

DR AMIT SHARMA

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Academic Qualifications

Degree	University/Institute	Class	Year
PhD (Hematology)	Hematology, AIIMS, New Delhi, India (www.aiims.edu)	-	2015
Master of Science (Microbiology)	C.C.S. University, Meerut, U.P, India (www.ccsuniversity.ac.in .)	I	2005
Bachelor of Science [Zoology, Botany, Chemistry]	C.C.S. University, Meerut, U.P, India (www.ccsuniversity.ac.in .)	I	2003

Research Experience

Position	Department	Period
Research Associate	Hematology, AIIMS, New Delhi	June 2019 till Now
Research Associate	Hematology, AIIMS, New Delhi	2016-2019
Senior Research Fellow	Hematology, AIIMS, New Delhi	2011-2014
Junior Research Fellow	Hematology, AIIMS, New Delhi	2009-2011
Research Fellow	Hematology, AIIMS, New Delhi	2006-2009

Special Interest

Haemostasis, Thrombosis, Molecular Genetics and Diagnostic, Platelet function defects

Awards/Fellowship

International Fellowship:

- **Reach the Word fellowship (RTW):** Successfully completed ‘Reach the Word fellowship’ awarded by international society on Thrombosis and Hemostasis (ISTH) for the 4 months (wef 10.06.2017 to 9.10.2017) to the study at the Institute of Experimental Hematology and Transfusion Medicine, University Clinic, Bonn, Germany under the supervision of Prof. J. Oldenburg.
- Awarded reach the world travel grant by the international society on Thrombosis and Hemostasis (ISTH) to attend the international congresses of ISTH 2016, 2019 & 2022.

Indian Fellowship:

- Awarded Research Associateship (RA) from Indian Council of Medical Research (ICMR, Government of India)
- Awarded Senior research fellowship (SRF) from Indian Council of Medical Research (ICMR, Government of India)
- Awarded Student Scholarship by Indian Society of Hematology and Blood Transfusion (ISHBT) for Hematocon, 2018.
- Awarded Travel Grant from Department of Science and Technology (DST, Government of India) to attend the international congress on thrombosis 2015.
- Awarded Travel Grant by ISTBH for Hematocon, 2013 held in Orissa. s

Membership of Professional Bodies:

- Life Member: Indian Society of Hematology and Blood Transfusion (ISTBH)
- International Member: International Society on Thrombosis and Hemostasis (ISTH)

List of Publications/Abstracts

Publications	Numbers
Publications in Journal	21
Abstracts in Journal	29
Total	50

Publications

1. **Sharma A**, Singh K, Biswas A, Ranjan R, Kishor K, Pandey H, Kumar R, Mahapatra M, Oldenburg J, Saxena R. Impact of interleukin 6 promoter polymorphisms (-174 G > C, -572 G > C and -597 G > A) on plasma IL-6 levels and their influence on the development of DVT: a study from India. Hematology. 2018 Jun 11:1-6.
2. **Sharma A**, Singh K, Biswas A, Ranjan R, Kishor K, Kumar R, Pandey H, Kamal VK, Saxena R. Evaluation of role FV, FVIII and APLAs in the pathogenesis of APCR in FV Leiden negative DVT patients: A study in India. J Thromb Thrombolysis. 2017 Feb;43(2):217-223.
3. **Sharma A**, Bhakuni T, Biswas A, Ranjan R, Kumar R, Kishore K, Mahapatra M., Jairajpuri MA, Saxena R. Prevalence of factor V genetic variants associated with Indian

APCR contributing to thrombotic risk. *Clin Appl Thromb Hemost.* 2017 Sep;23(6):596-600.

4. **Sharma A**, Singh N, Mahapatra M, Ranjan R, Kishore K, Saxena R, "Factors contributing to APC-Resistance in women with recurrent spontaneous miscarriages: Indian perspective." *Blood cells, Molecules, and Diseases.* 2015 October; 55 (3):213-215.
5. **Sharma A**, Bhakuni T, Ranjan R, Kumar R, Kishore K, Kamal VK, Mahapatra M, Saxena R, Jairajpuri MA "Polymorphisms in Factor V and Antithrombin III gene in recurrent pregnancy loss: A case-control study in Indian population." *J Thromb Thrombolysis.* 2015 May; 39 (4):481-8.
6. Singh S Akhter MS, Didt J, **Sharma A**, Kaniyappan S, Yadegari H, Ivaskevicius V, Oldenburg J, Biswas A "Disruption of Structural Disulfides of Coagulation FXIII B Subunit; Functional Implications for a Rare Bleeding Disorder." *Int J Mol Sci* 2019 Apr 22;20(8).
7. Kishor K, **Sharma A**, Singh K, Ranjan R, Pandey H, Kumar R, Kamal VK, Mishra P, Mahapatra M, Saxena R. Influence of tissue factor polymorphisms (603A>G and 5466A>G) on plasma tissue factor levels and their impact on deep vein thrombosis risk in young Indian population. *J Thromb Thrombolysis.* 2018 Jul;46(1):88-94.
8. Kishor K, **Sharma A**, Singh K, Ranjan R, Pandey H, Kumar R, Kamal VK, Mishra P, Saxena R. Association of genetic polymorphisms with plasma TFPI level: Boon or curse for DVT patients: Study from India. *Blood cells, Molecules and Diseases.* 2017 July; 66:31-36.
9. Bhakuni T, **Sharma A**, Ali M, Mahapatra M., Saxena R, Jairajpuri MA, "Identification of two novel polymorphisms and rs3138521 in 5'-Untranslated regions of SERPINC1 gene in North-Indian Deep Vein Thrombosis. *Clin Appl Thromb Hemost.* 2017 Oct;23(7):865-870.
10. Bhakuni T, Singhal R, Annarapu GK, **Sharma A**, Mahapatra M, Saxena R, Guchhait P. Unique case of autoantibody-mediated inactivation of ADAMTS 13 in an Indian TTP patient. *Blood Cells Mol Dis.* 2019 Jul; 77:29-33.
11. Pandey H, Singh K, Ranjan R, Pandey SK, **Sharma A**, Kishor K, Seth T, Mahapatra M, **Saxena R**. Clinical variability and molecular characterization of Hbs/G γ (A γ δ β)⁰-thal and Hbs/HPFH in Indian sickle cell disease patients: AIIMS experience. *Hematology.* 2019 Dec;24(1):349-352.
12. Pandey H, Ranjan R, Singh K, **Sharma A**, Kishor K, Seth T, Saxena R. Contrasting co-inheritance of alpha and beta mutations in delta beta-thalassemia and hereditary persistence of fetal hemoglobin: a study from India. *Hematology.* 2018 Oct;23(9):692-696.
13. Bhakuni T, **Sharma A**, Rashid Q, Kapil C, Saxena R, Mahapatra M, Jairajpuri MA "Antithrombin III deficiency in Indian patients with deep vein thrombosis: Identification of first India based variants including a novel point mutation (T280A) that leads to aggregation." *PLoS One.* 2015 Mar 26; 10 (3):e0121889.
14. Singh K, **Sharma A**, Chatterjee T. Pigmented basal cell carcinoma: A rare case report. *Indian J Cancer.* 2016 Jul-Sep;53 (3):380-381.
15. Singh K, **Sharma A**. Localized Amyloidosis of Tongue: A rare case from India. *International journal of head and neck surgery,* October-December2016;7(4)225-227.

16. Singh N, **Sharma A**, Sahawal S Ahuja A, Upadhyay A, Mahapatra M, Saxena R. "Prevalence of JAK3V617F mutation in deep venous thrombosis patients and its clinical significance as a thrombophilic risk factor: the Indian perspective. *Clin Appl Thromb Hemost*. 2015 Sep;21(6):579-83.
17. Pandey S, **Sharma A**, Dahia S, Shah V, Sharma V, Mishra RM, Saxena R. "Biochemical Indicator of Sickle Cell Disease: Preliminary Report from India." *Ind J Clin Biochem (Apr-June 2012)* 27(2):191–195.
18. Pandey H, Ranjan R, Singh K, **Sharma A**, Kishor K, Seth T, Saxena R. Contrasting co-inheritance of alpha and beta mutations in delta beta-thalassemia and hereditary persistence of fetal hemoglobin: a study from India. *Hematology*. 2018 Apr 5:1-5.
19. Mutreja D, Kotru M, Sazawal S, Ranjan R, **Sharma A**, Acharya SK. "Hereditary & Acquired Thrombophilia in Splanchnic Vein Thrombosis: A Single Centre Experience." *Clin Appl Thromb Hemost*. 2013 nov 19.
20. Akhter MS, Biswas A, Ranjan R, **Sharma A**, Kumar S, Saxena R, "The nitric oxide synthase 3 gene polymorphisms and their association with deep vein thrombosis in Asian Indian patients." *Clin Chim Acta*. 2010 May 2; 411 (9-10):649-52.
21. Akhter MS, Biswas A, Ranjan R, Meena A, Yadav BK, **Sharma A**, Saxena R, "Plasminogen activator inhibitor-1 (PAI-1) gene 4G/5G promoter polymorphism is seen in higher frequency in the Indian patients with deep vein thrombosis." *Clin Appl Thromb Hemost*. 2010 Apr; 16 (2):184-8.

Abstracts:

1. **Sharma A**, Kishor K, Biswas A, Ranjan R, Ravi Kumar, Seema Tyagi, Saxena R, Mahapatra M Study the role of endothelial protein C receptor gene polymorphisms in Indian DVT patients. abstract accepted to ISTH congress 2022 held in London, UK.
2. **Sharma A**, Kishor K, Ranjan R, Ravi Kumar, Seema Tyagi, Saxena R, Mahapatra M. "Genotype and phenotype study of inherited FVII deficiency patients from India." abstract accepted to Hematocon congress 2020.
3. **Sharma A**, Biswas A, Ranjan R, Kishor K, Pandey HR, Mahapatra M, Oldenburg J, Saxena R. "Laboratory phenotype and molecular characterization of inherited coagulation Factor VII(FVII) deficiency patients from India." abstract accepted to ISTH congress 2019 held in Melbourn, Australia.
4. **Sharma A**, Ranjan R, Kishor K, Pandey HR, Kumar R, Mahapatra M, Saxena R "HR2 Haplotype and Arg485Lys Polymorphisms: Association with FV levels, APC ratio and their role in the development of DVT." Abstract accepted to Hematocon, 2018 held at Cochin, India.
5. **Sharma A**, Ranjan R, Kishor K, Singh K, Pandey HR, Saxena R Interleukins 6 promoter polymorphisms (-174 G>C and -572 G>C): Association with plasma IL6 levels and risk of deep vein thrombosis. Abstract accepted to 25th Biennial International congress on thrombosis 2018 held at Venice, Italy.
6. **Sharma A**, Bhakuni T, Biswas A, Ranjan R, Kishor K Oldenburg J, Saxena R "The association of Arg485Lys polymorphism with FV levels, APC ratio and its role in DVT:

A study from India.” Abstract accepted to ISTH and 63rd annual scientific and SSC meeting 2017 at Berlin, Germany.

7. **Sharma A**, Ranjan R, Kishor K, Kanwaljeet Singh, Pandey HR, Saxena R “Effect of FV polymorphisms on FV levels, APC ratio and its association with DVT: AIIMS experience” Abstract accepted to Hematocon, 2017 held at Guwahati, India.
8. **Sharma A**, Bhakuni T, Ranjan R, Kumar R, Kishor K, Mahapatra M, Jairajpuri M.A, Saxena R. “Factors associated with activated protein C resistance in Indian patients with RPL” Abstract accepted to the international conference of hematology 2015 at Glasgow (U.K.)
9. **Sharma A**, Bhakuni T, Ranjan R, Kumar R, Kishor K, Mahapatra M, Jairajpuri M.A, Saxena R. “Causative factors of activated protein C resistance in Indian DVT patients.” Oral presentation at 56th annual meeting of ISHBT 2015, Bangalore, India.
10. **Sharma A**, Bhakuni T, Ranjan R, Akhter MS, Kumar R, Kishor K, Mahapatra M, Jairajpuri M.A, Saxena R. Genetic basis of antithrombin deficiency in Indian patients with deep vein thrombosis. Abstract accepted to 23rd International Congress on thrombosis, 2014 held at Valencia, Spain.
11. **Sharma A**, Biswas A, Ranjan R, Akhter MS, Kumar R, Kishor K, Saxena R, Role of A-3 Haplotype in the development of deep vein thrombosis in India. Thrombosis Research 2012.
12. **Sharma A**, Ranjan R, Akhter MS, Kishor K, Pandey H, Saxena R. A-3 Haplotype of EPCR gene: Is it a risk factor for recurrent miscarriage in Indian population. Abstract accepted to Hematocon 2012.
13. Kishor K, **Sharma A**, Kumar K, Pandey HR, Ranjan R, Mahapatra M, Saxena R, TFPI gene polymorphisms (399C>T, 287 T/C): Do they predict high DVT risk in young Indians? Abstract accepted to ISTH congress 2019 held in Melbourn, Australia.
14. Kishor K, **Sharma A**, Singh K, Ranjan R, Pandey HR, Mahapatra M, Saxena R, Influence of Tissue Factor promoter polymorphism on risk of Deep Vein Thrombosis. abstract accepted to Hematocon 2018 held at Cochin, India.
15. Kishor K, **Sharma A**, Singh K, Ranjan R, Pandey HR, Mahapatra M, Saxena R, Impact of 603A>G Tissue Factor promoter polymorphism in the development of DVT in young Indians. Abstract submitted to Hematocon 2017 held at Guwahati, India.
16. Kishor K, **Sharma A**, Kumar R, Saxena R “Association of tissue factor pathway inhibitor gene polymorphisms 399 C/T and 33 T/C with deep vein thrombosis.” Abstract submitted to EMLTD-ICT congress 2015.
17. Bhakuni T, **Sharma A**, Rashid Q, Kapil C, Bano S, Saxena R, Mahapatra M, Jairajpuri M.A. “A compound heterozygous (g.2603T>C, g.13362_13363insA) condition in an Indian family with type II Antithrombin III deficiency leads to *in vivo* polymerization.” Abstract submitted to IBS 2015.
18. Bhakuni T, **Sharma A**, Kapil C, Mahapatra M, Saxena R, Jairajpuri MA. “Identification and characterization of a point mutation in an Indian family with deep vein thrombosis.” Abstract submitted to SYSCON 2015.

19. Bhakuni T, **Sharma A**, Rashid Q, Kapil C, Mahapatra M, Jairajpuri M.A. “Antithrombin deficiency in Indian population: First study of genetic variations in SERPINC1 gene.” Abstract submitted to SYSSCON 2014.
20. Bhakuni T, **Sharma A**, Mahapatra M, Saxena R, Jairajpuri MA, “Assessment of various thrombophilic risk factors and rs2227589 in Indian RPL population.” Abstract submitted to 23rd International Congress on thrombosis, 2014.
21. Kishor K, **Sharma A**, Pandey H, Kumar R, Ranjan R, Saxena R “Role of promoter polymorphisms of Interleukin 6 (IL-6) gene in Indian Patients with DVT.” Abstract submitted to MLTD-ICT, 2014.
22. Akhter M. S, Biswas A, Rashid H, Ranjan R, **Sharma A**, R. Saxena “Role of promoter polymorphisms of Glutathione Peroxidase (GPX3) gene in the development of Deep Vein Thrombosis in Asian Indian population”. Abstract submitted to ISTH 2013.
23. Bhakuni T, **Sharma A**, Mahapatra M, Saxena R, Jairajpuri M.A, “Prevalence of Antithrombin deficiency based on venous thrombosis in Indian population.” Abstract submitted to CIRBSc 2012.
24. Akhter M. S., Biswas A, Ranjan R, **Sharma A**, Saxena R, The association of functional polymorphisms of IL-6 gene promoter with ischemic stroke. Abstract submitted to 22nd International Congress on Thrombosis 2012.
25. Akhter M. S., Biswas A, Ranjan R, **Sharma A**, S. Kumar, Saxena R, plasminogen activator inhibitor -1 4g/5g polymorphism and risk of acute onset ischemic stroke in young asian Indians, Abstract submitted to ISTH 2011.
26. Akhter M. S., Biswas A, Ranjan R, Meena A, **Sharma A**, Kumar S, Saxena R, eNOS Polymorphisms may be a risk factor for Deep Vein Thrombosis in Indian Asian Population.” Abstract submitted to ISTH 2009.
27. Ranjan R, Biswas A, Meena A, Akhter S, Yadav B, **Sharma A**, Qasim I, Saxena R. HPA-I (PLA2) polymorphism: Does it modify the phenotype of severe hemophilics? Abstract submitted to Ind J Hemat & Blood Transf. 2007, conf. proceedings.

Workshops/ Symposium/ Conferences

- Participated as a resource person of a Hands-on workshop in Hematocon 2019, organized by AIIMS, New Delhi, India.
- Participated as a resource organizer in National Hematology update 2018 at New Delhi, India, organized by the Department of Hematology, AIIMS.
- Presented a poster at XXVI Congress of ISTH and 63rd annual scientific and standardization committee (SSC) meeting 2017 at Berlin, Germany.
- Presented a poster at the 58th annual conference of the Indian Society of Hematology and Blood Transfusion (ISHBT) 2017 at Guwahati, India.
- Presented a poster at the 62nd annual scientific and standardization committee (SSC) meeting 2016 at Montpellier, France.

- Attended conference of current trends in Structural Biology in Multi-Drug Resistant Bacterial Therapeutics and Thrombosis at New Delhi from 27th - 28th Feb 2014 organized by Dept. of Biophysics, AIIMS, New Delhi, India.
- Presented a poster at the 53rd Annual Conference of Indian Society of Hematology and Blood Transfusion (ISHBT) at Orissa, Nov 2012.
- Attended National Hematology Update 2012 at India, Organized by Department of Hematology, AIIMS.
- Attended workshop on good clinical (research) practice 2012 at New Delhi, organized by PFIZER in AIIMS.
- Attended National Hematology Update 2011 at New Delhi, India, organized by the Department of Hematology, AIIMS.
- Attended National Hematology Update 2010 at New Delhi, India, organized by the Department of Hematology, AIIMS.
- Attended Golden jubilee conference of Indian Society of Hematology and Blood Transfusion (ISHBT) 2009 at New Delhi organized by AIIMS.
- Attended National Hematology update 2009 at New Delhi, India, organized by Department of Hematology, AIIMS.
- Attended National Hematology update 2008 at New Delhi, India, organized by Department of Hematology, AIIMS
- Attended SHC India- AIIMS Hemophilia conference 2008 AIIMS at New Delhi, India, organized by Department of Hematology, AIIMS.
- Attended CME on genetics, 2008 at New Delhi, AIIMS sponsored by DBT, Govt. of India.
- Attended National Hematology update 2007 at New Delhi, India, organized by Department of Hematology, AIIMS.

Technical skills

❖ Molecular Biology

- DNA/RNA isolation from virus, *E.coli*, and mammalian cells
- PCR, PCR-RFLP, RT-PCR, Q-PCR
- Electrophoresis: Agarose gel electrophoresis, SDS PAGE, and Native PAGE
- Single-stranded conformation polymorphism (SSCP)
- Conformation sensitive gel electrophoresis (CSGE)
- Sequencing of DNA, Image acquisition, and analysis.
- **Assays:** Coagulation factors activity assay, ELISA, platelets aggregation
- Cloning & transformation/

❖ **Instrument Handling**

- Flow cytometer, HPLC, Spectrophotometer, Nanodrop, Centrifuge.

❖ **Computational**

- Familiar with basic bioinformatics tools: STATA, In silico analysis, sequence analysis and manipulation, homology search, pattern search, fold recognition, Homology modeling.
- General-purpose software like MS Office suite, MS Excel, Photoshop, etc.

Personal Details

Date of Birth	5 th Feb 1984
Gender	Male
Status	Married
Nationality	Indian
Languages	Hindi & English
Strength Self	Confidence & positive attitude
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Professional Referees

1. Dr. Renu Saxena

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3. Dr. Ravi Ranjan

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