

## RESUME

**Name** : Dr. Vedpriya Arya  
**Address** : Scientist E, Patanjali Herbal Research Department  
Haridwar (Uttarakhand)  
**E- mail** : [vedpriya.arya@prft.in](mailto:vedpriya.arya@prft.in);  
[ved.nano2008@gmail.com](mailto:ved.nano2008@gmail.com)  
**Contact Number** : +917060472471  
**Institution** : Patanjali Research Institute  
**Date of Birth** : 15<sup>th</sup> December 1985  
**Gender** : Female  
**Category** : General  
**Whether differently abled:** No

## OBJECTIVE

To work in an esteemed organization to use my knowledge, scientific aptitude and enhance my personal skills.

## EDUCATIONAL QUALIFICATION

Sr. No.	Degree	University/College	Year of Passing	Percentage Marks
1.	B. Sc.	M. D. University, Rohtak	2006	79.65%
2.	M.Sc. Bioscience	Banasthali University, Rajasthan	2008	82.75% (Gold medal)
3.	Ph. D. (Genetics)	M. D. University, Rohtak	2011	-

## PROFESSIONAL QUALIFICATION

## ACADEMIC DISTINCTIONS

Position Held	Name of Organisation	Period		Nature of Work
		From	To	
<b>Assistant Professor</b>	Guru Nanak Girls College, Model Town, Ludhiana	7 <sup>th</sup> May, 2011	31 <sup>st</sup> July, 2014	Teaching and Research work

- ✚ Awarded **INSPIRE-DST** fellowship 2010 from DST, India.
- ✚ Awarded **University Research Fellowship (URS)** from M. D. University Rohtak in Academic year 2009 for research purpose.
- ✚ Awarded **GOLD MEDAL** in M. Sc. Plant science from Banasthali University, Rajasthan in Academic year 2006-08.
- ✚ Got College Color Certificate in B. Sc. 2<sup>nd</sup> Year and B. Sc. 3<sup>rd</sup> Year.
- ✚ Got Vidyarthi protsathan puruskar from Gold Smith Jewellers Association in 8<sup>th</sup>, B.Sc. and M. Sc.
- ✚ Scored 'A' Grade in Hartron Computer Diploma.

## CONFERENCES ATTENDED

National & International conferences/symposium attended	11
National & International conferences/symposium attended and presented papers	8

## PAPERS PRESENTED & CONFERENCE ATTENDED

1. Yadav, J.P., Kadyan, S., **Arya, V.**, Kumar, S. and Yadav, S. 2010. Comparative analysis of DNA extraction protocols from leaves of *Cassia occidentalis* L. 97<sup>th</sup> Session of Indian Science Congress held at Kerala University, Thiruvananthapuram from January 3 to 7, 2007. Section Plant Science, Poster Presentation, p. 134, Abstract No. 71.
2. **Arya V.**, Yadav S., Kumar S. and Yadav J.P. 2010. Antibacterial screening of leaves of *Cassia occidentalis* In International conference on Understanding and managing pathogenic microbes held at Institute of Microbial Technology, Chandigarh from January 22 to 24, pp 66, Abstract No. P 27.
3. **Arya V.**, Kumar S., Dhankhar S., and Yadav J.P. 2010. Comparative study of antibacterial activity of seeds of *Cassia occidentalis* and *C. tora*. International Symposium on Current Status and Opportunities in Aromatic & Medicinal Plants held at CIMAP, Lucknow from 21-24 Feb., 2010. Session III, Abstract P-54, p-150.
4. **Arya, V.**, Yadav, S., Kumar, S., Saini S., Yadav, J.P. 2010. Free radical scavenging activity of leaves extract of *C. occidentalis*. National Conference on Medical Biotechnology- Vision 2020 held at M.D.University Rohtak from 16-18 April, 2010. P-90.
5. **Arya, V.**, Yadav, J.P., Panghal, M., Kumar, S. and Chhillar, S. 2009. Standardization of toxic principles of *Cassia occidentalis*- A study report. National workshop on Prospects and Problems in Production, Processing and Marketing of Medicinal and Aromatic Plants in Haryana held at CCSHAU, Hisar from March 20-21, 2009 Page 99. (Poster presentation)
6. Yadav, J.P. and **Arya V.** 2009. Importance of Sacred Groves in biodiversity conservation in Haryana. International Conference on Changing Environmental Trends and

Sustainable Development held at Guru Jambheshwar University of Science & Technology from February 9-11,2009, Page 267. (oral presentation)

7. **Arya V.** and Yadav, J.P. 2008. The potential of traditional knowledge in curing the fatal disease: Cancer. International Conference on Molecular Biology and Biotechnology held at Banasthali University, Banasthali, Rajasthan from October 19-21, 2008, page 12 (Poster presentation)
8. Shekhawat G.S., and **Arya V.** Biological synthesis of Ag Nanoparticles through *in vitro* cultures of *Brassica juncea* C. zern in Nanomaterials:Processing and Applications. IIT Roorkee, Roorkee. 11-13 dec, 2008. (oral presentation)

### **PAPERS PRESENTED IN CONFERENCES**

1. Yadav, J.P., Sandeep Kumar, **Vedpriya Arya** and Sanjay Yadav. 2012. Screening and evaluation of the antibacterial activity of some important medicinal plants of Haryana. 12th International Congress of Ethnopharmacology organized by School of Natural Product, Jadavpur University, Kolkata, from Feb. 17 to 19, 2012. Abstract No. SNPSJU 153. P. 6
2. Singh, K., **Arya, V.**, Rohilla, D. and Yadav, J.P. 2011. Analysis of genetic diversity of different accessions of *Cassia tora* L. by RAPD. National Conference on Biodiversity: Challenges & Opportunities held at Department of Botany, Maharshi Dayanand University, Rohtak from February 18 to 19, 2011. Page 2.
3. National Seminar on Environmental Challenges – sustainable development (ECSD-2010). 29-30 March, 2010. organized by Department of Environmental Sciences, M. D. University, Rohtak.

4. National Seminar on Computing Life: Raw to Refined organized by Department of Zoology. On 27<sup>th</sup> March, 2010 sponsored by Higher Education Commissioner, Haryana, Panchkula. (poster presentation)
5. National workshop on Environmental problems and its mitigation (EPM-2010). March 26, 2010 organized by Department of Environmental Sciences. M. D. University, Rohtak.
6. National Conference on Medical Biotechnology- Vision 2020 held at M.D.University Rohtak from 16-18 April, 2010. (poster presentation)
7. International Symposium on Current Status and Opportunities in Aromatic & Medicinal Plants held at CIMAP, Lucknow from 21-24 Feb., 2010. Session III (poster presentation)
8. International conference on Understanding and managing pathogenic microbes held at Institute of Microbial Technology, Chandigarh. from January 22 to 24 (poster presentation)
9. International Conference on Changing Environmental Trends and Sustainable Development held at Guru Jambheshwar University of Science & Technology from February 9-11, 2009, Importance of Sacred Groves in biodiversity conservation in Haryana. Page 267. (oral presentation)
10. National workshop on Prospects and Problems in Production, Processing and Marketing of Medicinal and Aromatic Plants in Haryana held at CCSHAU, Hisar Standardization of toxic principles of *Cassia occidentalis*- A study report. from March 20-21, 2009 Page 99. (Poster presentation)
11. G.S. Shekhawat and Arya V. 2008. Nanomaterials: Processing and Applications. IIT Roorkee. Biological synthesis of Ag Nanoparticles through *in vitro* cultures of *Brassica juncea* C. zern in, Roorkee. 11-13 dec, 2008.
12. Arya V. and Yadav J P. The potential of traditional knowledge in curing the fatal disease: Cancer. International Conference on Molecular Biology and Biotechnology held at Banasthali University, Banasthali, Rajasthan from October 19-21, 2008, page 12.
13. Nanotechnology and Nanobiotechnology conference in Satyabhama University, Chennai in 15-17 Feb, 2008.

# Publication Record

S. No.	Publication Title	Authors	Faculty Name	Journal	Impact Factor	Year of Publication	Article/ Review/ Chapter
1.	Unveiling Novel Therapeutic Drug Targets and Prognostic Markers of Triple Negative Breast Cancer	A Balkrishna, R Mittal, V Arya	Dr. Vedpriya Arya	Current Cancer Drug Targets	3.47	2021	
2.	COVID-19 Pandemic: A Comprehensive Overview of Epidemiological, Pathogenesis, Diagnostic Aspects and Therapeutic Interventions to Tackle Current Outbreak	A Balkrishna, R Mittal, V Arya	Dr. Vedpriya Arya	Infectious Diseases	3.40	2021	
3.	Phytoantioxidant Functionalized Nanoparticles: A Green Approach to Combat Nanoparticle-Induced Oxidative Stress	Acharya Balkrishna, Ashwani Kumar, Vedpriya Arya, Akansha Rohela, Rachna Verma, Eugenie Nepovimova, Ondrej Krejcar, Dinesh Kumar, Naveen Thakur, Kamil Kuca	Dr. Vedpriya Arya	Oxidative medicine and cellular longevity	6.543	2021	

4.	Nanotechnology Interventions in the Management of COVID-19: Prevention, Diagnosis and Virus-Like Particle Vaccines	Acharya Balkrishna, Vedpriya Arya, Akansha Rohela, Ashwani Kumar, Rachna Verma, Dinesh Kumar, Eugenie Nepovimova, Kamil Kuca, Naveen Thakur, Nikesh Thakur, Pankaj Kumar	Dr. Vedpriya Arya	Vaccines	4.127	2021	
5.	Rainfed Agriculture: Giant Strides of Current Farming Practices	JL Dwivedi, R Joshi, V Arya, VR Babu	Dr. Vedpriya Arya	Sustainable Agriculture for Food Security	2.495	2021	
6.	Global Food Traceability: Current Status and Future Prospects	A Balkrishna, P Rupala, D Jyoti, V Arya	Dr. Vedpriya Arya	Sustainable Agriculture for Food Security: A Global Perspective	2.495	2021	
7.	Virtual Farmers' Market: A Single-Step Solution to Sustainable Agriculture and Food Security	A Balkrishna, K Choudhary, A Dhyan, V Arya	Dr. Vedpriya Arya	Sustainable Agriculture for Food Security: A Global Perspective	2.495	2021	
8.	Organic Farming: A Promising Approach for Sustainable Agriculture	A Balkrishna, P Chaudhary, R Joshi, V Arya	Dr. Vedpriya Arya	Sustainable Agriculture for Food Security	2.495	2021	

				Security: A Global Perspective			
9.	Anti-Cancer and Anti-Inflammatory Potential of Furanocoumarins from Ammi majus L.	A Balkrishna, V Arya, IP Sharma	Dr. Vedpriya Arya	Anti-cancer Agents in Medicinal Chemistry	2.505	2021	
10.	Mechanistic Insight into Antimicrobial and Antioxidant Potential of Jasminum Species: A Herbal Approach for Disease Management	Acharya Balkrishna, Akansha Rohela, Abhishek Kumar, Ashwani Kumar, Vedpriya Arya, Pallavi Thakur, Patrik Oleksak, Ondrej Krejcar, Rachna Verma, Dinesh Kumar, Kamil Kuca	Dr. Vedpriya Arya	Plants	3.899	2021	
11.	Computational insights of phytochemical-driven disruption of RNA-dependent RNA polymerase-mediated replication of coronavirus: a strategic treatment plan against coronavirus disease 2019	Acharya Balkrishna, Rashmi Mittal, Gunjan Sharma, Vedpriya Arya	Dr. Vedpriya Arya	New Microbes and New Infections	1.944	2021	



12.	Agricultural Mobile Apps used in India: Current Status and Gap Analysis.	A Balkrishna, J Sharma, H Sharma, S Mishra, S Singh, S Verma, V Arya	Dr. Vedpriya Arya	Agricultural Science Digest	4.75 (NAAS)	2021	
13.	Potential Role of miRNA in Metastatic Cascade of Triple-Negative Breast Cancer	A Balkrishna, R Mittal, V Arya	Dr. Vedpriya Arya	Current Cancer Drug Targets	3.47	2021	
14.	Mechanistic Insight into Antimicrobial and Antioxidant Potential of Jasminum Species: A Herbal Approach for Disease Management	A Balkrishna, A Rohela, A Kumar, A Kumar, V Arya, P Thakur, P Oleksak, O Krejcar, R Verma, D Kumar	Dr. Vedpriya Arya	Plants	3.899	2021	
15.	Computational Evidences of Phytochemical Mediated Disruption of PLpro Driven Replication of SARS-CoV-2: A Therapeutic Approach Against COVID-19	Acharya Balkrishna, Rashmi Mittal, Vedpriya Arya	Dr. Vedpriya Arya	Current Pharmaceutical Biotechnology	2.837	2021	
16.	Current Status of Indian Agriculture: Problems, Challenges and Solution	A Balkrishna, M Phour, M Thapliyal, V Arya	Dr. Vedpriya Arya	Biological Forum – An International Journal	-	2021	
17.	Unveiling Role of MicroRNAs as Treatment Strategy and Prognostic Markers in Triple Negative Breast Cancer	Acharya Balkrishna, Rashmi Mittal, Vedpriya Arya	Dr. Vedpriya Arya	Current Pharmaceutical Biotechnology	2.837	2020	

18.	Population structure, regeneration status and conservation measures of threatened <i>Cyathea</i> spp.	A Balkrishna, V Arya, AK Kushwaha	Dr. Vedpriya Arya	Journal of Tropical Forest Science	0.77	2020	
19.	Analysis of policy interventions in agriculture and ICT based mechanistic approach towards sustainability: an Indian perspective	A Balkrishna, R Mittal, A Kumar, D Singh, V Arya	Dr. Vedpriya Arya	Asian Journal of Agriculture and Rural Development	0.04	2020	
20.	Green synthesis of silver nanoparticles from endophytic fungus <i>Aspergillus niger</i>	P Rani, V Arya	Dr. Vedpriya Arya	Engineering Interventions in Agricultural Processing	6.409	2017	
21.	Green Synthesis of AGNPS from <i>Spinacia Oleracea</i> Leaves and Their Anti-Microbial Efficacy Against Human Pathogenic Microbes	M Kaur, B Arya, V Arya	Dr. Vedpriya Arya	Engineering Practices for Agricultural Production and Water Conservation	-	2017	
22.	Nanotechnology: Pollution Sensing and Remediation	V Arya	Dr. Vedpriya Arya	Engineering Practices for Agricultural Production and Water Conservation	-	2017	
23.	Study on thermal stability and mechanical properties of nanocomposite Zr-W-B-N thin films	P Dubey, V Arya, S Srivastava, D Singh, R Chandra	Dr. Vedpriya Arya	Surface and Coatings Technology	4.158	2015	
24.	Study of thermal stability and mechanical properties of fcc phase Zr <sub>22</sub> W <sub>19</sub> N <sub>58</sub> thin films deposited by reactive magnetron sputtering	P Dubey, V Arya, SK Srivastava, D Singh, R Chandra	Dr. Vedpriya Arya	Surface and Coatings Technology	4.158	2014	

25.	Effect of nitrogen flow rate on structural and mechanical properties of Zirconium Tungsten Nitride (Zr-W-N) coatings deposited by magnetron sputtering	P Dubey, V Arya, S Srivastava, D Singh, R Chandra	Dr. Vedpriya Arya	Surface and Coatings Technology	4.158	2013	
26.	Biosynthesis and characterization of silver nanoparticles from aqueous leaf extracts of Carica papaya and its antibacterial activity	R Komal, V Arya	Dr. Vedpriya Arya	International journal of nanomaterials and biostructures	0.963	2013	
27.	Biological synthesis of silver nanoparticles from aqueous extract of endophytic fungus Aspergillus Fumigatus and its antibacterial action	M Bala, V Arya	Dr. Vedpriya Arya	International journal of nanomaterials and biostructures	0.963	2013	
28.	Antimicrobial activity of Salvadora oleoides Decne. against some microorganisms	S Dhankhar, VP Arya, S Yadav, JP Yadav	Dr. Vedpriya Arya	Journal of Medicinal Plants Research	-	2012	
29.	Anti-inflammatory activity of root, leaves and stem of Dipteracanthus patulus (Jacq.) Nees (Acanthaceae)	Sanjay Yadav, Vedprya Arya, Sandeep Kumar, Jaya Parkash Yadav	Dr. Vedpriya Arya	Asian Pacific Journal of Tropical Biomedicine	1.545	2012	
30.	Antioxidant activity of organic and aqueous leaf extracts of Cassia occidentalis L. in relation to their phenolic content	V Arya, S Yadav, S Kumar, JP Yadav	Dr. Vedpriya Arya	Natural product research	2.158	2011	
31.	Antioxidant properties of the methanol extracts of the leaves, seeds and stem of Cassia occidentalis.	A Vedpriya, JP Yadav	Dr. Vedpriya Arya	Research Journal of Medicinal Plant	-	2011	

32.	Silver nanoparticles as a potent antimicrobial agent: a review	V Arya, R Komal, M Kaur, A Goyal	Dr. Vedpriya Arya	Pharmacologyonline	0.224	2011	
33.	Indigenous knowledge of medicinal plants used by Saperas community of Khetawas, Jhajjar District, Haryana, India	M Panghal, V Arya, S Yadav, S Kumar, JP Yadav	Dr. Vedpriya Arya	Journal of Ethnobiology and Ethnomedicine	3.007	2010	
34.	Cassia occidentalis L.: A review on its ethnobotany, phytochemical and pharmacological profile	JP Yadav, Vedpriya Arya, Sanjay Yadav, Manju Panghal, Sandeep Kumar, Seema Dhankhar	Dr. Vedpriya Arya	Fitoterapia	2.882	2010	
35.	Living Systems: eco-friendly nanofactories	V Arya	Dr. Vedpriya Arya	Digest Journal of Nanomaterials & Biostructures	0.785	2010	
36.	Antimicrobial activity of Cassia occidentalis L (leaf) against various human pathogenic microbes	V Arya, S Yadav, S Kumar, JP Yadav	Dr. Vedpriya Arya	Life Sci Med Res	4.66	2010	
37.	Biological synthesis of Ag nanoparticles through in vitro cultures of Brassica juncea C. zern	GS Shekhawat, V Arya	Dr. Vedpriya Arya	Advanced Materials Research	-	2009	
38.	Nanomedicines: emergence a new era in biomedical sciences	GS Shekhawat, V Arya	Dr. Vedpriya Arya	NanoTrends	-	2008	

39.	SURVEY OF INDIGENOUS KNOWLEDGE OF MEDICINAL PLANTS IN INDIA	ACHARAYA BALKRISHNA, NISHANT GUPTA, DEEPAK K. GOND, ISHWAR P. SHARMA, RACHANA BHANDARI, and VEDPRIYA ARYA	Dr. Vedpriya Arya	-	-	-	Book Chapter
40.	Establishment and Economic evaluation of micropropagated Jeewanti ( <i>Leptadenia reticulata</i> Wight & Arn.) plants in field	NS Shekhawat, A Kackar, MS Rathore, M Singh, HR Dagla, V Arya	Dr. Vedpriya Arya	CSIR	-	2016	
41.	Micropropagation of <i>Leptadenia reticulata</i> —a medicinal plant	V Arya, NS Shekhawat, RP Singh	Dr. Vedpriya Arya	In Vitro Cellular & Developmental Biology-Plant	2.252	2013	
42.	A Micropropagation Protocol for Mass Multiplication and Off-Site Conservation of <i>Celastrus paniculatus</i> - A Vulnerable Medicinal Plant of India	V Arya, RP Singh, NS Shekhawat	Dr. Vedpriya Arya	Journal of Sustainable forestry	1.5	2001	
43.	Micropropagation of <i>Anogeissus latifolia</i> (Roxb. Ex DC.) Wall, ex Guill. & Perr.- A Tree of Fragile Ecosystems	NS Shekhawat, J Yadav, V Arya, RP Singh	Dr. Vedpriya Arya	Journal of Sustainable Forestry	1.5	2000	

44.	Recent developments in containerized tree seedlings production	RC Dhiman, S Kumar, GM Devagiri, A Vinod, S Kumar, V Arya	Dr. Vedpriya Arya	Advances in forestry research in India	-	1996	
-----	--	---	-------------------	--	---	------	--

## LIST OF BOOKS PUBLISHED

- **Arya V** and Manju Bala. 2013. Endophytic Fungus- A source of Nanoparticles. Biological Synthesis of AgNps from Endophytic Fungus Isolated from Cannabis Sativa and Its Antibacterial Action. Lambert Academic Publishing, Germany (ISBN: 365941946X, 9783659419461)
- **Arya V** and Kumar R. 2011. Nanobiotechnology.\_Biological Synthesis of Silver Nanoparticles in *Brassica Juncea*. Eds. Lambert Academic publishing, Germany. (ISBN: 3847324772, 9783847324775)
- **Arya V** and Yadav J. P. 2012. Medicinal plants and Genetic Diversity. Assessment of Genetic Diversity and Medicinal Values of *Cassia Occidentalis* and *C. Tora*. Eds. Lambert Academic publishing, Germany (ISBN: 3847339664, 9783847339663)
- **Arya V** and Ratika Komal. 2012. Green Synthesis of Nanoparticles. Lambert Academic Publishing, Germany. Biologically Synthesized silver nanoparticles in Carica papaya leaves extract and their antimicrobial effect (ISBN: 365912222X)

## FUTURISTIC VIEW TOWARDS TEACHING AND RESEARCH

- Want to simplify difficulties related to biology by teaching to students.
- Want to develop cheap medicines for severe disorders by using the ancient knowledge of Ayurveda.
- Want to use Nano-biotechnology for the development to ecofriendly medicines for HIV and Cancer.

## PERSONAL PROFILE

Nationality : Indian  
Date of Birth : December 15, 1985  
Father's name : Sh. Yagyadutt Arya  
Mother's name : Smt. Yeshwanti Arya  
Husband's name : Sh. Rishi kumar Verma  
Sex : Female

I hereby declare that all the information mentioned in the text are true and best of my knowledge.

Date: .....

Place: .....

**Dr. Vedpriya Arya**