

Dr Anita Rani Sehrawat

Professor

Raman Post-Doctoral Fellow

Co-ordinator DST FIST

Department of Botany

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Academic Background

Ph. D.	CCS Haryana Agricultural University, 1998
M. Sc.	Kurukshetra University, Kurukshetra, 1993
B. Sc.	Kurukshetra University, Kurukshetra, 1991
Post-Doctoral Fellow	A & M AgriLife, Texas, USA in 2014 – 2015

Professional Background

Designation	Mode	Nature	Institution served	Period
Professor	Regular	Teaching & Research	Department of Botany M. D. University Rohtak, Haryana	June 26, 2020, to date
Professor cum Head	Regular	Teaching & Research	Department of Botany M. D. University Rohtak, Haryana	Nov.1, 2017, to June 25, 2020
Professor	Regular	Teaching & Research	Department of Botany M. D. University Rohtak, Haryana	September 11, 2015, to October 31, 2017
Associate Professor	Regular	Teaching & Research	Department of Botany M. D. University Rohtak, Haryana	Nov. 1, 2014, to Sept.10, 2015
Assoc. Prof. Cum Head	Regular	Teaching & Research	Department of Botany M. D. University Rohtak, Haryana	Sept.11, 2012, to October 31, 2014
Reader cum Head	Regular	Teaching & Research	Department of Botany M. D. University Rohtak Haryana	July 22, 2012, to September 10, 2012.
Reader	Regular	Teaching & Research	Department of Botany M. D. University Rohtak, Haryana	September 11, 2009, to September 10-201
Lecturer	Regular	Teaching	Govt. Colleges in Haryana	August 26, 2004, to Sept.10, 2009
Research Associate	Adhoc	Research	Dept. of Genetics and Biotechnology, CCS Haryana Agricultural University, Hisar	December 5, 1998, to August 25, 2004
PGT (Biology)	Adhoc	Teaching	Kendriya Vidyalaya, Hisar Cantt.	Aug.1, 1997, to Ap. 30, 1998
Research Fellow	Adhoc	Research	Dept. of Genetics, CCS Haryana Agricultural University, Hisar	Dec.24, 1996- July 31, 1997

Training/Courses/Workshop Attended

Training/Course /workshop	Place	Period
Hand-on Training	“Advanced Molecular Biology Techniques for Characterization of Natural Products” IMTECH, Chandigarh	Dec.11-17, 2022
Training	“Bioprospecting Natural Products for Human Health and Socio-economic Development”, IHBT Palampur, Himachal Pradesh	March 7-11, 2022
Workshop	Online on"Application of Statistics in Science and Technology using SPSS" organized by the World Food Preservation Center, USA.	August 08-10, 2020
Workshop	“Teaching Learning and Research Support Services For Quality Enhancement” Organized by Vivekananda Library MD.University Rohtak	July 20 - 24, 2020
Training	“Recent Trends in Bioinformatics and its Applications in Crop Improvement” organized by the Department of Molecular Biology, Biotechnology and Bioinformatics, CCSHAU, Hisar	July 17 - 21, 2018
Refresher Course	“Recent Advances in Educational Technology”, AAREM, Directorate of Human Resource Management, CCSHAU, Hisar	Dec. 1- 21, 2011
Course	“Statistical Methods and Data Analysis”, Conducted by AAREM, Directorate of Human Resource Management, in collaboration with the Department of Mathematics and Statistics, CCSHAU, Hisar	June 21 - 30, 2011
Training	“Content Development for EDUSAT Programme in Haryana-Setup of a working group in various Subjects of Life Sciences” at Hisar organized by Govt. of Haryana	March 23 - 25, 2009
Training	“Plant Tissue Culture: Opportunities and Challenges” Centre for Plant Biotechnology, Govt. of Haryana, CCS Haryana Agricultural University, Hisar	Sept. 9 - 10, 2008
Orientation Course	“Academic Staff College”, Kurukshetra University Kurukshetra	Feb.14 -Mar.13, 2006
Summer Workshop	Tools and Techniques of Plant Diversity Assessment, Conservation and Inventorisation, CIMAP, Lucknow	June 18 – July 7, 20
Computer Training	MS Office and Computer Application for Agricultural Scientists, in AAREM, CCS HAU Hisar	Sept 1-28, 1999

Awards/Merit/ Fellowship and Assignments

- Raman Post-Doctoral Fellowship by UGC, Govt of India at Texas, the USA
- Head, Department of Botany (Two times)
- Co-ordinator of DST-FIST project awarded by DST, Govt of India
- Qualified NET in 1998 and 1999
- Merit fellowship during M.Sc. & Ph. D.

Areas of Interest / Specialization

- Plant tissue culture and biotechnology (Micropropagation and genetic transformation)

- Anther culture for haploid production
- Mature and immature embryo culture for studying abiotic stresses and somaclonal variations
- Resistance and susceptible genotypes screening for karnal bunt through embryo culture
- Genetic Transformation of Indian and American cotton
- Artificial seeds production in rare and endangered medicinal plants
- **Isolation and Evaluation of naturally occurring bioactive compounds in medicinal plants**
 - Quantification of secondary metabolites in tissue culture materials
 - Synthesis, characterization and studying the potential of green nanoparticles in tissue culture
 - Non-enzymatic and enzymatic metabolites *in vivo* and *in vitro* materials of medicinal plants
- **Microbial studies**
 - Isolation and biochemically characterization of *Rhizobium* in legumes under normal and stressed conditions
 - Molecular basis of salinity stress-induced phytotoxicity and its amelioration via seaweed
- **Molecular biology**
 - Identification of salinity-tolerant genotypes through molecular techniques
 - Polymorphism studies using agronomic traits, biochemical and molecular markers

Research guidance

- Guided 04 Ph. D. students (All four have been awarded Degrees by M. D. University Rohtak).
- Presently 7 Ph.Ds. are working with me
- Besides, more than 33 students have completed their M.Sc. dissertation under my supervision.
- Five Ph. D. Theis have been evaluated by other University

Committees

Under Graduate Board of Studies (UGBOS), Post Graduate Board of Studies(PGBOS), Department Research Committee (DRC) in Botany

- Member UGBOS, PGBOS and DRC in Botany from June 25, 2020, to present
- Chairperson UGBOS, PGBOS and DRC in Botany from November 1, 2017, to June 25, 2020

- Member UGBOS, PGBOS and DRC in Botany from Nov.1, 2015, to October 31, 2017
- Chairperson UGBOS, PGBOS and DRC in Botany from July 22, 2012, to October 31, 2014
- Member UGBOS, PGBOS and DRC in Botany from September 11, 2009, to July 21, 2012

Faculty of Life Sciences

- Member of the Faculty of Life Sciences from September 11, 2009 – present

Academic Council

- Member of Academic Council from July 22, 2012 – present

Inspection/Screening/Scrutinizing /UMC /Selection Committee

- Member of Inspection Committee for inspection of various colleges under M.D.University Rohtak.
- Member Scrutinizing/Screening cum Evaluation Committee for the promotion of teachers in Dept. of Botany, M. D. University, Rohtak.
- Member Screening cum Evaluation committee as a subject expert (Botany) for the award of senior /selection grade of teachers in Colleges of Haryana.
- Member (Special invitee) for designing the course on Disaster Management
- Member to consider examiner's report for the award of Ph. D. in Botany
- Member of the selection committee for project Fellow in different projects
- Member of UMC committee of the M.D. University, Rohtak
- Subject expert for the section of Assistant Professor in Botany at CCS Haryana Agricultural University, Hisar on 21. 10. 2012.
- Subject expert of the selection committee in MKJK College, Rohtak, for selection of Assistant Professor (Botany) on 28.04.2014.
- Subject expert for the section of Assistant Professor in Botany at CDLU Sirsa, December 02, 2022.

Organizer:

- Organized a Computer-based workshop on "Biological Databases & Sequence Analysis" funded by Radha Krishnan Foundation, Maharshi Dayanand University, Rohtak, on 29.03.2013.
- Organized workshop on "Personality Development & Communication Skills" Sponsored by Career Counselling and Placement Cell (CCPC) of the

University, from R.K. Fund Maharshi Dayanand University, Rohtak, on 22.11.2013.

- Convenor in the organization of Interdepartmental activity on “Plant, Energy and Environment” sponsored by R.K. Fund, Maharshi Dayanand University, Rohtak on 05.03.2014.
- Convenor and organized one day Conference on “Plant Biotechnology” Sponsored by R.K. Fund, Maharshi Dayanand University, Rohtak, on 25.03.2014.
- Convenor for Organisation of Interdepartmental Quiz /Declamation Contest in session 2012-13 in Maharshi Dayanand University, Rohtak
- Co-convenor of National Seminar on “Biodiversity: Status and Significance,” organized by Department of Botany, Maharshi Dayanand University, Rohtak, India, 21.03. 2017.
- Organized one National seminar on “Plant Biotechnology” Sponsored by R.K. Fund Maharshi Dayanand University, Rohtak, on 20.12.2017.
- Organized Hands-on training on “Conventional and Modern Approaches in Plant Sciences” Sponsored by R.K. Fund Maharshi Dayanand University, Rohtak, on 15.12.2018

Invited/extension lectures delivered

Edusat lectures

- Recombinant DNA. Technology on February 20, 2008
- Carrier Molecules/Vectors on February 22, 2008
- Gene Cloning and Transfer Techniques on February 27, 2008
- Recombinant DNA. Technology on November 27, 2008
- Gene Cloning- I Nov.28, 2008
- Gene Cloning-II Dec.5, 2008

Extension lectures/ Resource Person

- Extension lecture on Genetic Engineering-I at GC Hisar on 15.11.2010
- Extension lecture on Genetic Engineering-II at GC Hisar on 16.11.2010
- Extension lecture on Tools and Techniques of Recombinant DNA. Technology at AIHM Jat College Rohtak on 10.03.2014
- Extension lecture on Basic Concept for Gene Cloning at IC College for Women Rohtak on 09.04.2018
- Invited talk as a resource person on Differential Mechanism at Plant Growth Stages Depicting Abiotic Stress Tolerance in Crop Plants in training “*Advancement of physiological strategies for Crop Improvement against abiotic stresses*” at ICAR-CSSRI, Karnal conducted from 20-29 August 2018 on 25.08.2018

- Delivered online talk on Plant Tissue Culture: An Overview in a 14 days *Refresher Course in Experimental Botany* by UGC Human Resource Development Centre, Ranchi University Ranchi, Jharkhand on 07.09.2021
- Extension lecture on Nutrition of Plant Tissues in Culture at I.G.U., Riwari on 10.05.2022

Oral/Poster Presented in seminars/conferences:

- Nandal Kiran, **Anita R. Sehrawat**, A.S. Yadav and R.K. Vashishat 2002. Biochemical characterization of heat-resistant/ tolerant mutant strains of *Rhizobium sp.* (Cajanus). *43rd Annual Conference of Association of Microbiologists of India*, CCS HAU, Hisar, Dec. 11-13, p.51 (**Best poster award**).
- **Anita R. Sehrawat**, Sonali Malik, K.D. Sehrawat and Nidhi Verma 2014. Studies on biochemical changes during organogenesis in WH711 and WH147 “In National Conference on Plant Bioresource Management and Biotechnology.” Organized by Department of Botany, Rajasthan University Jaipur, January 29-31, pp. 143 (**Presented Poster**).
- **Anita R Sehrawat** 2014. Seaweed: A Potential Biofertilize In National Conference on Plant Bioresource Management and Biotechnology.” Organized By Department of Botany, Rajasthan University Jaipur, January 29-31, pp 147 (**Oral presentation**).
- **Anita R. Sherawat**, Nidhi Rani, Krishan Sehrawat Ravinder Kumar, Ashish Malik, Nidhi Verma, Jyoti Ahlawat, 2014. Genomics and Barley improvement, “In National workshop on Genomics in Crop Improvement”, Organized by Centre for Biotechnology, Maharshi Dayanand University, Rohtak, India, February 27-28, pp.29. (**Presented Poster**)
- Anita Grewal, **Anita R. Sherawat**, 2014. Association of RAPD, ISSR and SDS-PAGE for Diversity Analysis in *Lepidium sativum*, “In National workshop on Genomics in Crop Improvement” Organized by Centre for Biotechnology, Maharshi Dayanand University, Rohtak, India, February 27-28. pp29. (**Presented Poster**)
- Ashish Malik and **Anita R. Sehrawat** 2016. Evaluation of green synthesized silver nanoparticles from embryogenic calli of *Alhagi maurorum* as an antimicrobial agent in tissue culture in “National Conference on Trends in Nanobiotechnology”, Organized by Department of Molecular Biology, Biotechnology and Bioinformatics, CCS HAU, Hisar, India November 29-30, CCS HAU, Hisar, India February, 27-29, p.020 pp.40 (**Presented Poster**).
- Nidhi Verma and **Anita R. Sehrawat**, 2016. Studying of antioxidant potential of Moth Bean under the influence of seaweed, “In National Conference on Genetic Diversity and Therapeutic Potential of Natural Products” Organized by

Department of Genetics, Maharshi Dayanand University, Rohtak, India, September 17, pp.030 **(Presented Poster)**.

- Jyoti Ahlawat and Anita R Sehrawat 2017 Green synthesized silver nanoparticles (AgNP) of nano dimensions (1.5nm-15nm) to eliminate bacterial and fungal contamination in tissue culture of *Capparis decidua* (FORSK.) Edgew, at the International Conference on Advances in Biotechnology, organized by GAVIN CONFERENCES, at DUBAI, UAE **(Best poster award to my student)**
- **Anita R. Sehrawat**, Jennifer C. Chagoya and Mark D. Burow 2017. Assessment of seed genetic purity using a molecular marker in Peanut (*Arachis hypogaea* L.) in “National Conference on Biodiversity and Sustainable Utilization of Plant resources,” Organized by Department of Botany, Kurukshetra University Kurukshetra, India, and January, 17-18, OBGC 7 pp.80 **(Oral presentation)**.
- **Anita R. Sehrawat**, Deepika, Sangeeta Kumari, Deepak Kumar Anoop Kumar **2019**. Isolation and Characterization of Chitosan and Copper chitosan nanoparticles for studying its antifungal efficacy: A waste to wealth approach, in Golden Jubilee International Conference on “New Millennia Agriculture Novel Trends and Future Scenarios” held at CCS HAU, Hisar on Nov.6-8, p.p.111 **(Best Poster Presentation award)**
- Anita R. Sehrawat, Swati, Deepak Kumar Anoop Kumar, Krishan D. Sehrawat, 2020. Green synthesized nanoparticles: Role as nanoantibiotics, in callogenesis and organogenesis of *Alhagi maurorum* Medik. (Fabaceae-Papilionateae) Presented in International Symposium on “Plant Taxonomy and Ethnobotany” held at Botanical Survey of India, Kolkata, on February 13-14, 2020, page 164. **(Oral Presentation)**
- Anita Rani Sehrawat, Antimicrobial and Hormetic Response by Green Silver Nanoparticles in tissue culture of *Alhagi maurorum*: A very important Medicinal Weed in 2nd National Conference on "Science & Technology for Rural Development (NCSTRD-2019) organized by the Department of Chemistry, Maharshi Dayanand University, Rohtak in association with ISCA-Rohtak Chapter (Sponsored by UGC-SAP) on October 14-15, 2019 **(Oral presentation)**
- **Invited talk** on Antimicrobial and Hormetic Response by Green Silver Nanoparticles in tissue culture of *Alhagi maurorum*: A very important Medicinal Weed in 1st National Conference of Indian Science Congress Association- Rohtak Chapter on “Science & Technology for Sustainable Development (NCSTSD-2019) organized by Department of Chemistry, M.D.bUniversity, Rohtak on February 13, 2019

Chairperson and Judge in conference/Workshops and other activities

Chairperson

- Chaired a session in one day **National Seminar** on “Climate Change and Food Security”, organized by Centre for Biotechnology MD, University Rohtak on **January 25 2018**.
- Chaired the Technical session in the 1st National Conference of Indian Science Congress Association- Rohtak Chapter On “Science & Technology for Sustainable Development (NCSTSD-2019) organized by the Department of Chemistry, MD. University, Rohtak on **February 12, 2019**.
- Chairperson for Technical session of poster presentation in 2nd National conference “Science & Technology for Rural Development (NCSTRD-2019)” organized by Department of Chemistry, MD. University, Rohtak, in association with Indian Science Congress- Rohtak Chapter **on 14 -15 Oct 2019**

Judge

- Judge of the Poster session in the **International Seminar** on “Sustainable Environment and Agriculture Under Global Climate Change” organized by the Department of Environmental Science, Maharshi Dayanand University, Rohtak, India, on **February 21, 2019**.
- Judge of the Poster session in the **National seminar** on “Frontier in Life Sciences– An Interdisciplinary Prospectives” organized by the Department of Zoology, Maharshi Dayanand University, Rohtak, India, on **March 15, 2019**.
- The judge in competitive activities in a **workshop** on the topic “Women Safety and Gender Sensitive Issues ” organized by the Women Study Centre of Maharshi Dayanand University, Rohtak, India, on **February 07, 2019**.
- Judge of **Quiz Contest** organized by the Department of Environmental Science, Maharshi Dayanand University, Rohtak, India, on National Science day, **February 28, 2020**

Projects

Minor Project (PI):

- Effect of nanoparticles on germination and growth of Barley” by R.K.Fund of Rs 10,000/- 2013-14, in MD. University, Rohtak

Major project (Co-P.I.):

- Fabrication of silver nanoparticles loaded epoxy membrane and its use for defluoridation of contaminated water of Rs. 6,90,000/-by HSCST, Panchkula 2015-2018

Major project (Co-Ordinator):

- DST-FIST project of Rs. 49.00 Lakhs by DST, Govt of India 2014-2019

Study Tour Incharge:

- In charge of the Study Tour at Agra on 2012
- In charge of the Study Tour at Chandigarh on 2014
- In charge of the Study Tour at Rishikesh and Dehradun, in 2019

International Conference:

- Attended on International Conference on Plant Genomics Congress at St. Louis, U.S.A., 14-15, 2015.

Reviewer of research papers:

- Frontier in Plant Sciences
- *Journal of Herbs, Spices & Medicinal Plants*
- *Nano Biomedicine and Engineering*
- *3 Biotech*
- *Journal of environmental biology*

Professional Activities:

- Research papers in refereed journals - **48**
- Review/book chapter - **11**
- Abstracts in conferences /symposia – **75**
- Newsletter- **1**
- Semi-technical bulletins- **4**
- Magazine- articles- 5

Extracurricular activities:

- Best debate award and player of Kho – Kho
- Best athlete in COBS & H, CCS HAU, Hisar in 1995.

Publications List

1. Uppal, Sanjogta, V. Chawla, V.P. Singh and **A.R. Sehrawat 1998**. Genetic architecture of some quantitative traits in bread wheat. *Annals of Agri- Bio Research*, **3 (1):55-60**.
2. **Sehrawat, A.R.**, S.Uppal and K.D. Sehrawat **1999**. Effect of phytohormones on callus induction from different explants of *Catharanthus roseus* (L.) G. Don. *Annals of Agri- Bio Research*, **4 (2):183-187**.
3. **Sehrawat, A.R.**, S.Uppal and K.D. Sehrawat **1999**. Multiple shoot cultures and alkaloid production in *Catharanthus roseus* (L) G. Don. *Annals of Agri- Bio Research*, **4(2):189-191**.
4. Punia, Anita, Rajender K. Jain and **Anita R. Sehrawat 2000**. Efficient and cost-effective micropropagation of two early maturing varieties of sugarcane (*Saccharum spp*). *Indian Sugar*, **50 (9): 611-618**.

5. Punia, Anita, Navinder Saini, R.K. Jain, V.K.Chowdhury and **Anita R. Sehrawat 2001**. Micropropagation of Sugarcane. *Curr. Res.*, **30**:40-42. [IF: 0.4773]
6. **Sehrawat A.R.**, Sanjogta Uppal and Anita Punia **2001** *In vitro* culture and multiplication of *Rauwolfia serpentina*-A threatened medicinal plant., *Crop Res.*, **22** (1):68-71.
7. **Sehrawat A.R.**, S.Uppal and Anita Punia **2002**. Effect of plant growth regulators on the relative growth rate, multiple shoot formation and alkaloid accumulation in *Catharanthus roseus* (L) G. Don. *Indian J. Genet.*, **62** (1): 61-64. [IF: 0.138]
8. **Sehrawat Anita R.**, S.Uppal and K.P. Singh **2002**. Response of wheat crosses involving salt-tolerant wheat genotypes to anther culture. *Indian J. Genet.*, **62** (3): 197-200. [IF: 0.138]
9. **Sehrawat Anita R.**, S .Uppal and J. B. Chowdhury **2002**. Establishment of plantlets and evaluation of differentiated roots for alkaloids in *Rauwolfia serpentina*. *Journal of Plant Biochemistry and Biotechnology*, **11**: 105-108. [IF: 1.094]
10. Dahiya Mukesh, S.Uppal and **Anita R. Sehrawat 2003**. Influence of plant growth regulators on different genotypes for callus induction and plant regeneration from mature wheat embryos. *Crop Res.*, **26** (2):349-354.
11. Yadav, Neelam, SanjogtaUppal, **Anita R. Sehrawat** and K.P. Singh **2004**. *In vitro* callus growth, selection of NaCl tolerant cell lines and plant regeneration in wheat *Natnl. J.Pl. Improve.* , **6**(2): 130-131.
12. Dhillon, R.S., Subhadra Singh, **A. R. Sehrawat**, S. Arya and Z. Hussain **2005**. Callus induction and plant regeneration from anthers of *Azadirachta indica*. *Journal of Tropical Forest Science*, **17**(1):121-126. [IF: 0.667]
13. Nandal, Kiran, **Anita R. Sehrawat**, Attar S. Yadav, R.K. Vashishat and K.S. Boora **2005**. High temperature-induced changes in exopolysaccharides, lipopolysaccharides and protein profile of heat-resistant mutants of *Rhizobium sp.* (Cajanus). *Microbiological Research*, **160**: 367-373. [IF 2.144]
14. Sharma, Pinakee, S. Uppal and **Anita R. Sehrawat, 2005**. Evaluation of callus culture of *Glycyrrhizaglabra* L. Var. HM1 for Glycyrrhizin. *Natnl. J. Pl. Improv*, **7** (1): 62-64.
15. Nehra, Kiran, A.S. Yadav, **Anita R. Sehrawat** and R.K. Vashishat **2007**. Characterization of heat-resistant/ tolerant mutant strains of *Rhizobium sp.* (Cajanus) for growth, survival and symbiotic properties. *Indian J. Microbiology*, **47**(4):329-335.
16. **Sehrawat Anita R**, S. Uppal and Krishan Sehrawat **2007**. Callus growth and crude alkaloid fraction at different subculture levels in *Catharanthus roseus* L. (G.) D.O.N. *National. J. Pl. Improv.*, **9** (1): 56-57.
17. Meenu Ahuja, S. Uppal, **Anita R. Sehrawat**, Rachna Yadav, Minakshi Bhardwaj and Vijay Chowdhary **2010**. *In vitro* Propagation of [*simmondsia chinensis* (Link) Schneider] Through Nodal segments of Female Plants. *Annals of Arid Zone*, **49**(1): 33-37.
18. **Anita R. Sehrawat**, S. Uppal, Krishan Sehrawat, Subhash Kajla, **2012**. Efficient callus induction, plant regeneration and their selection at different NaCl levels in wheat crosses. *Crop Research*, **43**(1, 2 & 3): 147-152.
19. Dinesh Bansal, Pragya Bhasin, Anita Punia and **Anita R. Sehrawat, 2012**. Evaluation of antimicrobial activity and phytochemical screening of extracts of *Tinospora cordifolia* against some pathogenic microbes. *Journal of Pharmacy Research*, **5** (1): 127-129.

20. Pragya Bhasin, Dinesh Bansal, Anita Punia and **Anita R. Sehrawat, 2012**. Antimicrobial activities of *Lepidium sativum*: Medicinal plants used in folklore remedied in India. *Journal of Pharmacy Research*, **5(3)**: 1643-1645.
21. Ashish Malik and **Anita Rani Sehrawat 2013**. Novel synthesis of silver nanoparticles using leaf aqueous extract of *Alhagi maurorum* and their characterization. *International Journal of Recent Scientific Research*, **4**: 2091-2095.
22. Ashish Malik and **Anita Rani Sehrawat 2013**. Green synthesis of silver nanoparticles using ethanolic extract of leaves of *Alhagi maurorum*. *International Journal of Recent Scientific Research*, **4**:2096-2099.
23. Jyoti Ahlawat and **Anita R. Sehrawat 2014**. Globalization of Herbal Drugs: A Bliss and Concern. *International Journal of Science and Research*,**3 (11)**: 466-474.
24. Sonali Malik, **Anita R. Sehrawat & Krishan D. Sehrawat 2015**. Studies on Biochemical Changes in Calli of Immature Embryos during Culturing of *Triticum aestivum* L. (var. WH711). *International Journal of Research*, **2(7)**: 120-131.
25. Jyoti Ahlawat and **Anita R. Sehrawat 2015**. Biological synthesis of silver nanoparticles using aqueous leaf extract of *Capparis decidua* (FORSK.) EDGEW: A better alternative. *Journal of Pharmacy Research*,**9 (4)**: 244-249.
26. Pragya Bhasin, Dinesh Bansal, Anita Grewal and **Anita R. Sehrawat, 2015**. Rapid Micropropagation of *Lepidium sativum* L. - A Medicinal Herb for Folkore Remedies. *Journal of Pharmacy Research*, **9 (7)**: 480-483.
27. Satish Kumar Rana, **Anita R. Sehrawat** and V.K Chowdhury **2015**. Assessment of clonal fidelity in micropropagated plantlets of *Rauwolfia serpentine* Benth Ex. Kurz. *Medicinal Plants- International Journal of Phytotherapies and related Industries*, **7 (4)**: 258-263.
28. Ravinder Kumar and **Anita R. Sehrawat 2016**. HPTLC analysis from leaf and stem extracts of *Salvadora persica* L. and *Salvadora oleoides* (Decne). *International Journal of Interdisciplinary Research*, **3 (4)**: 43-46.
29. Jain Preeti, Malik Ashish, Sharma Swati, **Sehrawat R. Anita 2017**. *Alhagi maurorum* Flower Extract Mediated Novel Synthesis of Gold Nanoparticles. *Asian Journal of Pharmaceutics*, **11 (1)**: 225-229.
30. Nidhi Verma, Krishan D. Sehrawat, Anil Ahlawat and **Anita R. Sehrawat 2017**. Legumes: The Natural Products for Industrial and Medicinal Importance - A Review. *International Journal of Cell Science and Biotechnology* **6**: 6-13.
31. Nidhi Verma, Krishan D. Sehrawat and **Anita R. Sehrawat 2017**. Studies on the Effect of *Ascophyllum nodosum* Extract (ANE) on Growth, Antioxidant Potential and Alpha Glucosidase Inhibition Activity of *Vigna aconitifolia* (RMO 225). *Int .J. Curr. Microbiol. App. Sci.* **6 (10)**: 2125-2138.
32. Ahlawat J and **Sehrawat, Anita. R. 2017**. Nano Dimensional (1-20nm) Silver Nanoparticles: Stem Extract of *Capparis decidua* (FORSK.) EDGEW Mediated Synthesis and its Characterization-A Lab to Land Approach *Int. J. Curr. Microbiol. App. Sci.***6 (10)**: 1874-1883.
33. Ashish Malik, Preeti Jain, K.D. Sehrawat and **Anita Rani Sehrawat 2017**. Biosynthesis and structural characterization of silver and gold nanoparticles using aqueous extract of *Alhagi maurorum*. *International Journal of Pharmacognosy*, **4 (10)**: 332-337.

34. Ashish Malik, Preeti Jain, Suman Lata and **Anita R. Sehrawat** 2018. Biosynthesis of Silver Nanoparticles from embryogenic calli of *Alhagi maurorum*. *Asian Journal of Pharmaceutics* **12** (1): S224-S227.
35. Jyoti Ahlawat, Ravish Choudhary, **Anita Rani Sehrawat**, Sukhdeep Kaur 2018. Germplasm conservation and regeneration of encapsulated in vitro generated shoot tips and nodal segment of *Capparis decidua* (FORSK.) EDGEW. *Romanian Biotechnological Letters* **24**(5):783-788
36. Nidhi Verma, **Krishan D Sehrawat**, Sangeeta Kumari and **Anita R. Sehrawat** 2019. Antityrosinase activity and photosynthetic pigments in seaweed treated sprouts of *Vigna aconitifolia*. *Indian Journal of Agricultural Sciences* **89** (10): 1609–11.
37. Ashish Malik, Krishan Sehrawat, Anil Ahlawat and **Anita R. Sehrawat** 2020. A comparative biochemical evaluation of *in vivo* and *in vitro* propagated *Alhagi maurorum*: an important medicinal plant. *Legume Research- an International Journal* **43** (5): 627-633.
38. Jyoti Ahlawat, **Anita Rani Sehrawat** and Ravish Choudhary and Shiv Kumar Yadav, 2020. Biologically synthesised eclipse fungal and bacterial contamination in micropropagation of *Capparis decidua* (FORSK.) Edgew: A Substitute to Toxic Substances. *Indian Journal of Experimental Biology* **58** (5): 336-343.
39. Nidhi Verma, **Anita R. Sehrawat**, Digvijay Pandey, Binay K Pandey 2020. Seaweed: A Novel Organic Biomaterial. *Current Journal of Applied Science and Technology* **39** (14): 1–8.
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