

1. **Name of faculty** : Rekha Vijayvergia
2. **Department** : Botany
3. **Designation** : Associate Professor
4. **Age as on 01.01.2016** : 1st March 1967(48 years)
5. **Educational Qualification** : M.Sc, Ph. D.
6. **Teaching Experience as on 01.01.2016:** 22 Years
7. **Address (Local)** : Plant pathology and biochemistry laboratory, Department of Botany, University of Rajasthan, Jaipur
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10. Details of Research Projects:

S No.	Title of project	Funding Agency	Period	Funds received (in Lacs)
1	<i>Petrea volubilis</i> L. : A potential source of hyperglycemic , lipid lowering and antioxidant agent .	UGC	01.04.2013 - 2016	8,28,800/- Lakh
2	Bioactive compounds in some latex bearing plants of Rajasthan and their efficacy against microbes	UGC	07-02-2006 to 2008	1 lakh

11. List of Publication:

- Jain, S.C., M. Agarwal and **R. Vijayvergia**.1992. Regulation of Pharmaceutically active flavonoids in *Trigonella foneum graceum* by alkylating agents. *Fitoterapia* LXIII (6): 539-541. **IP- 2.345**
- Jain, S.C., S.L. Sahoo and **R. Vijayvergia**. 1995. Influence of light on growth and production of steroid and glycoalkaloids in *Solanum* species *in vivo in vitro*. *Ind. J. Pharma. Sci.* 57(3). **IP-0.479**
- Jain, S.C., R. Jain, N. Mascolo, **R. Vijayvergia**, R.A. Sharma, C. Mittal. 1998. Ethanopharmacological evaluation of *Pergularia daemia* (Forsk) Chiov *Phytotherapy Research*. 12, 5: 378-380. **IP-2.068**

- **Vijayvergia R.** and P. Vijay. 2007. Quantification of primary metabolites in *Balanites aegyptiaca* Asian J Exp. Sci. 21(2): 329-336.
- **Vijayvergia R.** and J. Kumar. 2007. Quantification of primary metabolites in *Nereium indicum* Asian J Exp. Sci. 1:123-129.
- Kumar J. and **R. Vijarvergia.** 2007. Comparative quantification of primary metabolites of some latex bearing plants. Biosciences and biotechnology research Asia, 4(2): 681-686.
- Vijay P. and **R. Vijayvergia.** 2007. Biochemical analysis of primary metabolites of some medicinal plants. The Bioscan 2(3): 203-206.
- Singh T., **R. Vijayvergia** and S. Sharma. 2008. Quantification of primary metabolites of *Acalypha indica* L. The Bioscan 3(3): 337-339.
- **Vijayvergia, R.** and N. Shekhawat. 2009. Biochemical estimation of primary metabolites of *Madhuca indica* Gmel. The Bioscan 4(2): 321-324.
- **Vijayvergia, R.,** Singh, T. and S. Sharma. 2009. Biochemical estimation of primary metabolites of some medicinal plants of Euphorbiaceae family. J. Ind. Bot. Soc. 88(3&4): 116-119.
- Sharma S., T. Singh and **R. Vijayvergia.** 2009. Molluscicidal activity of some medicinal plants. J. Herbal medi. and Toxicol. 3(2): 155-157.
- Vijay P. and **R. Vijayvergia.** 2009. Estimation of Wedelolactone in *Eclipta alba* L. Hassk. And its antimicrobial efficacy. J. Phytological Research. 22(1): 173-174.
- Shekhawat, N. and **R. Vijayvergia.** 2010. Molluscicidal activity of some medicinal plants against the snail *Lymnaea acuminata* and in the control of fascioliasis. J. Herbal medi. and Toxicol. 4 (1): 109-112.
- Sharma S., T. Singh and **R. Vijayvergia.** 2010. Evaluation of antimicrobial efficacy of some medicinal plants. J. Chem. Pharm. Res. 2(1): 121-124.
- Vijay P. and **R. Vijayvergia.** 2010. An Antioxidant potential of Hingot and Hadjod. J. Basic Clinic. Pharm. 1: 33-36.
- Shekhawat. N and **R. Vijayvergia.** 2010. Evaluation of Antimicrobial Potential of Some Medicinal Plants Against plant And Human Pathogens. J. Pharm. Research. 3(4): 700-702 **IP 2.507**

- Shekhawat, N. and **R. Vijayvergia**. 2010. Comparative study of primary metabolites in different plant parts of *Clitoria ternatea (L.)*, *Guazuma ulmifolia (lam.)* & *Madhuca indica (gmel.)*. J. Chemical and Pharma. Research. 2(2): 168-171.
- Vijay P. And **R. Vijayvergia**. 2010. Antimicrobial efficacy of some medicinal plants. J. Pharm. Research 3(5), 1019-1020 **IP 2. 507**
- Vijay P. and **R. Vijayvergia**. 2010. Analgesic, anti-inflammatory and antipyretic activity of *Cissus quadrangularis*. J. Chemical and Pharma. Research 2 (1), 111-118.
- Tanwar, B.S. and **R. Vijayvergia**. 2010. Phytochemical evaluation and quantification of primary metabolites of *Alangium salvifolium*. Int. J. Pharma & BioSciences. 1(3): 1-6.
- Tanwar, B.S. and **R. Vijayvergia**. 2010. In vivo and in vitro comparative study of primary metabolites and antioxidant activity of *Andrographis paniculata*. J. Chemical & Pharma. Research. 2(2): 489-495.
- Vijay, P. and **R. Vijayvergia**. 2010. Quantification and identification of flavonoids of some Indian medicinal plants. Drug Invention Today.1 (2):167-168.
- Sharma, S., **R. Vijayvergia** and Singh, T. 2010. Extraction and identification of pentacyclic compound B-amyrin (Terpenoid). Arch. Appl. Sci. Res. 2(2): 124-126.
- **R. Vijayvergia**, S. Sharma, N. Shekhawat and S. Bakshi. 2010. Insecticidal Activity of Some Medicinal Plant Extracts Against *Tribolium Castaneum* (Herbst) (Coleoptera: Tenebrionidae). Asian J. Experimental and Biological Sciences. 1(3): 550-553.
- Sharma, S., **R. Vijayvergia** and Singh, T. 2010. Toxicological potential of isolated flavonoid epicatechin from *Ricinus communis*. J. Herb. Tech. 6(4): 2-4.
- Sharma, S., **R. Vijayvergia** and Singh, T. 2010. Antimicrobial properties of B-amyrin (Terpenoid). J. Pharm. Res. 1979-1980. **IP 2.507**
- Tanwar, B.S., R. Choudhary and **R. Vijayvergia**. 2010. In vivo and In vitro comparative study of primary metabolites and antioxidant activity of *Spilanthus acemella*. International Journal of Biotechnology and Biochemistry. 6(5):819-826.
- Tanwar, B.S. and **R. Vijayvergia**. 2010. Phytochemical evaluation and molluscicidal activity of *Andrographis paniculata*. Herba Polonica. 71-77
- Tanwar, B.S. and **R. Vijayvergia**. 2010. Molluscicidal Activity of *Spilanthus acemella* Murr. On the Snail *Lymnaeae acuminata*. Pharmacognosy Journal. 31-33

- Soam, P.S., T. Singh and **R. Vijayvergia**. 2010. Protein and oil Quantification from Less Explored Arid Cucurbits- *Cucumis Callosus* (Rottle.), *Citrullus Colocynthis* (L.) and *Luffa Acutangula* (L.) Roxb. International Journal of Applied Agricultural Research. 5: 349-353
- Shekhawat, N., Soam, P.S., Singh, T. and **R. Vijayvergia**. 2010. Assessment of Free Radical Scavenging Activity of Crude Extracts of some medicinal plants. Middle-East J. Sci. Res. 5(4): 298-301.
- Shekhawat, N. and **R. Vijayvergia**. 2010. Anthelmintic Activity of Extracts of Three Medicinal Plants. J. Herb. Tech. 6(9): 18-19.
- Shekhawat, N. and **R. Vijayvergia**. 2010. Investigation of anti-inflammatory, analgesic and antipyretic properties of *Madhuca indica* Gmel. European J. Inflammation. 8(3): 26-30. **IP-0.298**
- Sharma, N., B.S. Tanwar and **R. Vijayvergia**. 2011. Study of medicinal plants in Aravali regions of Rajasthan for treatment of Kidney stone and Urinary tract troubles. International Journal of Pharm Tech Research. 3(1): 310-311. **IP-0.619**
- Sharma, N., B.S. Tanwar and **R. Vijayvergia**. 2011. Study of primary metabolites and antimicrobial activities of *Digera muricata* (L.) Mart. J Chem Pharm Res 3(2):424-431.
- Sharma, N and **R. Vijayvergia**. 2011. Study of primary metabolites and antimicrobial activities of *Gomphrena celosioides* Mart. International Journal of Pharma and Bio Sciences. 2(4) Oct-Dec. **IP-0.47**
- Sapana Khandelwal, Parul Sharma, Tribhuwan Singh and **R. Vijayvergia**. Quantitative estimation and comparative study of primary metabolites of some medicinal plants. Current Pharma Research. 2(1), 2011: 378-381.
- Sapana Khandelwal and Parul Sharma, Tribhuwan Singh, **R. Vijayvergia**. Anthelmintic and antimicrobial activity of *Hamelia patens* Jacq. (Rubiaceae) International Journal of Natural Products Research. 2012. 1(3): 54-56.
- Tanwer, B.S., S. P. Singh and **R. Vijayvergia**. 2012. Antibacterial and antifungal activity of some medicinally important plants. Int. J. Pharma & Bio sciences. 3(3): (B) 555-561. **IP-0.47**

- Choudhary, S., Tanwer, B.S., **R. Vijayvergia**. 2012. Total phenolic, flavonoids and antioxidant activity of *Trichosanthes cucumerina* Linn. *Drug Invention Today*. 4(5): 368-370. **IP- 1.42**
- Tanwer, B.S., **R. Vijayvergia**. 2012. Some biological activities in *Alangium salvifolium* Linn. – An endangered medicinal plant of India. *Journal of Pharmacy Research*. 5(5): 2559-2561. **IP- 2.507**
- Tanwer, B. S., S. Choudhary and **R. Vijayvergia**. 2012. *In vitro* anti-inflammatory, analgesic and acute toxicity studies of ethanol extracts of *Andrographis paniculata* Nees and *Spilanthus acemella* Murr. *Der Pharmacia sinica* 3(5): 590-593
- P.Sharma, S. Khandelwal, T. singh and **R. Vijayvergia**. 2012. Phytochemical analysis and antifungal potential of *Duranta erecta* against some phytopathogenic fungi. *International Journal of Pharmaceutical Science and Research*. 3(8): 2686-2689. (**IP 0.40**)
- Payal Singh Soam, Tribhuwan Singh, **R. Vijayvergia** and C. Jayabaskaran. 2012. Liquid Chromatography- Mass Spectrometry Aided Metabolite Profiling of *Citrullus colocynthis* a Medicinal Plant of Desert. *Journal of Pharmacy Research*. 5(8): 4541-4547. **IP 2.507**
- Payal Singh Soam, Tribhuwan Singh, **R. Vijayvergia** and C. Jayabaskaran. 2012. Insecticidal Activity of Alkaloids Aletamine, Wilforine, Wilfordine, Wilfortrine and 9(10H)-Acridinone Isolated from *Citrullus colocynthis*, *Cucumis callosus* and *Luffa acutangula*. *International Journal of Biotechnology (IJB)*. **IP 2.54**. (Accepted; in press).
- Babeet Singh Tanwer, Sharma N. and **R. Vijayvergia**. 2012. Callus induction, phytochemical and antioxidant activity in *Alangium salviifolium* L. *International Journal of Biotechnology (IJB)*. **IP 2.54**. (Accepted; in press).
- Parul Sharma, S Khandelwal and **R Vijayvergia**. 2012. Microscopic assessment of antimicrobial activity of *Duranta erecta* L. plant extract and preparation of their antibiogram. *Journal of Pharmacy Research*. 5(11): 5166-5168. **IP 2.507**
- Neha Sharma, Parul Sharma and **R. Vijayvergia**. 2012. Evaluation of phytochemicals and antioxidant activity of some medicinal plants of family Amaranthaceae. *Journal of Pharmacy Research*. 5(9): 4713-4715. **IP 2.89**

- S. Choudhary, Tanwer, B. S., T. Singh and **R. Vijayvergia**. 2013. Total phenolic, total flavonoid content and the DPPH free radical scavenging activity of *Melothria maderaspatana* L. Cogn. International Journal of Pharmacy and Pharmaceutical Sciences. 5(1): 296-298. **IP 0.91**
- N. Sharma and **R. Vijayvergia**. 2013. A Review on *Digera muricata* L. Mart. - A Great Versatile Medicinal Plant. Int. J. Pharm. Sci. Rev. Res., 20(1) 19: 114-119. (**IP: 0.65**).
- Payal Singh Soam, Tribhuwan Singh, **R. Vijayvergia** and C. Jayabaskaran. 2013. Liquid chromatography-mass spectrometry based profile of bioactive compounds of *Cucumis callosus*. European Journal of Experimental Biology. 3(1): 316-326
- S. Choudhary, Tanwer, B. S., **R. Vijayvergia** and T. Singh. 2013. Preliminary phytochemical screening and primary metabolites of *Melothria maderaspatana* L. Cogn. International Journal of Biological & Pharmaceutical Research. 4(3): 168-179. **IP-0.5**
- Payal Singh Soam, Tribhuwan Singh, **R. Vijayvergia**. 2013. *Citrullus colocynthis* L. and *Luffa acutangula* L. Roxb. Schrad. source of bioinsecticides and their contribution in managing climate change. International Journal of Applied Biology and Pharmaceutical Technology. 4(4) **IP-0.996**
- Lalit Kumar Baniwal, Pratima Vijayvergia, **R. Vijayvergia**. 2013. Determination of preliminary phytoconstituents, total phenolic and flavonoids contents in the roots, leaves and stems of *Cleome viscosa* L. International Journal of Biological & Pharmaceutical Research. 4(12): 891-895. **IP-0.92**
- Pratima Vijayvergia, Soniya Choudhary, **R. Vijayvergia**. 2013. Preliminary phytochemical screening of *Limonia acidissima* Linn. International Journal of Pharmacy and Pharmaceutical Sciences. 6(1): 134-136. **IP- 0.55**
- Ankita Shah, Tribhuwan Singh and **R. Vijayvergia**. 2013. Evaluation of primary metabolites from selected medicinal plants. Elixir Applied Botany. 63. **IP- 5.525**
- Pratima Vijayvergia and **R. Vijayvergia**. 2014. A Review on *Limonia acidissima* L.: Multipotential Medicinal Plant. Int. J. Pharm. Sci. Rev. Res. 28(1): 191-195. **IP-0.65**
- Ankita Shah, Parul Sharma and **R. Vijayvergia**. 2015. Antimicrobial properties of different solvents extract of *Rumex vesicarius* L. on some selected bacterial and fungal

isolates. International Journal of Pharma Sciences and Research. Vol. 6(3): 1107-1114.

IP- 1.54

- Parul Sharma, **R. Vijayvergia**. 2015. In Vitro α -Amylase Inhibitory Activity and GC-MS Analysis of *Petrea volubilis*. International Journal of Science and Research. 4 (4):190-194. **IP-4.438**
- Ankita Shah, T. Singh and **R. Vijayvergia**. 2015. In Vitro Antioxidant Properties and Total Phenolic and Flavonoid Contents of *Rumex vesicuis*.L. International Journal Of Pharmacy And Pharmaceutical Sciences.7(7) 81-84.**IP 0.55**

12. List of Books Published:

(i) Articles published in Books

S. No.	Title with Page No.	Book Title Editor & publisher	ISSN/ISBN No.
1	Strategies for production of alkaloids from <i>in vitro</i> culture. In: Advances in Biotechnology pp-135-153	Reference book Eds. M K saxena and BBS Kapoor Madhu publications	81-86644-17-2
2	Non-toxic control of Fusarium oxysporum: A Wilt Pathogen. In: Eco-Friendly and Non-Hazardous Management of pests. Pp-79-83.	Reference Book eds. T. Singh and K. Agrawal, Aavishkar Publishers	978-81-7910-325-8

13. Presentations in conferences

Poster:

S. No.	Conference	Title of Conference	Topic of Presentation
1.	38 th All India Conference of Indian Botanical Society (National)	Emerging trends in plant sciences	GC-MS determination of bioactive components of medicinal plants of verbenaceae family.
2.	38 th All India Conference of	Emerging trends in plant sciences.	GC-MS analysis of bioactive phytoconstituents from <i>Sisymbrium</i>

	Indian Botanical Society (National)		irio L.
3.	38 th All India Conference of Indian Botanical Society (National)	Emerging trends in plant sciences.	<i>Mimusops elengi</i> L.: A review on ethanobotany, phytochemical and pharmacological screening.
4.	38 th All India Conference of Indian Botanical Society (National)	Emerging trends in plant sciences.	Phytochemical studies of <i>Celosia argentea</i>
5.	National Conference	Application Of Biotechnology in Sustaining The Environment	A high potential plant used in Orthopedics: <i>Cissus quadrangularis</i>
6.	National Conference National Conference	Indian Society of Plants Genetic Resources	Recent global development in the management of plants genetic resources

Paper:

S. No.	Conference	Title of Conference	Topic of Presentation
1.	38 th All India Conference of Indian Botanical Society (National)	Emerging trends in plant sciences.	Synthesis and characterization of silver nanoparticles of <i>Limonia acidissima</i> L. leaf extract and their antimicrobial activity.
2.	ISCA, Jaipur Chapter	Advances in natural science for	Total phenolic content, flavonoid concentration and antioxidant

	(National)	indigenous development in India	activity of <i>Limonia acidissima</i> L.
3.	(International)	Current challenges in drug discovery research	Green synthesis of silver nanoparticles from <i>Murraya koenigii</i> L. and evaluation of their antimicrobial activity.
4.	38 th All India Conference of Indian Botanical Society (National)	Emerging trends in plant sciences.	Biochemical analysis of primary metabolites and evaluation of antioxidant properties in <i>Croton bonpladianam</i> Baill.

14. Conferences and Seminar attended

- National Symposium on Medicinal Plants: Biodiversity Conservation Export Potential and Intellectual property rights. March 28-29, 2003. Dept. of Botany. University of Rajasthan, Jaipur.
- National Symposium on Biotechnology for Human Welfare: The Commercial and Ethical Consideration. March 26-27, 2004. Dept. of Botany. University of Rajasthan, Jaipur.
- The National Academy of Science India 74th Annual session and National Symposium on science and technology for desert development Jaipur, Dec 2-4, 2004. Joint auspices of University of Rajasthan, Jaipur and The Birla Institute of Scientific Research, Jaipur.
- National Symposium on Biotechnology for Food, Health and Environmental Security March 3-4, 2005. Dept. of Botany. University of Rajasthan, Jaipur.
- 39th Annual Convention of India college of Allergy, Asthma and Applied Immunology Oct15-17, 2005. Jaipur
- National Symposium on Biotechnology for Sustainable Agriculture and Conservation of Biodiversity. March 24-25, 2006. Dept. of Botany. University of Rajasthan, Jaipur.
- International Conference and Expo on Botanical Products March 25-27, 2006. Dept. of Botany. University of Rajasthan, Jaipur.

- XXIX All India Botanical Conference and National Symposium on Emerging Trends in Plants Biology, Environment Protection and Biotechnology. Oct 9-11, 2006. Dept. of Botany. University of Rajasthan, Jaipur.
- 40th Annual Convention of the Indian College of Allergy, Asthma and Applied Immunology. Dec, 7-10, 2006. Jalandhar.
- National Conference on Application of Biotechnology in Sustaining the Environment. Feb 5-6, 2008. International College for Girls, Jaipur and Indian Science Congress Association, Regional Chapter, Jaipur.
- National Symposium on Biotechnology in Sustainable Agriculture and Environmental Management Nov, 7-8, 2008. Dept. of Botany. University of Rajasthan, Jaipur and Indian Science Congress Association, Regional Chapter, Jaipur.
- National Symposium on Recent Global Developments in the Management of Plant Genetic Resources Dec 17-18, 2009. National Bureau of Plant Genetic Resources, New Delhi.
- National seminar on water auditing. May 18-20, 2010. University of Rajasthan, Jaipur.
- National Seminar on Science for shaping the future of India. Oct 6-7, 2012. Centre for Converging Technologies, University of Rajasthan, Jaipur and Indian Science Congress Association, Regional Chapter, Jaipur.
- 46th National Conference ICAAICON-2012. Nov 2-4, 2012. Indian College of Allergy, Asthma and Applied Immunology, Institute of Medical Science, Banaras Hindu University
- National seminar on Science for shaping the future of India (6-7 Oct, 2012), CCT, University Of Rajasthan, Jaipur and ISCA, Jaipur Chapter.
- 38th All India Conference of Indian Botanical Society, 26-27 oct 2015. Emerging trends in plant sciences. at University Of Rajasthan, Jaipur
- National seminar on advances in natural science for indigenous development in India. 30 sep- 2 oct 2015 at University Of Rajasthan, Jaipur
- National conference on plant bioresource management and biotechnology (PBMB), from 29th-31st January, 201, organized by Department of Botany, University Of Rajasthan, Jaipur.

15. Refresher Courses

Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
Orientation course	Jaipur	30-3-2002-25-04-2002	UGC
Refresher course	Jaipur	29-9-2003-18-10-2003	UGC
Refresher course	Jaipur	13-9-2004-2-10-2004	UGC

16. Details in conference in which chaired a session

- National conference on plant bioresource management and biotechnology (PBMB), from 29th-31st January, 201, organized by Department of Botany, University Of Rajasthan, Jaipur
- 38th All India Conference of Indian Botanical Society, 26-27 oct 2015. Emerging trends in plant sciences. at University Of Rajasthan, Jaipur

17. Membership of technical societies/ academic bodies/ National or international organizations (if any)-

- Indian Botanical Society (Life Membership) and Indian Science Congress (Life Membership)

18. Details of Ph.D. students supervised:

S.No.	Name of scholar	Title	year
1.	<u>Priyanka Vijay</u>	Extraction, identification and screening of bioactive compounds from some medicinal plants against selected microbes.	2010
2.	<u>Swati Sharma</u>	Extraction and identification of biochemical compounds in selected medicinal plants of family <u>euphorbiaceae</u>	2011
3.	<u>Neha Shekhawat</u>	Studies on natural plant products from some selected plants..	2011
4.	<u>Payal Singh Soam</u>	Evaluation of bioactive compounds from some selected plants of <u>cucurbitaceae</u> .	2012
5.	<u>Babeet Singh Tanwer</u>	In vitro studies of secondary metabolites in some medicinal plants	2013
6.	<u>Neha Sharma</u>	Identification and <u>bioefficacy</u> of bioactive from some medicinal plants of family <u>amranthaceae</u> .	2014
7.	<u>Sapana Khandelwal</u>	<u>Bioprospecting</u> of plants of family <u>rubiaceae</u> with special reference to their antimicrobial activity	2015
8.	<u>Parul Sharma</u>	Isolation and identification of bioactive compounds from some medicinal plants of <u>verbenaceae</u> .	submitted
9.	<u>Ankita Shah</u>	Evaluation of <u>phytochemicals</u> and their antimicrobial properties of <u>Sisymbrium irio</u> Linn. And <u>Rumex vesicarius</u> Linn.	submitted