American Association for Cancer Research April 18, 2016

**Bharti AC,** Singh T, Jadli M. Targeting Human Papillomavirus Infection and Cervical Cancer by Herbal Derivatives. International Conference on Nutraceuticals and Chronic Diseases September 9-11, 2016

**Bharti AC,** Vishnoi K, Tyagi A, Mahata S, Pandey A, Verma G, Jadli M, Singh T, Singh SM. HPV viral oncoproteins: Role beyond cervical cancer initiation and progression. 12<sup>th</sup> international conference of the Asian Clinical Oncology Society CANCER IN ASIA: Bridging the gaps . April 8-10<sup>th</sup> 2016

**Bharti AC.** Targetting radioresistance in cervical cancer by curcumin through combating AP-1 activity in cancer stem cell. International conference on nutraceuticals and chronic disease. Goa. Sep 1-3rd 2017.

A. Bhat, K. Vishnoi, A. Sharma, M. Jadli, T. Singh, D. Pande & **A. C. Bharti.** Control of stemness and metastasis by Human Papillomavirus oncoprotein E6 through hedgehog – GLI signaling in cervical cancer. Cancer medicine doi: 10.1002/cam4.1413. Cell death in cancer and toxicology. IITR Lucknow February 20-22, 2018

**Miscellaneous Invitations :**

- 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	USA (Atlanta)	ICMR-International Fellowship for Senior Scientists	2013, (15 days) Jan 2-Jan 17,	ICMR
2	GERMANY (Berlin)	27 <sup>th</sup> International Papillomavirus Conference - 17 to 22, Sept. 2011	2011 (6 days) September 17-22	INSA Young Scientist Award (100%)
3	GERMANY (Heidelberg)	CONFOCAL MICROSCOPE TRAINING	2010 (5 days) September 20-24,	LabIndia / ICMR - Approx Rs 1.5 Lakh
4	THAILAND (Bangkok)	PARTICIPATION IN THE WHO HPV LABNET WORKSHOP ON HPV GENEOTYPING AND HPV 16/18 SEROLOGY	2009, (5 days) August 3-7,	ICMR, plus Local hospitality by organizers
5	SWITZERLAND (Geneva)	PARTICIPATION IN THE WHO HPV LABORATORY NETWORK MEETING. TO GENEVA	2008 (3 days) November 17-19	World Health Organization
6	CANADA (Montreal)	PARTICIPATION IN THE INTERNATIONAL CONFERENCE OF IMMUNOLOGY.	2004-07-18 TO 2004-07-23 (6 days)	INSA, CSIR, TRF

7	USA (Houston)	Clayton Foundation Doctoral Fellowship	Research – Post	June 2003 (2 years)	2001-June	Clayton Foundation	Research
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#### Research Projects (Major Grants/Research Collaboration)

##### **Ongoing Extramural Research Support (2)**

1. Investigation of Molecular Mechanisms of STAT3-mediated Regulation of HPV Infection and Cervical Carcinogenesis. Funded by **ICMR**; Role: **PI**, *Total Funding : Rs. 34Lakhs.*
2. Investigation of Host Transcription Factors That Predispose Head and Neck Cancers to HPV16 infection. Funded by **DBT**; Role: **PI**, *Total Funding : Rs. 25Lakhs.*

##### **Completed Extramural Research Support (12)**

3. 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*
4. Comprehensive Molecular Study on Head and Neck Cancers. Funded by **ICMR**; Duration 2014-2017; Role:**PI**. *Total Funding : Rs.30 Lakhs. [Intramural]*
5. 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*
6. HIV and HPV co-infection among female sex workers. Funded by **ICMR**; Duration: 2012-2014; Role: co-PI; *Total Funding : Rs.31.81Lakh*
7. 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*
8. 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*
9. 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*
10. 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*
11. 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*
12. 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*
13. 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 (2)**

14. Identification of Homoeopathic Formulations with Anti-Cervical Cancer and Anti-HPV Activity. Submitted to Central Council for Research in Homeopathy, Department of

AYUSH. Role: <b>PI</b> , <i>Total Funding requested : Rs. 40.7Lakh</i>	
15. Investigation of the role of exosomes in cervical cancer angiogenesis and endothelial cell conditioning Submitted to SERB, Department of Science and Technology (GOI). Role: PI, <i>Total Funding requested : Rs. 67Lakh</i>	
<b>Awards and Distinctions</b>	
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.
2017	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	Member, Departmental Research Committee, Department of Genetics, University of Delhi South Campus, Delhi
2015	Member, Fundamental Research Committee, Central Council for Research in Homeopathy, Deptt. of AYUSH (Govt. of India)
2015	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 <b>INSA-DFG Bilateral Exchange program</b> (Senior Scientist) for 3 weeks at DKFZ.
2012	<b>ICMR-International Fellowship for Senior Scientists</b> 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	<b>Expert for DST- INSPIRE program</b> for promotion of science in the country.
2009	Award of <b>INSA Medal for Young Scientists in Basic and Applied Medical Sciences, Indian National Science Academy (INSA), New Delhi</b>
2008	Nominated as <b>Advisor to World Health Organization for WHO-HPV Laboratory Network</b>
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	<b>CSIR -National Eligibility Test qualified</b>
1995	Graduate Aptitude Test Examination (Life Sciences) qualified
<b>Association With Professional Bodies</b>	
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.
<b>Other Activities</b>	