

Name: Dr. Mausumi Bharadwaj

Designation: Scientist G

Division/Department: Molecular Biology Group/
Division of Molecular Genetics & Biochemistry



Educational Qualification:

Institution	Degree	Field Of Study	
University of Calcutta, Calcutta	B.Sc.(Hons)	Chemistry	1984
University of Calcutta, Calcutta	M.Sc.	Biochemistry	1986
CSIR-Indian Institute of Chemical Biology, Calcutta	Ph.D. (Degree awarded from Jadavpur University)	Life Sciences	1993

Work Experience:

Department of Microbiology & Immunology, The Chicago Medical School, Illinois, USA	Postdoctoral Fellowship	1993-1995	Infectious Disease
Department of Pathology, University of New Mexico School of Medicine Albuquerque, USA.	Research Associate	1995-1998	Infectious Disease / Molecular Virology
Department of Pathology, University of New Mexico, School of Medicine, Albuquerque, USA.	Assistant Professor in Research	1998-2000	Infectious Disease / Molecular Virology
GenoMed (CSIR-IGIB-NPIL knowledge alliance), Institute of Genomics & Integrative Biology (CSIR), Delhi, India.	Senior Scientist	2001-2003	Disease Genomics
ICMR-NICPR, Division of Molecular Genetics & Biochemistry	Scientist D	2003-08	HPV associated cancers: (i) cervical, oral and prostate cancers- Genetics & Epigenetics (ii) second generation HPV vaccine

<p>ICMR-NICPR, Molecular Biochemistry</p> <p>Division Genetics</p> <p>of &</p>	<p>Scientist E</p>	<p>2008-13</p>	<p>development.</p> <p>1.HPV associated cancers: (i) cervical, oral, prostate and colorectal cancers - Genetics & Epigenetics (ii) second generation HPV vaccine development. 2. Investigation of anticancer properties of medicinal plants and spices.</p>
<p>ICMR-NICPR, Molecular Biochemistry</p> <p>Division Genetics</p> <p>of &</p>	<p>Scientist F</p>	<p>2013-18</p>	<p>1. HPV associated cancers - cervical, oral, prostate and colorectal cancers - Genetics & Epigenetics 2. Investigation of anticancer properties of medicinal plants and spices. 3. Smokeless Tobacco related oral microbiome.</p>
<p>ICMR-NICPR, Molecular Biochemistry</p> <p>Division Genetics</p> <p>of &</p>	<p>Scientist G</p>	<p>2018-present</p>	<p>1. HPV associated cancers Oral, prostate and endometrial cancers - Genetics & Epigenetics 2. Smokeless Tobacco related oral microbiome.</p>

Research Interests:

More than 30 years research experience. Major research areas are: Investigation of Molecular signature in Human Papillomavirus (HPV) associated cancers e.g. cervical cancer, oral and prostate cancer; Investigation of Molecular biomarkers for endometrium cancer, reproductive tract infections and oral cancer; Development of second generation HPV vaccines; Study on noncoding RNA biology : microRNA and long non-coding RNA.

Investigation of anticancer properties of medicinal plants and spices. Smokeless Tobacco associated oral Microbiome.

Membership of Professional Societies:

- Human Genome Organization (HUGO), London.
- Indian Association for Cancer Research (IACR).
- Society of Biological Chemists (SBC)
- International Human Papillomavirus Society (IPVS)

Fellowships/Awards/Patents (academic/national/international):

Fellowships:

- Elected as Fellow of West Bengal Academy of Science and Technology (FAScT), 2020.
- Elected as Fellow of National Academy of Sciences India (FNASc.), 2015.

Awards :

- Travel award from the 45th Annual Meeting of the American Society of Tropical Medicine and Hygiene held in Baltimore, Maryland, USA. 1996.
- Junior Research Fellowship (JRF), CSIR - NET
- National Merit Award for securing high position (with in 100) in Secondary Exam from W.B Secondary Board in 1978.

Publications: (latest first and in Vancouver style only with latest impact factor): 103

1. Sajid M, Srivastava S, Amit Kumar, Anuj Kumar, Harpreet Singh, **Bharadwaj M.** Bacteriome of moist smokeless tobacco products consumed in India with emphasis on the predictive functional potential. *Frontiers in Microbiology* December 21. [IF : 5.26].
2. Sajid M, Srivastava S, Joshi L, **Bharadwaj M.** Impact of smokeless tobacco associated bacteriome in oral carcinogenesis. *Anaerobe.* 2021. [IF: 2.709]
3. Sharma V, Sonkar SC, Singhal P, Kumar A, Singh RK, Ramachandran VG, Hariprasad R, Saluja D, **Bharadwaj M.** Functional impact of allelic variations/haplotypes of TNF- α on reproductive tract infections in Indian women. *Scientific Reports.* 2021; 11(1): 1-11. [IF: 4.13]
4. Sharma Y, **Bharadwaj M,** Srivastava N, Kaur A, Kumar M, Agarwal M, Bahl Y, Bala K. In vitro antioxidant activity of defatted seed extracts of *Ocimum sanctum* on rat PC-12 cells and its inhibitory efficacy with receptors of oral squamous cell carcinoma. *Industrial Crops and Products.* 2020; 154: 1-17. [IF: 4.13]

5. Chauhan SR, Singhal PG, Sharma U, Bandil K, Chakraborty K, **Bharadwaj M**. Th9 cytokines curb cervical cancer progression and immune evasion. *Human immunology*. 2019; 80(12): 1020-5. [IF: 2.30]
6. Malik S, Kumari S, Sgaikwad S, Misra A, **Bharadwaj M**. Prevalence of abnormal cervical cytology and HPV DNA positivity among HIV positive women. *Int J Reprod Contracept Obstet Gynecol*. 2019; 8(9): 3649-53. [IF: 0.786]
7. Bharali D, Banerjee BD, **Bharadwaj M**, Husain SA, Kar P. Expression analysis of MicroRNA-21 and MicroRNA-122 in hepatocellular carcinoma. *Journal of clinical and experimental hepatology*. 2019; 9(3): 294-301. [IF: 2.47]
8. Shahid A, **Bharadwaj M**. The connection between the Th17 cell related cytokines and cancer stem cells in cancer: Novel therapeutic targets. *Immunology letters*. 2019; 213: 9-20. [IF: 3.26]
9. Gupta S, Kumar P, Maini J, Das BC, **Bharadwaj M**. PIWI-Interacting RNAs in Oral Cancer: Paradigm Shift in Prognosis and Diagnosis. *J Cancer Sci Ther*. 2019; 11(3): 86-90. [IF: 0.45]
10. Madaan N, Pandhi D, Sharma V, Bhattacharya SN, Guleria K, Mishra K, **Bharadwaj M**. Association of abnormal cervical cytology with coinfection of human papillomavirus and Chlamydia trachomatis. *Indian journal of sexually transmitted diseases and AIDS*. 2019; 40(1): 57-63. [IF: 0.286]
11. Sharma, U., Singhal, P., Bandil, K., Patle, R., Neyaz, K., Bose, S., Dewan, A.K., Mehrotra, R., Sharma, V. **Bharadwaj, M**. Genetic variations of TLRs and their association with HPV/EBV, co-infection along with nicotine exposure in the development of premalignant/malignant lesions of the oral cavity in Indian population. *Cancer Epidemiology*. 2019; 61: 38-49. [IF: 2.70]
12. Gupta AK, Tulsyan S, **Bharadwaj M**, Mehrotra R. Systematic review on cytotoxic and anticancer potential of n-substituted isatins as novel class of compounds useful in multidrug-resistant cancer therapy: In silico and in vitro analysis. *Topics in Current Chemistry*. 2019; 377(3):15. [IF: 7.59]
13. Thakur N, Singhal P, Mehrotra R, **Bharadwaj M**. Impacts of single nucleotide polymorphisms in three microRNAs (miR-146a, miR-196a2 and miR-499) on the susceptibility to cervical cancer among Indian women. *Bioscience reports*. 2019; 39(4): 1-14. [IF 3.49]
14. Tripathi R, Rath G, Jawanjal P, **Bharadwaj M**, Mehrotra R. Cyclin D1 protein affecting global women's health by regulating HPV mediated adenocarcinoma of the uterine cervix. *Scientific Reports*. 2019; 9(1): 1-6. [IF: 4.13]
15. Govindharaj M, Arumugam S, Nirmala G, **Bharadwaj M**, Murugiyani K. Effect of marine Basidiomycetes Fulvifomes sp.-derived ergosterol peroxide on cytotoxicity and apoptosis induction in MCF-7 cell line. *Journal of Fungi*. 2019; 5(1): 16. [IF: 4.621]

16. Tripathi R, Rath G, Sharma V, Hussain S, Sharma S, **Bharadwaj M**, Mehrotra R. HES1 Protein Modulates Human Papillomavirus–Mediated Carcinoma of the Uterine Cervix. *Journal of Global Oncology*. 2019; 5:1-0. [IF: 1.77]
17. Kumar A, Pandey R, Yadav IS, **Bharadwaj M**. Structural and epitope analysis (T- and B-cell epitopes) of hepatitis C virus (HCV) glycoproteins: an in silico approach. *Journal of clinical and experimental hepatology*. 2018; 8(4): 352-61. [IF: 2.47]
18. Gupta AK, Tulsyan S, **Bharadwaj M**, Mehrotra R. Grass roots approach to control levels of carcinogenic nitrosamines, NNN and NNK in smokeless tobacco products. *Food and Chemical Toxicology*. 2019; 124: 359-66. [IF: 4.679]
19. Gupta AK, **Bharadwaj M**, Mehrotra R. Eco-friendly Polyethylene Glycol-400 as a Rapid and Efficient Recyclable Reaction Medium for the Synthesis of Anticancer Isatin-linked Chalcones and Their 3-Hydroxy Precursor. *Journal of Heterocyclic Chemistry*. 2019; 56(2): 703-9. [IF: 2.02]
20. Sharma V, Ramachandran VG, Mogha NS, **Bharadwaj M**. Hepatitis B & C virus infection in HIV seropositive individuals & their association with risk factors: A hospital-based study. *Indian Journal of Medical Research*. 2018; 147(6): 588-93. [IF: 1.503]
21. Bharali D, Banerjee BD, **Bharadwaj M**, Husain SA, Kar P. Expression analysis of apolipoproteins AI & AIV in hepatocellular carcinoma: A protein-based hepatocellular carcinoma-associated study. *Indian Journal of Medical Research*. 2018; 147(4): 361-368. [IF: 1.503]
22. Chauhan SR, **Bharadwaj M**. Gearing up T-cell immunotherapy in cervical cancer. *Current problems in cancer*. 2018; 42(2): 175-88. [IF: 2.75]
23. Sharma V, Nandan A, Sharma AK, Singh H, **Bharadwaj M**, Sinha DN, Mehrotra R. Signature of genetic associations in oral cancer. *Tumor Biology*. 2017; 39(10): 1-9. [IF: 3.05]
24. Dewan R, Dewan A, Hare S, **Bhardwaj M**, Mehrotra K. Diagnostic performance of serum human epididymis protein 4 in endometrial carcinoma: a pilot study. *Journal of clinical and diagnostic research*. 2017; 11(7): XC01–XC05. [IF: 0.81]
25. Sharma U, Singhal P, Bandil K, Kumar A, Bose S, Ahuja P, Kohli M, Dewan AK, Tayal J, Banerjee BD, Prasher A, Mehrotra R, Sharma V, **Bharadwaj M**. Genetic variations of IL-10: Identification of novel variations and evaluation of the impact of the SNPs/haplotype in the promoter region with the progression of Oral Squamous Cell Carcinoma in Indian population. *Cytokine*. 2018; 103: 99-108. [IF: 3.53]
26. Bandil K, Singhal P, Dogra A, Rawal SK, Doval DC, Varshney AK, **Bharadwaj M**. Association of SNPs/haplotypes in promoter of TNF A and IL-10 gene together with life style factors in prostate cancer progression in Indian population. *Inflammation Research*. 2017; 66(12): 1085-97. [IF: 2.99]
27. Tripathi R, Rath G, Hussain S, Jawanjal P, Bandil K, Sharma V, **Bharadwaj M**, Mehrotra R. Jagged-1 induced molecular alterations in HPV associated invasive

- squamous cell and adenocarcinoma of the human uterine cervix. *Scientific Reports*. 2018; 8(1):1-9. [IF: 4.13]
28. Thakur N, Basir SF, **Bharadwaj M**, Mehrotra R. Computational prediction of novel human miRNAs/miRNA target sites in correlation with SNP (rs678653) at 3'UTR of cyclin D1 gene. *Integr Mol Med*. 2017; 4(2): 1-5.
 29. Sonkar SC, Wasnik K, Kumar A, Sharma V, Mittal P, Mishra PK, **Bharadwaj M**, Saluja D. Evaluating the utility of syndromic case management for three sexually transmitted infections in women visiting hospitals in Delhi, India. *Scientific Reports*. 2017; 7(1): 1-9. [IF: 4.13]
 30. Gupta AK, **Bharadwaj M**, Kumar A, Mehrotra R. Spiro-oxindoles as a promising class of small molecule inhibitors of p53–MDM2 interaction useful in targeted cancer therapy. *Top Curr Chem*. 2017; 375(1): 1-25. [IF: 7.455]
 31. Bandil K, Kumar A, Dogra A, Rawal SK, Doval DC, Varshney AK, **Bharadwaj M**. Is a Retrovirus (XMRV) Risk Factor for Prostate Cancer in Indian Population. *Int J Curr Microbiol App Sci*. 2017; 6(1): 609-19. [IF: 0.16]
 32. Sekhon R, **Bharadwaj M**, Modi KB, Giri S, Mehrotra R, Rawal SK. Evaluation of Expression Profile of p16 INK4A In Thin Cervix smear. *Int J Gynecol Cancer*. 2016; 26: 164-164. [IF: 2.095]
 33. Gupta AK, **Bharadwaj M**, Mehrotra R. Skin cancer concerns in people of color: risk factors and prevention. *Asian Pac J Cancer Prev*. 2016; 17(12): 5257. [IF: 1.583]
 34. Arumugam S, Bandil K, Proksch P, Murugiyani K, **Bharadwaj M**. Effects of A. marina-derived isoquercitrin on TNF-related Apoptosis-Inducing Ligand Receptor (TRAIL-R) expression and apoptosis induction in cervical cancer cells. *Appl Biochem Biotechnol*. 2017; 182(2): 697-707. [IF: 2.277]
 35. Ravikumara NR, **Bharadwaj M**, Madhusudhan B. Tamoxifen citrate-loaded poly (d, l) lactic acid nanoparticles: Evaluation for their anticancer activity *in vitro* and *in vivo*. *J Biomater Appl*. 2016; 31(5): 755-72. [IF: 2.764]
 36. Bandil K, Singhal P, Sharma U, Hussain S, Basu S, Parashari A, Singh V, Sehgal A, Shivam A, Ahuja P, **Bharadwaj M**. Impacts of TNF-LTA SNPs/haplotypes and lifestyle factors on oral carcinoma in an indian population. *Mol Diagn Ther*. 2016; 20(5): 469-80. [IF: 3.38]
 37. Sharma S, Hussain S, Soni K, Singhal P, Tripathi R, Ramachandran VG, Sharma S, Das S, Pillai B, **Bharadwaj M**. Novel MicroRNA signatures in HPV-mediated cervical carcinogenesis in Indian women. *Tumor Biol*. 2016; 37(4): 4585-95. [IF:3.650]
 38. Singh N, Hussain S, Sharma U, Suri V, Nijhawan R, **Bharadwaj M**, Sobti RC. The protective role of the -1306C>T functional polymorphism in matrix metalloproteinase-2 gene is associated with cervical cancer: implication of human papillomavirus infection. *Tumor Biol*. 2016; 37(4): 5295-303. [IF:3.650]

39. Singhal P, Sharma U, Hussain S, Nag A, **Bharadwaj M**. Identification of genetic variants in TNF receptor 2 which are associated with the development of cervical carcinoma. *Biomarkers*. 2016; 21(7): 665-72. [IF:2.07]
40. Sinha R, Doval DC, Hussain S, Kumar K, Singh S, Basir SF, **Bharadwaj M**. Lifestyle and sporadic colorectal cancer in India. *Asian Pac J Cancer Prev*. 2015; 16(17): 7683-8. [IF:1.583]
41. Sharma V, Sonkar SC, Hussain S, Singhal P, Kumar A, Sharma S, Gupta S, Saluja D, **Bharadwaj M**, Ramachandran VG, Mehrotra R. Impact of Oral Contraceptives and Smoking on the Susceptibility of Reproductive Tract Infections (RTIS) in Immunosuppressed Women: A Hospital Based Study. *Int J Curr Microbiol App Sci*. 2015; 4(12): 363-74. [IF: 0.16]
42. Kumar A, Hussain S, Sharma G, Mehrotra R, Gissmann L, Das BC, **Bharadwaj M**. Identification and validation of immunogenic potential of India specific HPV-16 variant constructs: In-silico & in-vivo insight to vaccine development. *Scientific Reports*. 2015; 5(1): 1-9.[IF: 4.13]
43. Kumar A, Yadav IS, Hussain S, Das BC, **Bharadwaj M**. Identification of immunotherapeutic epitope of E5 protein of human papillomavirus-16: An *insilico* approach. *Biologicals*. 2015; 43(5): 344-8.[IF: 1.801]
44. Kumar A, Hussain S, Yadav IS, Gissmann L, Natarajan K, Das BC, **Bharadwaj M**. Identification of human papillomavirus-16 E6 variation in cervical cancer and their impact on T and B cell epitopes. *J Virol Methods*. 2015; 218: 51-8.[IF: 1.786]
45. Singhal P, Kumar A, Hussain S, Nag A, **Bharadwaj M**. NFKB1/NFKB1a polymorphisms are associated with the progression of cervical carcinoma in HPV-infected postmenopausal women from rural area. *Tumor Biol*. 2015; 36(8): 6265-76. [IF:3.650]
46. Singh N, Hussain S, Kakkar N, Singh SK, Sobti RC, **Bharadwaj M**. Implication of high risk Human papillomavirus HR-HPV infection in prostate cancer in Indian population-A pioneering case-control analysis. *Scientific Reports*. 2015; 5(1): 1-4. [IF: 4.13]
47. Singhal P, Kumar A, Bharadwaj S, Hussain S, **Bharadwaj M**. Association of IL-10 GTC haplotype with serum level and HPV infection in the development of cervical carcinoma. *Tumor Biol*. 2015; 36(4): 2287-98. [IF:3.650]
48. Kumar SS, Manoj P, Giridhar P, Shrivastava R, **Bharadwaj M**. Fruit extracts of *Basella rubra* that are rich in bioactives and betalains exhibit antioxidant activity and cytotoxicity against human cervical carcinoma cells. *J Funct Foods*. 2015; 15: 509-15. [IF:3.701]
49. Hussain S, Nasare V, Kumari M, Sharma S, Khan MA, Das BC, **Bharadwaj M**. Perception of human papillomavirus infection, cervical cancer and HPV vaccination in North Indian population. *PLoS One*. 2014; 9(11): e112861. [IF:2.740]

50. Kohaar I, Hussain S, Kumar A, Singhal P, Choudhury SR, Das BC, **Bharadwaj M**. Impact of Haplotype TNF-LTA Locus with susceptibility to cervical cancer in Indian Population. *Obstet Gynecol Int J*. 2014; (2014): 1-24.
51. Tripathi R, Rath G, Jawanjal P, Sharma S, Singhal P, Bhambhani S, Hussain S, **Bharadwaj M**. Clinical impact of de-regulated Notch-1 and Notch-3 in the development and progression of HPV-associated different histological subtypes of precancerous and cancerous lesions of human uterine cervix. *PLoS One*. 2014; 9(6): e98642. [IF:2.740]
52. Hussain S, Sharma U, **Bharadwaj M** and Mehrotra R. Worth whileness of Gene Profiling in Oral cancer. *Cancer News*. 2014; 18-20.
53. Sinha R, Hussain S, Mehrotra R, Kumar RS, Kumar K, Pande P, Doval DC, Basir SF, **Bharadwaj M**. Kras gene mutation and RASSF1A, FHIT and MGMT gene promoter hypermethylation: Indicators of tumor staging and metastasis in adenocarcinomatous sporadic colorectal cancer in Indian population. *PLoS One*. 2013; 8(4): e60142. [IF: 2.74]
54. **Bharadwaj M**, Roy G, Dutta K, Misbah M, Husain M, Hussain S. Tackling Hepatitis B Virus Associated Hepatocellular Carcinoma-The Future is Now. *Cancer & Metastasis Rev*. 2013; 32(1-2): 229-68. [IF: 6.4]
55. Singhal P, Hussain S, Thakur N, **Bharadwaj M**. Association of *MDM2* and *p53* polymorphisms with the advancement of cervical carcinoma. *DNA Cell Biol*. 2013; 32(1): 19-27. [IF: 3.19]
56. Singh N, Sobti RC, Suri V, Nijhawan R, Sharma S, Das BC, **Bharadwaj M**, Hussain S. Down regulation of tumor suppressor gene PML in uterine carcinogenesis: Impact of human Papillomavirus infection (HPV). *Gynecol Oncol*. 2013; 128(3): 420-6. [IF: 4.623]
57. **Bharadwaj M**, Hussain S, Thakur N. Genetic alterations in Human Cancers: Translation of miRNAs (miRNAs) into clinical application. *Journal of Carcinogenesis*. 2012; 11: S1. [IF: 2.0]
58. Sharma S, Hussain S, **Bharadwaj M**. Evaluation of SNPs (-572 and -634) in IL-6 gene in progression of cervical carcinogenesis. *Journal of Carcinogenesis*. 2012; 11: S1. [IF: 2.0]
59. Hussain S, **Bharadwaj M**, Nasare V, Kumari M, Sharma S, Hedau S, Das BC. Human Papillomavirus (HPV) Infection among Young Adolescents in India: Impact on Vaccination. *J Med.Virol*. 2012; 84: 298-305. [IF: 2.021]
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- human cervix. *Journal of Cancer Research and Therapeutics*. 2012; 8: S1. [IF: 1.326]
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 64. Hussain S, Yuvaraj M, Thakur N, Salam I, Singh N, Mir MM, Bhat MA, Siddiqi MA, Das BC, **Bharadwaj M**. Association of Cyclin D1 gene Polymorphisms with Risk of Esophageal Squamous Cell Carcinoma in Kashmir Valley-a high-risk area. *Mol Carcinogenesis*. 2011; 50: 487-498. [IF: 4.35]
 65. Hussain S, Singh N, Salam I, Bandil K, Yuvaraj M, Bhat MA, Mir MM, Siddiqi MA, Sobti RC, **Bharadwaj M**, Das BC. Methylation-mediated gene silencing of suppressor of cytokine signaling-1 (SOCS-1) gene in esophageal squamous cell carcinoma patients of Kashmir valley. *J Recept Signal Transduct Res*. 2011; 31(2): 147-56. [IF: 1.517]
 66. Dwivedi V, Srivastava R, Hussain S, Ganguly C, **Bharadwaj M**. Comparative anticancer potential of clove (*Syzygium aromaticum*)-an Indian spice against cancer cell lines of various anatomical origin. *Asian Pacific J Cancer Prevention*. 2011; 12(8): 1989-93. [IF: 1.77]
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- CCND1*: Association with HPV Mediated Cervical Cancer in Indian Population. *Biomarker*. 2009; 14 (4): 219-225. [IF: 1.955]
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104. **Mausumi SR**, Bharadwaj D, Hati RN. Resolution of peripheral membrane proteases from mitochondrial pellet of rat submaxillary gland. *Current Science*. 1991; 60:325-326, 1991. [IF: 0.756]

Book Chapters

1. Gautam H, Bandopadhyay M, Mehta S, **Bharadwaj M**. MicroRNAs: Role in Cancer and miRNA Signatures in Endometrial Cancer. Recent Advances in Endometrial Cancer. Chapter-11 2020; 205-221. by Sumita Mehta & Bindiya Gupta. Springer Nature Singapore Pvt. Ltd. 2020
2. **Mausumi Bharadwaj**, Showket Hussain, Richa Tripathi, Neha Singh and Ravi Mehrotra. The clinico-molecular approaches for detection of human papillomavirus. Book chapter 6, 103-131, 2020 in “Animal Biotechnology: Models in Discovery and Translation” 2nd Edition. Edited by Ashish Verma and Anchal Singh, Publisher Academic Press (Elsevier).
3. **Mausumi Bharadwaj**, Showket Hussain, Richa Tripathi, Neha Singh and Ravi Mehrotra. Human Papillomavirus (HPV): Diagnosis and Treatment. Book chapter 6, pp 95-120, 2014 in “Animal Biotechnology: Models in Discovery and Translation” Edited by Ashish Verma and Anchal Singh, Publisher Academic Press (Elsevier).
4. **Mausumi Bharadwaj** and Showket Hussain. Human Papillomavirus(HPV) Vaccines. Gynaecological Cytopathology ‘Cervix’ with clinical Aspects, 3rd Edition, chapter 17, pp 183-190. Edited by Suresh Bhambhani, Mehta Publishers.
5. Brian Hjelle, Norah Torrez-Martinez, **Mausumi Bharadwaj**. (1999). Recombinant western blot and strip immunoblot assays for hantaviruses. Manual of Hemorrhagic Fever with Renal Syndrome and Hantavirus Syndrome, 122-130. Edited by Ho Wang Lee, Charles Calisier and Connie Schmaljohn.

Popular articles/op-ed/media-coverage: (latest first and provide title and link):
None

Conducted Hand-on Workshop on Molecular Biology Techniques as Course Director : 7

Presentations/Talks/Lectures: (latest first, title of the presentation, organized by and date)

1. Delivered lecture on “HPV associated cancers & HPV vaccine”, Departments of Biotechnology and Microbiology, Institute of Applied Medicines and Research, (IAMR), Gaziabad, 12th March 2019.
2. Delivered lecture on “Cellular and Molecular Basis of Cancer: Molecules to Mechanisms titled “Human Papilloma virus (HPV) mediated Cervical Cancer and

- HPV Vaccine” in CMBC-2019, February 7-9 at Savitribai Phule Pune University (SPPU), Pune Maharashtra.
3. Delivered lecture on “Importance of T and B cell epitopes for development of second generation Human Papillomavirus (HPV) Vaccine” Chitkara University, June 28-30, 2018, Chandigarh, Punjab.
 4. Delivered lecture on “Genetic variations of Human Papillomavirus type 16 and their impact on T and B cell epitopes” in 37th IACR Convention-2018, February 23-25, 2018 at Bose institute, Unified Academic Campus, Kolkata.
 5. Delivered lecture on “Understanding of Molecular mechanism of Colorectal cancer in Indian Population”. Reytheon Healthcare, Kolkata Healthcare Summit, 20-22 September, 2017, Kolkata.
 6. Delivered lecture on “Role of microRNA in HPV associated cervical cancer” in National National Conference on Emerging Trends in Applied Sciences (NCETAS 2017) 17-18 August 2017 at Galgotias University, Greater Noida.
 7. Delivered lecture on “Identification of SNPs/Haplotypes in TNF-LTA Locus as Potential Biomarkers in Human Papilloma associated cancer” 8th April, 2017 Chitkara University, Chandigarh.
 8. Delivered lecture on “Novel miRNA signature in HPV associated cervical cancer” 5th April, 2017 in Dept. Biochemistry, Central University of Rajasthan.
 9. Delivered lecture on “Human Papillomavirus (HPV) Associated Cervical Cancer & HPV Vaccine” on 7th March, 2017, Dept. Zoology, Ravenshaw University, Cuttack, Orissa.
 10. Delivered lecture on “Development of Second Generation Human Papillomavirus (HPV)Vaccine” , National Seminar on Recent Advances in Enviornmental Toxicology, February, 13-14, 2017, Jamia Millia Islamia, New Delhi.
 11. Delivered lecture on “Human Papillomavirus Vaccine: A step towards development of DNA based India specific HPV Vaccine. National Conference On Emerging Trends In Applied Sciences” 23rd -24th September, 2016 .Galgotia University, Greater Noida.
 12. Delivered lecture on “Novel miRNA signature and cervical cancer” 12th International conference on ACOS and 35th Annual Convention of IACR, 8-10th April, 2016, New Delhi.
 13. Delivered lecture on “ Development of newer Human Papillomavirus (HPV) vaccine: Promising Roadmap for the Development of Epitope based vaccine” International Workshop on Cancer Awareness, Prevention, Screening & Early Detection for SAARC nations Feb 29-March3, 2016, New Delhi.
 14. Delivered lecture in “Human Papillomavirus associated cervical cancer” 3rd Translational Cancer Research Symposium at DSCI (East) on 2nd Nov 2015.
 15. Delivered lecture on “HPV, HPV vaccine and its possible application in other cancers” in Dept. Biotechnology, Indraprastha University, October 28, 2015.
 16. Served as chairperson in the session entitled “HPV Prevention in Low Resource Country” in 30th International Papillomavirus Conference & Clinical and Public Health Workshop-HPV 2015, September 7-12, Lisbon, Portugal.
 17. Delivered lecture on “ Prospects & Prejudices of cervical cancer” UGC-Human Resource Development Centre, JNU July 312015.

18. Delivered lecture on “HPV associated cancer and HPV Vaccine”, IILM Academy of Higher learning, Greater Noida February 27-28, 2014.
19. Delivered lecture on “HPV associated cervical cancer and HPV Vaccine” in Dept. Of Biotechnology, MS Engg College, Ghaziabad, 5th October, 2013.
20. Delivered lecture on “Human Papillomavirus (HPV), Cervical cancer and HPV Vaccine” College of Life Sciences and Cancer Hospital & Research Institute, Gwalior, 16-17th March, 2013.
21. Delivered lecture on “Development of Chimeric DNA based India specific HPV 16 vaccine” in of 32nd IACR ACBR, Delhi University, Delhi 13-16 February, 2013.
22. Delivered lecture on “Genetic & Epigenetic Regulation of Carcinogenesis in Human Papillomavirus associated Epithelial Cancers” 3rd International Cancer Research Symposium 2012: Defining & Translating Science for Disease Prevention and Therapy, Kolkata, Dec 18-21, 2012.
23. Delivered lecture on “Genetic alterations in Human Cancers: Translation of miRNAs (miRNAs) into clinical application” in Carcinogenesis 2012, Delhi 19-21st November, 2012.
24. Delivered lecture on 37th Annual conference of the Indian Society of Human Genetics (ISHG) entitled “International conference on Genes, Genetics & Genomics: Today & Tomorrow- Human Concerns” Held at Panjab University, Chandigarh from 03-05 March 2012.
25. Delivered lecture on “Molecular signature of HPV mediated Cervical Cancer” in Indo-US workshop on Cancer Prevention and Biomarkers held in Institute of Pathology (ICMR) on 17-18th February, 2011.
26. Delivered lecture on “Host Pathogen Interactions during development of Cervical Carcinogenesis” in 30th Annual Conference of Society of Toxicology (STOX) and Symposium on Strategies for Safety Study Requirements for Herbal Formulations held in Jamia Hamdard, New Delhi, December 9-11, 2010.
27. Delivered lecture on “Genetic Basis of HPV mediated Cervical Cancer in Indian Women” in International Conference on Systems in Medicine and Biology held in IIT, Kharagpur, W Bengal 16-18th December, 2010.
28. Delivered lecture on “Ethical issues in Research” in Training Course on Bio-Statistics and Epidemiology conducted by ICPO for Ph.D students of MAMC on 24th Sept, 2010.
29. Delivered lecture on “Cervical Cancer, HPV and HPV vaccine” in advanced seminar series at Miranda House on 23th September, 2010.
30. Delivered lecture on “Genital Infection & Neoplasia” at AOGIN, 26th – 28th March 2010, New Delhi.
31. Delivered lecture on “HPV associated Gynaecological cancers” at International Conference on Women and Child Malignancies 13-14th Feb, 2010, Bhopal.
32. Delivered lecture on “Role of HPV in Cervical Cancer & HPV Vaccine” at Annamalai University, Chennai, 19-20th December, 2009.
33. Delivered lecture on “Genetic and Epigenetic Basis of Complex Diseases ” at CSIR-CCMB, Hyderabad, 5-7 December, 2009.
34. Delivered lecture on “Virus associated cancers” in Advanced seminar series in Miranda House on 25th November, 2009.

35. Served as Chairperson of the plenary session IV of **National Conference of Biogenesis II**, Future Challenges and Opportunities in IILM Academy of Higher learning, Greater Noida 27-28 February, 2009.
36. Delivered lecture on “ HPV associated cancers” at IILM Academy of Higher learning, Greater Noida 27-28 February, 2009.
37. Delivered lecture on “ Prospects & Prejudices of HPV vaccine” Biennial conference of Asia Oceania research organization on Genital Infection & Neoplasia (AOGIN), 25th – 26th 2009, Kolkata.
38. Delivered lecture on “ HPV associated cervical Cancer” at Khaitan Public School, January 15, 2008.
39. Delivered lecture on “Cancer and Cancer vaccines” in Jamia Milia Islamia, New Delhi, February 2, 2008.
40. Delivered lecture on “Role of Homocysteine & MTHFR polymorphisms in Cervical Cancer” at 26th IACR in January 17-19, 2007 in Bhubaneswar.
41. Delivered lecture on “Genomic Instability and Cancer” at Srinagar, J&K , July 22-26, 2007 .

Projects:

- **Ongoing**

1. Title of Project : Identification of rare variants in Pattern recognition receptors (PPRs) and their crosstalk with Interleukins and NF- κ B to understand the functional Implications in Reproductive Tract Infections (RTIs).

Name of Funding Agency : ICMR

Role: PI/Co-PI/Co-I/Mentor: Principal Investigator (PI)

Duration of Project : 2020-2023

2. Title of Project : Strengthening Bio Chemical, Research, Policy, Capacity building and Cessation support to advance Smokeless Tobacco in India. ICMR-Task

Name of Funding Agency : ICMR- Task Force Project

Role: PI/Co-PI/Co-I/Mentor: Principal Investigator (PI)

Duration of Project : 2019-2023

3. Title of Project : Basic Molecular Biology Techniques Relevant to Cancer Research – Hands on Training.

Name of Funding Agency : DHR

Role: PI/Co-PI/Co-I/Mentor: Principal Investigator (PI)

Duration of Project : 2019-2024

4. Title of project: To decipher and target the metabolic signatures associated with Epirubicine-resistant triple negative breast cancer

Name of funding agency/Intramural: ICMR

Role: PI/Co-PI/Co-I/Mentor: Co-Investigator

Duration of project: 3 years

5. Title of project: Evaluation of Functional role of Identified Novel SNPs of IL-10

gene and their interaction with miRNAs (miR-27a/mir-98) in Oral Carcinoma.

Name of funding agency/Intramural: ICMR

Role: PI/Co-PI/Co-I/Mentor: Mentor

Duration of project: 2021-2023

6. **Title of project:** Identification of molecular landscape in Familial/Sporadic Breast cancer

Name of funding agency/Intramural: ICMR

Role: PI/Co-PI/Co-I/Mentor: Mentor

Duration of project: 2021-2023

Others

1. Scientist In-charge National Tobacco Testing Laboratories (NTTLs) are Tobacco Research and Testing Laboratories
Funding: Ministry of Health and Family Welfare (MoHFW)

- **Completed**

International

1. **Title of Project :** Development of Chimeric DNA-based Vaccine Against Human Papillomavirus type 16
Name of Funding Agency : ICMR- Indo German Task-force project (with German Cancer center,DKFZ,Germany).
Role: PI/Co-PI/Co-I/Mentor: Principal Investigator (PI)
Duration of Project : 2009-2013
2. **Title of Project:** Development of Regional HPV Laboratory for Monitoring HPV Vaccine Programme at ICPO
Name of Funding Agency: WHO, Switzerland
Role: PI/Co-PI/Co-I/Mentor: Co-Principal Investigator (PI)
Duration of Project : 2007-2009

National

3. **Title of Project:** Development of DNA vaccine constructs against India specific HPV-16 variant: enhancement of Immunogenicity of L1 constructs and E6/E7 constructs
characterization of T-cell epitope based
Name of Funding Agency : ICMR
Role: PI/Co-PI/Co-I/Mentor: Principal Investigator (PI)
Duration of Project : 2017-2020

4. **Title of Project:** Molecular and Cinico-Epidemiological Studies on Oral Precancer and Cancer among Tobacco users in India: with special emphasis on Buccal Cancer
Name of Funding Agency : DST
Role: PI/Co-PI/Co-I/Mentor: Principal Investigator (PI)
Duration of Project : 2012-2016
5. **Title of Project:** Single Nucleotide Polymorphisms of Cytokine Genes in Human Papillomavirus (HPV)-mediated Cervical Cancer in Women.
Name of Funding Agency : CSIR
Role: PI/Co-PI/Co-I/Mentor: Principal Investigator (PI)
Duration of Project : 2006-2010
6. **Title of Project :**Role of Tobacco use in causation of cancer in North East India
Name of Funding Agency : ICMR Task Force Project
Role: PI/Co-PI/Co-I/Mentor: Co-Investigator
Duration of Project : 2006-2009
7. **Title of Project:** Role of Pesticide Exposure in causation of cancer in North East India
Name of Funding Agency : ICMR Task Force Project
Role: PI/Co-PI/Co-I/Mentor: Co-Investigator
Duration of Project : 2006-2009
8. **Title of Project:** Mechanistic insights into NF-kB intarectome in HPV &/or tobacco induced tongue squamous cell carcinoma: Role of mutations in shaping protein-protein interactions for identification of therapeutic targets.
Name of Funding Agency : ICMR
Role: PI/Co-PI/Co-I/Mentor: Mentor
Duration of Project : 2019-2021
9. **Title of Project :** Role of hepatitis B virus genotype specific X protein (HBx) in TGF- β mediated regulation of liver inflammation in hepatocellular carcinoma: an in vitro study. **Name of Funding Agency :** ICMR
Role: PI/Co-PI/Co-I/Mentor: Mentor
Duration of Project : 2018-2020
10. **Project entitled** Functional evaluation of Toll like receptors and interleukine SNPs in association with Reproductive tract infections.
Name of Funding Agency : ICMR
Role: PI/Co-PI/Co-I/Mentor: Mentor
Duration of Project : 2018-2021
11. **Title Of Project:** Study on T cell dynamics in tumor microenvironment of Cervical Cancer

Name of Funding Agency : ICMR
Role: PI/Co-PI/Co-I/Mentor: Mentor
Duration of Project : 2015-2017

12. **Title Of Project:** Mechanism of regulation of cancer stem cell markers by Th17 cells in lung cancer: Immunotherapeutic approach, April 2018-19.

Name of Funding Agency : ICMR
Role: PI/Co-PI/Co-I/Mentor: Mentor
Duration of Project : 2018-2019

13. **Title Of Project:** Significance of Notch signaling pathway in the pathogenesis of cervical cancer

Name of Funding Agency : ICMR
Role: PI/Co-PI/Co-I/Mentor: Mentor
Duration of Project : 2010-2012

14. **Title Of Project:** A study of genetic mutation profile of Asian Indian patients with pancreatic cancer with or without underlying chronic pancreatitis

Name of Funding Agency : ICMR
Role: PI/Co-PI/Co-I/Mentor: Mentor
Duration of Project : 2011-2013

15. **Title Of Project:** Comparative study between Human Papillomavirus (HPV) mediated cervical cancer and esophageal cancer in North-Indian Population

Name of Funding Agency : ICMR
Role: PI/Co-PI/Co-I/Mentor: Mentor
Duration of Project : 2012-2014

Brief Biosketch:

Dr.Bharadwaj did her Post-Doctoral fellowship in USA from Chicago Medical School, Chicago & University of New Mexico, Albuquerque. She was Research Assistant Professor in Department of Pathology, University of New Mexico, Albuquerque, USA.

After joining to ICMR-NICPR as senior scientist, received several extramural projects International (WHO-HPV LabNet; ICMR-Indo-German Task-force project) and National level (DHR, ICMR, DST, CSIR) as independent researcher. She is having 103 publications and published five (5) book chapters.

She mentored 14 Ph.D., 17 Post-Doctoral and 15 MD/MS/DNB students.

Conducted eight (8) hands-on workshop as Course Director and delivered several invited lectures.

She got elected as Fellow of National Academy of Science India (FNASc.) and Fellow of Academy of Science & Technology, West Bengal.

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