

BRIEF CURRICULUM VITAE



DR.SHASTRI PRASAD SHUKLA

Ph.D. (CSIR-NBRI, Lucknow, India)



Professor (Assistant) & Scientist

Department of Horticulture

(Beles Institute)

College of Agriculture and Environmental Science

**Adigrat University, Adigrat, Ethiopia
(Africa)**

2019

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Adigrat University, Ethiopia (Africa)

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[linkedin.com/in/dr-shastri-prasad-shukla-85221321](https://www.linkedin.com/in/dr-shastri-prasad-shukla-85221321)

Specialization: Micropropagation of Ferns, Medicinal & Aromatic RET and Higher Plants, Genetic Transformation, *In vitro* Propagation and Assessment of Genetic Diversity of RET Trees.

Area of Interest: Raising of Transgenic Plants

Course Taught: Botany, Horticulture, Plant Tissue Culture, Agricultural Microbiology, Plant Biochemistry, Entomology, Medicinal Plant Production and Management

Country Visited: Egypt, Eritrea, Ethiopia, Kenya, Nepal, Saudi Arabia, South Africa, Sudan

ACADEMIC PROFILE:

Educational Status	Institute/University	Year	Stream
Ph.D.**	CSIR—National Botanical Research Institute (NBRI), Lucknow & CSJM University, Kanpur	2008	Botany (Plant Tissue Culture)
M.Sc.	Dr. R.M.L. Avadh University, Faizabad	1998	Botany
B.Sc.	Dr. R.M.L. Avadh University, Faizabad	1995	Zoology, Botany, Chemistry

- ****Ph.D. Thesis entitled, “In-vitro Studies on Some Threatened and Economically Important Ferns” from Pteridology Laboratory, CSIR --National Botanical Research Institute (NBRI), Lucknow awarded by CSJM University, Kanpur in December, 2008.**

PROFESSIONAL EXPERIENCE (RESEARCH&TEACHING) : >17 Years

- ❖ November 2017 to Continued ---- **Assistant Professor**, Department of Horticulture, College of Agriculture & Environmental Science, **Adigrat University, Adigrat, Tigray, Ethiopia**(Africa)
- ❖ July 2017 to October 2017----- **Assistant Professor**, Department of Botany, College of Life Sciences & Technology, IIMT University, Merrut-250 001(U.P.)
- ❖ September 2016 to May 2017 ---- **Assistant Professor (Guest Faculty)**, Mahatama Gandhi Chitrakoot Gramodaya University (**MGCGV**), Chitrakoot, Satna, M.P.(India)
- ❖ July 2012 to July 2015 ---- **DST Young Scientist, CSIR**-Central Institute of Medicinal and Aromatic Plants (**CIMAP**), Lucknow-226 015(U.P., India)
- ❖ June 2011 to May 2012 ---- **CSIR-Research Associate, CSIR**-Central Institute of Medicinal and Aromatic Plants (**CIMAP**), Lucknow-226 015(U.P., India)
- ❖ May 2009 to May 2011 ---- **Post-Doctoral Fellow**, University of Hyderabad, Hyderabad- 500 046(A. P., India)
- ❖ November 2006 to May 2009----**Executive (Scientist)**, Jain Irrigation Systems Limited, Jalgaon-425 001 (Maharashtra, India)
- ❖ December 2002 to March 2006----**Senior Project Fellow, CSIR** -National Botanical Research Institute (**NBRI**), Lucknow- 226 001(U. P., India)
- ❖ June 1999 to March 2002----**Project Fellow, CSIR** -National Botanical Research Institute (**NBRI**), Lucknow- 226 001(U. P., India)

POST-DOC EXPERIENCE : 8.5 Years

- ❖ November 2017 to Continued---- **Assistant Professor**, Department of Horticulture, College of Agriculture & Environmental Science, **Adigrat University, Adigrat, Tigray, Ethiopia**(Africa)
- ❖ September 2016 to May 2017 -----Department of Botany, Science and Environment Division, Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya (MGCGV), Chitrakoot--- 485 780 (Satna, M.P.)- **(Guest-Faculty)**
- ❖ July 2012 to July 2015 ---- **DST Young Scientist, CSIR**-Central Institute of Medicinal and Aromatic Plants (**CIMAP**), Lucknow-226 015 (U.P., India)
- ❖ June 2011 to May 2012 ---- **CSIR-Research Associate, CSIR**-Central Institute of Medicinal and Aromatic Plants (**CIMAP**), Lucknow-226 015 (U.P., India)
- ❖ May 2009 to May 2011 ---- **Post-Doctoral Fellow**, University of Hyderabad, Hyderabad- 500 046 (A. P., India)

TEACHING EXPERIENCE: ~ 5 Years

- ❖ November 2017 to Continued---- **Assistant Professor**, Department of Horticulture, College of Agriculture & Environmental Science, **Adigrat University, Adigrat, Tigray, Ethiopia**(Africa)
 - * Teaching at Graduate and Post-Graduate Level i.e., B.Sc. and M.Sc. **(Horticulture, Agricultural Microbiology and Plant Biochemistry)**
 - * R&D work on Biotechnological investigation for propagation and conservation of beles (*Opuntia ficus-indica* Mill) **in Tigrey region of Ethiopia (Arica)**
- ❖ July 2017 to October 2017----- **Assistant Professor**, Department of Botany, College of Life Sciences & Technology, IIMT University, Merrut-250 001(U.P.)
 - * Teaching at Graduate and Post-Graduate Level i.e., B.Sc. and M.Sc. **(Botany and Plant Biotechnology)**
- ❖ September 2016 to May 2017 -----Department of Botany, Science and Environment Division, Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya (MGCGV), Chitrakoot--- 485 780 (Satna, M.P.)- **(Guest-Faculty)**
- ❖ * Teaching at Graduate and Post-Graduate Level i.e., B.Sc. and M.Sc. **(Botany, Taxonomy, Molecular Taxonomy, Pteridophytes and Plant Biotechnology)**
 - * Acted As Invigilator-Paper Setting of Term and Examination
- ❖ May 2009 to May 2011---- University of Hyderabad, P. O. Central University Campus, Hyderabad **(DBT-Centre of Excellence Scheme at Department of Plant Sciences)**

-For two years, teaching (conducted Theory and Practical Classes) at Post-graduate level i.e., **Plant Biotechnology, Systems Biology** and **PG Diploma in Medicinal Botany** (PGDMB) at Department of Plant Sciences, **Integrated Biology** and Distance Education Programme of UoH, Hyderabad as part of the course curriculum for M.Sc. students.

-Acted As Invigilator-Paper Setting of Term and Examination

- ❖ Delivered Lectures to M.Sc. (Biotechnology) Students as a **Guest-Faculty** at School of Biotechnology, Faculty of Science, Banaras Hindu University (**BHU**), **Varanasi** (w.e.f. 29.08 2007).

INDUSTRY EXPERIENCE: 2.5 Years

- ❖ November 2006 to May 2009---**Executive (Scientist)**, Jain Irrigation Systems Limited, Jalgaon-425 001 (Maharashtra, India)

RESEARCH PROJECT HANDLED :

1. DST FAST TRACK YOUNG SCIENTIST PROJECT-2012

PROJECT TITLE	: Evaluation of Genetic Diversity, <i>In vitro</i> Propagation and <i>Ex-Situ</i> Conservation of <i>Shorea tumbuggaia</i> Roxb.-A Globally Endangered Medicinal Plant
TOTAL BUDGET	: 27 Lac
DATE OF SANCTION	: 25.06.2012 (up to July, 2015)
PROJECT DURATION	: 03 Years
FUNDING AGENCY'S ADDRESS & CONTACT DETAILES	: Ministry of Science & Technology Department of Science & Technology Science and Engineering Research Board (SERB)Technology Bhawan, NEW DELHI-110 01

Research Work:

- ❖ Management of Farm-and Green Houses and Maintenance of the Germplasm of Medicinal and Aromatic Plants (MAPs) through Tissue Culture.
- ❖ Micropropagation, *in vitro* conservation and Genetic Fidelity testing of MAPs from Molecular Markers .e.g., *Lavandula officinalis* etc.
- ❖ As Principal Investigator, Standardized *in vitro* Protocol for Micropropagation of *Shorea tumbuggaia* Roxb , Evaluation of Genetic Diversity through RAPD and Genetic Fidelity testing from ISSR Markers

2. CSIR-RESEARCH ASSOCIATESHIP-2011

Title of Project : **Mixed Culture Approach to Augment Secondary Metabolite Production in Cell, Shoot and Hairy Root Culture of Selected Medicinal Plant**

Duration : **01.06.2011—30.05.2012**

Amount of Grant : **Rs.2, 84,000=00 (Rupees two lakh eighty four thousand only)**

Sponsoring Agency: **Council of Scientific and Industrial Research (CSIR), New Delhi.**

Research Work:

- ❖ R&D work on pathway modulation and mixed culture approach to augment secondary metabolite production in cell, shoot and hairy root culture of selected medicinal plants.
- ❖ Conservation of the *in vitro* Gene Bank of Medicinal and Aromatic Plants (MAPs).

R&D SPECIALIZATION AND NOTABLE CONTRIBUTIONS:

Presently working as **Professor (Assistant), in Adigrat University, Adigrat, Ethiopia (Africa)** and intensively involved in the teaching on UG & PG level and R&D work on Cactus (*Opuntia Ficus-Indica*). In **>17 years research experience** in Plant Tissue Culture my R&D work was focused on Micro-cloning, Mass Propagation, Transformation and Conservation of Lower and Higher plants including Molecular Characterization of RET taxa. I Standardized efficient *In-vitro* Protocol for Commercialization of Threatened and Economically Important Crops and Cut-Flowers such as; **Mango, Jatropha, Banana and Pomegranate, Lower and Higher Plants (Pteridophytes and Timber Trees), Woody plants, Carnation, Gerbera, Chrysanthemum, Lavandula officinalis, Vinca minor and Bio-Fuel Tree.**

AWARD: 11

- **“ VISHISTA NAGRIK SAMMAN ”** for outstanding contribution in dissemination of Science and Research in the welfare of the society on 5th October 2015 by **National Association for Voluntary Initiative and Cooperation (NAVIC) and R.B.H. Foundation of India (RBHFI), Vardha, Maharashtra.**
- **“VIGYAN SAMRASTA AWARD ”** in **Vigyan Jagrukta Sammelan** organized by **NCSTC, DST, Government of India, New Delhi** and **Gonda Vigyan Club** on 16th Feb. 2015 at Tomson Inter College Gonda, U.P.
- **“VIGYAN SHIROMANI AWARD ”** in **Vigyan Jagrukta Sammelan** organized by **NCSTC, DST, Government of India, New Delhi** 2015 at Tarabganj, Gonda U.P.
- **“SCIENTIST OF THE YEAR-2014 AWARD”** in **International Symposium** by **Samagra Vikas Welfare Society (SVWS), Lucknow.**

- **FIRST PRIZE in Hindi Debate Competition** 2014 at CSIR-CIMAP, Lucknow.
- **BEST POSTER AWARD** on the presented research paper entitled, “**Tissue culture-based micro-cloning of disease free planting stock of *Shorea tumbergia* Roxb.--A critically endangered medicinal tree of Eastern Ghats**” in National Conference on, “Microbes promoting crop health, productivity and sustainability & Indian Phytopathological Society Zonal Meeting” jointly organized by CSIR-CIMAP, Lucknow and CSIR--NBRI Lucknow on 26th and 27th October, 2013.
- **FIRST PRIZE in Hindi Debate Competition** 2013 at CSIR-CIMAP, Lucknow.
- **SECOND PRIZE in Debate Competition during Vigilance Week** 2014 at CSIR-CIMAP, Lucknow.
- **YOUNG SCIENTIST AWARD** in First Science Awareness Conference on Agriculture, Health and Biotechnology at Barhalganj (Gorakhpur) in 2004 for best research paper presentation.
- **DISTRICT MERITORIOUS SCHOLARSHIP** during IXth & Xth Std. in 1989
- **SHERWANI AWARD** in VIIIth std. in 1988

REVIEWER:

- ❖ Physiology and Molecular Biology of Plants (**An International Journal-Springer**)
- ❖ Plant Cell Biotechnology and Molecular Biology (**An International Journal**)

SCIENTIFIC AFFILIATION:

Annual member, **International Society of Plant Morphologists (ISPM)**, New Delhi, & **Indian Fern Society**, Chandigarh, India.

PROFESSIONAL TRAINING:

- ❖ Attended a **Demonstration and Workshop for Agilent Bioanalyzer** on 8th-January, 2010 at Genomics Facility, Department of Plant Sciences, **School of Life Sciences, University of Hyderabad, Hyderabad** (Sponsored by UoH-DBT-CREBB Scheme).
- ❖ Attended a **Workshop on Taxonomy: Theory and Practice (Sponsored by the Ministry of Environment and Forests, Government of India)** during 3rd-9th March, 2010 at Centre for Environmental Management of Degraded Ecosystems (CEMDE), **University of Delhi, Delhi-110 007**.
- ❖ Attended a **Demonstration cum Workshop for Agilent Microarray Scanner** during 18th-19th, November, 2009 at Genomics Facility, Department of Plant Sciences, **School of Life Sciences, University of Hyderabad, Hyderabad** (Sponsored by UoH-DBT-CREBB Scheme).

1. Mayur Chandranshu Mishra, **Shastri Prasad shukla**, Ravindra Singh, Virendra Rajak and Manoj Tripathi. 2017. Scientific evaluation of Punarnawa (*Boerhaavia diffusa* L.)-Root. **European Journal of Biomedical and Pharmaceutical Sciences**. 4(9):636-641.
2. **Shastri P. Shukla** and Abhishek Sharma.2017. Genetic diversity assessment of critically endangered medicinal plant populations from *Shorea tumbuggaia* Roxb. **International Journal of Plant and Environment** .3(1):33-39.
3. **Shastri P. Shukla** and Abhishek Sharma.2017. *In vitro* seed germination, proliferation and ISSR marker based clonal fidelity analysis of *Shorea tumbuggaia* Roxb.: An endangered and high trade medicinal tree of Eastern Ghats. **In vitro Cellular and Developmental Biology** 53:200–208. DOI 10.1007/s 11627-017-9818-5.
4. **Shastri Prasad Shukla**.2015.Hairy root induction in *Vinca minor* L. through *Agrobacterium rhizogenes*-mediated transformation. **International Journal of Advanced Biotechnology Research**. 5:1-8 (ISSN 2249-3166)
5. Archana Prasad, **Shastri Prasad Shukla**, Archana Mathur, Chandan Singh Chanotiya and Ajay Kumar Mathur.2015.Genetic fidelity of long-term micropropagated *Lavandula officinalis* Chaix: an important aromatic medicinal plant. **Plant Cell Tissue and Organ Culture**. 120:803–811
6. **Shastri P. Shukla** and P. B. Khare. 2014. *In Vitro* Conservation of Some Threatened and Economically Important Ferns Belonging to the Indian Sub Continent. **Journal of Botany**. Volume 2014, Article ID 949028, 8 pages <http://dx.doi.org/10.1155/2014/949028>
7. **Shastri P. Shukla** and G.Padmaja.2013.*In-vitro* regeneration from shoot tip and nodal explants of *Simarouba glauca* DC, a promising biodiesel tree. **International Journal of Applied Biology and Pharmaceutical Technology** 4(2):206-213
8. **Shastri P. Shukla** & P.B.Khare. 2012. *In-vitro* Shoot Regeneration via Caulogenesis in an Arsenic Hyperaccumulator Fern, *Pteris vittata* L. **Journal of Environmental Biology** 33:683-687
9. **Shastri P.Shukla** & P.B.Khare. 2012. *In-vitro* Mass Multiplication of a Threatened Tree Fern, *Cyathea spinulosa* Wall.ex Hook. **International Journal of Genetic Engineering and Biotechnology** 3(1):15—23
10. P. B. Khare, S. K. Behera, Ruchi Srivastava and **S. P. Shukla** .2005. Studies on Reproductive biology of a threatened tree fern, *Cyathea spinulosa* Wall. ex Hook. **Current Science** 89 (1): 173-177.
11. **Shastri P. Shukla** and P. B. Khare. 2005. *In-vitro* callusing of the leaf primordium explant of *Pteris vittata* L. **Indian Fern Journal** 21: 152-156.

12. P. B.Khare and **Shastri P. Shukla**.2003.*In-vitro* shoot regeneration in stolon explants of an ornamental fern, *Nephrolepis biserrata*. **Phytomorphology** – 53 (3 & 4): 229-233
13. **Shastri Prasad Shukla** and Prem Behari Khare. 2005. “The application of biotechnology in Pteridophytes: An Overview”. **Bhartiya Vagyanik evam Audyogik Anusandhan Patrika** 13(2): 203-208.

CHAPTER IN BOOK:

Shastri Prasad Shukla. 2018. Chapter entitled,” Tissue Culture-Based Micro-Cloning of *Shorea Tumbuggaia* Roxb.--A Globally Endangered Indian Medicinal Tree”. **Importance of Biochemistry in Agriculture & Plant Sciences**. 1-16 (ISBN: 978-93-87500-30-3) Open Access E-Books 848 N. Rainbow Blvd, #5486, Las Vegas, NV 89107, USA.

INVITED LECTURE/SPEAKER: 04

1. Attended and delivered an honored guest lecture on research paper entitled,“ **Mass multiplication and *ex situ* conservation of Beles (*Opuntia ficus -indica* (L.) Mill) plants in Tigray region of Ethiopia (Africa) in National Seminar** on Recent Advances in Herbal/Ayurvedic Medicines-From Source to Manufacturing on 25-26 February, 2019 at **Arogyadham, Deendayal Research Institute (DRI), Chitrakoot-485334** (Satna, M.P.)
2. Attended and delivered an invited lecture in **National Seminar** on Status and prospects of medicinal plant resources and herbal technology on 22-23 October, 2016 at **Arogyadham, Deendayal Research Institute (DRI), Chitrakoot-485334** (Satna, M.P.)
3. A lead lecture delivered by **Shastri P. Shukla** on a research paper entitled, “*In-vitro* Regeneration from Nodal and Shoot Tip Explants of *Simarouba glauca*-A Promising Bio-Diesel Tree. **Shastri P.Shukla**, T.Latha and G. Padmaja” in National Symposium on Role of Biology and Biotechnology in Conservation of Biodiversity and Sustainable Development during 22–24th December 2009 at Department of Post Graduate Studies and Research in Botany, **Gulbarga University,Gulbarga-585 106** ,Karnataka (IL-4,pp 36).
4. A lecture delivered by **Shastri P. Shukla** on a research paper entitled, “The role of plant tissue culture in the multiplication of ornamental ferns” in **National seminar** on Biodiversity conservation and sustainable development during 4–6 March 2005 at **M.L.K. (P.G.) College, Balrampur (U.P.)**.

EXPERIENCE OF ORGANISING SEMINARS/CONFERENCES:

- ❖ First Science Awareness Conference on agriculture, health, environment & biotechnology during Dec. 27-29, 2004 at Vashistha Nagar, **Barhalganj, Gorakhpur, U.P.**

❖ **BIO-QUEST-2010 Seminar**-The 3rd Annual Research Gala, on 20th March, 2010 at School of Life Sciences, University of Hyderabad, Hyderabad-500046 A.P.

ABSTRACTS/RESEARCH PAPERS PRESENTED and ATTENDED in VARIOUS SEMINARS/ CONFERENCES/SYMPOSIA/WORKSHOP : 34 (International:07; National:27)

1. Attended and delivered an honored guest lecture on research paper entitled, “ **Mass multiplication and *ex situ* conservation of Beles (*Opuntia ficus -indica* (L.) Mill) plants in Tigray region of Ethiopia (Africa) in National Seminar** on Recent Advances in Herbal/Ayurvedic Medicines-From Source to Manufacturing on 25-26 February, 2019 at **Arogyadham, Deendayal Research Institute (DRI), Chitrakoot-485334 (Satna, M.P.)**
2. **Shastri Prasad Shukla**, Zinabu Hailu and Yemene Kehsay. 2018. Research paper entitled, “Biotechnological Investigation for Propagation and Conservation of Beles (*Opuntia ficus-indica* (L.) Mill in Tigrey Region of Ethiopia (Africa) has been contributed in Sixth International Conference on Plants & Environmental Pollution (ICPEP-6) at - CSIR-National Botanical Research Institute, Lucknow, India on 27-30 November, 2018 (Page No.98-99).
3. **Shastri Prasad Shukla**.2018. Research paper (abstract) entitled, “Evaluation of genetic diversity, micropropagation and genetic stability analysis of some micropropagated RET aromatic and medicinal plants” has been contributed in 5th Annual conference of Ethiopian Forestry Society (EFS) at Addis **Ababa, Ethiopia, Africa** on 12-13 April 2018.
4. Attended a National Workshop on “Skill Exploration in Biological Sciences” organized by Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya, Chitrakoot, Satna, M.P. during March 24-25, 2017.
5. Research paper (abstract) entitled, “Evaluation of genetic diversity through RAPD, micro-cloning and genetic stability analysis of some micropropagated RET aromatic and medicinal tree by ISSR Markers” by **Shastri P. Shukla** and Ravindra Singh has been contributed in **International Conference** on, “Interface of Physical, Chemical and Biological Sciences (IPCBS-2017)” jointly organized by Schools of Physical, Chemical and Biological Sciences at **Dr. Harisingh Gour Vishwavidyalaya (Central University), Sagar -470003, M.P., India** on 11-13th to January, 2017.
6. Attended and delivered an invited lecture in **National Seminar** on Status and prospects of medicinal plant resources and herbal technology on 22-23 October, 2016 at **Arogyadham, Deendayal Research Institute (DRI), Chitrakoot-485334 (Satna, M.P.)**
7. Attended and given Oral Talk on Research paper entitled, “Evaluation of the Genetic Diversity using RAPD Markers, Micropropagation and Genetic Stability Analysis of Micropropagated *Shorea tumbergia* Roxb. By ISSR Markers--A Critically Endangered Medicinal Tree of Eastern Ghats” in 37th Annual Meeting of Plant Tissue Culture

Association (PTCA, India) & **National Symposium** on, “Plant Biotechnology For Crop Improvement organized by Tissue Culture & Transformation Laboratory, **CSIR--NBRI Lucknow** during 25th to 27th February, 2016. (Page No.131

8. Attended a conference on “Biotechnology—Business Opportunities in U.P. (BSOIG-2015) organized and supported by industry associations on 01st June 2015 at **Hotel Clarks, Lucknow**.
9. Attended a Workshop on “IPR and Related Issues: Present & Future Needs” (Sponsored by UPCAR, Lucknow) during March 27-28, 2015 at **UPCAR, Lucknow**.
10. Research paper (abstract) entitled, “Evaluation of the genetic diversity, micropropagation and *ex-situ* conservation of *Shorea tumbuggaia* Roxb.--A critically endangered medicinal tree of Eastern Ghats” by **Shastri P. Shukla** has been contributed in **International Conference** on, “Medicinal Plants: Resource for Affordable New Generation (ICOMP-2015) organized by **CSIR-CIMAP, Lucknow** on 20th to 22nd March, 2015. (Page No. 125-126).
11. Attended **National Symposium** JIGYASA-2014 on *Withania somnifera*, *Catharanthus roresus* and *Artemisia annua* on Dec. 13-14, 2014 at **CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP) P.O.CIMAP, Near Kukrail Picnic Spot Lucknow-226 015 U.P.**
12. Attended **National Convention** and Seminar on Leveraging Aromatic and Medicinal Plants & Products (LAMP-2014) on 8-9th March, 2014 at **CSIR --Central Institute of Medicinal and Aromatic Plants (CIMAP) and Biotech Park, Lucknow**.
13. Research paper (abstract) entitled, “Urgent need for conservation of *Shorea tumbuggaia* Roxb. -- A critically endangered medicinal tree of Eastern Ghats through plant tissue culture” by **Shastri P. Shukla** has been contributed in **National Conference** and exhibition on, “Divine medicinal plants, plants based medicinal products, panchagavya and their role in integrated rural development” organized by Council for Development of Rural Areas (CDRA) at **Vigyan Bhawan, New Delhi-110001** on 21-22 February, 2014.
14. Research paper (abstract) entitled, “Tissue culture-based micro-cloning of disease free planting stock of *Shorea tumbuggaia* Roxb.--A critically endangered medicinal tree of Eastern Ghats” by **Shastri P. Shukla** and A.K. Mathur has been contributed in **National Conference** on, “Microbes promoting crop health, productivity and sustainability & Indian Phytopathological Society Zonal Meeting” jointly organized by **CSIR-CIMAP, Lucknow and CSIR--NBRI Lucknow** on 26th and 27th October, 2013. (Page No.18).
15. Research paper (abstract) entitled, “Genetic fidelity of long-term micropropagated plantlets of *Lavandula officinalis* (Linn.)—an important aromatic medicinal plant” by **Shastri Prasad Shukla**, Archana Prasad and Archana Mathur has been contributed in **National Seminar** on Plant Sciences: New Technologies, Conservation and Environment to be held at **Department of Botany, Aligarh Muslim University, Aligarh** on Feb.23rd-24th 2013.(Page No.18).

16. Attended and presented a research abstract entitled, "Cell culture based research on *Ocimum* species" in **National Symposium** on *Ocimum*: Ancient heritage to modern enigma during July 28-29, 2011 at **CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP) P.O.CIMAP, Near Kukrail Picnic Spot Lucknow-226 015 U.P.**
17. Attended Plant Sciences Colloquium-2010 on 18th September, 2010 at Department of Plant Sciences, School of Life Sciences, **University of Hyderabad, Hyderabad-500 046 A.P.**
18. Attended BIO-QUEST-2010 Seminar-The 3rd Annual Research Gala, on 20th March, 2010 at School of Life Sciences, **University of Hyderabad, Hyderabad-500 046 A.P.**
19. Attended a **Workshop** on Taxonomy: Theory and Practice (Sponsored by the Ministry of Environment and Forests, Government of India) during 3rd-9th March, 2010 at Centre for Environmental Management of Degraded Ecosystems (CEMDE), **University of Delhi, Delhi-110 007.**
20. Attended a Demonstration and **Workshop** for Agilent Bioanalyzer on 8th-January, 2010 at Genomics Facility, Department of Plant Sciences, School of Life Sciences, **University of Hyderabad, Hyderabad (Sponsored by UoH-DBT-CREBB Scheme).**
21. A lead lecture delivered by **Shastri P. Shukla** on a research paper entitled, "*In-vitro* Regeneration from Nodal and Shoot Tip Explants of *Simarouba glauca*-A Promising Bio-Diesel Tree. **Shastri P.Shukla**, T.Latha and G. Padmaja" in National Symposium on Role of Biology and Biotechnology in Conservation of Biodiversity and Sustainable Development during 22-24th December 2009 at Department of Post Graduate Studies and Research in Botany, **Gulbarga University, Gulbarga-585 106 ,Karnataka (IL-4,pp 36).**
22. Attended XXXIII All India Cell Biology Conference 2009 & **International Workshop** on Cell Cycle Regulation during 10-13, December, 2009 at School of Life Sciences, **University of Hyderabad, Hyderabad (A.P.).**
23. **Shastri Prasad Shukla** .2009. Abstract entitled "*In-vitro* Shoot Regeneration via Caulogenesis in an Arsenic Hyperaccumulator Fern, *Pteris vittata* L. in **Zonal Seminar** on Abiotic Stress Tolerance in Plants-Physiological and biotechnological Approaches" on 5th December at Centre for Plant Biotechnology, **CCSHAU New Campus, Hisar-125004, Haryana, Pp.40. (TM-7)**
24. Attended a Demonstration cum **Workshop** for Agilent Microarray Scanner during 18th-19th, November, 2009 at Genomics Facility, Department of Plant Sciences, School of Life Sciences, **University of Hyderabad, Hyderabad (Sponsored by UoH-DBT-CREBB Scheme).**
25. Attended **IIIrd International Conference** on Plants & Environmental Pollution (ICPEP-3) during 28th Nov.-2nd December, 2005 at **National Botanical Research Institute (NBRI), Lucknow-226001, India.**

26. A lecture delivered by **Shastri P. Shukla** on a research paper entitled, "The role of plant tissue culture in the multiplication of ornamental ferns" in **National seminar** on Biodiversity conservation and sustainable development during 4–6 March 2005 at **M.L.K. (P.G.) College, Balrampur (U.P.)**.
27. Ruchi Srivastava, S. K. Behera, **Shastri P. Shukla** and P. B. Khare 2005. Abstract entitled, "The reproductive biology of a threatened homosporous fern, *Microsorium punctatum* (L.) Copel." in **National Seminar** on Biodiversity conservation and sustainable development during 4–6 March at **M.L.K. (P.G.) College, Balrampur (U.P.)**.
28. **Shastri Prasad Shukla**, Sandeep K. Behera, Ruchi Srivastava, Jyoti Srivastava and P. B. Khare 2004. Abstract entitled "The importance of plant tissue culture in the mass propagation of ornamental fern species" in first science awareness conference during Dec. 27-29, 2004 at Vashistha Nagar, **Barhalganj, Gorakhpur**, Pp. 82-83.
29. P. B. Khare, S. K. Behera, Ruchi Srivastava and **S. P. Shukla** 2004. Abstract entitled "*In vitro* mass multiplication of a threatened tree fern, *Cyathea spinulosa* Wall. ex Hook in **International Symposium** on recent trends in plant ecology and biodiversity research during May 20-22, 2004 at Department of Botany, **North Eastern Hill University (NEHU), Shillong, India**, Pp. 13 (Abs 018).
30. Jyoti Srivastava, S. A. Ranade, **Shastri Prasad Shukla**, Ruchi Srivastava and P. B. Khare 2004. Abstract entitled "RAPD analysis of *Pteris vittata* L. an arsenic hyper accumulating fern in **National Seminar** on recent emerging trends in plant sciences during December 11-12, 2004 at **Department of Botany, D.A-V College, Kanpur**, Pp. 102-103.
31. P. B. Khare, **S. P. Shukla**, R. Srivastava, S. Porwal and S. A. Ranade 2003. Abstract entitled "Ferns and fern-allies for phytoremediation of heavy metals from contaminated soils – a molecular perspective" in National Symposium on Plant Biology and Biodiversity in changing environment on December 29-31, 2003 at Department of Botany, **Jamia Hamdard University, New Delhi**, Pp. 95-96.
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