

Name Mrs Rajani Avinash Bhisey

I have had a long association spanning four decades with Cancer Research Institute, Parel, Mumbai. I had the opportunity to address queries regarding cell structure and function, using electron microscopy. I developed and characterized animal models to understand the action of environmental agents in the process of cancer development. I employed animal models, tissue culture, mutagenicity and biochemical assays to understand the role of tobacco and Pan Masala in cancer causation. I initiated human studies to understand genetic hazards, imposed by habit associated and occupational tobacco exposure and conducted a population based study to understand the role of gene environment interaction in susceptibility to oral cancer. Several young workers from various institutions in India visited my laboratory to get hands on training. My brief CV follows.

Positions held In charge Genetic Toxicity Unit, 1986-1990
Head, Carcinogenesis Division, 1990 - 2001
Cancer Research Institute (Presently ACTREC)
Tata Memorial Center, Mumbai-400012 India.

Adjunct Professor, Institute of Bioinformatics and
Biotechnology, University of Pune, 2003-2007

Faculty member: Center for Excellence in Basic Sciences,
Mumbai, 2013-2014

Email rajani.bhisey@gmail.com

Academic Qualifications:

Degree	Year	University
M. Sc. Applied Biology,	1965	University of Bombay
Ph.D. (Applied Biology)	1974	University of Bombay

Teaching Experience: Recognized guide for the degree of PhD. and M SC.in Applied
Biology, University Of Bombay

Research Guidance: Number of students awarded Ph.D. and M Sc degree
Ph.D. – 10, MSc – 1

No of Publications Full length papers, chapters, reviews, etc. 75

Research Interests:

**Electron Microscopy, Mechanisms of carcinogenesis, Environmental carcinogenesis
Mutagenesis, Population Monitoring for identification of genetic hazards and gene environment
interactions among tobacco habitues and oral cancer patients**

Financial Assistance Received from Granting Agencies:

DST, ICMR, Indo-German collaboration Program, Sir Dorabji Tata Trust

Honours:

Fellow, Indian National Science Academy, 1998

Fellow, Indian Academy of Sciences, 1996

Fellow, Maharashtra Academy of Sciences, 1976

UICC International Travel Fellowship for young Scientists: 1974

**Invited work group member: Monograph program, International Agency for Research on
Cancer, Lyon France, 2004, 2007, 2012 .**

Chairperson sub group, 2007

Life Time Achievement Award 2007: Association of Zoologists of India

Member, Sectional committee Indian Academy of Sciences 1997-1998

Member, Sectional committee, Medical Sciences, Indian National Science Academy 1999 -2000

Orations Delivered :

Institute of Pathology Oration New Delhi, 1994

Dr .M.G. Deo Oration 2001

Overseas Research Experience:

Harrison Dept. of Surg. Research Univ. of Pennsylvania, USA- 1968-69

Fox Chase Cancer Research Institute, Philadelphia, USA-1969-70

Institute for Cancer Research, Villejuif, France-1974

German Cancer Research Centre, Heidelberg, Germany-1980

Sylvius Laboratories, Lieden, The Netherlands 1986, 1992.

IARC, Lyon, France,1988.

Membership of Professional Organizations:

Indian Society of Cell Biology: Secretary 1995-1996 Vice President 1997-98

Environmental Mutagen Society of India: Treasurer, 1996-97, Vice President, 1999-2000

**Indian Association for Cancer Research: Executive Committee Member, 1994-97)
(Vice President 1997-99)**

Indian Women Scientists' Association: Past-Executive Committee Member

Electron Microscope Society of India, Life member

Professional attainment :

Member, Project Review committee Indian Council for Medical Research

Member Selection committee Indian Council for Medical Research

Member, Editorial Board, Indian Journal of Experimental Biology

Member, Publications Review panel, Indian Journal of Medical Research, Indian Journal of Experimental Biology, Indian Journal of Cancer, Current Science.

Life member, Action Council Against Tobacco

Member, Expert group on addition of saccharine in pan masala, DGHS, Ministry of Health, Government of India

Member, Food additive sub-committee, DGHS, New Delhi.

Member, Review Panel for research schemes, Indian Council of Medical Research, Department of Science & Technology, Council for Scientific and Industrial Research, New Delhi.

Member, National Advisory Committee, Conference on Growth Disorders of Pigment cells, Institute of Pathology, ICMR, New Delhi, 1994.

Member, Sectional committee to interview faculty members, ICMR, CSIR-1996

Resource Person, Refresher course in Microbiology, Shivaji University, Kolhapur, 1997, Kolhapur

Resource Person, 'Cancer awareness workshop on tobacco related issues'- Tata Memorial Hospital, Mumbai, 18th November 1998

Resource Person, UGC sponsored refresher course in Zoology for Senior College, Teachers at Institute of Science, Mumbai, February 19, 1999

Member, IARC working group, Monograph program, Vol: 85, Lyon France 2004

Member, IARC working group, Monograph program, Vol: 89 Lyon France 2007

Member, IARC working group, Monograph program, vol: 100E 2012

Member, Task Force SERB Ayurved Biology 2014

Organisational Activity:

National:

Organizing Secretary, XX All India cell biology conference, Mumbai 13-15 January 1997

Co-Convener, DST sponsored 'Brainstorming session on Cancer research', Bombay, November 25-27, 1991

Compiler, National state of the art report on 'Cytogenetic studies on Cancer', 1987

International:

Chairperson, Session on 'Predictive assays & Diagnosis' – International conference on radiation biology, DNA damage, repair and carcinogenesis, Shillong, April 7, 1998

Member, Local scientific and exhibition committee, XVI International cancer congress, New Delhi, October 1994

Chairperson, Special lecture on 'Advances in tobacco carcinogenesis', by Prof. D. Hoffmann at XVI International Cancer Congress, New Delhi, October 1994

Co-chairperson, Symposium on 'Indigenous tobacco products in developing countries', XVI international Cancer Congress, New Delhi, October 1994

Co-Chairperson, poster session on 'Angiogenesis and growth factors' at XVI international Cancer Congress, New Delhi, October 1994

Co-Chairperson, poster session on 'Tumor promotion' XIV International Cancer Congress, Budapest, Hungary, August 21-27, 1986

Rapporteur, Symposium on 'Carcinogenesis and biological effects of tumour promoters', Elmau, Germany, Oct 13-16, 1980

Participation in International Conferences/ Workshops:

- 1. International cell research organization, 'Cell Biology Meetings' Bombay, Jan 11-14, 1965 XI International cancer congress, Florence, Italy, Oct 20-26, 1974**
- 2. IV Asian cancer congress, Bombay, Dec 3-8, 1979**
- 3. International Symposium on 'Environmental Carcinogenesis', Bombay Dec 9-11, 1979**
- 4. Symposium on Carcinogenesis and Biological Effects of Tumour Promoters' Elmau, Germany, 13-16 Oct, 1980**
- 5. FEBS course on 'Biomolecular Electron Microscopy', Univ. Ulm, Germany Oct 2-11, 1980**
- 6. WHO sponsored advanced lecture course on 'Early detection of cancer and proliferation of cancer cells', Bombay Dec 1981**
- 7. Indian Society of Oncology, 2nd Biennial Conference, Bombay, Feb 9-15, 1986**
- 8. International Conference on 'Theories of Carcinogenesis', Oslo, Norway, Aug 16-2, 1986.**
- 9. XIV International cancer congress, Budapest, Hungary Aug 21-27, 1986**
- 10. International course on 'Design and Analysis of long term carcinogenesis experiments', Lyon, France, Dec 12-16, 1988**

11. International Symposium on 'Control of tobacco related cancers and other diseases', Bombay, Jan 15-19, 1990
12. 2nd International Conference on 'Theories of Carcinogenesis', Aug 15-21, 1992, Oslo, Norway.
13. International Symposium on 'Experimental mutagens and human health', a satellite symposium to sixth international conference on environmental mutagens, Feb 19-21, 1993, Madras, India
14. Invited speaker, Indo-French symposium on 'Trends in cancer research', Lonavala, India, Dec 8-13, 1993
15. 3rd International congress on Oral Cancer, Madras, Jan 21-25, 1994
16. Invited speaker, symposium on indigenous tobacco products, XVI International cancer congress, New Delhi, India, Oct 30-Nov-5, 1994
17. International conference on radiation biology, DNA repair, damage and carcinogenesis, Shillong, India, April 7-10, 1998
18. Invited Speaker DAE symposium on population monitoring and molecular epidemiology, Chennai, March 23-26, 1998
19. Invited Speaker, workshop on 'current perspective and food antioxidants in health', Hindustan lever research foundation meeting, Bangalore
20. Invited Speaker, National Institute of health, Seoul, Korea, Sept 22, 1998
Invited speaker, 4th International Symposium on 'Biological monitoring in occupational and environmental health' 23-25 Sept, 1998, Seoul, Korea

Social activities:

Life member, Indian Women Scientists Association,

Life Member, Stree Hitkakarini

Life Member, Marathi Vidnyan Parishad,

Life Member, Shri Vivekananda Society

Talks on All India Radio on Cancers in Women, Life style and Cancer

Articles in Marathi in News Papers, Vidnyan Parishad

Lectures in Schools and Colleges

Publications:

- 1 Bhisey RA and Sirsat SM: Histochemistry and fine structure of the fibroblast under experimental stress with adrenocortical hormones. Ind. J. Exptl. Biol. 4 : 15-19, 1966**
- 2 Bhisey RA and Sirsat SM: Methyl cholanthrene carcinogenesis in the Swiss albino mouse in relation to differential oncogenesis of skin tumors. Brit. J. Cancer, 20: 418-423, 1966**
- 3. Bhisey RA and Sirsat SM: Ultrastructure of methylcholanthrene induced fibrosarcoma Proc 4th Annual Conference of Electron Microscope Society of India, Delhi, 1966**
- 4. Bhisey RA and Sirsat SM: Epidermal-dermal relationship in methyl-cholanthrene carcinogenesis. Ind. J. Cancer, 4: 80-87, 1967**
- 5. Bhisey RA and Sirsat SM: Ultrastructure of methylcholanthrene induced fibrosarcomas in Swiss albino mice. Ind. J. Cancer, 4: 80-87, 1967**
- 6. Bhisey RA and Sirsat SM: Selective promoting activity of phorbol myristate acetate in experimental skin carcinogenesis. Proceedings-symposium on Mutagenicity, Carcinogenicity and Teratogenicity of Chemicals MS university Baroda: 256-263 1975**
- 7. Bhisey RA and Sirsat SM: Histological changes in the mouse skin after one subcutaneous injection on 20-methylcholanthrene. Ind. J. cancer, 12: 430-435, 1975**
- 8. Bhisey RA and Sirsat SM: Selective promoting activity of phorbol myristate acetate in experimental skin carcinogenesis. Brit. J. Cancer, 34: 661-665, 1976**
- 9. Bhisey RA and Sirsat SM: An electron microscopic study of mouse epidermis after single subcutaneous injection of thiophene free benzene. Ind. J. Cancer, 14: 10-17, 1977**
- 10. Bhisey RA and Sirsat SM: Sequential ultrastructural alterations in the mouse epidermis after a single subcutaneous injection of 20 methylcholanthrene. Ind. J. Cancer, 14: 18-24, 1977**
- 11. Bhisey RA Bhide SV and Sirsat SM: Morphological and biochemical studies on separated constituents of mouse skin treated with phorbol myristate acetate. Ind. J. Exptl. Biol., 17: 15-18, 1979**
- 12. Bhisey RA and Sirsat SM: Ultrastructural changes produced by 12-O-tetradecanoylphorbol-13-acetate in mouse epidermis. Bull. Jaslok Hospital and Research Centre, 5: 198-201, 1981**

13. Bhisey RA and Sirsat SM: Ultrastructural studies on the effect of repeated applications of TPA on differentiation of mouse epidermal cells. Proc. Of the symposium on cellular control mechanisms, BARC, Bombay, pp 42-45, 1982
14. Bhisey RA, Iyengar B and Sirsat SM: Effect of the active tumor promoter 12-0-tetradecanoylphorbol-13- acetate on hair follicular growth and development of hair anlage tumors in the mouse skin: A comparison with human adnexal lesions. J. Cancer Res. Clin. Oncol., 102: 245-252, 1982
15. Bhisey RA, Ranchandani AG, Iyengar B, Borges A and Sirsat SM: 12-0-tetradecanoylphorbol-13- acetate- induced amplification of mesenchymal tumorigenesis in the mouse skin. J. Cancer Res. Clin. Oncol., 105: 48-54, 1983
16. Bhisey RA, Ramchandani AG, and Sirsat SM: Effect of 12-0-tetradecanoylphorbol-13- acetate on epithelial tumor induction in methylcholanthrene injected swiss albino mice. Ind. J. Exptl. Biol., 21: 318-323, 1983
17. Bhisey RA, Ramchandani AG, and Sirsat SM: Effect of 12-0-tetradecanoylphorbol-13- acetate on the incorporation of labeled precursors into RNA, DNA and protein in epidermis, dermis and subcutis from precancerous mouse skin with reference to enhanced tumorigenesis. Carcinogenesis, 5: 135-141, 1984
18. Bhisey RA. Electron Microscopy of Viruses, Science today 46-47, July 1984
19. Bhisey RA, Ramchandani AG, and Sirsat SM: Ultrastructure of chemically induced mouse skin tumors. Ind. J. Cancer, 22: 46-48, 1985
20. Bhisey RA, Ramchandani and Veturkar PL Is conversion to propagation sensitivity a crucial step in in enhanced expression of MCA induced skin neoplasia? ISCB conference 1985
21. Bhisey RA Electron microscopy of DNA ISCB conference Ahemedabad, 27-30, 1985
22. Bhisey RA: Book Review: 'Models, Mechanisms and Aetiology of Tumor Promotion' M. Borzsonyi, NE Day, K. Lapis and H. Yamasaki (eds)- Ind. J. Med. Res. 83: 237-240, 1986
23. Bhisey RA and Sirsat SM: Ultrastructural analysis of epidermal hyperplasis induced by multiple 12-0-tetradecanoylphorbol-13- acetate (TPA) treatment of mouse skin. Tumori, 72: 643-650, 1986
24. Bhisey RA, Veturkar PL and Borges A: Comparison of the sensitivity of Swiss albino and hairless Swiss bare mice to two stage skin tumorigenesis. Ind. J. Exptl. Biol., 25: 90-96, 1987
25. Bhisey RA: Book Review- recent results in cancer research: 'Epidemiology of malignant melanoma' R.P. Gullaher (ed) Springer Verlag, 1986: Ind. J. Exptl. Biol., 25: 649, 1987
24. Bhisey RA, Ranchandani AG, Veturkar PL, Borges A, Notani PN and Sirsat SM: Differential effects of phorbol ester tumor promoters on 3-methylcholanthrene-

induced epithelial and mesenchymal skin tumorigenesis *J. Cancer Res. Clin. Oncol.*, 114: 279-282, 1988

25. Jeyapaul J and Bhisey RA: Effects of 12-O-tetradecanoylphorbol-13- acetate on macromolecular synthesis in epidermis, dermis and subcutis from mouse skin initiated with 7,12, dimethylbenz(a)anthracene. *Ind. J. Exptl. Biol.*, 26: 671-678, 1988
26. Bhisey RA, Veturkar PL, Jeyapaul J and Borges A: Effects of TPA dose variation and mezerein on skin tumorigenesis by initiation promotin protocol in S/RV Cri-mice. *Ind. J.Exptl. Biol.*, 26: 764-767, 1988
27. Bhisey RA, Ramchandani AG and Veturkar PL: Is conversion to propagation sensitivity a crucial step in expression of MCA induced skin neoplasia? In: *Theories of Carcinogenesis*, O.H. Iversen (ed), Hemisphere Publ. Corpn., Washington, pp. 318-319, 1988
28. Bhisey RA, Ramchandani AG and Sirsat SM: Tumor promoter 12-O-TetradecanoylPhorbol-13-Acete(TPA) enhances Methylcholanthrene (MCA) induced skin tumorigenesis. In "Chemical Carcinogenesis and Mutagenesis" ed: O S Reddy and P P Reddy, 1988
29. Ramchandani AG, Bhisey RA and Borges AM: Influence of short term topical exposure to phorbol ester tumor promoters on subcutaneously induced skin tumorigenesis in S/RV Cri mice. *Neoplasma*, 36:281-286, 1989.
30. Bagwe AN, Ganu UK, Gokhale SV and Bhisey RA: Evaluation of the mutagenicity of 'Pan Masala', a chewing substance widely used in India. *Mutat. Res.*, 349-354, 1990
31. Bhisey RA and Veturkar PL: S/RV Cri-ba, a hairless mouse strain sensitive to skin tumorigenesis by suboptical doses of 7,12- dimethylbenz(a)anthracene, initiation, promotion and two stage promotion protocols. *Cancer Lett.*, 52: 63-69, 1990
32. Bhisey RA: Initiation and promotion in mouse skin carcinogenesis in: *Environmental Mutagenesis and Carcinogenesis*, PS Chauhan (ed), Proc, Symp. On 'Environmental Mutagenesis & Carcinogenesis', pp. 83-88, 1990
33. Bagwe AN and Bhisey RA: Mutagenicity of processed bidi tobacco: Possible relevance to bidi industry workers. *Mutat Res.* 261: 93-99, 1991
34. Bhiey RA and Govekar RB: Biological monitoring of bidi rollers with respect to genotoxic hazards of occupational tobacco exposure. *Mutat. Res.*, 261:139-147, 1991
35. Ramchandani AG and Bhisey RA: Correlation between tissue growth kinetics and modulation of mouse skin tumorigenesis by phorbol esters. *Ind. J. Exptl Biol.*, 29: 1010-1016, 1991
- 38 Bhisey RA, Govekar RB, Bagwe AN and Mahimkar MBL Biological assessment in tobacco chewers, RS Rao and PB Desai (ed), Tata Memorial Centre Publication, Bombay, 191-199, 1991

- 39 Govekar RB and Bhisey RA: Elevated urinary thioether excretion among bidi rollers exposed occupationally to smokeless tobacco. *Intl. Arch. Occup. Health.*, 64: 101-104, 1992
- 40 Bagwe AN and Bhisey RA: Occupational exposure to tobacco and resultant genotoxicity in bidi industry workers. *Mutat. Res.*, 299: 103-109, 1992
- 41 Bhisey RA, Govekar RB and Bagwe AN: Toxic effects of tobacco exposure among bidi rollers- a biological risk assessment. In: *Proc. Of the National Symposium on Control of tobacco related cancers and other diseases*, PC Gupta, JE Hammer and PR Murti (eds), pp. 223-228, 1992
- 42 Govekar RB and Bhisey RA: Mutagenic activity in urine samples from female tobacco habitués. *Cancer Letters*, 69: 75-80, 1993
- 43 Ramchandani AG, Borges Am and Bhisey RA: Inversion of carcinogen promoter sequence effects of mouse skin tumorigenesis and cellular growth kinetics. *Ind. J. Exptl. Biol.*, 31: 663-666, 1993
- 44 Bagwe AN, Ramchandani AG and Bhisey RA: Skin tumor promoting activity of processed bidi tobacco in hairless S/RV Cri-ba mice. *J. Cancer Res. Clin. Oncol.*, 120: 485-489, 1994
- 45 Niphadkar MP, Contractor Q and Bhisey RA: Mutagenic activity of gastric fluid from chewers of tobacco with lime. *Carcinogenesis*, 15: 927-931, 1994
- 46 Bhisey RA and Niphadkar MP: Experimental and human studies on mutagenic action of chewing tobacco: oral oncology, Vol. III A, *International cancer congress*, (ed. AK Verma) Publ. McMillan India Ltd.,(1994), pp. 227-230
- 47 Mahimkar MB and Bhisey RA: Occupational exposure to bidi tobacco increases chromosomal aberrations in tobacco processors. *Mutat. Res.*, 334, 134-144, 1995
- 48 Bagwe AN and Bhisey RA: Occupational exposure to unburnt bidi tobacco elevates mutagenic burden among tobacco processors. *Carcinogenesis*, 15 1095-1099, 1995
- 49 Niphadkar MP, Bagwe AN and Bhisey RA: Mutagenic potential of Indian tobacco products. *Mutagenesis*, 11(2), 151-154, 1996
- 50 MB Mahimkar and RA Bhisey: Genotoxic effects of occupational tobacco exposure in bidi industry workers. In: *Environmental pollution and genetic risk*. M. Hema Prasad & PP Reddy Ed Inst of Genetics, Osmania Univ, Hyderabad, pp. 95-102, 1997
- 51 Chapters in 'Techniques in Cancer Research – A laboratory Manual' ed M.G. Deo, A . M. Bhisey, R. Seshadri, R. Mulherkar, R Mukhopadhyaya 1997.

- 52 Ramchandani AG, D'Souza AV, Borges AM and Bhisey RA: Evaluation of carcinogenic/co-carcinogenic activity of common chewing product, pan masala, in mouse skin stomach and esophagus. *Int. J. Cancer*, 75, 225-232 (1998)
- 53 Bhisey RA and Maru GB: Chemopreventive activity of tea: Current status. In proceedings of scientific meeting Hindustan Lever research, Bangalore. 'Current perspectives on food antioxidants in health' (ed) Krishnaswamy PR, pp. 27-33 (1998)
- 54 Book Review: 'IARC Hand books of cancer prevention- Vol I. – ' Non Steroidal anti-inflammatory drugs' *Ind. J. Med. Res.* 108, pp. 31, 1998
- 55 Bhisey RA, Bagwe AM, Mahimkar MB and Buch SC: Biological monitoring of bidi industry workers exposed occupationally to tobacco. *Toxicol. Lett* 108: 259-265, 1999
- 56 Bhisey RA, Ramchandani AG, D'Souza AV, Borges AM and Notani PN: Long term carcinogenicity of pan masala in Swiss mice. *Int. J. Cancer.* 83: 679-681, 1999.
- 57 Bhisey RA, Buch SC, Kotekar AS and Fakhri AR: Polymorphism at GSTM1 and CYP2D6 gene loci and modulation of oral cancer risk. *Proceedings of the 1st Conference of south Asian-Pacific Society of Human Genetics, Mumbai (1999)*
- 58 Bhisey RA Genotoxicity and Carcinogenicity of Pan Masala: A Review, *Proc, Indian Natl Science Academy* 1-12, 2000
- 59 Bagwe AN, Buch SC Mahimkar MB, Karthikeyan S and Bhisey RA: Environmental, Biological and Health monitoring of tobacco processing plant workers, in 'Tobacco Counters Health' ed A K Varma, *Proc World Assembly on Tobacco Counters Health 2000*
- 60 Buch SC, Fakhri AR and Bhisey RA: Glutathione S-transferase genotypes and individual susceptibility to oral cancer in 'Tobacco Counters Health' ed A K Varma, *Proc World Assembly on Tobacco Counters Health 2000*
- 61 Ramchandani AG, D'souza AV, Borges AM and Bhisey RA: Evaluation of the carcinogenic potential of Gutkha and chewing tobacco using animal bioassay in 'Tobacco Counters Health' ed A K Varma, *Proc World Assembly on Tobacco Counters Health 2000*
- 62 Buch SC, Kotekar AS, Kawle D, and Bhisey RA: Polymorphism at CYP and GST gene loci: *Eur J. Clin Pharmacol* : 57: 553-555, 2001

- 63 Mahimkar MB, Buch SG, Samant TA, Kapoor MD and Bhisey RA: Influence of smokeless tobacco exposure on detoxification status and chromosomal damage in male and female habitues: *Mut Research* 491: 111-117, 2001
- 64 Shah MD, Ramchandani AG, Mahimkar MB, Potdar PD, Bhisey AN and Bhisey RA: Effects of an aqueous extract of bidi tobacco on the growth of hamster tracheal epithelial cells: *Toxicol Letters*, 119: 1-9, 2001
- 65 Kotekar AS, and Bhisey RA: CYP1A1*2 and CYP1A1*3 polymorphisms cosegregate in the Indian population: *Anthrop.Anz.* 60: 255-260, 2002
- 66 Buch SC Notani PN and Bhisey RA: Polymorphisms at GSTM1, GSTM3 and GSTT1 gene loci and susceptibility to oral cancer in an Indian population *Carcinogenesis* 23: 803-807, 2002
- 67 Bhisey RA: Effects of occupational exposure to tobacco among bidi workers : ‘ Tobacco Research in India’: Proc of an expert group meeting on supporting efforts to reduce harm, New Delhi, India, 2002
- 68 Bhisey RA, Kotekar AN and Buch SC: Polymorphism at CYP and GST gene loci and susceptibility to tobacco related cancers *Proc Ind Natl Sci Acad.* B69 No 1 35-48 2003
69. Bhisey RA: Chemistry and Toxicology of tobacco products used in India : ‘ Report on tobacco control in India ’ed K Srinath Reddy,”Prakash C Gupta, 73-76, 2004
- 70 Bhisey RA : IARC Monographs: Betel-quid and Areca-nut chewing and some Areca-nut-derived Nitrosamines. *Studies of Cancer in Experimental Animals*, vol 85: 142-160, Bidi tobacco, *Mishri* and *naswar* 2004
- 71 .Bhisey RA IARC Monographs: Smoleless Tobacco and some Tobacco-specific N-Nitrosamines: *Studies of Cancer in Experimental Animals* vol 89: 233-251 2007
- 72 Devasena A , Chaubal PM, Kannan S, Bhisey RA, Mahimkar MB. Susceptibility to oral cancer by genetic polymorphisms at CYP1A1, GSTM1 and GSTT1 loci among Indians: tobacco exposure as a risk modulator. *Carcinogenesis.* 28(7):1455-62. 2007
- 73 Varela-Lema L1, Taioli E, 73.Varela-Lema L1, Taioli E, Ruano-Ravina A, Barros-Dios JM, Anantharaman D, Benhamou S, Boccia S, **Bhisey RA**, Cadoni G, Capoluongo E, Chen CJ, Foulkes W, Goloni-Bertollo EM, Hatagima A, Hayes RB, Katoh T, Koifman S, Lazarus P, Manni

JJ, Mahimkar M, Morita S, Park J, Park KK, Pavarino Bertelli EC, de Souza Fonseca Ribeiro EM, Roy B, Spitz MR, Strange RC, Wei Q, Ragin CC: Meta and pooled analysis of GSTM1 and CYP1A1 polymorphisms and oral and pharyngeal cancers: A HUGE GSEC Review, Genetics in Medicine 10(6) 369-384, 2008

74. Bhisey RA: IARC Monographs, Personal Habits and indoor combustions- A Review of Human Carcinogens: vol 100E: 296-309 2012

75 Bhisey RA- Review on 'Chemistry and Toxicology of Smokeless Tobacco' Ind J Cancer 49: 364-372 2012

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