

RESUME

Name	Dr. Sujala Kapur, M.D.,
Designation	Scientist E
Address	Institute of Pathology (ICMR) Safdarjung Hospital Campus, New Delhi – 110029.
Telephone	2619 8402-06
Fax	2619 8401
Email	sujalakapur@gmail.com

Current Research Interests

- Gene expression, copy number variations and high throughput sequencing using microarrays, Affymetrix and Illumina based platforms and validation by Quantitative real time RT-PCR
- Molecular biomarkers in hematopoietic lymphoid malignancies.
- Flow cytometric assays to analyse chemotherapeutic sensitivity in leukaemic cells

Extramural projects

- Tobacco Use and Pesticide Exposure in causation of carcinoma oesophagus and other cancers at North East India (*Collaborative, Multicentric, ICMR Task Force Projects*) (3).
- Immunogenetic profile of nasopharyngeal cancer in a high-prevalence region of Northeast India (*Collaborative, Multicentric, DBT Project*) (1).
- Flow cytometric assays to evaluate prognosis and patient's response to chemotherapy in acute leukemia (*Extramural ICMR Project*) (1).

Fellowships/Award

- Awarded Scientific Fellowship, Kiel University, Germany, 1995 & 1998
- Awarded INSA Visiting Fellowship, 2004
- Awarded In-country WHO Fellowship, 2004

Training Programmes

- Training in Molecular Pathology, Kiel, Germany
- Training in Microarray Techniques at Department of Biochemistry, Indian Institute of Science, Bangalore and Ann Arbor, Michigan.
- Training in Laboratory Genetics at Department of Anatomy, All India Institute of Medical sciences, New Delhi.

Membership of Professional Societies

- Member, IAPM
- Member, IAPM, Delhi Chapter
- Member, Indian association of Cancer research
- Member, HUGO

Thesis guide for DNB/PhD/MSc students

DNB

- Cytochemical, immunocytochemical, flow cytometric analysis and endothelial-mesenchymal interaction in acute leukemia, acute and chronic myeloid disorders and lymphoproliferative disorders (3).
- Histopathological analysis, cytokeratin expression, angiogenic factors and Helicobacter pylori associated changes in upper gastrointestinal lesions (3).

Ph.D. Thesis Completed

- Expression pattern of apoptotic and proliferative related proteins in chemosensitive and chemoresistant patients with acute leukemia. 2009.
- Differential gene expression pattern in oesophageal carcinoma. 2009

Ongoing Ph.D. Thesis

- Gene expression profile and genetic variation in oral cancer associated with tobacco consumption.
- Molecular biomarkers in hematopoietic lymphoid malignancies and their association with pesticides.

M.Sc.

- p53 status in acute leukemia
- Expression pattern of drug-resistance related proteins in acute leukemic cells
- Flow cytometric toxicity assay in patients with acute leukemia

Publications

- In Journals – 37
- In Books – 3
- In Proceedings/Abstracts – 43
-

LIST OF PUBLICATIONS

IN JOURNALS

1. Persistent lymphadenopathy - a cause for concern. *Ann. National Acad. Med. Sci (India)*. 27 (3&4): 171-176, 1991. **S. Kapur**, N. Jain, R.L. Gupta, Y.N. Singh & M.Chandra.
2. Epidemiological pattern of HIV infection in India. *JAMA (India)* 10 (27) 171-173, 1991. A.N. Malaviya, Y.N. Singh, M. Chandra & **S.Kapur**.
3. HIV infection in the blood donors of New Delhi, India 1½ years experience. *J Acquir immune Defic Syndr*. 4, 1008-9, 1991. Y.N. Singh, M.Chandra, A. Nanu, R.Bhasin, **S.Kapur**, N. Jain, A.K. Jain & M.Chandra
4. Viral particles in persistent generalised lymphadenopathy. *Indian J Pathol Microbiol*. 35(3) 201-208, 1992. **S.Kapur**, N. Jain, A.K. Jain & M. Chandra.
5. Cytologic detection of chlamydial inclusions in cervical smears: Papanicolaou versus Giemsa stain. *ActaCytol* 37(1), 108-109, 1993. **S. Kapur**, A.Mittal.
6. Chlamydial cervicitis: Role of culture, enzyme immunoassay and Giemsa cytology in diagnosis. *Acta Pathol Microbiol Immunol Scand (APMIS)*, 101, 37-40, 1993. A. Mittal, **S. Kapur**, & S.Gupta
7. Screening for genital chlamydial infection in symptomatic women. *Indian J Med Res*. 98, 119-123, 1993. A. Mittal, **S. Kapur**, & S.Gupta.
8. Prevalence of Chlamydia trachomatis infection in female genital tract. *Indian J Sex Transm Dis*. 15; 15-18, 1994. A. Mittal, **S. Kapur**, & S.Gupta.
9. Rising trend of HIV positive individuals among blood donors in Delhi. *Ind. J Sex Transm Dis*. 16; 15-17, 1995. R.Singh, **S. Kapur**, A. Mittal.
10. Clinical trial with Praneem polyherbal cream in patients with abnormal vaginal discharge due to microbial infection. *Australian & New Zealand J of Obst Gynaecol*. 1995, 35(2), 190. A. Mittal, **S. Kapur**, S.Garg, S. N. Upadhyaya, S. Suri, S.K. Das, S. Gupta, G. P. Talwar.
11. Infertility due to Chlamydia trachomatis infection: what is the appropriate site for obtaining samples? *Genitourin Med*. 71, 267-269, 1995. A. Mittal, **S. Kapur**, S. Gupta.

12. Host immune response in chlamydial cervicitis. *Br J Biomed Sci.* 53(3) 214-220 1996. A. Mittal, **S. Kapur**, S. Gupta.
13. Coexisting pathogens in cervicovaginal infection. *Ind J Sex Trans Dis.* 18, 1997. **S.Kapur**, S.Gupta, A.Mittal.
14. Incidence of HIV infection and its predictors in blood donors in Delhi. *Indian J Med Res*, 108, 45-50,1998. **S. Kapur**, A. Mittal.
15. Chlamydia trachomatis infection in pregnancy: risk factor for an adverse pregnancy outcome. *Br J Biomed Sci*, 56, 94-98, 1999. S.Rastogi, **S.Kapur**, S.Salhan, A.Mittal.
16. Early mycosis fungoides: Molecular analysis for its diagnosis and the absence of p53 gene mutations in cases with progression *J Dermatol Sci*, 26 (1), 36-45. 2001. **Kapur S**, Menke MAOH, Tiemann M, Schubert C, Parwadesh R.
17. Polymerase chain reaction for detection of endocervical Chlamydia trachomatis infection in Indian women attending gynaecology outpatient department. *Acta Cytol.* 46(3) 540-544, 2002. Singh V., Rastogi S., Garg S., **Kapur S.**, Kumar A., Salhan S. and Mittal A.
18. Cytochemical, immunocytochemical and flow cytometric analysis for the diagnosis of acute leukemia. S Saluja, **S Kapur**, M Sharma, DK Gupta, M Narang. *Ind J Med Paediatric Oncol.* 24 (3), 59-60, 2003.
19. The role of p53 and anaplastic lymphoma kinase genes in the progression n of cutaneous CD30+ lymphoproliferative diseases. **Kapur S**, Tiemann M, Menke AOH, Schubert C, Parwadesh R. *Ind J Med Res*, 121, 46-54, 2005.
20. Apoptotic and proliferative related gene expression in non-Hodgkin's lymphoma. Saluja S, Ghai R, Sharma M, Bhasin S, Gupta DK, Kataria S, **Kapur S.** *Ind J Med Res*, 121, Suppl, 95, 2005.
21. An Unusual Presentation of primary lymphoma of the thyroid in a young male patient. Ghai R, Bharat R, Sunita S, **Kapur S.** *Ind J Pathol Microbiol*, 48 (3), 385-87, 2005.
22. Extra-medullary lymphoid blast crisis in a patient of chronic myelogenous leukemia. Khunger JM, Arora S, Sharma U, **Kapur S.** (*Indian J. Hemat & Blood Transf.*; 23 (4): 39 – 40, 2005.
23. Congenital leukaemia: A case report. Khunger JM, Srivastava SK, Kapur S, Gupata DK. (*Indian J. Hemat & Blood Transf.*; 23 (4): 39 – 40, 2005.
24. Gene expression profile in esophageal cancer patients of Northeast region of India. Chatterji I, **Kapur S**, Mahanta J, Phukan RK, Barooah MN, Kataki AC, Purkayastha J, Saxena S. *J Cancer Res Ther*, 2 (1), S 20, 2006.
25. Limitation of FAB diagnosis in Acute leukemia. Bhushan B, Saluja S, Ahuja D, Verma S, Gupta DK, **Kapur S.** *J Cancer Res Ther*, 2 (1), S 22, 2006.
26. Reliability of detecting rRNA sequences of Chlamydia trachomatis with fluorescence in situ hybridization without amplification. **Kapur S**, Margoob A, Singh V, Guido K, Salhan S, Mittal A. *Acta Cytol*, 50(3): 277-83, 2006.
27. Gene expression profile of esophageal cancer in North East India by cDNA microarray analysis. Chattopadhyay I, **Kapur S**, Purkayastha J, Phukan RK, Kataki A, Mahanta J, Saxena S. *World J Gastroentero*, 13(9): 1438-1444, 2007.
28. Relation of cell viability and apoptosis with clinical remission following induction chemotherapy in ALL and AML. Bhushan B, Ahuja D, Verma S, Saluja S, Siddiqui S, **Kapur S.** *Journal of Experimental and Clinical Cancer Research.* 26 (3) September 2007.
29. Subcutaneous panniculitis-like T-cell cutaneous lymphoma. Singh A, Kumar J, **Kapur S**, Ramesh V. *Indian J Dermatol Venereol Leprol.* Mar-Apr, 74 (2): 151-3, 2008.

30. Cytokeratin immunoexpression in esophageal squamous cell carcinoma of high-risk population in Northeast India. Singh A; Kapur S; Chattopadhyay I; Purkayastha J; Sharma J; Mishra A; Hewitt S M; Saxena S. *Applied Immunohistochemistry & Molecular Morphology* 17 (5), 419-524, 2009.
31. Contribution of germline *BRCA2* sequence alterations to risk of familial esophageal cancer in high-risk area of India. Kaushal M, Chattopadhyay I, Phuka RK, Purkayastha J, Mahanta J, Kapur S, Saxena S. *Disease of the Esophagus*. 23:71-75, 2010.
32. Molecular profiling to identify molecular mechanism in esophageal cancer with familial clustering. Chattopadhyay I, Phukan RK, Singh A, Vasudeva M, Purkayastha J, Hewitt S, Katak A, Mahanta J, Kapur S, Saxena S. *Oncology Reports*, 21(5), 1135-46, 2009.
33. Aberrant phenotypes in childhood and adult acute leukemia and its association with adverse prognostic factors and clinical outcome. Bhushan B, Chauhan PS, Saluja S, Verma S, Mishra AK, Siddiqui S, Kapur S. *Clin Exp Med*. 2010 Mar;10(1):33-40.
34. Distribution of Glutathione S-transferase T1 and M1 genes polymorphisms in North East Indians: A potential report. Thoudam RD, Yadav DS, Mishra AK, Kaushal M, Ihsan R, Chattopadhyay I, Chauhan P, Sarma J, Zomawia E, Verma Y, Nandkumar A, Mahanta J, Phukan RK, Kapur S, Saxena S. *Genet Test Mol Biomarkers*. 2010 Jan 14. [Epub ahead of print] PMID: 20073549
35. Genome-wide analysis of chromosomal alterations in patients with esophageal squamous cell carcinoma exposed to tobacco and betel quid from high-risk area in India. Chattopadhyay I, Singh A, Phukan RK, Purkayastha J, Katak A, Mahanta J, Saxena S, Kapur S. *Mutat Res. - Genetic Toxicology and Environmental Mutagenesis* 696 (2010) 130–138. PMID: 20083228
36. Mutation of *FLT3* gene in acute myeloid leukemia with normal cytogenetics and its association with Clinical and Immunophenotypic features. Chauhan P, Kapur S. *Medical Oncology Clin Exp Med*. 2010 Mar;10 (1):33-40.
37. Role of *EPHX1* gene polymorphisms in esophageal cancer of high-risk area in India. Rakhshan Ihsan, Indranil Chatterjee, Rupkumar Phukan, Ashwani K Mishra, Joydeep Purkayastha, Jagannath Sharma, Eric Zamoawia, Yogesh Verma, Jagadish Mahanta, Sunita Saxena, Sujala Kapur. *J of Gastroenterology and Hepatology* (Accepted, 2010).