

Curriculum Vitae

Name (Dr./Kum./Smt./Shri) : **Dr. Ritu Gupta**

Designation : Additional Professor of Laboratory Oncology

E-mail address : driritugupta@gmail.com

Educational Qualification:

Degrees obtained (Begin with Bachelor's Degree)

| Degree | Institution | Field | Year |
|----------|--|-----------------|---------------|
| M.B.B.S. | J.L.N. Medical College, Ajmer, University of Rajasthan | Medical Science | March 1995 |
| M.D | K.M.C. Manipal, MAHE | Pathology | July 1999 |
| D.N.B | National Board of Examination, New Delhi | Pathology | December 1999 |

Work Experience

| Duration | Institution | Particulars of work done |
|-----------------------|------------------|---|
| July 2012 – Till date | AIIMS, New Delhi | Additional Professor of Laboratory Oncology, Dr. B.R.A.IRCH |
| July 2009 – June 2012 | AIIMS, New Delhi | Associate Professor of Laboratory Oncology, Dr. B.R.A.IRCH |
| Oct 05 – June 2009 | AIIMS, New Delhi | Assistant Professor of Laboratory Oncology, Dr. B.R.A.IRCH |
| Aug 03 – Oct 05 | SGPGIMS, Lucknow | Assistant Professor, Department of Hematology |

Awards/Honours

1. 'Kunti Devi Mehrotra award' for best published research work in India in 2005.

Publications:

1. Tilak Tsvvgk, Sharawat SK, **Gupta R**, Agarwala S, Khan SA, Rastogi S, Sreenivas V, Bakhshi S. Circulating T- regulatory cells in PNET: A prospective study. Pediatr Blood Cancer 2013
2. Ghosh J, Singh RKB, Saxena R, **Gupta R**, Vivekanandan S, Sreenivas V, Raina V, Sharma A, Kumar L. Prevalence and aetiology of anaemia in lymphoid malignancies. Natl Med J India 2013; 26: 79-81
3. Sharawat SK, **Gupta R**, Raina V, Kumar L, Sharma A, Iqbal S, Bakhshi R, Vishnubhatla S, Bakhshi S. Increased co-expression of c-KIT and FLT-3 receptors on myeloblasts: independent predictor of

- poor outcome in pediatric acute myeloid leukemia. Accepted in Cytometry: Part B - Clinical Cytometry 2013
4. Gogia A, **Gupta R**, Raina V. Disseminated tuberculosis mimicking relapse in Hairy cell leukemia. Accepted in Indian J Cancer 2013
 5. Gogia A, **Gupta R**, Raina V. Massive ascites as a presenting feature of Plasma Cell Leukemia. Accepted in Indian J Cancer 2013
 6. Gogia A, Sharma A, Raina V, Kumar L, **Gupta R**, Kumar R. Prevalence of ZAP70 and CD38 in Indian chronic lymphocytic leukemia patients. Accepted in Indian J Cancer 2013
 7. Gajendra S, **Gupta R**¶, Chandgothia M, Kumar L, Gupta R, Chavan SM. Chronic Neutrophilic Leukemia with V617F JAK2 Mutation. Indian J Hematol Blood Transfus DOI 10.1007/s12288-012-0203-6
 8. Sharawat SK, Bakhshi R, Vishnubhatla S, **Gupta R**, Bakhshi S. BAX/BCL2 RMFI ratio predicts better induction response in pediatric patients with acute myeloid leukemia. *Pediatr Blood Cancer*. 2013; 60:E63-6 (PMID: 23553948)
 9. Bhaskar A, **Gupta R**¶, Sreenivas V, Rani L, Kumar L, Sharma A, Sharma OD, Sharma MC, Thakur SC. Synergistic effect of vascular endothelial growth factor and angiopoietin-2 on progression free survival in multiple myeloma. *Leuk Res*. 2013; 37:410-415 (PMID:23332455)
 10. Baghmar S, Mohanti BK, Sharma A, Kumar L, Prakash G, Kumar S, **Gupta R**, Kumar R, Raina V. Solitary Plasmacytoma: 10 years experience at AIIMS, New Delhi. *Leuk Lymphoma*. 2013; 54:1665-70. (PMID: 23163525)
 11. Bhaskar A, **Gupta R**¶, Sreenivas V, Kumar L, Sharma A, Sharma MC, Prasenjit Das P, Thakur SC. Angiopoietins as biomarker of disease activity and response to therapy in multiple myeloma. *Leuk Lymphoma*. 2013; 54:1473-8 (PMID:23113684)
 12. Sharma A, Bahl A, Raina V, Kumar L, **Gupta R**. Dasatinib in chronic myeloid leukemia: A limited Indian experience. *Asia-Pacific Journal of Clinical Oncology*. 2012; 8:375-9 (PMID: 22897916)
 13. Gogia A, Sharma A, Raina V, Kumar L, Vishnubhatla S, **Gupta R**, Kumar R. Assessment of 285 cases of CLL seen at single large tertiary centre from Northern India. *Leuk Lymphoma*. 2012; 53:1961-5 (PMID:22475243)
 14. Gogia A, Sharma A, Raina V, **Gupta R**. Priapism as an initial presentation of chronic lymphocytic leukemia. *Leuk Lymphoma*. 2012;53:1638-9 (PMID:22242818)
 15. Bhaskar A, **Gupta R**¶, Kumar L, Sharma A, Sharma MC, Kalaivani M, Thakur SC. Circulating endothelial progenitor cells as potential prognostic biomarker in multiple myeloma. *Leuk Lymphoma*. 2012; 53:635-40. (PMID: 21973309)
 16. Ganeshan P, **Gupta R**¶, Hakim M, Kumar L, Bhaskar A, Sharma A. Reconstitution of regulatory T-cells after autologous transplantation in multiple myeloma. *Int J Hematol*. 2011 ;94:578-9 (PMID:22045305)
 17. Agrawal V, Gupta A, **Gupta R**¶, Sharma MC, Das P. Nonleukemic granulocytic sarcoma of kidney with mixed phenotype blasts: A diagnostic dilemma. *Indian J Pathol Microbiol*. 2011;54:606-8 (PMID:21934235)
 18. Smeeta G, **Gupta R**¶, Sharma A, Gupta R, Gogia A. Acute myeloid leukemia with Pseudo-Chediak Higashi granules and intracytoplasmic vacuoles. *Eur J Haematol*. 2011 Jun 16. doi: 10.1111/j.1600-0609.2011.01668.x. (PMID:21679254)
 19. Naseem S, Kaur S, **Gupta R**¶, Kashyap R, Nityanand S. Plasma Cell Leukemia: Case Series From a Tertiary Center with Review of Literature. **Ind J Hematol Blood Transfus** 2012; 28:10-14

20. **Gupta R[¶]**, Ganeshan P, Hakim M, Verma R, Sharma A, Kumar L. Significantly reduced regulatory T cell population in patients with untreated multiple myeloma. **Leukemia Research** 2011;35: 874-878 (PMID: 21146215)
21. Puri K, Singh P, Das RR, Seth R, **Gupta R**. Diagnostic dilemma of JMML coexisting with CMV infection. **Indian J Pediatr**. 2011; 78: 485-487 (PMID: 21193971)
22. Ghosh I, Bakhshi S, **Gupta R[¶]**. Acute Basophilic Leukemia in an Infant with Proptosis. **Indian J Pathol Microbiol** 2011; 54: 210-211 (PMID: 21393925)
23. Agarwal R, Sreenivas V, **Gupta R**, Bakhshi S. Diagnostic and Follow up Eosinophilia is not Predictive of Outcome in Childhood Acute Myeloid Leukemia. **J Pediatr Hematol Oncol** 2011;33:e51-53 (PMID: 21285899)
24. Panda D, Gupta N, **Gupta R**, Bakhshi S. Pediatric myelodysplastic syndrome with cytoplasmic vacuolation in myeloid precursors. **J Pediatric Hematol Oncol** 2011; 33:59-61 (PMID: 21178710)
25. Agarwal P, Sekhar Das S, **Gupta R**, Khetan D, Chaudhary R. Quantification of Feto-Maternal Hemorrhage: Selection of Techniques for a Resource-Poor Setting. **Gynecol Obstet Invest**. 2010;71:47-52 (PMID: 21160194)
26. Medhi K, Raina V, Kumar L, Sharma A, Bakhshi S, **Gupta R**, Kumar R. Response Assessment of chronic myeloid leukemia (CML) patients receiving imatinib mesylate (Glivec) therapy: Experience from a single center in developing country. **Leuk Lymphoma** 2010; 51:1850-1854 (PMID: 20849386)
27. Gupta N, Kumar S.S, **Gupta R[¶]**, Bakhshi S. Childhood chronic myeloid leukemia with monocytosis. **Indian J Pediatr** 2010; 77: 1143 (PMID: 20882436)
28. Prabhu SB, **Gupta R[¶]**, Seth R. Juvenile myelomonocytic leukemia presenting with co-existent cytomegalovirus infection – A case report. **J Pediatric Hematol Oncol** 2010;32(4):e153-4 (PMID: 20445410)
29. Singhal M, Raina V, **Gupta R**, Das P. T cell-prolymphocytic leukemia detected in a patient of breast cancer at the time of recurrence: a case report. **Cases Journal** 2010;3:4 (PMID: 20076807)
30. Agarwal R, **Gupta R[¶]**, Bakhshi S, Sharma A. Unusual cytochemical reactivity in granular acute lymphoblastic leukemia: A rare Case report. **Turk J Hematol** 2010;27:43-45
31. **Gupta R[¶]**, Bhaskar A, Kumar L, Sharma A, Jain P. Flow cytometric immunophenotyping and minimal residual disease analysis in multiple myeloma. **Am J Clin Pathol** 2009;132:728-732 (PMID: 19846814)
32. Ganesan P, Thulkar S, **Gupta R**, Bakhshi S. Childhood Aleukemic Leukemia with Hypercalcemia and Bone Lesions Mimicking Metabolic Bone Disease: Case Report and Review of Literature. **J Pediatric Endocrinology and Metabolism** 2009;22:463-467 (PMID: 19618667)
33. Bhaskar A, **Gupta R[¶]**, Sharma A, Kumar L, Jain P. Analysis of bone marrow plasma cells in patients with solitary bone plasmacytoma. **Cancer Therapy** 2009;7:49-52
34. Gupta N, **Gupta R[¶]**, Bakhshi S. Transient myeloproliferation mimicking JMML associated with parvovirus infection of infancy. **Pediatr Blood Cancer** 2009; 52: 411-413 (PMID: 18989883)
35. Srivastava S, **Gupta R[¶]**, Naseem S, , Kashyap R. Paroxysmal nocturnal hemoglobinuria clone in a case of myelodysplastic syndrome rapidly progressing to acute leukemia. **Ind J Hematol Blood Transfus** 2009;25(1):33-35
36. Agarwal R, **Gupta R[¶]**, Bhaskar A, Sharma A, Kumar L. Synchronous Presentation of Multiple Myeloma and Lung Cancer. **J Clin Oncol** 2008; 26:5814-5816 (PMID: 19001336)
37. Naseem S, **Gupta R[¶]**, Kashyap R, Nityanand S. T-cell prolymphocytic leukemia – A report of two cases with review of literature. **Ind J Hematol Blood Transfus** 2008;24(4):178-181

38. **Gupta R[¶]**, Pandey P, Choudhry R, Kashyap R, Mehrotra M, Naseem S, Nityanand S. A prospective comparison of four techniques for diagnosis of paroxysmal nocturnal hemoglobinuria. **Internat J Lab Hematol** 2007; 29:119-126 (PMID: 17474884)
39. **Gupta R[¶]**, Naseem S, Kashyap R, Paul L. Role of fine needle aspirate immunophenotyping by flow cytometry in rapid diagnosis of lymphoproliferative disorders. **Diagn Cytopathol.** 2007; 35:381-5 (PMID: 17580342)
40. **Gupta R[¶]**, Naseem S, Kashyap R, Nityanand S. Immunophenotypic patterns in precursor T-cell neoplasm. **Indian J Pathol Microbiol** 2007; 50:75-77 (PMID: 17474267)
41. Chaudhary R, Das SS, **Gupta R**, Khetan D. Application of flow cytometry in detection of red-cell bound IgG in coombs-negative AIHA. **Hematology** 2006 ; 11:295-300 (PMID : 17178671)
42. **Gupta R[¶]**, Jain P, Bakshi S, Sharma MC. Primary Hodgkin's disease of spleen – a case report. **Indian J Pathol Microbiol** 2006; 49:435-437 (PMID: 17001914)
43. Sharma A, Itha S, Baijal SS, **Gupta R**, Sonkar A, Aggarwal R. Superior sagittal sinus thrombosis and Budd-Chiari syndrome due to paroxysmal nocturnal hemoglobinuria managed with transjugular intrahepatic portosystemic shunt: a case report. **Trop Gastroenterol** 2005;26:146-148 (PMID: 16512467)
44. **Gupta R[¶]**, Jain P, Anand M. Acute basophilic leukemia- a case report. **Am. J Hematol.** 2004; 76:134-138 (PMID: 15164378)
45. **Gupta R**, Jain P, Deo SVS, Sharma A. Flow cytometric analysis of CD5 positive B-cells- a frame of reference for minimal residual disease in Chronic lymphocytic leukemia. **Am. J Clin Path.** 2004; 121:368-372 (PMID: 15023041)
46. Jain P, Kumar R, Anand M, Asthana S, Deo SVS, **Gupta R**, Bhutani M, Karak AK, Shukla NK. Touch imprint cytology of axillary lymph nodes after neoadjuvant chemotherapy in patients with breast cancer. **Cancer** 2003; 99:346-351 (PMID: 14681942)
47. Anand M, Kumar R, Jain P, **Gupta R**, Ghosal N, Sharma A, Agarwal A, Sharma M C. Metastatic anaplastic oligodendroglioma simulating acute leukemia - a case report. **Acta Cytol.** 2003; 47:467-9 (PMID: 12789933)
48. Kashyap R & **Gupta R**. Extramedullary Plasmacytoma. **Indian J Med & Paed Oncol** 2005; 26:31

Scientific presentations

1. Oral presentation on “Bone marrow microvessel density and circulating endothelial progenitor cells as markers of angiogenesis in multiple myeloma.” at the 11th Euroconference on Clinical Cell Analysis (Sep 14-17, 2011) at Dublin, Ireland
2. Oral presentation on “Kinetics of regulatory T-cells in multiple myeloma” at 3rd annual meeting of The Cytometry Society at Bangalore (2010), India
3. Poster entitled “Circulatory endothelial progenitor cells correlate with disease activity and stage in multiple myeloma” at First International Conference on Hematological Malignancies ‘Bridging the Gap: 2010’ at Singapore (2010)
4. Oral presentation on “Role of flow cytometry in plasma cell proliferative disorders” at the special symposium on Advancement of Cytometry in Asia in the XIXth Annual meeting of Japanese Cytometry Society (2009) at Matsue, Japan
5. Oral presentation on “T-regulatory cells in multiple myeloma and their response to immunomodulatory therapy” at First International Conference on Hematological Malignancies ‘Bridging the Gap: 2010’ at Singapore (2010)

6. Oral presentation on “Flow Cytometry in lymphoma diagnosis” at the Nagpur Lymphoma Conference (2009) at Nagpur, India.
7. Poster entitled “Arsenic versus ATRA in acute promyelocytic leukemia: A single center study” at the annual conference (2008) of International Society of Pediatric Oncology (SIOP), Berlin
8. Poster entitled “Clinico-morphological features of acute megakaryoblastic leukemia”, at the 56th IAPM National conference in 2007 at Chandigarh, India.
9. Oral Presentation on “PNH in patients of aplastic anaemia: determination by clinical and flow cytometric correlation”, at the 56th IAPM National conference in 2007 at Chandigarh, India.
10. Poster entitled “Immunophenotypic characterization of plasma cells in health and disease”, at The First Meeting of the Cytometry Society in 2007 at SGPGIMS, Lucknow
11. Poster entitled “Flow Cytometric evaluation of the activity of drug efflux pumps in acute myeloid leukemia”, at The First Meeting of the Cytometry Society in 2007 at SGPGIMS, Lucknow
12. Poster entitled “Flow Cytometric analysis of acute leukemia: SGPGI experience”, at The First Meeting of the Cytometry Society in 2007 at SGPGIMS, Lucknow
13. Poster entitled “Morphologic spectrum of acute promyelocytic leukemia”, at the 55th IAPM National conference in 2006 at Bangalore, India.
14. Oral presentation on “Role of fine needle aspirate immunophenotyping by flow cytometry in diagnosis of hematolymphoid disorders”, at the 54th IAPM National conference in 2005 at Indore, India.
15. Poster entitled “Splenic lymphoma with villous lymphocytes- A case report”, at the 53rd IAPM National conference in 2004 at AFMC, Pune, India.
16. Oral presentation on “Comparison of Gel card test and flow cytometry for detection of PNH clone”, at the 53rd IAPM National conference in 2004 at AFMC, Pune, India.
17. Oral presentation on “Touch imprint cytology of axillary lymph nodes after neoadjuvant chemotherapy”, at the 51st IAPM National conference in 2002 at Kolkata.
18. Poster entitled “An unusual case of acute basophilic leukemia”, at the 51st IAPM National conference in 2002 at Kolkata, India.
19. Poster entitled “Metastatic anaplastic oligodendroglioma simulating acute leukemia”, at the 49th IAPM National conference in 2000 at Safdarjung Hospital, New Delhi.
20. Poster entitled, “*Interdigitating Reticulum Cell Sarcoma-a case report*”, at the 47th IAPM in National conference in 1999 at Vivekananda Kendra, Kanyakumari.

Invited Lectures

1. Invited lecture on ‘Flow Cytometry in Plasma Cell Proliferative disorders’ at the 4th Advanced TCS Flow Cytometry Workshop on Hematological Malignancies: Delhi-NCR (Jan 22-25, 2013)
2. Invited case presentation at the 5th annual meeting of The Cytometry Society (October 12-13, 2012) at Kolkata
3. Invited lecture- on “Minimal Residual Disease in Acute Leukemia” at the “Wet Workshop on Flow Cytometry: TCS-2012” at SCTIMST & RCC, Thiruvananthapuram, Kerala (May 7-10, 2012)
4. Invited lecture on “Applications of Flow Cytometry in Clinical Practice” at the “NERCON 2012” at Assam Medical College, Dibrugarh (April 2012)
5. Invited lecture on “Flow Cytometry in Plasma Cell Proliferative disorders” at the 3rd Advanced TCS Flow Cytometry Workshop on Hematological Malignancies (Feb 21-24, 2012) at Delhi-NCR, India.
6. Invited lecture on “Diagnostic spectrum of CLPD: Solving the Puzzle” at the 52nd annual conference of The Indian Society of Hematology & Transfusion Medicine at Chandigarh (Nov. 10-12, 2011)

7. Invited lecture on “Plasma Cell proliferative Disorders: Scope & Challenges with Multiparametric Flow Cytometry” at the 4th annual meeting of The Cytometry Society at Chandigarh (Oct 8-9, 2011)
8. Invited lecture on “Myeloma flow” at the Clinical Flow Cytometry-User Group meeting organized by Delhi Society of Haematology & FILCG at Medanta, The Medicity, Gurgaon (Aug 12, 2011)
9. Invited lecture on “Myeloma flow- challenges” at the Advanced TCS Flow Cytometry Workshop on Hematological Malignancies (Dec. 2010) at Delhi-NCR, India.
10. Invited lecture on “Enigma of biological heterogeneity in CLL” at the National Workshop on ‘Molecular Cytogenetics: Hematological Malignancy’ at AIIMS, New Delhi, India
11. Invited lecture on “Minimal residual disease in acute leukemia” at the Advanced TCS Flow Cytometry Workshop on Hematological Malignancies (Mar-Apr 2010) at Delhi-NCR, India.
12. Invited lecture on “Prognostic markers in chronic lymphocytic leukemia” at the Advanced TCS Flow Cytometry Workshop on Hematological Malignancies (Mar-Apr 2010) at Delhi-NCR, India.
13. Invited lecture on “Myeloma flow-scope, challenges and way forward” at the Advanced TCS Flow Cytometry Workshop on Hematological Malignancies (Mar-Apr 2010) at Delhi-NCR, India.
14. Invited lecture on “Flow Cytometry in lymphoma diagnosis” at the Nagpur Lymphoma Conference (Nov. 2009) at Nagpur, India.
15. Invited lecture on “Role of flow cytometry in plasma cell proliferative disorders” at the special symposium on Advancement of Cytometry in Asia in the XIXth Annual meeting of Japanese Cytometry Society (June 2009) at Matsue, Japan
16. Invited lecture on ‘Flow Cytometry for RBC Disorders’, at the XVth National CME in Haematology & Haemato-Oncology (Jan 2009) at Mumbai Hospital, Mumbai, India.
17. Invited to deliver a lecture on “Application of flow cytometry in transfusion Medicine” in ‘Transcon 2008, the 33rd National Conference of Indian Society of Blood Transfusion & Immunohaematology’ at SGPGIMS, Lucknow, India
18. Invited lecture on “Immunological risk factor determinants in cancer”, at the 21st Round table conference on “ Life Style and Cancer’ (Nov 2008) at AIIMS, New Delhi, India
19. Invited lecture on “Flow Cytometric methods for Red cell dysfunction” at the 8th Indo-US Cytometry Workshop on clinical applications of flow cytometry (Dec 2007) at SGPGIMS, Lucknow, India
20. Invited lecture on “Minimal residual disease in leukemia”, at 2nd National CME cum workshop in Hemato-oncopathology (Oct 2002) at AIIMS, New Delhi, India

Financial support received

| S. No. | Source of Funding | Title of Research Project | Year |
|--------|-------------------|--|-------------------|
| 1 | DBT | Interrogating the myeloma genome with reference to RNA modulated gene expression | 2013 |
| 2 | AIIMS | Towards a comprehensive molecular score in CLL | 2012 Ongoing |
| 3 | DBT | Prognostic Relevance of DNA methylation in chronic lymphocytic leukemia | 2011 Ongoing |
| 4 | DST | Th17 cells in pathobiology of multiple myeloma | 2011 Ongoing |
| 5 | ICMR | Natural Killer & T-lymphocyte Subset Analysis in Multiple Myeloma | 2011 Ongoing |
| 6 | DBT | Molecular & immunological basis of biological heterogeneity in CLL | Completed in 2013 |
| 7 | ICMR | HIF-1 α as regulator of angiogenesis in multiple myeloma | Completed in 2012 |
| 8 | DBT | Endothelial progenitor cells as biomarker of disease activity in multiple myeloma | Completed in 2011 |
| 9 | DBT | Regulatory T-Cell repertoire in plasma cell myeloma | Completed in 2010 |
| 10 | DST | Immunophenotypic characterization of plasma cells by flow cytometry in health & disease with particular reference to plasma cell myeloma | Completed in 2009 |