

## **CURRICULUM VITAE**

**Prem Prakash, M.Tech, Ph.D.**

UGC-Faculty Recharge Programme-Assistant Professor  
Posted at Jamia Hamdard-Department of Molecular Medicine  
Jamia Hamdard, New Delhi  
Mob# +91-8840565099  
Email: [prem@jamiahamdard.ac.in](mailto:prem@jamiahamdard.ac.in)

### **Education**

2004	Bachelor of Pharmacy	Biju Patnaik University of Technology, India.
2006	Master of Technology (Pharmaceutical Chemistry)	Vellore Institute of Technology University, India.
2012	Doctor of Philosophy (Pharmacy)	Central Drug Research Institution and Gautam Buddh Technical University, India.

### **Positions and Employment**

<u>Year</u>	<u>Position</u>	<u>Institution</u>
2005-2006	Project Trainee	Central Drug Research Institute, Lucknow, India.
2007-2009	CSIR-Junior Research Fellow	Central Drug Research Institute, Lucknow, India.
2009-2012	CSIR-Senior Research Fellow	Central Drug Research Institute, Lucknow, India.
2012-2012	Research Scientist	Daiichi Sankyo India Pharma Pvt. Ltd, Gurgaon, India.
2013-2016	Postdoctoral Fellow	University of Iowa, Iowa City, USA.
2016- 2019	Ramalingaswami Fellow	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India. & Department of Cardiovascular and Metabolic Sciences Cleveland Clinic
2019- to date	UGC-Assistant Professor	Department of Molecular Medicine, Jamia Hamdard, New Delhi, Delhi

### **Honours and Awards**

2007-2009	CSIR-GATE-Junior Research Fellowship, India.
2009-2012	CSIR-GATE-Senior Research Fellowship, India.
2016-2017	American Heart Association-Postdoctoral Fellowship, USA.
2016-2017	Ramanujan Fellowship, India.
2016-2017	Ramalingaswami Re-entry Fellowship, India.
2017	Selected for UGC-Faculty Recharge Scheme, India.
2017	SERB-DST- Early Career Research Award.

### **Contribution to Science**

#### **Research**

Patients diagnosed with cardiovascular diseases (CVDs) may need medical attention for the rest of their life. However, if such life-threatening diseases are diagnosed at a premature stage then their progression can be slowed down or prevented at the early stages of development. The strategy to curb such life-threatening diseases at their primitive phase will help patients to live normal or disease-free lives and reduce the treatment cost significantly. My research goal is to dissect the role of damage-associated molecular patterns (DAMPs) in CVDs. Similar to pathogen-associated molecular patterns DAMPs bind to Toll-like receptors and thus amplify the inflammatory response. We utilize various small animal models such as ferric chloride injury-induced arterial thrombosis,

arteriovenous shunt, deep vein thrombosis, myocardial ischemia-reperfusion injury, brain ischemic stroke, and transverse aortic constriction-induced heart failure to unravel the mechanistic role of DAMPs in CVD.

### Manuscripts Published

1. Uzair M, Singhal C, Ali A, Rajak S, Kapoor A, Agarwal SK, Tiwari S, Pande S, **Prakash P**, 2024. Myocardial ischemia-reperfusion injury released cellular fibronectin-containing domain A (CFN-EDA): A destructive positive loop amplifying arterial thrombosis formation and exacerbating myocardial reperfusion injury. **Thromb Res.** Jun; 238:117-128. doi: 10.1016/j.thromres.2024.04.026. [PMID: 38703585, Impact Factor- 3.7].
2. Dabral S, Khan IA, Pant T, Khan S, **Prakash P**, Parvez S, Saha N, 2023. Deciphering the Precise Target for Saroglitzar Associated Antiangiogenic Effect: A Computational Synergistic Approach. **ACS Omega.**, Apr 20;8(17):14985-15002. [PMID: 37151537, Impact Factor-4.13].
3. Sharma S, Rana R, **Prakash P**, Ganguly NK, 2023. Drug target therapy and emerging clinical relevance of exosomes in meningeal tumours. **Mol Cell Biochem.**, Apr 4, 1–44. [PMID: 37016182, Impact Factor-3.84].
4. Baig MS, Deepanshu, **Prakash P**, Alam P, Krishnan A, 2023. In silico analysis reveals hypoxia-induced miR-210-3p specifically targets SARS-CoV-2 RNA. **J Biomol Struct Dyn.**, Feb 8, 1-23. [PMID: 36752331, Impact Factor- 5.24].
5. Gupta S, Ali A, Pandey S, Khan IA, **Prakash P**, 2022. Fibronectin containing alternatively spliced extra domain A interacts at the central and c-terminal domain of Toll-like receptor-4. **Sci Rep.**, Jun 11, 12(1), 9662. [PMID: 35690624, Impact Factor- 4.99].
6. Zhu W, Romano KA, Li L, Buffa JA, Sangwan N, **Prakash P**, Tittle AN, Li XS, Fu X, Androjna C, DiDonato AJ, Brinson K, Trapp BD, Fischbach MA, Rey FE, Hajjar AM, DiDonato JA, Hazen SL, 2021. Gut microbes impact stroke severity via the trimethylamine N-oxide pathway. **Cell Host Microbe**, 29, 1199-1208 e1195. [PMID: 34139173, Impact Factor- 31.32].
7. Rajak S, Hussain Y, Singh K, Tiwari S, Ahmad B, Bharti S, **Prakash P**, 2020. Cellular fibronectin containing extra domain A causes insulin resistance via Toll-like Receptor 4. **Sci Rep.**, Jun 4, 10(1), 9102. [PMID: 32499562, Impact Factor- 4.99]
8. Rashid N, Nigam A, Kauser S, **Prakash P**, Jain SK, Wajid S, 2020. Assessment of insulin resistance and metabolic syndrome in young reproductive-aged women with polycystic ovarian syndrome: analogy of surrogate indices. **Arch Physiol Biochem.**, Feb 8, 1-8. [PMID: 32037881, Impact Factor- 4.076]
9. Sharma R, Kumari M, **Prakash P**, Gupta S, Tiwari S, 2020. Phosphoenolpyruvate carboxykinase in urine exosomes reflects impairment in renal gluconeogenesis in early insulin resistance and diabetes. **Am J Physiol Renal Physiol.**, Mar 1, 318(3), F720-F731. [PMID: 32036699, Impact Factor- 3.377]
10. Kumari A, Muthu SA, **Prakash P**, Ahmad B, 2020. Herbalome of Chandraprabha Vati, a polyherbal formulation of Ayurveda prevents fibrillation of lysozyme by stabilizing aggregation-prone intermediate state. **Int J Biol Macromol.**, 148, 102-109. [PMID: 31945445, Impact Factor- 8.025]

11. Chorawala MK, **Prakash P**, Doddapattar P, Jain M, Dhanesha N, Chauhan AK, 2018. Deletion of extra domain A of fibronectin reduces acute myocardial ischemia/reperfusion injury in hyperlipidemic mice by limiting thrombo-inflammation. *Thromb Haemost.*, Aug, 118(8), 1450-1460. [PMID: 29960272, Impact Factor- 4.952]
12. Misra A, **Prakash P**, Aggarwal H, Dhankani P, Kumar S, Pandey CP, Pugh N, Bihan D, Barthwal MK, Farndale RW, Dikshit DK, Dikshit M, 2018. Anti-thrombotic efficacy of S007-867: pre-clinical evaluation in experimental models of thrombosis in vivo and in vitro. *Biochem Pharmacol.*, Feb, 148, 288-297. [PMID: 29309758, Impact Factor- 5.009]
13. **Prakash P**, Nayak MK, Chauhan AK 2016. P-selectin can promote thrombus propagation independently of both von Willebrand factor and thrombospondin1 in mice. *J Thromb Haemost.*, Feb, 15(2), 388-394. [PMID: 27943541, Impact Factor- 16.036]
14. Dhanesha N\*, **Prakash P\***, Doddapattar P, Pollpeter M, Nayak MK, Staber J, Chauhan AK, 2016. Endothelial-derived VWF is the major determinant that mediates VWF-dependent acute ischemic stroke by promoting post-ischemic thrombo-inflammation. *Arterioscler Thromb Vasc Biol.*, Sep, 36(9), 1829-37. [PMID: 27444201, Impact Factor- 10.51]  
**\*These authors equally contributed to the work.**
15. Dhanesha N, Ahmed A, **Prakash P**, Doddapattar P, Lentz SR, Chauhan AK, 2015. Genetic ablation of extra domain A of fibronectin in hypercholesterolemic mice improves stroke outcome by reducing thrombo-inflammation. *Circulation*, Dec 8, 132(23), 2237-47. [PMID: 26508731, Impact Factor- 39.92]  
*Commentary in Circulation:* Messina LM, 2015. Toward a biologic therapy to improve stroke outcomes after thrombolytic therapy. *Circulation*, Oct 27. [PMID: 26508732, Impact Factor- 39.92]
16. Doddapattar P, Gandhi C, **Prakash P**, Dhanesha N, Grumbach IM, Dailey ME, Lentz SR, Chauhan AK, 2015. Fibronectin splicing variants containing extra domain A promote atherosclerosis in mice through toll-like receptor 4. *Arterioscler Thromb Vasc Biol.*, Nov, 35(11), 2391-400. [PMID: 26427793, Impact Factor- 10.51]
17. **Prakash P**, Kulkarni PP, Lentz SR, Chauhan AK, 2015. Cellular fibronectin containing extra domain A promotes arterial thrombosis in mice through platelet toll-like receptor 4. *Blood*, May 14, 125(20), 3164-72. [PMID: 25700433, Impact Factor- 25.48]  
*Commentary in Blood:*  
Wang Y, Ni H, 2015. Fibronectin: extra domain brings extra risk? *Blood*, May 14, 125(20), 3043-4. [PMID: 25977580, Impact Factor- 25.48]
18. **Prakash P**, Kulkarni PP, Chauhan AK, 2015. Thrombospondin 1 requires von Willebrand factor to modulate arterial thrombosis in mice. *Blood*, Jan 8, 125(2), 399-406. [PMID: 25343959, Impact Factor- 25.48]

19. Singh V, Jain M, Misra A, Khanna V, **Prakash P**, Malasoni R, Dwivedi AK, Dikshit M, Barthwal MK, 2015. Curcuma oil ameliorates insulin resistance & associated thrombotic complications in hamster & rat. *Indian J Med Res.*, 141(6), 823-32. [PMID: 26205026, Impact Factor- 1.503]
20. Manhas A, Khanna V, **Prakash P**, Goyal D, Malasoni R, Naqvi A, Dwivedi AK, Dikshit M, Jagavelu K, 2014. Curcuma oil reduces endothelial cell-mediated inflammation in postmyocardial ischemia/reperfusion in rats. *J Cardiovasc Pharmacol.*, Sep, 64(3), 228-36. [PMID: 24853488, Impact Factor- 2.094]
21. Garikipati VN, Jadhav S, Pal L, **Prakash P**, Dikshit M, Nityanand S, 2014. Mesenchymal stem cells from fetal heart attenuate myocardial injury after infarction: an in vivo serial pinhole gated SPECT-CT study in rats. *PLoS One*, Jun 27, 9(6), e100982. [PMID: 24971627, Impact Factor- 3.24]
22. **Prakash P**, Singh V, Jain M, Khanna V, Rana M, Barthwal MK, Dikshit M, 2014. Silymarin ameliorates fructose-induced insulin resistance syndrome by reducing de novo hepatic lipogenesis in the rat. *Eur J Pharmacol.*, Mar 15, 727, 15-28. [PMID: 24486395, Impact Factor- 3.107]
23. Khanna V, Jain M, Singh V, Kanshana JS, **Prakash P**, Barthwal MK, Murthy PS, Dikshit M, 2013. Cholesterol diet withdrawal leads to initial plaque instability and subsequent regression of accelerated iliac artery atherosclerosis in rabbits. *PLoS One*, Oct 17, 8(10), e77037. [PMID: 24146955, Impact Factor- 3.24]
24. Singh V, Jain M, Misra A, Khanna V, Rana M, **Prakash P**, Malasoni R, Dwivedi AK, Dikshit M, Barthwal MK, 2013. Curcuma oil ameliorates hyperlipidaemia and associated deleterious effects in golden Syrian hamsters. *Br J Nutr.*, Aug 28, 110(3), 437-46. [PMID: 23673139, Impact Factor- 3.302]
25. Jain M, Surin WR, Misra A, **Prakash P**, Singh V, Khanna V, Kumar S, Siddiqui HH, Raj K, Barthwal MK, Dikshit M, 2013. Antithrombotic activity of a newly synthesized coumarin derivative 3-(5-hydroxy-2, 2-dimethyl-chroman-6-yl)-N-{2-[3-(5-hydroxy-2, 2-dimethyl-chroman-6-yl)-propionylamino]-ethyl}-propionamide. *Chem Biol Drug Des.*, Apr, 81(4), 499-508. [PMID: 23534412, Impact Factor- 2.256]
26. **Prakash P**, Khanna V, Singh V, Jyoti A, Jain M, Keshari RS, Barthwal MK, Dikshit M, 2011. Atorvastatin protects against ischemia-reperfusion injury in fructose-induced insulin-resistant rats. *Cardiovasc Drugs Ther.*, 25, 4, 285-297. [PMID: 21671014, Impact Factor- 3.189]
27. Singh V\*, Jain M\*, **Prakash P\***, Misra A, Khanna V, Tiwari RL, Keshari RS, Singh S, Dikshit M, Barthwal MK, 2011. A time-course study on prothrombotic parameters and their modulation by antiplatelet drugs in hyperlipidemic hamsters. *J Physiol Biochem.*, 67, 2, 205-216. [PMID: 21286889, Impact Factor- 2.523]  
\*These authors equally contributed to the work.
28. **Prakash P**, Misra A, Surin WR, Jain M, Bhatta RS, Pal R, Raj K, Barthwal MK, Dikshit M, 2011. Anti-platelet effects of Curcuma oil in experimental models of myocardial ischemia-reperfusion and thrombosis. *Thromb Res.*, 127, 2, 111-118. [PMID: 21144557, Impact Factor- 3.266]
29. Surin WR, **Prakash P**, Barthwal MK, Dikshit M, 2009. Optimization of ferric chloride-induced thrombosis model in rats: Effect of antiplatelet and anticoagulant drugs. *J Pharmacol Toxicol Methods.*, 61, 3, 287-291. [PMID: 19961942, Impact Factor- 2.679]
30. Srikanth GVN\*, **Prakash P\***, Tripathy NK, Dikshit M, Nityanand S, 2009. Establishment of a rat model of

myocardial infarction with a high survival rate: A suitable model for evaluation of the efficacy of stem cell therapy. *J Stem Cells Regen Med.*, Apr 8, 5(1), 30-6. [PMID: 24693039, Impact Factor- 2.679]

**\*Both authors equally contributed to this work.**

### **Oral Presentation in Conferences**

1. Prakash P 2023. Neutrophil Elastase Binding at the Central Domain of Extracellular Toll-like Receptor AI Prediction, Docking, and Validation in Disease Models. 53rd Annual Conference of Indian Pharmacological Society-IPSCON, December 14-16, 2023, Dept. of Pharmacology and Clinical Pharmacology, SRM Medical College Hospital and Research College of Pharmacy, SRMIST.
2. Prakash P 2022. Fibronectin-containing alternatively spliced extra domain A predicts metabolic dysfunction in humans. 8th International Symposium on Current Trends in Drug Discovery Research, March 12-14, 2022, CSIR-Central Drug Research Institute, Lucknow, India.
3. Prakash P 2018. Accelerated insulin resistance development in C57BL/6 mice by a high-fat diet. International Society of Heart Research-Indian Section, February 16-18, Postgraduate Institute of Medical Education and Research, Chandigarh, India.
4. Prakash P, Gandhi C, Ahmad A, Chauhan AK, 2014. Thrombospondin 1 modulates arterial thrombosis via von Willebrand factor in mice. *Arteriosclerosis Thrombosis and Vascular Biology*, May 1, 34(1), A74-A74.

### **Patent**

1. Dikshit DK, Dikshit M, Siddiqi TI, Kumar A, Bhatta RS, Jain GK, Barthwal MK, Mishra A, Khanna V, Prakash P, Jain M, Singh V, Gupta V, Dwivedy AK, 2011. Chiral 3-aminomethylpiperidine derivatives as inhibitors of collagen-induced platelet activation and adhesion. PCT Patent App. No: PCT/IN2011/000032, Indian Patent App. No. 208DEL2011 (Prov.).

### **Book Chapter**

Prakash P, Surin WR, Barthwal MK, Dikshit M, 2010. Advancements in the New Anti-thrombotic Drug Development. Recent Advances in Herbal Drug Research and Development. Ed: Dr. A Ray and Dr. K. Gulati, New Delhi. India, I.K. International Publishing House Pvt. Ltd, pp 130-183.

### **Abstract**

1. Chahak Singhal, Prem Prakash. Novel drugs targets for protection against myocardial-reperfusion injury: A genomic mining approach. International Conference on Drug Discovery-2022 (ICCD-2022); 10th & 11th November 2022, BITS Pilani, K K Birla Goa Campus.
2. Azeem Ali, Moh Uzair, Qumar Niyaz, Sujata Jetley S, Prem Prakash. Toll-like receptor-4 mediates arterial thrombosis in insulin-resistant rodents. International Conference on Drug Discovery-2022 (ICCD-2022); 10th & 11th November 2022, BITS Pilani, K K Birla Goa Campus.
3. Moh Uzair, Azeem Ali, Kahkasha, Abul Kalam Najmi, Sujata Jetley, Prem Prakash. Inhibition of Toll-like receptor 4 rescues hypercholesteremia-mediated cardiac hypertrophy. International Conference on Drug Discovery-2022 (ICCD-2022); 10th & 11th November 2022, BITS Pilani, K K Birla Goa Campus.

4. Deepanshu, Imran Ahmad Khan, Prem Prakash. Integrin  $\alpha 9\beta 1$  a possible drug target to protect tissue against neutrophil infiltration following acute inflammation: An in silico finding. International Conference on Drug Discovery-2022 (ICCD-2022); 10<sup>th</sup> & 11<sup>th</sup> November 2022, BITS Pilani, K K Birla Goa Campus.
5. Aiman Jahangir, Imran Ahmad Khan, Prem Prakash. Neutrophil elastase a potential therapeutic target against Toll-like receptor 4 mediated sterile infection: An in -silico observation. International Conference on Drug Discovery-2022 (ICCD-2022); 10<sup>th</sup> & 11<sup>th</sup> November 2022, BITS Pilani, K K Birla Goa Campus.
6. Prem Prakash, Shantanu Pande, Vishnu Kumar Malakar, Surendra Kumar Agarwal. Metabolic dysfunction but not hypertension is a major determinant for coronary artery bypass graft surgery known to cause reperfusion injury: A clinical finding. International Conference on Drug Discovery-2022 (ICCD-2022); 10<sup>th</sup> & 11<sup>th</sup> November 2022, BITS Pilani, K K Birla Goa Campus.
7. Prem Prakash, Sangam Rajak, Azeem Ali, Sachi Bharti, Aditya Kapoor, Swasti Tiwari, Surendra Kumar Agarwal, Shantanu Pande. Extra domain A fibronectin and Toll-like receptor 4 interacting site a novel therapeutic target to protect against reperfusion injury following coronary artery bypass graft surgery. International Conference on Drug Discovery-2022 (ICCD-2022); 10<sup>th</sup> & 11<sup>th</sup> November 2022, BITS Pilani, K K Birla Goa Campus.
8. Ali A, Rajak S, Kapoor A, Tiwari S, Agarwal SK, Pande S, Prakash P. Cellular Fibronectin Containing Alternatively Spliced Extra Domain A Gets Increased Following Myocardial Ischemia-Reperfusion Injury. Current Trends in Drug Discovery Research “CTDDR-2022”, 12 to 14 March 2022, CSIR-Central Drug Research Institute, Lucknow, India.
9. Kahkasha, Niyaz MQ, Gupta S, Ali A, Najmi AK, Vohora D, Prakash P. Hypcholesteremia Augments Progression of Cardiac Hypertrophy. Current Trends in Drug Discovery Research “CTDDR-2022”, 12 to 14 March 2022, CSIR-Central Drug Research Institute, Lucknow, India.
10. Gupta S, Prakash P, Khan IA, Tiwari S. Cellular Fibronectin Containing Extra Domain A(EDA) Binds to Toll-like receptor 4 (TLR-4): In silico approach. Current Trends in Drug Discovery Research “CTDDR-2022”, 12 to 14 March 2022, CSIR-Central Drug Research Institute, Lucknow, India.
11. Niyaz MQ, Gupta S, Ali A, Najmi AK, Prakash P. Evaluation of Insulin Resistance Induced Platelet Hyperactivity in Rats. Current Trends in Drug Discovery Research “CTDDR-2022”, 12 to 14 March 2022, CSIR-Central Drug Research Institute, Lucknow, India.
12. Rajak S, Singh K, Hussain Y, Tiwari S, Prakash P, 2017. Standardization and characterization of a mice model of prediabetes induced by a high-fat diet. Molecular Medicines for Lifestyle Disease: Emerging Targets and Approaches, November 20-21, CSIR-Central Drug Research Institute, Lucknow.
13. Hussain Y, Singh K, Rajak S, Tiwari S, Prakash P. Metformin may not protect against early-stage diabetes in the non-obese rats. Molecular Medicines for Lifestyle Disease: Emerging Targets and Approaches, November 20-21, CSIR-Central Drug Research Institute, Lucknow.

14. Prakash P, Chauhan AK, 2016. Endothelial cell-derived VWF is the major determinant that mediates brain ischemic/reperfusion injury in mice. Thrombosis & Hemostasis Summit of North America on April 14-16.
15. Doddapattar P, Dhanesha N, Prakash P, Lentz SR, Chauhan AK, 2016. Deletion of alternatively spliced extra domain A of cellular fibronectin stabilizes advanced rupture-prone plaques in hyperlipidemic mice. Arteriosclerosis Thrombosis and Vascular Biology, May 5.
16. Dhanesha N, Ahmad A, Prakash P, Doddapattar P, Lentz SR, Chauhan AK, 2015. Genetic ablation of extra domain A of cellular fibronectin protects hypercholesterolemic mice from acute stroke by reducing thrombo-inflammation. Journal of Thrombosis and Haemostasis, June 1, 13, 696.
17. Gandhi C, Prakash P, Ahmad A, Chauhan A, 2014. Fibronectin extra domain A modulates atherosclerotic lesion progression in hypercholesterolemic mice through toll-like receptor 4. Arteriosclerosis Thrombosis and Vascular Biology, May 1, 34(1), A59-A59.
18. Jagavelu K, Prakash P, Manhas A, Misra A, Jain M, Malasoni R, Barthwal MK, Dikshit M, 2011. Effect of Curcuma oil (C.oil) on the endothelial cells after myocardial infarction in rats. EU-INDIA S&T COOPERATION DAYS, December 1-2, Vienna, Austria.
19. Prakash P, Singh V, Jyoti A, Jain M, Khanna V, Barthwal MK, Dikshit M, 2010. Atorvastatin reduces inflammatory load and restores endothelial function, in hypertriglyceridemic, insulin-resistant rats. World Heart Failure Society Congress, February 5-7, Chandigarh, India.
20. Prakash P, Khanna V, Jyoti A, Singh V, Jain M, Barthwal MK, Dikshit M, 2010. Long-term fructose-enriched diet feeding aggravates myocardial reperfusion injury and is ameliorated by atorvastatin treatment in rats. World Heart Failure Society Congress, February 5-7, Chandigarh, India.
21. Prakash P, Misra A, Barthwal MK, Dikshit M, 2010. Effect of antithrombotic agents against myocardial ischemia-reperfusion injury in the rat. World Heart Failure Society Congress, February 5-7, Chandigarh, India.
22. Surin WR, Prakash P, Barthwal MK, Dikshit M, 2009. Effect of anti-thrombotic drugs on ferric chloride-induced thrombosis in rats. Current Trends in Pharmaceutical Sciences, Advances In Cardiometabolic Research- Basic Science And Clinical Aspects, February 2-5, Ahmadabad, India.
23. Surin WR, Misra A, Prakash P, Barthwal MK, Dikshit M, 2009. Evaluation of herbal medicament for the antiplatelet effect in various experimental models of thrombosis. Current Trends in Pharmaceutical Sciences, Advances in Cardiometabolic Research- Basic Science And Clinical Aspects, February 2-5, Ahmadabad, India.
24. Jain M, Singh V, Prakash P, Tiwari RL, Mishra A, Keshari RS, Singh S, Dikshit M, Barthwal MK, 2009. Aspirin inhibits athero-thrombotic events in hyperlipidemic hamsters. Current Trends in Pharmaceutical Sciences, Advances in Cardiometabolic Research- Basic Science and Clinical Aspects, February 2-5, Ahmadabad, India.

25. Khanna V, Jain M, Singh V, Prakash P, Misra A, Barthwal MK, Dikshit M, 2009. Anti-inflammatory and vasorelaxant effect of warfarin in hyperlipidemic hamsters. 22nd Annual Conference of Indian Society for Atherosclerosis Research on Cardiovascular Diseases Secondary to Metabolic Disorder: Mechanisms and Therapy, 17-19 December, Mysore, India.
26. M Jain, V Singh, V Khanna, A Misra, P Prakash, M Dikshit, MK Barthwal, 2009. Clopidogrel causes partial reversion of atherothrombotic events in hyperlipidemic hamsters. 22nd Annual Conference of Indian Society for Atherosclerosis Research on Cardiovascular Diseases Secondary to Metabolic Disorder: Mechanisms and Therapy, 17-19 December, Mysore, India.

### Teaching

1. B.Sc.-M.Sc. Integrated Programme (Department of Medical Elementology and Toxicology)- Mechanism in Toxicology and Food and Drug Toxicology (2019-2021).
2. B.Sc.-M.Sc. Integrated Programme (Clinical Research)- Pharmacology (2020-to date).
3. M.Sc.Foundation Course (Department of Medical Elementology and Toxicology) (2020-2021).
4. M.Sc.- Biomedical Sciences- Pre-clinical Research and Animal Biotechnology (2020-to-date).
5. M. Sc- Biomedical Sciences - Human Health and Pathology (2021-to-date).
6. M. Sc- Medical Virology- Human Health and Pathology (2021-to-date).
7. M. Sc- Biomedical Sciences - Skill Building: Laboratory Practical (2020-date).
8. M. Sc- Medical Virology- Skill Building: Laboratory Practical (2021-date).
9. M.Pharma- Cellular and Molecular Pharmacology (2019-2020).
10. M.Pharma- Pharmacological Practical- I (2019-2020).
11. Ph.D. Course Work- Department of Molecular Medicine (2019-to date).

### Workshop Organized

Organizing secretary of a two-day workshop on advanced surgical procedures in cardiovascular disease model (WASP-CDM). Jointly organized by Central Animal House Facility & Department of Molecular Medicine, Jamia Hamdard, New Delhi, December 6-7, 2023 sponsored by Science and Engineering Research Board Government of India and Jamia Hamdard, New Delhi.

### Invited Lecture

1. Prakash P 2024. Fibronectin and cardiovascular diseases. ISTH 2024 - Satellite Symposium of Platelet and Vascular Research on the occasion of the 2024 ISTH Congress June 21, 2024 in Monien Hotel Surawong, Bangkok, Thailand.
2. Resource person in the 5th course on laboratory animal science (5-CLAS) one day workshop on animal handling and ethics organized by R & D Cell and Central Animal House Facility Jamia Hamdard, New Delhi March 12, 2024, sponsored by: ICLAS, International Council for Laboratory Animal Science.
3. Role of fibronectin containing alternatively spliced extra domain A (FN-EDA) in cardiometabolic diseases. National Institute of Pharmaceutical Education and Research, Guwahati (NIPER-Guwahati) September 13 2023.
4. Cellular fibronectin containing alternatively spliced extra domain A aggravates stroke outcome by accelerating carotid artery thrombosis: A real-time intravital approach. 37th Annual Meeting of Society



for Neurochemistry, India (SNCI), September 8-16 2023 North Eastern Hill University Shillong, Meghalaya Nehu, Shillong, India.

5. Resource person in the Rodent Surgery Workshop, organized by the Centre for Comparative Medicine (CCM) and Liver Physiology Lab of the Institute of Liver and Biliary Sciences (ILBS) on 1-3 June 2023.
6. Resource person in the MHRD-RUSA 2.0, Skill Based Internship Program entitled "Basic Cell Culture Technology" to be conducted in the Department of Biotechnology, University of Madras, Chennai December 2021 to January 2022.
7. AICTE Sponsored One Week Online Short Term Training Program (STTP) on Molecular Neuroscience: From Cells to Circuits in Health Disease Phase-III: Preclinical and Clinical Aspects in Molecular Neuroscience June 28th – July 3rd 2021. Organized by Seven Hills College of Pharmacy (Autonomous), Tirupati, India.
8. AICTE sponsored One week (Online) Short Term Training Program (STTP): “Scientific Research Paper, Patents and Research Proposal Writing for Grants and Ethics” dated 25th May – 30th May 2021. Organized by R. C. Patel Institute of Pharmaceutical Education and Research (RCPIPER), Shirpur (MS), India.
9. 59<sup>th</sup> National Pharmacy Week (NPW) 2020 on the theme “Pharmacists: Frontline Health Professionals” held from 16-22 November 2020. Organized by the Indian Pharmaceutical Association (Delhi State Branch), New Delhi, India.

#### **Faculty Development/ Orientation Programme**

1. 4-Week Induction/Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education June 26- July 24, 2020. Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.
2. 2-Week Refresher Course/Faculty Development Programme on Managing Online Classes & Co-creating MOOCS 7.0” August 05 - August 19, 2021. Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching in collaboration with CMS College (Autonomous) Kottayam, Kerala.
3. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Fundamental of Artificial Intelligence" September 13 to September 17, 2021, at College of Technology and Engineering, Udaipur.
4. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Internet of Things: Revolutionary Impact on Pharmaceutical Education and Industry (IoTRIPEI))" September 21 to September 25, 2021, at Andhra University College of Pharmaceutical Sciences.

5. 26<sup>th</sup> Refresher Course in Life Sciences & Biotechnology being organised by UGC-HRDC JNU December 06-December 18 2021. University Grants Commission Human Resource Development Centre (HRDC) Jawaharlal Nehru University UGC-Sponsored Refresher course Online.

#### **Reviewer for Journals**

1. European Journal of Pharmacology.
2. PLOS ONE.
3. PPAR Research.
4. Journal of Dietary Supplements.
5. Diabetes Care
6. Infection, Genetics and Evolution
7. Chemico-Biological Interactions
8. Respiratory Medicine
9. Journal of Biomolecular Structure & Dynamics
10. Current Research in Pharmacology and Drug Discovery

#### **List of Published Work in My Bibliography**

<https://orcid.org/0000-0001-9501-0065>

<https://scholar.google.com/citations?user=-2SHT-sAAAAJ&hl=en>