

## Template Format for NICPR Scientific Staff Information

**Name: Dr. Sanjay Gupta**

**Designation: Scientist G & Coordinator**

**Division/Department: Cytopathology**

**Educational Qualification: MBBS, MD**

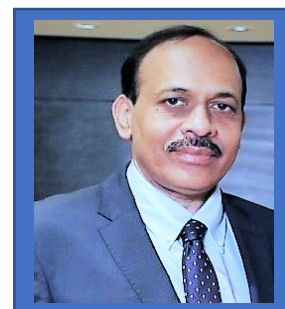
**Work Experience: 34 years (post-MD)**

**Research Interests: Cervical and oral cancer screening, Translational research, Oncopathology**

**Membership of Professional Societies:** Indian Academy of Cytology, Indian Association of Pathologists and Microbiologists, Noida Association of Pathologists and Microbiologists, Tele-pathology Society of India, Indian Medical Association, Delhi Medical Association

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

- Poster selected among 5 best posters' Cervical cyto-histology correlation as per American Society for Cytopathology Guidelines: Implementation experience at a cancer research centre" in International Cytology Congress, Sydney, May 2019
- 2nd Prize for poster "Cervical Cytologic-histologic correlation as per ASC guidelines: a quality assurance exercise". at 7th Annual Conference of Delhi Chapter of IAC, organized by Army Hospital RR, 15th Sept 2018
- Best paper prize "Evaluation of p16ink4a as a biomarker in cervical intraepithelial neoplasia" in AOGIN conference at Mumbai, 2012
- 1st prize for paper "Rehydration of cervical smears –a feasible alternative to conventional wet fixation" awarded in 15th Annual Chapter Meeting of Delhi IAPM, MAMC, Delhi, 2003
- 2<sup>nd</sup> prize for paper "Role of Ductal Lavage cytology in diagnosis of breast cancer" awarded 2nd prize at 33rd Annual Conference of IAC, Pune, 2003
- 2<sup>nd</sup> Prize for poster "Hyaline globules in Breast aspirates" in 31st IAC Conference, Hyderabad, Nov 2001.
- Best paper prize for poster "Cytomorphological spectrum of filariasis in India" in 49th Annual IAPM Conference, Delhi, Dec 2000



## Publications:

- Gupta R, Kaur A, Sandeep, Singh S, **Gupta S**. Anal cytological abnormalities and human papillomavirus infection in women living with HIV: A systematic review and meta-analysis. *HIV Med*. 2022 Apr;23(4):378-389.
- Gupta R, Nethan ST, Sinha DN, **Gupta S**, Singh S. Systematic review of determinants and interventions of areca nut cessation: curbing a public health menace. *J Public Health (Oxf)*. 2022 Jan 29;fdab411. Epub ahead of print.
- Gupta R, Mariano LC, Nethan ST, Kedar A, Sinha DN, Warnakulasuriya S, Monteiro L, Sharma S, **Gupta S**, Singh S, Straif K. Risk Reversal of Oral, Pharyngeal and Oesophageal Cancers after Cessation of Betel Quid Users: A Systematic Review and Meta-Analysis. *Ann Glob Health*. 2022 Jan 11;88(1):5.
- Gupta R, Kumar N, Sood N, Sharda A, Kumar D, **Gupta S**. Knowledge, practice and skills in cytology-based cervical cancer screening: Impact assessment of training workshop for the pathologists. *J Cancer Ed* 2022 Feb;37(1):58-64.
- Sood N, Arya B, Gupta R, **Gupta S**. Sialadenoma papilliferum of a minor salivary gland with transformation to mucoepidermoid carcinoma. *J Postgrad Med* 2022; 68:112-4.
- Gupta R, Verma CP, Amita, **Gupta S**. Cervical cancer screening: Is the age group 30-65 years optimum for screening in low resource settings? *The Journal of Obstetrics and Gynecology of India* 2021: 1-7.
- Dhansekhara K, **Gupta S**, Ramaskrishna U, Hariprasad R. Congenital Transformation Zone mimicking Cervical Premalignant Lesion. Published online in *The Journal of Obstetrics and Gynecology of India* 2021 Oct;71(5):557-559.
- Gupta R, **Gupta S**, Sharma S, Sinha DN, Mehrotra R Association of smokeless tobacco and cerebrovascular accident: a systematic review and meta-analysis of global data. *J Public Health (Oxf)*. 2020; 42(2): e150-e157.
- Gupta R, Hariprasad R, Dhansekhara K, Sodhani P, Mehrotra R, Kumar N, **Gupta S**. Reappraisal of cytology-histology correlation in cervical cytology based on the recent American Society of Cytopathology Guidelines (2017) at a cancer research centre. *Cytopathology*. 2020; 31: 53-58.
- Kumar N, Gupta R, **Gupta S**. Inadequate clinical data on Pap test request form: Where are we headed in the era of precision medicine? *CytoJournal* 2020; 17: 1-5.
- Gupta R, Sardana S, Sharda A, Kumar D, Amita, Verma CP, **Gupta S**. Impact of introduction of endocervical brush on cytologic detection of cervical epithelial cell abnormalities: A clinical audit of 13 years' experience at a cancer research centre. *Eur J Obstet Gynecol Rep Biol* 2020; 250:126-129.
- Gupta R, Hariprasad R, Dhansekhara K, **Gupta S**. Malignant perivascular epithelioid tumor of the vagina: report of a rare case with brief review of literature. *Diagn Cytopathol* 2020; 48:483-488.
- Kumar N, Gupta R, **Gupta S**. Whole slide imaging (WSI) in Pathology: Current perspectives and future directions. *J Digit Imaging* 2020; 33: 1034-1040.
- Kumar N, Gupta R, **Gupta S**. Molecular testing in diagnosis of indeterminate thyroid cytology: Trends and Drivers. *Diagn Cytopathol* 2020; 48: 1144-1151
- Yadav K, Babu R, Hariprasad R, Gupta R, Kumari M, Mehrotra R, Kumar S, Naik N, **Gupta S**, Singh S. Perspectives of health care providers and general population on a cancer awareness portal: a qualitative study. *J Cancer Ed* Published online Aug 2020
- Gupta R, Sharma S, Verma S, Singh L, Gupta CR, **Gupta S**. Pediatric fine needle aspiration cytology: an audit of 266 cases of pediatric tumors with cytologic-histologic correlation. *CytoJournal* 2020; 17: 25.
- Kumar N, Gupta R, **Gupta S**. Cytologic diagnosis of a rare soft-tissue lesion: Think beyond the usual. *CytoJournal* 2020; 17: 24.
- Yadav K, Upadhyay S, Chandra A, Hariprasad R, Gupta R, Mehrotra R, Singh S, **Gupta S**. Evaluation of 'India against Cancer' Web Portal Using Environmental Scan

and Google Analytics. *International Journal of Scientific Research in Network Security and Communication* 2020; 8: 14-20.

- Yadav K, Hariprasad, R, Gupta R, Mehrotra R, Kumari M, **Kumar S**, Gupta S, Singh S. Development of an India-Specific Cancer Web Portal: An Educational Tool for Cancer Awareness and Community Engagement. *International Journal of Scientific Research in Network Security and Communication* 2020; 8: 16-24.
- Narain R, Sardana S, **Gupta S**. Prevalence and risk factors associated with substance use among children: A questionnaire-based survey in two cities of Uttar Pradesh, India. *Ind J Psychiatry* 2020; 62: 517-523.
- Sood N, Gupta R, **Gupta S**. Invasive solid papillary carcinoma: Report of the first case presenting as an occult breast carcinoma in a male. *Indian J Pathol Microbiol* 2020; 63 (Special): S141-2.
- Grover S, Sinha DN, **Gupta S**, Gupta PC, Mehrotra R. The changing face of risk factors for non-communicable diseases in Myanmar: findings from 2009 and 2014 WHO STEP surveys. *J Pub Health (Oxf)* 2019; 41(4): 750-756.
- Gupta R, **Gupta S**, Sharma S, Sinha D, Mehrotra R. Risk of Coronary heart disease among smokeless tobacco user: results of systematic review and meta-analysis. *Nicotine and Tob Res* 2019; 21: 25-31
- Sood N, Sooin N, Gupta R, **Gupta S**. Metaplastic carcinoma of the breast: A diagnostic challenge on fine needle aspiration cytology. *Cytopathology* 2019; 30: 253–255.
- Gupta R, **Gupta S**, Mehrotra R, Sodhani P. Risk factors of breast cancer and breast self-examination in early detection: systematic review of awareness among Indian women in community and health care professionals. *J Pub Health* 2019 pp. 1–14.
- Dhanasekaran K, Verma C, Kumar V, Hariprasad R, Gupta R, **Gupta S**, Mehrotra R. Cervical Cancer Screening Services at Tertiary Healthcare Facility: An Alternative Approach. *Asian Pac J Cancer Prev* 2019; 20 (4): 1265-1269.
- Kumar N, Gupta R, **Gupta S**. Glandular cell abnormalities in cervical cytology: What has changed in this decade and what has not? *Eur J Obstet Gynecol Rep Biol* 2019; 240: 68-73.
- Gupta R, Sodhani P, Mehrotra R, **Gupta S**. Cervical high-grade squamous intraepithelial lesion on conventional cytology: Cytological patterns, pitfalls, and diagnostic clues. *Diagn Cytopathol* 2019; 47: 1267-1277.
- Gupta R, Yadav R, Sharda A, Kumar D, Sandeep, Mehrotra R, **Gupta S**. Comparative evaluation of conventional cytology and a low cost liquid based cytology technique, EziPREP™, for cervico-vaginal smear reporting: A split sample study. *CytoJournal* 2019; 16: 1-8.
- Sood N, **Gupta S**, Sooin N. Metaplastic Carcinoma of Breast: Case Series with Cytohistological correlation. *Ind J Med Pediatr Oncol.* 2019; 40: 440-444.
- Sinha DN, Kumar A, Gupta R, Gulati HK, **Gupta S**, Mehrotra R. Implementation of Article 20 of the World Health Organization Framework Convention on Tobacco Control. *Ind J Med Res* 2018; 148: 110-115.
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- Hariprasad R, Sodhani P, **Gupta S**, Mehrotra R. Opportunistic cervical cancer screening of women visitors at a Trade Fair in New Delhi. *Ind J Med Res* 2017; 145: 144-146.
- Sodhani P, **Gupta S**, Gupta R, Mehrotra R. Bacterial Vaginosis and Cervical Intraepithelial Neoplasia: Is there an Association or is Co-Existence Incidental? *Asian Pac J Cancer Prev* 2017; 18 (5): 1289-1292.
- Gupta R, **Gupta S**, Mehrotra R, Sodhani P. Cervical Cancer Screening in Resource-Constrained Countries: Current Status and Future Directions. *Asian Pac J Cancer Prev* 2017; 18 (6): 1461-1467

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- Joshi S, Kulkarni V, Darak T, Mahajan U, Srivastava Y, **Gupta S**, Krishnan S, Mandolkar M, Bharti AC. Cervical cancer screening and treatment of cervical intraepithelial neoplasia in female sex workers using “screen and treat” approach. *International Journal of Women’s Health* 2015;7 477–483.
- Sharma A, **Gupta S**, Sodhani P, Singh V, Sehgal A, Sardana S, Mehrotra R, Sharma JK. Glutathione S-transferase M1 and T1 Polymorphisms, Cigarette Smoking and HPV Infection in Precancerous and Cancerous Lesions of the Uterine Cervix. *Asian Pac J Cancer Prev*. 2015; 16: 6429-38.
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- Sharma V, Sonkar SC, Hussain S, Singhal P, Kumar A, Sharma S, **Gupta S**, Saluja D, Bharadwaj M, Ramachandran VG, Mehrotra R, Khan MA. 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: 363-374.
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- Parashari A, Singh V, Mittal T, Ahmed S, Grewal H, **Gupta S**, Sehgal A. Low cost technology for screening early cancerous lesions of oral cavity in rural settings. *Ann Med Health Sci Res* 2014; 4:146-148.
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- Jeronimo J, Bansil P, Lim J, Peck R, BS, Paul P, Amador JJ, Mirembe F, Byamugisha J, Poli UR, Satyanarayana L, Asthana S, and the **START-UP Study Group**. A multicountry evaluation of careHPV testing, visual inspection with acetic acid, and Papanicolaou testing for the detection of cervical cancer. *Int J Gynecol Cancer* 2014; 24: 576-585.
- Singh V, Parashari A, **Gupta S**, Sodhani P, Sehgal A. Performance of a low cost magnifying device, magnivisualizer, versus colposcope for detection of pre-cancer and cancerous lesions of uterine cervix. *J Gynecol Oncol* 2014; 25: 282-286
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- Narain R, Sardana S, **Gupta S**, Sehgal A. Risk factors associated with tobacco habits among adolescents: A cross-sectional school-based study from Noida city, India. *The National Med J India*. 2013; 26: 197-202.
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- Singhal P, **Gupta S**. Comparative cytomorphological profile of paediatric and adult lymphadenopathy with emphasis on smear characteristics in tuberculous lymphadenitis. *Ind J Pub Health Res and Dev* 2012; 3: 127-130.
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- **Gupta S**, Sodhani P, Sharma A, Sharma J.K, Halder K, Chachra K.L, Sardana S, Singh V, Sehgal A, Das B.C. Prevalence of high-risk human papillomavirus types 16 /18 infection of uterine cervix among women with normal cytology: Risk factor analysis and implications for cervical cancer screening and prophylaxis. *Cytopathology* 2009; 20: 249-255.
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- **Gupta S**, Sodhani P, Halder K, Chachra K.L, Singh V, Sehgal A. Age trends in pre-cancerous and cancerous lesions of uterine cervix in a cytology screening programme: What should be the target age group for major thrust of screening in resource limited settings? *Cytopathology* 2008; 19: 606-610.
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- Gupta A, Arora R, **Gupta S**, Kailash U, Prusty BK, Batra S, Das BC. Human Papillomavirus DNA IN urine samples of women with or without cervical cancer and their male partners compared with simultaneously collected cervical/penile smear or biopsy specimens. *J Clin Virol* 2006; 37: 190-194.
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- Sodhani P, Grag S, Bhalla P, Singh M.M, Sharma S, **Gupta S**. Prevalence of Bacterial vaginosis in a community setting and role of Pap Smear in its detection. *Acta Cytol* 2005; 49: 634-638.
- **Gupta S**, Sodhani P, Singh V, Pant JN, Chachra KL, Bhatt NC, Sardana S. Rapid Rescreening of cervical smears by cytopathologists: Experience at a WHO collaborating centre for Research in Cytology. *Indian J Pathol Microbiol* 2004; 47: 8-10.
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- Jain S, **Gupta S**, Kumar N, P.Sodhani Extracellular hyaline material in association with other morphologic features in aspirates from collagenous spherulosis and adenoid cystic carcinoma of the breast. *Acta Cytol* 2003; 47: 381-386
- **Gupta S**, Sodhani P, Jain S. Acantholytic cells exfoliated from Pemphigus Vulgaris of uterine cervix: a diagnostic pitfall on cervical cytology: Case report. *Acta Cytol* 2003; 47: 795-798

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- **Gupta S**, Sodhani P. Sialadenosis of parotid gland: A cytomorphologic and morphometric study of four cases. *Anal Quant. Cytol Histol* 1998; 20: 225-228
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- **Gupta S**, Bhatia A. Morphologic and immunohistochemical spectrum in anorectal malignancies. *Ind J Med Res* 1994; 99: 173-178.
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- Sethi S, Agarwal S, Dev G, Bhatnagar G, **Gupta S**. Cystic nephroma – An unusual cystic renal lesion. Ind J Pathol Microbiol 1992; 35: 255-260.
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#### **Popular articles/op-ed/media-coverage: (latest first and provide title and link):**

- Age at initiation & prevalence of tobacco use among school children in Noida, India: A cross-sectional questionnaire-based survey (2011) – **Cit 178**
- Urine HPV-DNA detection for cervical cancer screening: prospects and prejudices (2009) – **Cit 47**
- Human papillomavirus type 16 variant analysis of E6, E7, and L1 genes and long control region in biopsy samples from cervical cancer patients in north India (2008) – **Cit 134**
- Human papillomavirus DNA in urine samples of women with or without cervical cancer and their male partners compared with simultaneously collected cervical/penile smear or biopsy specimens (2006) – **Cit 63**
- Microfilariae in association with neoplastic lesions: Report of five cases (2001) – **Cit 62**

#### **Presentations/Talks/Lectures:**

- 'Cytology of squamous epithelial lesions of the cervix – 'ASC' and 'Low grade lesions': patterns & pitfalls', 'Cytology of 'High grade squamous lesions of the cervix', Case-based discussions on colposcopic-histologic correlation of screen-positive case and Virtual interactive slide sessions on cytology of normal, infections and SIL lesions of uterine cervix at the **NICPR-ECHO Online Certificate Course on Cervical Cancer Screening for Pathologists**, Feb 23rd – Apr 29th, 2022.
- Invited as judge for a session on Oral Presentations at the **50<sup>th</sup> online Annual Conference of Indian Academy of Cytologists**, hosted by AIIMS New Delhi, 19<sup>th</sup>-21<sup>st</sup> Nov 2021.
- Invited as Judge for Oral presentations at the **8th Dr. Sriramachari Young Scientist awards**, at ICMR-NIP 10th Nov, 2021.
- Chaired a session on neuroendocrine tumors of GIT and Keynote lecture on carcinoma of colon at the **CME on Tumors and Mimics of GIT & Hepatobiliary Tract: Revisiting the Past & Exploring the Future**, organized by GIMS, Greater Noida, Oct 8, 2021.
- 'Cytology of squamous epithelial lesions of the cervix – 'ASC' and 'Low grade lesions': patterns & pitfalls' and 'Cytology of 'High grade squamous lesions of the cervix' at **1st Virtual National Workshop on Cervical Cancer Screening for Pathologists** organized by the Division of Cytopathology, ICMR-NICPR, Noida from 26th - 30th July 2021.



- 'We Hope' Seminar on 'Cervical Cancer Screening effective with two tests or one? Co-testing vs Primary LBC' organized by BD India, 24th Feb 2021 - Invited as a panelist
- 'Benign cellular changes and specific infections in cervical cytology' in **Diagnostic week- National Conference 2020**- Organized by MELAP 21<sup>st</sup>- 27<sup>th</sup> September 2020.
- 'Morphology of Squamous cell abnormalities of uterine cervix' at **10<sup>th</sup> Hands-on training workshop on cervical cancer screening for the pathologists**- organized by ICMR-NICPR, March 4-6, 2020.
- 'Introduction to cervical cancer screening and screening modalities' at **Advanced cancer screening training program for Gynecologists (ACSTP-G3)**, hosted by NICPR ECHO course, November 25, 2019.
- "HPV and beyond" in **Workshop on Liquid based Cytology at 49<sup>th</sup> Annual conference of Indian Academy of Cytologists**, PGIMER Chandigarh, Nov 8-10, 2019.
- "Writing Methods Section of a Research Paper" in **ICMR-AU-STRC Workshop on Research Methodology & Bio- statistical Analysis**, organized by ICMR-NICPR, Oct 22-25, 2019.
- 'Cytology of Squamous abnormalities of uterine cervix' in **UP Cytocon 2019- 7<sup>th</sup> Annual Conference of UP Chapter of Indian Association of Cytopathologists**, Sept 28-29, 2019 (Conference on Cytopathology and workshop on cervical cytology) – ICMR-NICPR & SSPH PGTI
- 'Cervical cancer screening recommendation' in **ICMR-AU-STRC Hands-on Workshop on Cervical Cancer Screening for the Pathologists**, Sept 11-13, 2019, organized by ICMR-NICPR.
- 'Squamous epithelial abnormalities of uterine cervix- patterns and pitfalls' in **ICMR-AU-STRC Hands-on Workshop on Cervical Cancer Screening for the Pathologists**, Sept 11-13, 2019, organized by ICMR-NICPR.
- 'Specimen processing and Pap smear interpretation' and 'Bethesda System of reporting cervico-vaginal cytology' in **ISCCP Certified Colposcopy Training Program**, organized by NICPR, Sept 12-13, 2019.
- 'Integrating Smokeless Tobacco Control in other health streams' in **Online capacity building for Smokeless Tobacco Control**, organized by SLT KH, NICPR, July 19, 2019.
- 'Cervical cyto-histologic correlation as per the ASC guidelines (2017): implementation experience at a cancer research centre' at **International Cytology Congress, Sydney Australia** May 5-9, 2019.
- 'Perspectives in Pediatric Effusion Cytology' in **CME on Pediatric Pathology: current trends and perspectives**, organized by SSPH & PGTI Noida, March 16, 2019.

- 'Morphology of Squamous cell abnormalities of uterine cervix' in **9<sup>th</sup> Hands-on training workshop on cervical cancer screening for the pathologists**- organized by ICMR-NICPR, Feb 26-28, 2019
- "Role of HPV and emerging biomarkers in cervical cancer screening" in Workshop on LBC and HPV, in **PATHCON and Lab Expo**, New Delhi, Dec 15-16, 2018.
- 'Panel discussion on women cancers' in **Evidence to policy lecture and Symposium on Women cancers**, organized by The George Institute of Global Health at India Habitat Centre Dec 10, 2018.
- 'Cervical cancer screening strategies' in **Advanced training program on cancer screening for medical officers**, organized by NICPR-ECHO Dec 12, 2018
- 'Cervical cytology- Interpretation of Pap smear results' in 'Hands-on workshop on Screening for common cancers' organized by NICPR, Sept 18-20, 2018.
- 'Writing a research paper for a Biomedical journal' in **Bio-Statistical Analysis on SPSS & Research Paper Writing**, organized by NICPR, Noida Sept 10-14, 2018.
- 'Screening Recommendations for cervical cancer' and 'Squamous epithelial cell abnormalities of cervix' in **Hands on workshop on cervical cancer screening for pathologists**, NICPR Aug 29-31, 2018.
- 'Cervical cytology and interpretation of Pap smear results' in **Workshop on cervical and breast cancer screening for Gynecologists**, organized by ICMR- NICPR July 22-24, 2018.
- '*Patterns and pitfalls in squamous epithelial cell lesion of cervix*' in **CME on gray zones and diagnostic challenges in Breast, Thyroid, Broncho-pulmonary and cervical cytology**, organized by ICMR-NICPR, June 4-5, 2018.
- 'Virtual Training on Cancer Prevention: Introduction' in **NICPR-ECHO training program on cancer screening for beginners**, NICPR, May 22, 2018.
- 'Screening Recommendations for cervical cancer' and 'Squamous epithelial cell abnormalities of cervix' in **Hands on Training Workshop on cervical cancer screening for the pathologists**. NICPR, Feb 19-21, 2018.
- 'Operational Framework for screening of common cancers' in '**Training of trainers for cancer screening**' for medical officers organized by NICD at Vardhman Mahavir Medical College, New Delhi Oct 2017.
- 'HPV testing in cervical cancer screening' in UP Chapter of IAC, organized by Teerthankar Mahaveer Medical College and Research Centre, Moradabad, Feb 24, 2015
- 'Cervical cancer screening: Has the Pap test lost its glory in the wonderland of emerging biomarkers?' in **Half yearly Delhi Chapter meet of IAC**, at UCMS, Delhi, March 24, 2014.

- ‘Writing a Research Paper for a Bio-medical Journal’ in **5th Training course on Bio-Statistics and Epidemiology in Biomedical Research: Orientation Course in ‘Medical Research Methodology & Biostatistical Methods of analysis’** at ICPO, Noida, Jan 6-8, 2010.
- ‘Writing a Research Paper for a Bio-medical Journal’ in **4th Training course on Bio-Statistics and Epidemiology in Biomedical Research: Orientation Course in ‘Medical Research Methodology & Biostatistical Methods of analysis’** at ICPO, Noida July 7-9, 2009

### **Projects:**

- **Ongoing**

- Brain-derived neurotrophic factor (BDNF) and its receptor, TrkB in gall bladder carcinoma: potential biomarkers and prognostic markers (ICMR-funded) – Co-investigator, Mar 2021 – Mar 2024
- Identification of rare variants in Pattern recognition receptors (PPRs) and their crosstalk with Interleukins and NF-κB to understand the functional Implications in Reproductive Tract Infections (RTIs) (ICMR-funded) – Co-investigator, 2020 – 2023
- Development of low-cost automated screening system for cervical cancer, CerviSCAN-II (funded by DHR & MeITY), Site Investigator, Dec 2018 – Sept 2020 (further extension awaited)

- **Completed**

- Prevalence of concurrent cervical and anal cytologic abnormalities and high-risk HPV infection in HIV-infected women: An exploratory study (ICMR-funded), Principal Investigator, Jul 2019 – Apr 2022
- Evaluation of a web-portal for cancer awareness for general population and level- 1 care providers (ICMR), Principal Investigator; 2017 – 2020
- Evaluation of Breastlight as a tool for early detection of breast cancer in women positive on clinical breast examination or at high risk of having breast cancer (Intramural in collaboration with IARC), Co-investigator; 2018 – 2020.
- Empowering community actors to promote cancer prevention in India (Research Triangle International), Co-investigator; 2016
- HIV and HPV co-infection among female sex workers (ICMR-funded), Co-investigator; 2012-2014
- Screening for cancer of cervix by aided visual and HPV tests in a rural community (ICMR-funded), Co-investigator; 2009 – 2012
- Care HPV versus other options of screening for cervical cancer in a rural community – a demonstration Project (Bill & Melinda Gates Foundation), Co-investigator; 2010-2012
- Field trial of Magnivisualizer for detection of early precancerous lesions of oral cavity amongst chronic tobacco users (DST-funded), Co-investigator; 2010-2012
- Comparative role of environmental and genetic factors in cervical carcinogenesis. (DST); 2000-2004
- Prevalence of High risk HPV infection among Indian women in reproductive age group with normal cervical smears (Intramural), Co-investigator, 2000 – 2003.

**Brief Biosketch:** I am currently working as Scientist G & Coordinator of the Division of Cytopathology, ICMR-National Institute of Cancer Prevention and Research, Noida. My niche areas of research encompass cytology-based screening for cervical, oral and breast cancer and translational research. I have spearheaded/participated in operational and implementation research projects with focus on developing cost-effective protocols to augment cervical and oral cancer screening in resource poor settings. I contributed in field testing and validation of low-cost modalities for cervical cancer screening viz, Magnivisualizer and care HPV. I also handled flagship programs of the Institute namely, India specific cancer web-portal (cancerindia.org.in) and establishment of WHO FCTC Global Knowledge Hub on Smokeless Tobacco Products. I was invited as a technical expert in the formulation of the Operational Framework guidelines for population wide screening and management of common cancers in India. I have been the Course Director of a series of capacity building Hands-on as well as Virtual workshops on cervical cancer screening for pathologists. I am the Course Director, ECHO Lead and Facilitator for the NICPR-ECHO Online Certificate Course on Cervical Cancer Screening for Pathologists. I have published many research articles in peer reviewed journals and contributed chapters in Technical manuals for health care workers. My present area of work focusses on cervical and anal cancer screening in HIV-infected women.

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