

Curriculum Vitae of Dr. Rajani Mathur

CONTACT DETAILS

Name Dr. Rajani Mathur
Address F-95, Ansari Nagar (W), New Delhi-110017, India
Cell phone +91-9818368655
E-mail mathurajani@yahoo.com

PERSONAL DETAILS

Date of Birth 19th November 1975
Nationality Indian
Sex Female
Marital status Married

EMPLOYMENT HISTORY

2006 – Till date	Assistant Professor (Pharmacology)	Delhi Institute of Pharmaceutical Sciences and Research, India
2004-06	Senior Resident (Pharmacology)	University College of Medical Sciences Delhi, India

EDUCATION

2000-04	Ph.D	All India Institute of Medical Sciences, New Delhi, India
1997-99	M.Sc (Drug Assay)	All India Institute of Medical Sciences, New Delhi, India
1993-97	B.Pharm	Hamdard University, New Delhi, India

ACADEMIC ACHIEVEMENTS

1997	Graduate Aptitude Test in Engineering (GATE -conducted by Indian Institute of Technology)	85.64 percentile
------	---	------------------

AWARD

2017 FIRST PRIZE FOR BEST PAPER PRESENTATION to the group

Effect of *Nigella sativa* seed extract on parameters of hepatic insulin resistance using primary hepatocytes isolated from rodents. Malik D, Ibrahim M, Singh S, Nair J, Sharma P, **Mathur R**. Oral presentation in Delhi Diabetic Forum DIABCON, 2017, India

2015 INTERNATIONAL TRAVEL GRANT BY UNIVERSITY GRANTS COMMISSION, India

Anti-proliferative, anti-angiogenic and pro-apoptotic actions qualify *Nigella sativa* as taxane therapy adjuvant in ovarian cancer. Mathur R, Tewari M. Poster presentation in Special Conference of American Association of Cancer Research on Metabolism and Cancer, 2015, USA

2013 Best Poster Award to the group

Aqueous leaf extract of *Aegle marmelos* Linn. possesses Cholinergic, Serotonergic and Adrenergic Activity: A Pharmacodynamic study. Kumar S, Mahaseth R, Tiwari M, Sehgal R, Rajora P, **Mathur R**. Poster presentation in International Conference of Pharmacoeconomics and Outcomes Research, 2013, New Delhi.

2013 Best Poster Award to the group

Gingerol Prevents retinal abnormalities via anti-angiogenic, anti-inflammatory, antioxidative effects and polyol pathway mechanisms in streptozotocin induced diabetic Rats. Dongare S, Gupta SK, **Mathur R**, Saxena R, Srivastava S, Kumar B. Poster presentation in International Conference of Pharmacoeconomics and Outcomes Research, 2013, New Delhi.

2011 Prof. G.K.PAL AWARD FOR BEST PAPER

Mathur R, Gupta SK, Mathur SR, Velpandian T. Calotropis procera root extracts block VEGF-induced angiogenesis: quantitative analysis Indian J Physiol Pharmacol 2011; 55(1): 5-12. Association of Physiologists and Pharmacologists during 57th Annual Conference at AIIMS, New Delhi

2010 SCHOLARSHIP GRANT BY NDDO EDUCATION FOUNDATION

Mathur R, Saraswati S, Agrawal SS. Multiple Molecular Targets of Brucine: Anti-Carcinogenic Mechanisms. Poster presentation in 8th International Symposium on Targeted Anticancer Therapies, TAT2010, Bethesda, USA

2006 JAIPUR PRIZE FOR BEST POSTER PRESENTATION

Mathur R, Yaduvanshi B, Mathur S, Gupta SK, Velpandian T. Leaf extract of Ficus religiosa inhibits vascular endothelial growth-factor-induced angiogenesis. Poster presentation in XXXIX Annual Conference of Indian Pharmacological Society)

ORIGINAL RESEARCH ARTICLES PUBLISHED IN INTERNATIONAL/NATIONAL JOURNALS

S.No	Research Article	Reference
1.	Gas chromatography- mass spectrometric determination of components of leaves of <i>Aegle marmelos</i> and <i>Psidium guajava</i> and seeds of <i>Nigella sativa</i> and correlation with in vitro antioxidant activity. Nair J.C.V, Khan M, Anjum V, Ahamad S, Mathur R	Accepted Phcog Res
2.	<i>Aegle marmelos</i> differentially affects hepatic markers of glycolysis, insulin signaling pathway, hypoxia and inflammation in Hepg2 cells grown in fructose versus glucose-rich environment. Aggarwal H, Nair J, Sharma P, Sehgal R, Naeem U, Rajora P, Mathur R .	Mol Cell Biochem. 2017 Aug 1. doi: 10.1007/s11010-017-3108-8
3.	<i>Aegle marmelos</i> (L.) Corr. impedes onset of insulin resistance syndrome in rats provided with drinking fructose from weaning to adulthood stages of development: — a mechanistic study. Mathur R , Sehgal R, Rajora P, Sharma S, Kumar R, Mathur S.	Can J Physiol Pharmacol. 2017 May;95(5):572-579. doi: 10.1139/cjpp-2016-0236.
4.	Development and Validation of HPTLC Method for Simultaneous Determination of Polyphenolic Compounds in Medicinal Plants. Nair J.C.V, Khan M, Anjum V, Ahamad S, Mathur R .	Phcog Res 2017;9: S67-73.
5.	Investigation of anti-asthmatic potential of Kanakasava in ovalbumin-induced bronchial asthma and airway inflammation in rats. Arora P, Ansari SH, Anjum V, Mathur R , Ahmad S	J Ethnopharmacol. 2017 Feb 2;197:242-249. doi: 10.1016/j.jep.2016.07.082. Epub 2016 Aug 5
6.	Cardioprotective effects of rutin via alteration in TNF- α , CRP, and BNP levels coupled with antioxidant effect in STZ-induced diabetic rats. Saklani R, Gupta SK, Mohanty IR, Kumar B, Srivastava S, Mathur R	Mol Cell Biochem. 2016 Sep;420(1-2):65-72. doi: 10.1007/s11010-016-2767-1. Epub 2016 Jul 22
7.	Genistein ameliorates cardiac inflammation and oxidative stress in streptozotocin-induced diabetic cardiomyopathy in rats. Gupta SK, Dongare S, Mathur R , Mohanty I, Sushma Srivastava S, Mathur S, Nag TC.	Mol Cell Biochem DOI 10.1007/s11010-015-2483-2
8.	Genistein alleviates high glucose induced toxicity and angiogenesis in cultured human RPE cells. Gupta SK, Dongare S, Rajendran S, S Senthilkumari, Mathur R , Saxena R, Srivastava S.	Int J Pharm Pharm Sci 2015; 7(8)

9.	<i>Psidium guajava</i> linn. Leaf Extract Affects Hepatic Glut2 To Attenuate Early Onset Of Insulin Resistance Consequent To High Fructose Intake: An Experimental Study. Mathur R , Dutta S, Velpandian T, Mathur SR	Phcog Res 2015; 7: 166-75.
10.	Interaction of aqueous leaf extract of <i>Aegle marmelos</i> (L.) Corr. with cholinergic, serotonergic and adrenergic receptors: An Ex-vivo study. Kumar S, Mahaseth R, Tiwari M, Sehgal R, Rajora P, Mathur R .	Indian J Pharmacol 2015; 47:109-13.
11.	Comparison of DIPSI and IADPSG criteria for diagnosis of GDM : A Study in a north Indian tertiary care centre. Vij P, Jha S, Gupta SK, Aneja A, Mathur R , Waghdhare S, Panda M	Int J Diabetes Dev Ctries DOI 10.1007/s13410-014-0244-5
12.	Saraswati S, Pandey M, Mathur R , Agrawal SS. Boswellic acid inhibits inflammatory angiogenesis in a murine sponge model.	Microvasc Res, 2011; 82(3): 263-8
13.	Agrawal SS, Saraswati S, Mathur R , Pandey M. Cytotoxic and antitumor effects of brucine on Ehrlich ascites tumor and human cancer cell line.	Life Sci 2011; 89(5-6): 147-58
14.	Agrawal SS, Saraswati S, Mathur R , Pandey M. Antitumor properties of Boswellic acid against Ehrlich ascites cells bearing mouse.	Food Chem Toxicol 2011; 49(9): 1924-34
15.	Mathur R . 2-bute-4-olide (2-B4O) suppresses feeding in neonate and developing rat pups.	Physiol Behav 2010; 101(2): 232-236
16.	Mathur R , Gupta SK, Singh N, Mathur S, Kochupillai V, Velpandian T. Evaluation of the effect of <i>Withania somnifera</i> root extracts on cell cycle and angiogenesis	J Ethnopharmacol 2006; 105(3): 336-41.
17.	Velpandian T, Saluja V, Ravi AK, Mathur R , Biswas NR. Evaluation of the stability of extemporaneously prepared ophthalmic formulation of Mitomycin C	J Ocul Pharmacol Therap 2005; 21(3): 217-22
18.	Velpandian T, Mathur R , Agarwal NK, Arora B, Kumar L, Gupta SK. Development and evaluation of a simple liquid chromatographic method with Ultraviolet detection for the determination of imatinib in biological samples.	J Chromatogr (B) Analyt Technol Biomed Life Sci 2004; 804(2): 431-4
19.	Mathur R and Gupta YK. Adenosinergic and dopaminergic interaction in nigrostriatum in FeCl ₃ -induced model of parkinsonism in rats.	Methods Find Exp Clin Pharmacol 1999; 21(6): 435-9
20.	Saini N, Mathur R , Agrawal SS. Qualitative and Quantitative Assessment of Four Marketed Formulations of Brahmi	Indian J Pharm Sci . 2012; 74(1): 24
21.	Yaduvanshi B, Mathur R , Mathur SR, Velpandian T Evaluation of healing potential of topical formulation of leaf juice of <i>Tridax procumbens</i> L. using excision wound model in mice.	Indian J Pharm Sci . 2011, 73(3):303-6
22.	Mathur R , Gupta SK, Mathur SR, Velpandian T. <i>Calotropis procera</i> root extracts block VEGF-induced angiogenesis: quantitative analysis	Indian J Physiol Pharmacol 2011; 55(1): 5-12
23.	Mathur R , Velpandian T. Medicinal plant based health products-where is the medicinal constituent?	Indian J Pharmacol 2009; 41(4): 205-6
24.	Mathur R , Gupta SK, Mathur S, Velpandian T. Anti-tumor studies with extracts of <i>Calotropis procera</i> (Ait.) R.Br. root employing Hep2 cells and their possible mechanism of action	Indian J Exp Biol 2009; 47(5): 343-48
25.	Mediratta P, Tanwar K, KH Reeta, Mathur R , Basu DB, Singh S, Sharma KK. Attenuation of the effect of lindane on immune responses and oxidative stress by ocimum sanctum seed oil (OSSO) in rats.	Indian J Physiol Pharmacol 2008; 52(2): 171-7

26.	Mathur R , Joshi S, Gupta SK, Velpandian T. Cigarette smoke condensate reduces the detoxifying capabilities of rat lens.	Indian J Pharmacol 2005; 37(1): 44
-----	---	------------------------------------

ORIGINAL RESEARCH ARTICLES IN NON-INDEXED JOURNALS

S.No	Research Article	Reference & (No. of Citations)
25.	Agrawal SS, Saraswati S, Mathur R , Pandey M. Brucine, a plant derived alkaloid inhibits inflammatory angiogenesis in a murine sponge model	Biomed Prev Nutr 2011; 1(3): 180-85 (09)
26.	Sharma V, Wakode SR, Lather V, Mathur R , Fernandes MX. Structure based rational drug design of selective phosphodiesterase-4 ligands as anti-inflammatory molecules	Bull Pharm Res 2011; 1(2): 33-40
27.	Mathur R . Anti-inflammatory action of Dashmularishta an Ayurvedic drug-against carrageenan and adjuvant model in rat.	Journal of Research in Ayurveda Siddha 2009; 30(3): 85-90

INVITED REVIEW ARTICLE

S.No	Research Article	Reference
28.	Gupta SK, Agrawal R, Srivastava S, Mathur R , Galpalli ND, Agrawal SS. Therapeutic potential of green tea: a new horizon in drug discovery.	Expert Opinion Drug Discovery 2007; 2(3): 349-59

ABSTRACTS IN INDEXED JOURNALS

S.No	Research Article	Reference
29.	Mathur R , Shveta, Kumar R, Mathur SR. Aqueous leaf extract of <i>Aegle marmelos</i> (L.) correa ameliorates fructose induced metabolic syndrome in rats.	Indian J Physiol Pharmacol (Suppl) 2012; 56(5): 230
30.	Agrawal SS, Saraswati S, Mathur R . Multiple molecular targets of Brucine: anti-carcinogenic mechanisms.	Annals Oncol 2010; 21(Suppl2): ii37
31.	Saraswati S, Mathur R , Agrawal SS. Evaluation of Strychnine, a plant alkaloid for invitro antiangiogenesis, apoptosis and antioxidant potential in MCF-7 cancer cell.	Eur J Cancer (Suppl) 2010; 8(7): 204
32.	Mathur R , Velpandian T, Gupta SK Standardization of four marketed preparations of Ashwagandha using HPLC with photodiode array detection.	Indian J Pharmacol 2004;36:194
33.	Yaduvanshi B, Mathur R , Velpandian T, Gupta SK. Comparative evaluation of wound healing action of topical <i>Tridax procumbens</i> and VEGF in mice.	Indian J Pharmacol 2004;36:194

BOOKS EDITED

1. Proceedings of International Symposium on Recent Advances in Cardiovascular Sciences. ed: Agrawal SS. Editorial Team Member: Srivastava S, **Mathur R**, Agrawal R
-

CHAPTERS IN BOOKS

1. **Mathur R** and Agarwal R. Steroidal and Non-steroidal anti-inflammatory agents for ocular use. In: Pharmacology of ocular therapeutics. Ed: Velpandian T. Springer International Publishing, Switzerland, 2016: 229-244.
2. Gupta SK and **Mathur R**. Newer tools for drug screening. In: Drug Screening Methods. 3rd edition ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2016: 1-19.
3. Velpandian T and **Mathur R**. Sexual Dysfunction. In: Drug Screening Methods. 3rd edition ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2016: 121-131.
4. **Mathur R**. Evaluation of Pharmacological activity of herbal medicines. In: Drug Screening Method. 3rd edition ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2016: 245-253.
5. **Mathur R**. Agents for immune-based disorders. In: Drug Screening Method. 3rd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2016: 254-265.
6. **Mathur R**. Anti-psychotics. In: Drug Screening Method. 3rd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2016: 393-403.
7. **Mathur R**. Anti-depressants. In: Drug Screening Method. 3rd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2016: 404-411.
8. **Mathur R**. Anti-parkinsonism. In: Drug Screening Method. 3rd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2016: 453-467.
9. **Mathur R** and Sharma M. Anti-alzheimer agents. In: Drug Screening Method. 3rd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2016: 436-452.
10. Srivastava S, **Mathur R**, Kumar B, Saklani R. Diabetic retinopathy. In: Drug Screening Method. 3rd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2016: 645-658.
11. **Mathur R**. Pharmacokinetic And Pharmacodynamic Basis Of Pharmacotherapy. In: API Textbook of Medicine. 10th edition. Section Editor- Gupta SK. Editor-in-Chief Munjal YP. Jaypee Brothers Medical Publishers, India, 2015: 213-220.
12. Gupta SK, **Mathur R**. Anti-Viral Drugs For Ocular Diseases. In: Textbook on Clinical Ocular Pharmacology & Therapeutics. 1st edition. Ed: Gupta SK, Agrawal R, Srivastava S, Jaypee Brothers Medical Publishers, India, 2014: 135-145.
13. **Mathur R**. Immunomodulators. In: Textbook on Clinical Ocular Pharmacology & Therapeutics. 1st edition. ed: Gupta SK, Agrawal R, Srivastava S, Jaypee Brothers Medical Publishers, India, 2014: 204-209.
14. **Mathur R**. Drug discovery and development of biologics. In: Drug Discovery and Clinical Research. Ed: Gupta SK, Jaypee Brothers; New Delhi 2011: 136-148.
15. **Mathur R**. Pharmacovigilance of herbal drugs. In: Textbook of Pharmacovigilance. ed: Gupta SK. Jaypee Brothers; New Delhi 2011: 142-154.
16. Velpandian T and **Mathur R**. Potential therapeutic entities from plants for various ocular disorders. In: Recent Advances in Herbal Drug Research And Therapy. ed: Ray A and Gulati K, I.K. International Publishing House Pvt. Ltd; New Delhi 2010: 449-460.
17. Gupta SK and **Mathur R**. Newer tools for drug screening. In: Drug Screening Method. 2nd edition ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2009: 1-15.
18. **Mathur R**. Neuropsychopharmacology. In: Drug Screening Method. 2nd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2009: 374-381.
19. **Mathur R**. Anti-psychotics. In: Drug Screening Method. 2nd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2009: 382-391.
20. **Mathur R**. Anti-depressants. In: Drug Screening Method. 2nd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2009: 392-399.
21. **Mathur R**. Anti-parkinsonism. In: Drug Screening Method. 2nd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2009: 439-452.
22. **Mathur R** and Sharma M. Agents for learning and memory. In: Drug Screening Method. 2nd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2009: 423-438.
23. **Mathur R**. Pharmacological activity of herbal drugs. In: Drug Screening Method. 2nd edition ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2009: 237-245.
24. **Mathur R**. Agents for immune-based disorders. In: Drug Screening Method. 2nd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2009: 246-257.

25. Srivastava S, **Mathur R**, Joshi S. Diabetic retinopathy. *In: Drug Screening Method*. 2nd edition. ed: Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2009: 614-623.
26. **Mathur R** and Gupta SK. Pharmacovigilance of Herbal Drugs. *In: Essentials of Pharmacovigilance*. 1st edition. ed: Gupta SK, Institute of Clinical Research, India. 2009: 201-218.
27. **Mathur R**. Pharmacogenetics and Pharmacovigilance. *In: Essentials of Pharmacovigilance*. 1st edition. ed: Gupta SK, Institute of Clinical Research, India. 2009: 229-236.
28. **Mathur R**. Communication Skills., pp 444-453. *In: Basic Principles of Clinical Research and Methodology*,2007. **ed:** Gupta SK. Jaypee Bros, New Delhi.
29. **Mathur R** and Gupta SK. Herbal remedies for pain. *In: Pain Updated: Mechanisms and Effects*. **ed:** R. Mathur, Anamaya Publishers, New Delhi, 2006: 275-279.
30. **Mathur R**. Neuropsychopharmacology. *In: Drug Screening Method*. 1st edition **ed:** Gupta SK. Jaypee Brothers Medical Publishers; Delhi, 2004: 61-67.
31. **Mathur R**. Anti-psychotics. *In: Drug Screening Method*. 1st edition **ed:** Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2004: 68-76.
32. **Mathur R**. Anti-depressants. *In: Drug Screening Method* **ed:** Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2004: 77-83.
33. **Mathur R**. Anti-parkinsonism. *In: Drug Screening Method* **ed:** Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2004: 104-116.
34. **Mathur R** and Sharma M. Agents for learning and memory. *In: Drug Screening Method* **ed:** Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2004: 117-129.
35. **Mathur R**. Pharmacological activity of herbal drugs. *In: Drug Screening Method* **ed:** Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2004: 463-470.
36. **Mathur R**. Agents for immune-based disorders. *In: Drug Screening Method* **ed:** Gupta SK, Jaypee Brothers Medical Publishers; Delhi, 2004: 485-493

RESEARCH PROJECTS HANDLED

S.No.	Research Project Title	Funding Agency	From-To	Principal Investigator
1.	Impact of EMF radiation from mobile handsets on brain glucose transporters: an experimental study	ICMR	2017-2020	Dr. Rajani Mathur
2.	To study the Intestinal Fructose Transport (via GLUT2) & GLUT5 transporters in Rodent Model of Fructose Induced Childhood-Overweight/Obesity and Investigate the Preventive Potential of Medicinal Plants Therein	DBT	2014-2017	Dr. Rajani Mathur
3.	Development of a novel pharmacological approach to the treatment of obesity and related metabolic disorders	UGC under the Major Research Project Scheme	1.04.09-31.3.12	Dr. Rajani Mathur
4.	In vitro and in vivo evaluation of anti-cancer and anti-angiogenic activity of some potential compounds from Indian medicinal plants	AICTE under Research Promotion Scheme	16.04.09-15.04.12	Dr. Rajani Mathur
5.	Pharmacological, biochemical and phytochemical studies on the anti-cancer potential of some medicinal plants	CSIR	August 2001-July 2004	Dr. Rajani Mathur

**PAPERS PRESENTED IN VARIOUS INTERNATIONAL/NATIONAL CONFERENCES/
SYMPOSIUM**

1. 2nd Brainstorming Workshop on Principles and Applications of Pharmacoeconomics on Nov 29 at AIIMS, Delhi. **Mathur R**- Invited participant.
2. Mathur R, Nair J, Das U, Velpandian T. Butanol fraction of hydroalcoholic extract of leaves of *Aegle marmelos* fares better than Metformin, Pioglitazone or Rutin in ameliorating fructose induced insulin resistance in HepG2 cells. Oral presentation at 63rd Annual National conference of Association of Physiologists and Pharmacologists of India, at JIPMER, Puducherry from 12th-14th Oct, 2017.
3. Sharma P, Nair J, **Mathur R**. Effect of *Aegle marmelos* L. Correa on short circuit current, a determinant of fructose transport, across the intestinal epithelia of rats chronically provided with fructose (15%) from post-weaning to adulthood stages of development. Poster presentation at Cardiovascular Research Convergence 2017: A scientific forum for exchanging research views between clinicians and basic scientists at Translational Health Science and Technology Institute (THSTI), Faridabad, India, August 12th, 2017.
4. Aggarwal H, Kaur H, Saba N, Tiwari M, **Mathur R**. Rutin alleviates insulin resistance by favorably resetting hepatic insulin signaling pathway (PI3K/mTOR) that was skewed by fructose in hepg2 cells. Poster presentation at the 49th Annual Conference of Indian Pharmacological Society at Chandigarh, India, October 20-23, 2016.
5. Singh S, Malik D, Ibrahim M, Sharma P, Nair J, **Mathur R**. Effect of *Psidium guajava* Leaf Extract on Parameters of Hepatic Insulin Resistance Using Primary Hepatocytes Isolated from Mice. Paper presentation at 25th Annual Conference of Delhi Diabetic Forum DIABCON 22-23 April 2017, New Delhi
6. Malik D, Ibrahim M, Singh S, Sharma P, Nair J, **Mathur R**. Effect of Nigella sativa seed Extract on Parameters of Hepatic Insulin Resistance Using Primary Hepatocytes Isolated from Rodents. Paper presentation at 25th Annual Conference of Delhi Diabetic Forum DIABCON 22-23 April 2017, New Delhi.
7. Ibrahim M, Singh S, Malik D, Sharma P, Nair J, **Mathur R**. Effect of *Aegle marmelos* leaf Extract on Parameters of Hepatic Insulin Resistance Using Primary Hepatocytes Isolated from Rodents. Paper presentation at 25th Annual Conference of Delhi Diabetic Forum DIABCON 22-23 April 2017, New Delhi
8. Sharma P, Nair J, **Mathur R**. Acute intake of high fructose adversely alters hepatic GLUT2 expression in developing rats that may be mitigated by *Aegle marmelos* (L.) Correa. Poster Presented in 9th Annual Conference of International Academy of Cardiovascular Sciences (IACS 2017), Vallabhshai Patel Chest Institute, New Delhi
9. Nair J, Aggarwal H, Kaur H, Saba N, Tiwari M, **Mathur R**. Rutin alleviates insulin resistance by favourably resetting hepatic insulin signalling pathway (PI3k/mTOR) that was skewed by fructose in HepG2 cells. Poster presented in AIGJCON IPS 50th Annual Inaugural Golden Jubilee Conference of Indian Pharmacological Society, IGMS Patna.
10. Latha S, **Mathur R**. In-Ovo evaluation of aqueous extract of *Psidium guajava* leaves on angiogenesis using Chick Chorioallantoic Membrane Assay. Poster presented in IPSCON, 21st- 23rd October 2016, Chandigarh by Indian Pharmacological Society
11. Latha S, **Mathur R**. Anti-angiogenic effect of hydroalcoholic extract of *Aegle marmelos* leaves on VEGF induced angiogenesis in Chick Chorioallantoic Membrane Poster

presented in SEFC 2017-4th International congress of Society for Ethnopharmacology from 23rd February to 25th February 2017, Surat, Gujrat, India.

12. Shirish D, **Mathur R**, Gupta SK, Rohit Saxena, Sushma Srivastava. Prevention and Treatment of Diabetic cardiomyopathy by Genistein in STZ induced diabetic Rat. Recent advances in cardiovascular sciences(RACS) 2014, New Delhi, India.
13. Shveta Sharma **Mathur R**, Jagmohan S. Lipid lowering activity of aqueous and ethanolic extract of leaves of *Aegle marmelos* Linn in diet induced hyperlipidaemic models of wistar Rats. Recent advances in cardiovascular sciences (RACS) 2014, New Delhi, India.
14. Deepti R, Gupta SK, **Mathur R**, Shiva Murthy, Sandeep S, Sharad C, Abhijeet B, Anshul A. A Retrospective study on relationship of plasma albumin level and blood glucose level Vs serum bilirubin level in healthy adult human volunteers of Delhi NCR. Recent advances in cardiovascular sciences (RACS) 2014, New Delhi, India.
15. Nidhi, Vini D, **Mathur R**, Gupta SK, Abhay, Kumud R, Kapil G. Prevalence of carotid artery stenosis involving risk of obesity and lipid profile in a screening camp. Recent advances in cardiovascular sciences (RACS) 2014, New Delhi, India.
16. Vini D, Nidhi, **Mathur R**, Gupta SK, Abhay, Kumud R, Kapil G. Evaluation of risk of smoking and high blood pressure involving abdominal aortic Aneurism. Recent advances in cardiovascular sciences (RACS) 2014, New Delhi, India.
17. Amit, Gupta SK, **Mathur R**, Shiva Murthy, Sandeep S, Sharad C, Abhijeet B, Anshul A. A Retrospective observational study on relationship between age, BMI, caffeine intake Vs Hypercholesterolemia in healthy adult human volunteer of Delhi NCR. Recent Advances in Cardiovascular Sciences (RACS) 2014, New Delhi, India.
18. Neeti S, **Mathur R**, Gupta SK. New Amendments in schedule Y. Recent advances in cardiovascular sciences (RACS) 2014, New Delhi, India.
19. Shirish D, Gupta SK, **Mathur R**, Rohit Saxena, Sushma Srivastava. Gingerol attenuates retinal abnormalities via anti-angiogenic, anti-inflammatory, antioxidative effects and polyol pathway mechanisms in streptozotocin induced diabetic Rats. Asia Arvo 2013, New Delhi, India
20. Shirish D Gupta SK, **Mathur R**, Rohit Saxena, Sushma Srivastava, Binit Kumar. Gingerol Prevents retinal abnormalities via anti-angiogenic, anti-inflammatory, antioxidative effects and polyol pathway mechanisms in streptozotocin induced diabetic Rats. International conference of Pharmacoeconomics and outcomes Research 2013, New Delhi, India
21. Rakesh KM, Sajeev K, Shagun D, Ratika S, Preety R, **Mathur R**. Aqueous leaf extract of *Psidium guajava* Linn. possesses Cholinergic, Serotonergic and Adrenergic Activity: A Pharmacodynamic study. International conference of Pharmacoeconomics and outcomes Research 2013, New Delhi, India
22. Sajeev K, Rakesh KM, Mukesh T, Ratika S, Preety R, **Mathur R**. Aqueous leaf extract of *Aegle marmelos* Linn. possesses Cholinergic, Serotonergic and Adrenergic Activity: A Pharmacodynamic study. International conference of Pharmacoeconomics and outcomes Research 2013, New Delhi, India
23. Ratika S, Sajeev Kumar, Jayachandran N, Preety R. **Mathur R**. Alcoholic seed extract of *Nigella sativa* Linn. possesses Cholinergic, Serotonergic and Adrenergic Activity: A Pharmacodynamic study. International conference of Pharmacoeconomics and outcomes Research 2013, New Delhi, India
24. **Mathur R**, Shagun, Velpandian T, Mathur SR. Aqueous extract of leaves of *Psidium guajava* Linn. inhibits hepatic GLUT2 expression to ameliorate the pathologies associated with fructose induced childhood-overweight/obesity: an experimental study. Oral presentation in 46th Annual Conference of Indian Pharmacological Conference, 2013, Bangalore, India.
25. **Mathur R**, Shveta, Kumar R, Mathur SR. Aqueous Leaf Extract of *Aegle marmelos* (L.) Correa Ameliorates Fructose Induced Metabolic Syndrome In Rats. Poster presentation

in 58th APPICON, 2012, Meerut, India.

26. **Mathur R**, Gupta SK, Mathur SR, Velpandian T. Calotropis procera root extracts block VEGF-induced angiogenesis: quantitative analysis Indian J Physiol Pharmacol 2011; 55(1): 5-1257th Annual Conference of Physiologists and Pharmacologists Pharmacologists during 57th Annual Conference at AIIMS, New Delhi
27. Saraswati S, **Mathur R**, Agrawal SS. Evaluation of strychnine, a plant alkaloid for in vitro anti-angiogenesis, apoptosis and antioxidant potential in MCF-7 cancer cells. Poster presentation in 22nd EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therapeutics, 2010, Berlin, Germany
28. **Mathur R**, Saraswati S, Agrawal SS. Multiple Molecular Targets of Brucine : Anti-Carcinogenic Mechanisms. Poster presentation in 8th International Symposium on Targeted Anticancer Therapies, 2010, Bethesda, USA.
29. Shveta, **Mathur R**, Agrawal SS. *Aegle marmelos* leaf extract ameliorates fructose induced metabolic syndrome in rats. Oral presentation in International Conference on Recent Advances in Cardiovascular Sciences (RACS 4th), 2010.
30. Saraswati S, **Mathur R**, Agrawal SS. Strychnine, a potent anticancer and anti-angiogenic molecule. Poster presentation in 3rd Translational Cancer Research Conference, 2009.
31. Saini N, Agrawal SS, **Mathur R**. Quality and Content Assessment of Two Batches of Four Marketed Brahmi Formulations. Poster presentation in International Conference on Integrative & Personalized Medicine and 42nd Annual Conference of Indian Pharmacological Society, 2009.
32. **Mathur R**. 2-B4O mediated feeding and satiety behavior in neonate and developing rat pups. Poster presentation in International Conference on Translational Pharmacology & 41st Annual Conference of IPS, 2008.
33. **Mathur R**, Negi H, Mediratta P, Sharma KK. Putative mechanism of anticonvulsant activity of ginger extract. Poster presentation in 40th Annual Conference of IPS, 2007.
34. **Mathur R**, Yaduvanshi B, Mathur S, Gupta SK, Velpandian T. Leaf extract of *Ficus religiosa* inhibits vascular endothelial growth-factor-induced angiogenesis. Poster presentation in XXXIX Annual Conference of IPS, 2006.
35. **Mathur R**, Velpandian T, Gupta SK. Effect of methanolic extract of Ashwagandha roots on VEGF induced neoangiogenesis in chick chorioallantoic membrane assay. Poster presentation in International Symposium on Recent Advances in Pharmacology, 2004.
36. Yaduvanshi B, **Mathur R**, Velpandian T, Kishore K, Mathur S, Gupta SK Evaluation of angiogenic property of Tridax leaves using CAM assay. Poster presentation in International Symposium on Recent Advances in Pharmacology, 2004.
37. **Mathur R**, Velpandian T, Gupta SK Standardization of four marketed preparations of Ashwagandha using HPLC with photodiode array detection. Poster presentation in XXXVII Annual Conference of IPS. Indian J Pharmacol 2004;36:194.
38. Yaduvanshi B, **Mathur R**, Velpandian T, Gupta SK. Comparative evaluation of wound healing action of topical Tridax procumbens and VEGF in mice. Poster presentation in XXXVII Annual Conference of IPS. Indian J Pharmacol 2004;36:194.
39. Mahawar, **Mathur R**, Gupta SK. Role of quality control and reference standards in herbal drug industry. Oral presentation in BERM-2003, Germany.
40. **Mathur R**, Velpandian T, Agarwal NK, Gupta SK Comparative Evaluation of Transdermal Penetration of Topical Diclofenac Formulations. Poster presentation in XXXV Annual Conference of IPS, 2002.
41. **Mathur R**, Prakash J, Gupta SK Anti-inflammatory activity of Dashmularishtha in acute and chronic models of inflammation I Conference of IPS, 2000.
42. **Mathur R**, Malhotra J, Gupta YK Mechanism of theophylline induced inhibition of gastric emptying in rats. Oral presentation in Tridecennial Annual Conference of IPS, 1997.

CHAPTERS REVIEWED

1. Pharmaceutical Suspensions. For Elsevier (India) Pvt. Ltd.
2. Drug Dissolution. For Elsevier (India) Pvt. Ltd.
3. Essential of Biopharmaceutics and Pharmacokinetics. For Elsevier (India) Pvt. Ltd.
4. Pharmacology and Pathophysiology. For Elsevier (India) Pvt. Ltd.
5. Drugs acting on cardiovascular system. For e-Book of National Science Digital Library (NSDL).

JOURNAL REFREE

1. Associate Editor-Indian Journal of Physiology and Pharmacology
 2. Indian Journal of Pharmaceutical Sciences-Scientific Publication of Indian Pharmaceutical Association
 3. Journal of Ecology and the Natural Environment. Published by Academic Journals
 4. Journal of Medicinal Plants Research. Published by Academic Journals
-

MEMBER OF NATIONAL AND INTERNATIONAL BODIES

1. Active Member, American Association of Cancer Research (AACR)
 2. Life Member, Indian Association of Cancer Research (IACR)
 3. Life Member, International Society of Pharmacoeconomics and Outcomes Research-India Chapter
 4. Life Member, Association of Physiologists and Pharmacologists of India
 5. Life Member, Indian Pharmacological Society
-

NATIONAL AND INTERNATIONAL WORKSHOPS/CONFERENCES/QUALITY IMPROVEMENT PROGRAM ORGANIZED

- i. **Organising Secretary-** Fifth International Conference of Pharmacoeconomics & Outcomes Research 3rd-4th March, 2017
- ii. **Co-ordinator-** 21st QIP- Recent Trends in Pharmacology and Therapeutics, DIPSAR 30th January, 2017-10th February, 2017
- iii. **Organising Secretary-**Fourth International Conference of Pharmacoeconomics & Outcomes Research 31st Oct & 1st Nov of 2015
- iv. **Organising Secretary-**Third International Conference of Pharmacoeconomics & Outcomes Research Oct 2014
- v. **Co-ordinator-** 18th QIP- Recent Trends in Pharmacology and Therapeutics, DIPSAR 20th Feb - 5th March, 2015

1. Scientific Committee member-

- i) International Symposium on Recent Advances in Cardiovascular Sciences (RACS 6th) Jan 2014
- ii) International Conference of Pharmacoeconomics And outcomes research-India(ISPOR 2nd) Oct 2013
- iii) International Symposium on Recent Advances in Cardiovascular Sciences (RACS 4th) Feb 2010
- iv) Indian Congress of Pharmacy & Pharmaceutical Sciences-2009 and Indian Pharmaceutical Association Convention-2009 Mar 2009
- v) International Symposium on Recent Advances in Cardiovascular Sciences (RACS 3rd) Dec 2008
- vi) International Symposium on Recent Advances in Cardiovascular Sciences (RACS 2nd) Feb 2008
- vii) International Symposium on Recent Advances in Cardiovascular Sciences (RACS 1st) Feb 2007

2. Resource Person-

- i) 65th Indian pharmaceutical Congress at

- Amity University, Noida Dec 2013
- ii) 2nd National Hands-On-Workshop on “ Advanced Bio-Analytical Techniques in PK Studies from Method Development to Data Interpretation, AIIMS, New Delhi Feb 2010
- iii) Methodologies for Research in Pharmaceutical Sciences -Post-Conference Workshop, DIPSAR, New Delhi Mar 2009
Recent Advances in Drug Discovery and Design Mar 2009
- iv) Capacity Building Workshop on Disaster Mitigation DIPSAR, New Delhi Mar 2009
- v) First National Hands-on-workshop on Bioanalytical Techniques in PK-Studies-from method development to data interpretation, AIIMS, New Delhi Feb 2008
3. **Reception Committee member**
- i) ICPPS & IPA Convention-2009 Mar 2009
- ii) Third International Symposium on RACS, Dec 2008
- iii) Second International Symposium on RACS Feb 2008
- iv) International Symposium on RACS Feb 2007
4. **Finance Committee member**
- i) International Symposium on RACS Feb 2007
5. **Inauguration Committee member**
- ii) 60th Indian Pharmaceutical Congress Dec 2008

PhD/M.PHARM STUDENTS GUIDED

S.No.	Programme	Capacity	Number of students	Status
1.	PhD	Jt. Supervisor	01	Degree granted
2.	PhD	Supervisor	03	Ongoing
3.	PhD	Departmental Advisory Committee	08	
4.	M.Pharm	Guide	09	06-Degree granted 03- ongoing
5.	M.Pharm.	Co-guide	03	Degree granted

INVITED GUEST LECTURE

S.No.	VENUE/FORUM	TOPIC	DATE
1.	Dev Bhoomi Institute of Pharmacy & Research, Dehra Dun	Introduction to molecular & Receptor pharmacology	15th Sep, 2012
2.	NAME-2014, JNU, New Delhi		5 th Dec, 2014