

BIODATA



NAME : **Dr. Zahoor Ahmad Kaloo**

FATHERS NAME : **Mr. Abdul Rahim Kaloo**

DATE OF BIRTH : **21-03-1964**

DESIGNATION : **Professor (15-11-2014)**

DEPARTMENT : **P.G. Department of Botany University of Kashmir, Hazratbal, Srinagar- 190006, India.**

DATE OF APPOINTMENT : **13-11-1999**

PERMANENT ADDRESS : **Sumbal, Sonawari- 193501, Kashmir, J&K, India.**

POSTAL ADDRESS : **Department of Botany University of Kashmir, Hazratbal, Srinagar- 190006, J&K, India**

EMAIL : **zakallu@yahoo.com**

MOBILE NO. : **09906535867**

EDUCATIONAL QUALIFICATION : **Ph.D.**

SUBJECT : **Botany**

FIELD OF SPECIALIZATION : **Plant tissue culture, Phycology & Limnology**

TITLE OF THESIS/DISSERTATION

Ph.D : ***In vitro* Studies on Some Threatened Plant Species of Kashmir Valley.**

M.Phil : **Ecology and Distribution of *Salvinia natans* in Dal Lake.**

TEACHING EXPERIENCE : **18 years at P.G. Level**

RESEARCH EXPERIENCE : **More than 23 years**

RESEARCH PUBLICATIONS

1. Paper's published : **72**

2. Abstract's published : **95**

3. Research reports : **06**

Research Guidance

S. No.	Number Enrolled	Thesis/ Submitted	Degree awarded
M. Phil	2	-	15
Ph.D.	5	-	8
PDF	1	1

PROJECTS

S. No.	TITLE OF THE PROJECT	FUNDING AGENCY	AMOUNT SANCTIONED	Duration / w.e.f	STATUS
1.	Cultivation, propagation and genetic diversity of <i>Fagopyrum</i> species growing in Kashmir Himalaya and Ladakh for Rutin extraction (Co.P.I.)	UGC, New Delhi	11. 25 lac.	3 years/ 30 June.2011	Completed
2.	Preventing extinction and improving conservation status of Threatened plants through application of biotechnological tools. (Co.P.I.)	DBT, New Delhi All India Network Project.	61. 68 lac.	5 years/ 23 March. 2012	Completed
3.	Genetic diversity, <i>in vitro</i> propagation, molecular characterization and conservation of <i>Meconopsis</i> species in Kashmir Himalaya. (P.I)	UGC Major Projects	14.30lac	3 years/ 07 March 2015	Underway
4	<i>In vitro</i> conservation of <i>Colchicum luteum</i> and its comparative proteomic analysis for the production of cochicine under salt stress. (Mentor)	UGC Minor Projects	25.50lac	3 years/ 14-05-2014	Underway
5	<i>In vitro</i> propagation and effect of AM fungal association on establishment and growth performance of <i>Gentiana kurroo</i> Royle, a threatened medicinal plant growing in Kashmir Himalaya. (Co. P.I.)	UGC Major Projects	14.40lac	3 years/ March 2015	Underway
5.	Conservation and Biological Diversity of Economically important endemic and threatened species of genus <i>Aconitum</i> L. growing in Kashmir Himalaya and Ladakh. (P.I)	MOEF (Ministry of Environment and Forests)	79.09lac	3 years	Pipeline

6.	Micropropagation <i>under in vitro</i> conditions with an impetus on its conservation and molecular characterization of some strategic pathway genes in <i>Aconitium heterophyllum</i> Royle (Mentor)	DST-SERB	30.0lac	3 years	Completed
----	--	----------	---------	---------	-----------

Contribution towards Corporate Life and Management of the Institution

- Director University Landscape Development Division, University of Kashmir (ULDD) (March-2014 Till date.)
- Coordinated Entrance Test in the Faculty of Sciences (2000-2002)
- Incharge Museum, Department of Botany(2000-2008)
- Incharge Botanical Society(2000-2010)
- Incharge Kashmir University Botanical Garden from (22-9-2011-Till date).
- Deputy Co-ordinator SAP, Department of Botany
- Member Departmental Research Committee Department of Botany & Bio-resources.
- Member Board of Undergraduate Studies in Botany.
- Member Board of Postgraduate Studies in Botany and Bio-resources.
- Executive Member Kashmir University Teachers Association(2008-2009) and (2011- till date)
- Co-ordinator admission PG courses in Bio resources.
- Member Departmental Purchase Committee, Department of Botany & Bio-resources.

Examination work attended

- Conduct of M.Phil & PG level examinations in Botany.
- Conduct of PG Practical Examination as Internal and External Examiner in Botany & Bio-resources.
- Conduct of UG Practical Examination as External Examiner in various colleges of the Kashmir Province.
- Conduct of PG entrance examination in the University of Kashmir.
- Setting of M.Phil, PG and UG level question papers in Botany.
- Evaluation of PG and UG Subjects in Botany and Bio-resources.
- Evaluation of M.Phil/Ph.D theory papers in Botany.

RESEARCH FELLOWSHIPS/EXPERIENCE/HONOURS

- Junior research fellow (1-09-1988 to 31- 08-1990) under Department of Environment (Govt., of J&K) Project entitled "Impact of Deweeding on Dal Lake Ecosystem".
- Senior research fellow (3-12-1991 to 27-11- 1994) under CORD Project, entitled "*In-vitro* studies on some threatened medicinal plant species of Kashmir valley."
- Worked as JTA from 1995-1999 in CORD (Centre of Research for Development, University of Kashmir) on a research project, entitled

“*In-vitro* studies on some economically important and rare herbaceous plants of Kashmir”.

- Awarded Grade **Excellent** from IQAC, university of Kashmir for teaching at P.G level for the academic session 2006.

MEMBER OF SCIENTIFIC SOCIETIES

- Jammu and Kashmir Academy of Sciences
- Indian Botanical Society
- The Academy of Plant Sciences, India
- The orchid society of India-Chandigarh.
- Biotech. Research Society of India.

COURSES/SEMINARS/CONFERENCES ATTENDED

1. Advanced Research Training in “Techniques in Modern Biology” at Regional Research Laboratory (CSIR) Jammu (April 8-19, 1996)
2. 3-day interactive meeting on Biotechnology and Bioinformatics for Development of Biotechnology Projects of Relevance to Jammu and Kashmir at Sheri-Kashmir International Conference Hall, Srinagar (June 3-5, 1999).
3. General Orientation Course conducted by Academic Staff College University of Kashmir, Hazratbal, Srinagar (June 19-July 18, 2000).
4. Seminar on “Relevance of Entrance test in higher education” organized by Kashmir University Teachers Association, Srinagar (July 26-27, 2002).
5. National Seminar on “Recent Research Trends in Life Sciences” organized by CORD, University of Kashmir, Hazratbal, Srinagar. (August 26-28, 2002).
6. Science Seminar on “Basics in Biotechnology organized by Jammu and Kashmir State Council for Science and Technology. (July 28-30, 2003).
7. National Seminar on “Recent advances in Plant Science Research,” organized by Department of Botany University of Kashmir, Hazratbal, Srinagar. (October 12-14, 2003).
8. One day workshop on wildlife management and conservation in Kashmir. Department of Wildlife Protection J&K Government and Centre of Research for Development, University of Kashmir, Srinagar (October 6, 2004).
9. Workshop on “Kashmir as Biobusiness Centre” for Production of high value essential oils. RRL, Sanat Nagar, Srinagar. (April 4-5, 2005).
10. Second J&K science congress. The University of Kashmir, Hazratbal, Srinagar in collaboration with J&K State DST & DST GOI, July (25-27, 2006).
11. Refresher Course in Biosciences (Inter-disciplinary) conducted by Academic Staff College, The University of Kashmir, Hazratbal, Srinagar (December 3-29, 2007).
12. 4th JK Science Congress, University of Kashmir, Hazratbal, Srinagar in collaboration with J&K State Council for Science and technology, DST GOI & CSIR GOI, (November 12-14, 2008).

13. Winter School Refresher Course in Basic Sciences. Academic Staff College, University of Kashmir, Hazratbal, Srinagar Kashmir – 190006 (January 19 to February 9, 2009).
14. National Conference on Biodiversity: Present Status and Future Challenges. Organized by Department of Botany University of Kashmir, Hazratbal Srinagar (March 12-14, 2009).
15. 6th JK Science Congress on Science, Technology and Sustainable Development, organized by University of Kashmir, Srinagar in collaboration with Department of Science and Technology, Govt. of India and Jammu and Kashmir Academy of Sciences (Dec. 2-4, 2010).
16. World Arbour Day Celebrations organized by Department of Botany University of Kashmir Hazratbal Srinagar (March 22nd, 2011).
17. International Day for Biodiversity organized by Department of Botany University of Kashmir Hazratbal Srinagar (May 23rd, 2011).
18. Workshop on Sustainable Utilization of Medicinal and Aromatic Plants of Kashmir Himalaya for Regional Development organized by Department of Botany University of Kashmir Hazratbal Srinagar (Oct. 15, 2011).
19. National Conference on Orchids in India: Diversity, Characterization and Resource Development for community Livelihood & Orchid Show. Organized by National Academy of Sciences India (NASI) Allahabad and TOSI Chandigarh at (NASI) Allahabad (Dec. 21-23, 2011).
20. 8th JK Science Congress on Science, Technology & Regional Development: Opportunities & Challenges organized by University of Kashmir in collaboration with State Council of Science and Technology (Sep. 17- 19 2012).
21. International Conference on Industrial Biotechnology, 9th convention of Biotech Research society, India and Indo- Italian workshop on Food Biotechnology; Industrial Processing, safety and health Organized by Department of Biotechnology Punjabi University Patiala (Nov. 21-23, 2012).
22. National dialogue on Orchid Conservation & Sustainable Development for Community Livelihood organised by National Research Centre for Orchids, Pakyong-Sikkim in collaboration with The Orchid Society of India-Chandigarh at Chintan Bawan Gangtok-Sikkim (March 8-9, 2013).
23. International Day for Biological Diversity organized by Department of Botany University of Kashmir Hazratbal –Srinagar (May 22, 2013).
24. Innovations in Science Pursuit for Inspired Research (INSPIRE-2013) organized by Department of Botany University of Kashmir (September 7-11, 2013).
25. National Conference on Plant Biology-Plants, People and Planet-NCPB (2013) Organized by Department of Botany Bangalore University (September 24-27th 2013).
26. National Science Day-2013 “Genetically Modified Foods and Food Security” Organized by Department of Botany University of Kashmir, Srinagar. (14th of September 2013).
27. 9th JK Science Congress & Regional Science Congress on Innovations and Advances in Science and Technology organized by University of Kashmir (October 1-3, 2013).
28. Science Academies Lecture Workshop “Himalayan Biodiversity and

Bioresources: Mapping, Utilization and Conservation” Organized by Department of Botany University of Kashmir, Indian Academy of Sciences (Bangalore), Indian National Science Academy (New Delhi) and National Academy of Sciences (Allahabad, May, 08-10 2014).

29. National Conference on *Orchids Science and Commerce: Integration of Medicinal Orchids, Sustainable Development and Societal Benefits & Orchid Show*, organized The orchid society of India (TOSI), Department of Botany, Panjab University, Chandigarh – 160 014 (u.t.) jointly with School of Biotechnology, Shri mata vaishno Devi (SMVD) University, Kakryal, Katra- 182 320 (J&K-, February 13-15, 2015).
30. 10th JK Science Congress. Science and Technology for Inclusive Development: A Way Forward. Organized by University of Jammu and J&K State Council for science and Technology. March 14-16, 2015.
31. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi. April 1-2, 2015.
32. 11th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Innovation Council and Department of Science & Technology, Govt of India. October 12-14, 2015
33. **Five Days** Training on Capacity Building in Cultivation, Propagation of Rare, Endangered and threatened commercially important medicinal plants growing in cold desert area of Himalaya (Ladakh and Kargil). Organised by University of Kashmir in collaboration with National Medicinal Plants Board Govt. of India. October 28–November 01, 2015
34. National Conference cum Workshop On Orchids-Advances in Orchid Biology with Focus on Climate Change, Medicinal and Floricultural Plants and Sustainable Economic Utilization. Jointly organized by The Orchid Society of India-Chandigarh and at Dr. Y.S.R Horticultural University, Venkataramannagudem, West Godavari District, Andhra Pradesh. 26-28 February, 2016.
35. 13th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Innovation Council and Department of Science & Technology, Govt of India. 2-4 October, 2018.
36. 1st International Conference on Recent Developments in Science, Humanities & Management -2018, organized by Cluster University, Srinagar (Amar Singh College) in collaboration with Conference World. 17-18 April, 2018.

Invited Lectures, Radio Talks and Chairmanships at conferences/ seminars/ workshops/ symposia etc.

S. No	Title of Lecture/Academic Session	Title of Conference/Seminar/workshop/symposium etc.	Organized by	Whether/National/State / Regional/
01	Basics in Biotechnology (2003)	District Level Children's Science Congress.	Jammu & Kashmir State Council for Science & Technology	Regional Level
02	Chaired a Technical Session in Life Sciences and Applied Biosciences(2006)	2 nd J&K Science Congress	University of Kashmir in Collaboration with J&K State DST and DST Govt. of India	State Level
03	Chaired a Technical Session in Life Sciences, Botany(2008)	4 th J&K Science Congress	University of Kashmir in Collaboration with DST Govt. of India, J&K State Council for Science & Technology and CSIR,GOI	State Level
04	Role of Tissue Culture in regeneration and <i>ex situ</i> conservation of plants(2010)	International Day for Biological Diversity Biodiversity, Development &Poverty Alleviation	Department of Botany University of Kashmir, Srinagar, J&K India.	State Level
05	Chaired a Technical Session in Life Sciences and Applied Biosciences (2010)	6 th J&K Science Congress.	University of Kashmir in Collaboration with J&K State Council for Science & Technology, DST GOI and Jammu and Kashmir Academy of Sciences.	State Level
06	Chaired a Technical Session in Plant Sciences (2012)	8 th J&K Science Congress	University of Kashmir in Collaboration with J&K State Council for Science & Technology and D.S.T Govt. of India.	State Level
07	Present and Past status of <i>Betula utilis</i> D. Don growing in Kashmir Himalaya, its importance and conservation strategies. 09-02-2013 09:30 PM	A Serial on Environmental Awareness entitled " <i>Darti kai Badaltay Rang</i> "	All India Radio, Srinagar.	National Level
08	Present and Past status of <i>Morus nigra</i> L. in Kashmir, its importance and conservation strategies. 09-02-2013 09-30-PM	A Serial on Environmental Awareness entitled " <i>Darti kai Badaltay Rang</i> "	All India Radio, Srinagar.	National Level
09	Present and Past status of <i>Dactylorhiza hatageria</i> D. Don Soo in Kashmir Himalaya, its importance and conservation strategies. 16-02-2013 09-30PM	A Serial on Environmental Awareness entitled " <i>Darti kai Badaltay Rang</i> "	All India Radio, Srinagar.	National Level

10	Present and Past status of some species of <i>Artemesia</i> growing in Kashmir, their medicinal importance and conservation strategies. 16-02-2013 09-30PM	A Serial on Environmental Awareness entitled “ <i>Darti kai Badaltay Rang</i> ”	All India Radio, Srinagar.	National Level
11	Delivered a lecture on the topic, Hands on: Tissue culture	INSPIRE-2013	University of Kashmir sponsored by Department of Science & Technology Govt. of India.	State Level
12	Chaired a Technical Session in Plant Sciences (2013)	9 th J&K Science Congress & Regional Science Congress	University of Kashmir in Collaboration with J&K State Council for Science & Technology and D.S.T Govt. of India.	State Level
13	Chaired a Technical Session in Science Academies Lecture Workshop (2014)	Science Academies Lecture Workshop “Himalayan Biodiversity and Bioresources: Mapping, Utilization and Conservation”	Department of Botany University of Kashmir, Indian Academy of Sciences (Bangalore), Indian National Science Academy (New Delhi) and National Academy of Sciences (Allahabad).	State Level
14	Chaired a Technical session in National Orchid Conference(2015)	National Conference on <i>Orchids Science and Commerce: Integration of Medicinal Orchids, Sustainable Development and Societal Benefits & Orchid Show</i>	The orchid society of India (OSI), Department of Botany, Panjab University, Chandigarh – 160 014 (u.t.) jointly with School of Biotechnology, Shri Mata Jai Shri Devi (SMVD) University, Kakryal, Katra J&K-India	National Level
15	Chaired a technical session in Plant Sciences (2015)	11 th Jk Science Congress -Scientific, Social & Economic Dimensions of Climate Change.	University of Kashmir and J&K State Science, Technology & Innovation Council and Department of Science & Technology, Govt of India.	State Level
16	Delivered a lecture on topic Cultivation and <i>in vitro</i> propagation of Medicinal Plants(2015)	Five Days Training on Capacity Building in Cultivation, Propagation of Rare, Endangered and threatened commercially important medicinal plants growing in cold desert area of Himalaya (Ladakh and Kargil).	University of Kashmir in collaboration with National Medicinal Plants Board Govt. of India	State Level

17	Chaired a technical session in National Conference cum Workshop On Orchids(2016)	Advances in Orchid Biology with Focus on Climate Change, Medicinal and Floricultural Plants and Sustainable Economic Utilization	Jointly organized by The Orchid Society of India-Chandigarh and at Dr. Y.S.R Horticultural University, Venkataramannagudem, West Godavari District, Andhra Pradesh.	National level
15	Chaired a technical session in Plant Sciences (2018)	13 th Jk Science Congress -Scientific, Social & Economic Dimensions of Climate Change.	University of Kashmir and J&K State Science, Technology & Inovation Council and Department of Science & Technology, Govt of India.	State Level
16	Chaired a technical session in Plant Sciences (2018)	1 st International Conference on Recent Developments in Science, Humanities & Management.	Cluster University, Srinagar (Amar Singh College) in collaboration with Conference World. 17-18 April, 2018.	International Level

Abstracts Presented/Published

1. **Zahoor A. Kaloo**, Azra N. Kamili, Bilquis Qadri and A.M. Shah. Synthesis of terpenoids in callus Cultures of *Artemisia annua*. *National Saminar on Recent Research Trends in Life Sciences organised by Centre of Research for Development, University of Kashmir, Srinagar. 26-28 August 2002*
2. Nahida Chisti, A.S. Shawl and **Zahoor A. Kaloo**. Clonal propagation of *Mentha arvensis* L. through nodal explant. *National Saminar on Recent Advances in Plant Science Research organised by the Department of Botany, University of Kashmir, Srinagar. 12-14 October 2003*
3. Nahida Chisti, A.S. Shawl, Phalisteen Sultan, **Zahoor A. Kaloo** and F.A. Khan. *In vitro* organogenesis in *Lavendula officinalis* **Chaik**-A multipurpose plant of industrial importance. *National Saminar on Recent Advances in Plant Science Research organised by the Department of Botany, University of Kashmir, Srinagar. 12-14 October 2003*
4. Rukhsana Akhtar, **Zahoor A. Kaloo** and B.A. Wafai. *In vitro* studies on *Viola odorata* Linn. Problems and Prospects. *National Saminar on Recent Advances in Plant Science Research organised by Department of Botany, University of Kashmir, Srinagar. 12-14 October 2003.*
5. Nahida Chisti, A.S. Shawl, **Zahoor A. Kaloo** and Phalisteen Sultan. Clonal propagation and quality profile of *in vitro* and *in vivo* raised plants of *Pelargonium graveolens* L. **Herit** (Rose Scented Geranium). *Second J&K Science Congress organised by University of Kashmir in collaboration with J&K State DST & DST GOI, 25-27 July 2006*
6. **Zahoor A. Kaloo** Nahida Chisti, and A.S. Shawl. A comparative study of the essential oil composition of *in vitro* and *in vivo* raised Geranium (*Pelargonium graveolens* L. **Herit**) growing in Kashmir. *Second J&K Science Congress organised by University of Kashmir in collaboration with J&K State DST & DST GOI, 25-27 July 2006*
7. Mehbooba Zaki & **Zahoor A. Kaloo**. Micropropagation of *Morus nigra* L. through *in vitro* culture of Nodal Segments. *4th J&K Science Congress organised by University of Kashmir in collaboration with Dept. of Science and Technology, Govt. of India, J&K State Council for Science & Technology and Council for Science and Industrial Research, GOI, 12-14 November 2008*
8. Mehbooba Zaki, **Zahoor A. Kaloo** and Subzar A. Reshi. Callus regeneration in *Betula utilis* D. Don (Birch) from leaf explants excised from field grown young seedlings. *4th J&K Science Congress organised by University of Kashmir in collaboration with Dept. of Science and Technology, Govt. of India, J&K State Council for Science & Technology and Council for Science and Industrial Research, GOI, 12-14 November 2008*

9. Nahida Chisti, **Zahoor A. Kaloo** and A.S. Shawl. Comparative study of the chemical composition of *Artemisia dracuncululus* L. Essential oil under *in vitro* and *in vivo* condition. 4th J&K Science Congress organised by University of Kashmir in collaboration with Dept. of Science and Technology, Govt. of India, J&K State Council for Science & Technology and Council for Science and Industrial Research, GOI, 12-14 November 2008
10. Mehbooba Zaki and **Zahoor A. Kaloo**. Effect of HgCl₂ treatment period on surface sterilization of various Explants of *Morus nigra* L. cultured from field grown mature plants. 4th J&K Science Congress organised by University of Kashmir in collaboration with Dept. of Science and Technology, Govt. of India, J&K State Council for Science & Technology and Council for Science and Industrial Research, GOI, 12-14 November 2008
11. Zafrul Haq, **Zahoor A. Kaloo** and Subzar A. Reshi. Regeneration of shoots from nodal explants of *Pyrus pyrifolia* **Burn.F** Nakai. National Conference on Biodiversity: Present Status and Future Challenges organised by Department of Botany, University of Kashmir, Srinagar. 26-28, March 2009
12. Mehbooba Zaki and **Zahoor A. Kaloo**. Micropropagation through axillary buds excised from field grown mature tree of *Morus nigra* L. National Conference on Biodiversity: Present Status and Future Challenges organised by Department of Botany, University of Kashmir, Srinagar. 26-28, March 2009
13. Subzar A. Reshi, **Zahoor A. Kaloo** and Zafrul Haq. Effect of 2,4-D on callus regeneration in leaf explants of *Elsholtzia ciliata* (**Thurnb**) **Hyland**. National Conference on Biodiversity: Present Status and Future Challenges organised by Department of Botany, University of Kashmir, Srinagar. 26-28, March 2009
14. Mehbooba Zaki and **Zahoor A. Kaloo**. Micropropagation of *Betula utilis* **D. Don** (Birch) from shoot tips excised from field grown young seedlings. National Conference on Biodiversity: Present Status and Future Challenges organised by Department of Botany, University of Kashmir, Srinagar. 26-28, March 2009
15. **Zahoor A. Kaloo**. Role of tissue culture in regeneration and *ex situ* conservation of plants. International Day for Biological Diversity organised by Department of Botany, University of Kashmir, Srinagar. 22 May, 2010.
16. Gowhar A. Shapoo, **Zahoor A. Kaloo** & Seema Singh. *In vitro* seed germination and Protocorm development in *Spiranthes lancea*. 6th JK Science Congress on Science, Technology and Sustainable Development organised by University of Kashmir, Srinagar in collaboration with Department of Science and Technology, Govt. of India and Jammu and Kashmir Academy of Sciences. 2-4 Dec. 2010.

17. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh and Burhan M. Padder. *In vitro* seed germination and development of Protocorms in two orchid species-*Epipactis royleana* **Lindl.** and *Dactylorhiza hatagirea* **D.Don Soo**, growing in Kashmir Himalaya. *National conference on orchids in India: Diversity, Characterization and Resource Development for Community Livelihood & Orchid show at National Academy of Sciences (NASI) – Allahabad, organised by The Orchid Society of India (TOSI) Department of Botany, Panjab University, Chandigarh & National Academy of Sciences – Allahabad, India 21-23 Dec. 2011.*
18. Gowhar A. Shapoo, **Zahoor A. Kaloo** and Seema Singh. Micro propagation and conservation of important medicinal and aromatic plants. Workshop on Sustainable Utilization of Medicinal and Aromatic Plants of Kashmir Himalaya in Regional Development. Organized by Department of Botany University of Kashmir Srinagar assisted by UGC, New Delhi under SAP Programme 15 Oct. 2011.
19. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Aijaz H. Ganie, Burhan M. Padder, Samar Amin and Tabinda Altaf. Distribution, habit, habitat and importance of some orchid species growing in Kashmir Himalaya. *8th JK Science Congress on Science, Technology & Regional Development: Opportunities & Challenges organized by Kashmir University in Collaboration with State Council of Science and Technology 17- 19 Sep 2012.*
20. Burhan M. Padder, **Zahoor A. Kaloo**, Seema Singh and Gowhar A. Shapoo. “*In vitro* regeneration of *Epipactis helleborine* a medicinally important Orchid”. *8th JK Science Congress “Science, Technology and Regional Development: Opportunities and Challenges” Organised by Kashmir University in collaboration with State Council of Science and Technology, 17-19 Sept. 2012.*
21. Samar Amin, **Zahoor A. Kaloo**, Seema Singh and Tabinda Altaf. BAP induced Callus production in *Inula royleana* **DC.** - an important medicinal plant of Kashmir Himalaya. *8th JK Science Congress on Science, Technology & Regional Development: Opportunities & Challenges organized by University of Kashmir in collaboration with State Council of Science and Technology 17-19 Sep 2012.*
22. Tabinda Altaf , **Zahoor A. Kaloo**, Seema Singh, Samar Amin, Gowhar A. Shapoo and Burhan M. Padder. Somatic embryogenesis from Corolla explants in *Gentiana kurroo* **Royle.** *8th JK Science Congress on Science, Technology & Regional Development: Opportunities & Challenges organized by university of Kashmir in collaboration with State Council of Science and Technology 17- 19 Sep 2012*
23. Tabinda Altaf, **Zahoor A. Kaloo**, Seema Singh, Samar Amin, Gowhar A. Shapoo and Burhan M. Padder. Effect of growth medium on *in vitro* seed germination in *Gentiana kurroo* **Royle.** *8th JK Science Congress on Science, Technology & Regional Development: Opportunities & Challenges organized by Kashmir University in collaboration with State Council of Science and Technology 17- 19 Sep 2012.*
24. Hadiya Shafi, Irshad A. Nawchoo and **Zahoor A. Kaloo.** *Fritillaria roylei* **Hook.F.**-An important medicinal herb of Kashmir Himalaya. *8th JK Science Congress on Science, Technology & Regional Development: Opportunities & Challenges organized by University of Kashmir in collaboration with State Council of Science and Technology 17- 19 Sep 2012*

25. Asma Banday, Irshad A. Nawchoo and **Zahoor A. Kaloo**. Domestication and *in vivo* propagation of High altitude medicinal herb *Jurinea dolomiaea* **Boiss.** 8th JK Science Congress on Science, Technology & Regional Development: Opportunities & Challenges organized by University of Kashmir in collaboration with State Council of Science and Technology 17- 19 Sep 2012.
26. Samar Amin, **Zahoor A. Kaloo** and Seema Singh. *In vitro* studies on *Inula royleana* **DC.**- a threatened medicinal herb native to Kashmir Himalaya. *International Conference on Industrial Biotechnology, 9th convention of Biotech Research society, India and Indo- Italian workshop on Food biotechnology; Industrial Processing, safety and health organized by Department of Biotechnology Punjabi University Patiala 21-23 Nov 2012.*
27. Tabinda Altaf, **Zahoor A. Kaloo**, Seema Singh and Gowhar A. Shapoo. Micropropagation of *Gentiana kurroo* **Royle** through *in vitro* Seed germination - a threatened endemic medicinal herb of Kashmir Himalaya. *International Conference on Industrial Biotechnology, 9th Convention of Biotech Research society, India and Indo-Italian workshop on Food biotechnology; Industrial Processing, safety and health organised by Department of Biotechnology, Punjabi University Patiala 21-23 Nov2012*
28. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Aijaz H. Ganie, Burhan M. Padder, Samar Amin and Tabinda Altaf. Evaluation of diversity and habitat types of some orchid species growing in Kashmir Himalaya. *National Dialogue on Orchid conservation and sustainable Development for community Livelihood. at Sikkim Organised by National Research Centre for Orchids, Pakyong and TOSI Chandigarh India. 8-9 March 2013*
29. Burhan M. Padder, **Zahoor A. Kaloo**, Seema Singh and Gowhar A. Shapoo. Role of tissue culture in mass multiplication of temperate orchids of Kashmir Himalaya: A Review. *National Dialogue on Orchid conservation and sustainable Development for community Livelihood. at Sikkim Organised by National Research Centre for Orchids, Pakyong and TOSI Chandigarh India. 8-9 March 2013*
30. Burhan M. Padder, **Zahoor A. Kaloo**, Seema Singh and Gowhar A. Shapoo. Micro propagation of Orchids growing in Kashmir Himalaya. *National Dialogue on Orchid conservation and sustainable Development for community Livelihood. at Sikkim Organised by National Research Centre for Orchids, Pakyong and TOSI Chandigarh India. 8-9 March 2013*
31. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Aijaz H. Ganie Habitat diversity, importance, *ex situ* propagation and conservation strategies of some orchid species growing in Kashmir Himalaya. International Day for Biological Diversity organized by Department of Botany University of Kashmir Hazratbal –Srinagar (May 22, 2013).
32. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Aijaz H. Ganie and Burhan M. Padder. Diversity, ethno botanical importance and *ex situ* conservation strategies of temperate orchids growing in Kashmir Himalaya. *National Conference on Plant Biology “Plants, People and Planet” Organised by Department of Botany Bangalore University. 24-27 September 2013.*

33. Burhan M. Padder, **Zahoor A. Kaloo**, Seema Singh , Gowhar A. Shapoo and Mudasar Ganaie. *In vitro* asymbiotic germination of immature seed and protocorm formation in *Dactylorhiza hatagirea* (D.DON) Soo. *National Conference on Plant Biology "Plants, People and Planet"* Organised by Department of Botany Bangalore University. 24-27 September 2013.
34. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Aijaz H. Ganie and Burhan M. Padder. Rapid *in vitro* protocol for seed germination and development of Protocorm Like Bodies in *Oreorchis micrantha* Lindl.-An important orchid species of Kashmir Himalaya. *9th JK Science Congress & Regional Science Congress "Innovations and Advances in Science and Technology"*. Organised by University of Kashmir in Collaboration with JK State Council for Science and Technology & DST Govt. of India. 1-3 October 2013.
35. Burhan M. Padder, **Zahoor A. Kaloo**, Seema Singh , Meenaza Manzoor, Gowhar A. Shapoo and Mudasar Ganaie. Auxin induced germination and seedling development from rhizome sections of *Spiranthes sinensis* (Pers.) Ames: A Vulnerable orchid of Kashmir Himalaya. *9th JK Science Congress & Regional Science Congress "Innovations and Advances in Science and Technology"*. Organised by University of Kashmir in Collaboration with JK State Council for Science and Technology & DST Govt. of India. 1-3 October 2013.
36. Mehroofa Jan, Seema Singh, **Zahoor A. Kaloo** and Farhana Maqbool. Multiple shoot induction from leaf explants of *Ajuga bracteosa* Wall ex Benth. an important medicinal plant growing in Kashmir Himalaya. *9th JK Science Congress & Regional Science Congress "Innovations and Advances in Science and Technology"*. Organised by University of Kashmir in Collaboration with JK State Council for Science and Technology & DST Govt. of India. 1-3 October 2013.
37. Sabreena Rashid, **Zahoor A. Kaloo**, Seema Singh and Iram Bashir. *In vitro* plantlet regeneration from embryo culture of *Rheum webbianum* Royle-A threatened alpine medicinal plant of Kashmir Himalaya. *9th JK Science Congress & Regional Science Congress "Innovations and Advances in Science and Technology"*. Organised by University of Kashmir in Collaboration with JK State Council for Science and Technology & DST Govt. of India. 1-3 October 2013.
38. Sameena Wani, Manzoor A. Shah, **Zahoor A. Kaloo**, Aijaz H. Ganie and Bilal A. Tali. Distribution and Mycorrhizal status of some important medicinal plant species of Kashmir Himalaya. *9th JK Science Congress & Regional Science Congress "Innovations and Advances in Science and Technology"*. Organised by University of Kashmir in Collaboration with JK State Council for Science and Technology & DST Govt. of India. 1-3 October 2013.
39. Hadiya Shafi, Irshad A. Nawchoo and **Zahoor A. Kaloo**. Studies on habitat characteristics, growth pattern, distribution and phenology to develop *ex situ* conservation strategies for *Fritillaria roylei* Hook.f. *9th JK Science Congress & Regional Science Congress "Innovations and Advances in Science and Technology"*. Organised by University of Kashmir in Collaboration with JK State Council for Science and Technology & DST Govt. of India. 1-3 October 2013.

40. Asma Banday, Irshad A. Nawchoo and **Zahoor A. Kaloo**. Spatio-temporal differences in demography, phenology and floral traits in *Jurinea dolomiaea* Boiss.-Implication for its conservation. 9th JK Science Congress & Regional Science Congress “Innovations and Advances in Science and Technology”. Organised by University of Kashmir in Collaboration with JK State Council for Science and Technology & DST Govt. of India. 1-3 October 2013.
41. Mudasar Ahmad, Vaseem Raja, Wani Mubashir, Zahida Qasim, S.M.Wani, **Zahoor A. Kaloo** and R. Gazala. Bio-Management of Root ROT OF Pea (*Pisum sativum* L.). 9th JK Science Congress & Regional Science Congress “Innovations and Advances in Science and Technology”. Organised by University of Kashmir in Collaboration with JK State Council for Science and Technology & DST Govt. of India. 1-3 October 2013.
42. Nadeem Salaam, Mir Zahoor ud Din, Zafar A. Reshi, Manzoor A. Shah, **Zahoor A. Kaloo**. Ecological Niche Modelling as a pivotal tool in delimiting the niche compatible zones for *Aqueligia nivalis* Falc. Ex Baker. 9th JK Science Congress & Regional Science Congress “Innovations and Advances in Science and Technology”. Organised by University of Kashmir in Collaboration with JK State Council for Science and Technology & DST Govt. of India. 1-3 October 2013.
43. Mir Zahoor ud Din, Nadeem Salaam, Zafar A. Reshi, **Zahoor A. Kaloo** and Manzoor A. Shah Predicting the geographical distribution of *Artemisia amygdalina* Decne, an important medicinal herb of Western Himalayas under current climate patterns using Ecological Niche Modelling approach.. 9th JK Science Congress & Regional Science Congress “Innovations and Advances in Science and Technology”. Organised by University of Kashmir in Collaboration with JK State Council for Science and Technology & DST Govt. of India. 1-3 October 2013.
44. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Gowhar A. Shapoo, Aijaz Hassan Ganie and Burhan M. Padder. Some Orchid species of Kashmir Himalaya and their economic importance. National Conference on Orchids- Conservation, Improvement and Sustainable Development, organized by TOSI jointly with and at Kerala Agriculture University, Vellanikkara, Thrissur (Kerala), 13-15, March 2014.
45. Burhan M. Padder, **Zahoor A. Kaloo**, Seema Singh, Gowhar A. Shapoo Mudasar Ganaie. *In vitro* asymbiotic seed germination leading to protocorm formation in *Cephalanthera longifolia*(L.)Fritsch an endangered orchid of Kashmir Himalaya.National Conference on Orchids- Conservation, Improvement and Sustainable Development, organized by TOSI jointly with and at Kerala Agriculture University, Vellanikkara, Thrissur (Kerala), 13-15, March 2014.
46. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Aijaz Hassan Ganie, Seema Singh, and Burhan M. Padder. Phenotypic variability in relation to altitude in *Dactylorhiza hatagirea* D. Don (Soo), an important orchid species growing in Kashmir Himalaya. National Conference on Orchids Science and Commerce: Integration of Medicinal Orchids, Sustainable Development and Societal Benefits & Orchid Show, organized The orchid society of India (TOSI), Department of Botany, Panjab University, Chandigarh – 160 014 (u.t.) jointly with School of Biotechnology, Shri mata vaishno Devi (SMVD) University, Kakryal, Katra- 182 320 (J&K)-13-15,February 2015.

47. Burhan M. Padder , **Zahoor A. Kaloo**, Seema Singh, Meenaza Manzoor, Mudasar Ganaie and Gowhar A. Shapoo. Auxin induced germination and plantlet regeneration via rhizome section culture in *Spiranthes sinensis* (Pers.)Ames: A vulnerable medicinal orchid of Kashmir Himalaya National Conference on *Orchids Science and Commerce: Integration of Medicinal Orchids, Sustainable Development and Societal Benefits & Orchid Show*, organized The orchid society of India (tosi), Department of Botany, Panjab University, Chandigarh – 160 014 (u.t.) jointly with School of Biotechnology, Shri mata Vaishno Devi (SMVD) University, Kakryal, Katra- 182 320 (J&K)- 13-15,February 2015.
48. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Aijaz H. Ganie, Bilal A.Tali, Seema Singh, Samar Amin, Shazia Rashid, Burhan M. Padder. Efficient agro-techniques for ex-situ conservation of some prized medicinal orchid species growing in Kashmir Himalaya. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
49. Samar Amin, **Zahoor A. Kaloo** and Seema Singh. Micropropagation *Inula royleana* DC. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
50. Mudasar Ahmad, **Zahoor A. Kaloo**, Ashaquallah Bhat, Bashir A. Ganai, Seema Singh, Burhan M. Padder, Hilal A. Ganai, Mudasir Tantray. Natural bioactives in cancer treatment and prevention.10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
51. Iram Bashir, **Zahoor A. Kaloo**, Seema Singh and Sabreena Rashid. *In vitro* propagation protocol of *Bunium perscium* (Boiss.) B.Fedtsch. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
52. Arisa Nabi, **Zahoor A. Kaloo**, Seema Singh. Callus production from leaf mid rib explants of *Taxus wallichiana* Zucc. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
53. Mahroofa Jan, Seema Singh, **Zahoor A. Kaloo** and Farhana Maqbool. Multiple shoot regeneration from different explants of *Ajuga bracteosa* Wall ex Benth-an important medicinal plant. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
54. Ruqaya Rasool, **Zahoor A. Kaloo** and Seema Singh. Response of different explants of *Delphinium cashmerianum* Royle under *in vitro* conditions. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
55. Farhana Maqbool, Seema Singh, **Zahoor A. Kaloo** and Mahroofa Jan. Shoot regeneration from different explants of *Atropa acuminata* Royle-a threatened medicinal plant species of Kashmir Himalaya. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.

56. Sabreena Rashid, **Zahoor A. Kaloo**, Seema Singh and Iram Bashir. Embryo culture: A technique for the rapid propagation of *Rheum webbianum* Royle. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
57. Jasfeeda Qadir, Seema Singh and **Zahoor A. Kaloo**. Seed germination in *Polygonatum verticillatum* (L.)All. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
58. Sumeet Kour, Seema Singh and Zahoor A Kaloo.Callus production from pedicel explants of *Sassurea costus* (Falc.)Lipsch. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
59. Mehpara Maqsood, Mir Khusurau, **Zahoor A. Kaloo**, Mujib A and Seema Singh. Development of *in vitro* cultures from explants of colchicine producing herb-*Colchicum luteum* Baker.10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
60. Mir Khusurau, Mehpara Maqsood, **Zahoor A. Kaloo** and Mujib A. Differential expression of mir168 and mir169 in *Brassica juncea* under oxidative stress. 10th JK Science Congress, organized by University of Jammu and J&K State Council for science and Technology.14-16, March 2015.
61. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Aijaz H. Ganie, Seema Singh Bilal A. Tali, Samar Amin & Shazia Rashid. Efficient ex- situ conservation strategies for *Dactylorhiza hatagirea* (D.Don)Soo, an important orchid species growing in Kashmir Himalaya. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April,2015.
62. Samar Amin, **Zahoor A. Kaloo** and Seema Singh. *In vitro* propagation strategies for ex- situ conservation of *Inula royleana* DC. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April,2015.
63. Iram Bashir, **Zahoor A. Kaloo**, Seema Singh and Sabreena Rashid. Regeneration from the hypocotyls explant of *Bunium persicum*- A step towards the conservation of this plant. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April,2015.
64. Sabreena Rashid, **Zahoor A. Kaloo**, Seema Singh and Iram Bashir. Embryo culture: A technique for the rapid propagation of *Rheum webbianum* Royle. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April,2015.

65. Seema Singh, Gowhar A Shapoo, Bilal A.Tali, Zafar A. Reshi, **Zahoor A. Kaloo** and Aijaz H.Ganie. Effect of different nutrient media on shoot regeneration from pseudobulbs of *Malaxis mucifera* (Lindl.) Kuntze, an important medicinal orchid species growing in Kashmir Himalaya. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April,2015.
66. Shabeena Yaseen and **Zahoor A. Kaloo**. Antibacterial activity of *Trillium govanianum* Wall. ex. D.Don, an important medicinal plant growing in Kashmir Himalaya. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April,2015.
67. Shazia Rashid, **Zahoor A Kaloo**, Seema Singh and Gowhar A. Shapoo. Efficient *in vitro* regeneration of *Aralia cashemirica* Decne from different explants. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April, 2015.
68. Ruqaya Rasool, **Zahoor A. Kaloo** and Seema Singh. Response of different explants of *Delphinium cashmerianum* Royle under *in vitro* conditions. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April,2015.
69. Sameena Wani, Manzoor A. Shah, **Zahoor A. Kaloo**, Aijaz H.Ganie and Bilal A. Tali. Diversity of Mycorrhizal Fungi in some selected medicinal plants of Kashmir Himalaya. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April,2015
70. Mehpara Maqsood, Mir Khusurau, A. Mujib and **Zahoor A. Kaloo**. Stress condition enhances the accumulation of vinblastine (VB) and vincristine(VC) in *Catharanthus roseus* (L.)D.Don. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April,2015
71. Mir Khusurau, Mehpara Maqsood, **Zahoor A. Kaloo**. Bioprospecting and Biodiversity conservation. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April,2015.
72. Arisa Nabi, **Zahoor A. Kaloo**, Seema Singh. Callus production from leaf mid rib explants of *Taxus wallichiana* Zucc. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi.1-2 April, 2015.

73. Jasfeeda Qadir, Seema Singh and **Zahoor A. Kaloo** and Mehpara Maqsood. *In vitro* seed germination of *Polygonatum verticillatum* (L.) All, an important medicinal plant species growing in Kashmir Himalaya. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi. 1-2 April, 2015.
74. Sumeet Kour, Seema Singh and **Zahoor A. Kaloo**. Standardization of rapid protocols for callus differentiation from different explants of *Sassurea costus* (Falc.) Lipsch, an important medicinal plant growing in Kashmir Himalaya. National Symposium on Biodiversity, Biology & Bioprospecting organized by Department of Botany University of Kashmir, Hazratbal Srinagar in Collaboration with SERB, Department of Science and Technology, New Delhi. 1-2 April, 2015.
75. Burhan M. Padder, **Zahoor A. Kaloo**, Seema Singh, Gowhar A. Shapoo, and Mudasar Ganaie. *Ex-situ* conservation strategies for temperate terrestrial medicinal orchids of Kashmir Himalaya. 11th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Innovation Council and Department of Science & Technology, Govt of India. 12-14 October, 2015.
76. Gowhar A. Shapoo, **Zahoor A. Kaloo** and Aijaz Hassan Ganie. Seed Morphometry of six imperative orchid species growing in Kashmir Himalaya. 11th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Innovation Council and Department of Science & Technology, Govt of India. 12-14 October, 2015.
77. Seema Singh, Gowhar A. Shapoo, Zafar A. Reshi, Aijaz Hassan Ganie, Bilal A. Tali and **Zahoor A. Kaloo**. *Ex-situ* conservation of *Malaxis mucifera* (Lindl.) Kuntze and *Listera ovata* (Linn.) R. Barrow-Two orchid species growing in Kashmir Himalaya. 11th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Innovation Council and Department of Science & Technology, Govt of India. 12-14 October, 2015.
78. Samar Amin, **Zahoor A. Kaloo** and Seema Singh. Effect of cytokinins on multiple shoot regeneration from leaf derived callus of *Inula rotleana* DC. 11th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Innovation Council and Department of Science & Technology, Govt of India. 12-14 October, 2015.
79. Sameena Wani, **Zahoor A. Kaloo**, Manzoor A. Shah, Aijaz Hassan Ganie and Bilal A. Tali. High frequency callus induction and plantlet regeneration from different explants of *Lavatera kashmeriana* Cambress: an endemic medicinal herb of Himalaya. 11th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Innovation Council and Department of Science & Technology, Govt of India. 12-14 October, 2015.
80. Tariq Ahmad Butt, Irshad A. Nawchoo, **Zahoor A. Kaloo**, Aijaz Hassan Ganie, Gowhar A. Shapoo and Sadaf Nazir. Rapid *in vitro* seed germination

protocol for *Delphinium denudatum* Wallich Ex.Hook.F & Thomas:an important and endemic medicinal plant of Kashmir Himalaya. 11th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Inovation Council and Department of Science & Technology, Govt of India. 12-14 October, 2015.

81. Mudasar Ahmad, **Zahoor A. Kaloo**, Bashir A. Ganai, Burhan M. Padder, Hilal A. Ganai, Vaseem Raja, Gowhar A Shapoo and Mubashir A.Wani. Evaluation of Antimicrobial acticvity of aqueous extract of *Aquilegia nivalis* Flac.Ex Jackson.An endemic plant of Kashmir Himalaya. 11th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Inovation Council and Department of Science & Technology, Govt of India. 12-14 October, 2015.
82. Mudasar Ahmad, **Zahoor A. Kaloo**, Bashir A. Ganai and Burhan M. Padder. *Ex –situ* propagation strategies for conservation of *Aquilegia nivalis* Flac.Ex Jackson: An endemic plant of Kashmir Himalaya. 11th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Inovation Council and Department of Science & Technology, Govt of India. 12-14 October, 2015.
83. Mahroofa Jan, Seema Singh, **Zahoor A Kaloo** and Farhana Maqbool. *In vitro* callus induction and shoot regeneration from petiole explants of *Ajuga bracteosa* Wall ex.Benth. 11th JK Science Congress. Scientific, Social & Economic Dimensions of Climate Change. Organised by University of Kashmir and J&K State Science, Technology & Inovation Council and Department of Science & Technology, Govt of India. 12-14 October, 2015.
84. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh and Aijaz Hassan Ganie. A Survey on traditional medicinal uses of *Dactylorhiza hatagirea* D.Don (Soo): an important medicinal orchid species growing in Kashmir Himalaya.Global Unani Confrence on Unani Medicine: “Emerging Trends and Future Prospectus” Organised by Directorate General of Indian Systems of Medicine ,Jammu & Kashmir, India 12-13 October,2015.
85. Hadiya Shafi,Irshad A Nawchoo and **Zahoor A Kaloo**. Assessment of distribution pattern,phenology and ethno medicinal properties to develop conservation and commercialization strategies of *Fritillaria roylei* Hook.F- An important medicinal herb of Kashmir Himalaya. Global Unani Confrence on Unani Medicine: “Emerging Trends and Future Prospectus” Organised by Directorate General of Indian Systems of Medicine, Jammu & Kashmir, India. 12-13 October, 2015.
86. **Zahoor A Kaloo**, Gowhar A Shapoo and Samar Amin. Strategies for *ex-situ* conservation of threatened medicinal and economically important plants of Trans Himalayan (Ladakh region) of Jammu and Kashmir, India.

Five Days Training on Capacity Building in Cultivation, Propagation of Rare, Endangered and threatened commercially important medicinal plants growing in cold desert area of Himalaya (Ladakh and Kargil). Organised by University of Kashmir in collaboration with National Medicinal Plants Board Govt. of India. 28 October-1 November, 2015.

- 87. Zahoor A Kaloo**, Gowhar A Shapoo, Aijaz Hassan Ganie, Seema Singh and Burhan M Padder. Present status of Orchid research in Kashmir Himalaya-India. National Conference cum Workshop on “Advances in Orchid Biology with Focus on Climate Change, Medicinal and Floricultural Plants and Sustainable Economic Utilization” jointly with and at Dr. Y.S.R Horticultural University, Venkataramannagudem, West Godavari District, Andhra Pradesh. 26-28 February, 2016.
- 88.** Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Aijaz Hassan Ganie, Bilal A Tali and Burhan M Padder (2017). Development of efficient *in vitro* protocols for seed germination and Protocorm like bodies in some valued orchid species growing in Kashmir Himalaya. *National conference on Biotechnology & Environment, jointly organised by Department of Biotechnology, Jamia Millia Islamia, New Delhi & National Environmental Science Academy (NESAs), New Delhi, 10-11 April, 2017.*
- 89.** Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Aijaz Hassan Ganie, Bilal A Tali and Burhan M Padder (2017). Diversity, ethno botany and efficient conservation strategies for some valued orchid species growing in Kashmir Himalaya-India. *National seminar on Himalayan Biodiversity “Characterization and Bioprospection for sustainable Utilization organised by Centre for Kashmir Himalayan Biodiversity: Documentation, Bioprospection & Conservation, University of Kashmir, Srinagar, 18-19 September, 2017.*
- 90.** Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Aijaz Hassan Ganie and Bilal A Tali (2017). Development of efficient agro techniques for *ex situ* conservation of *Dactylorhiza hatagirea* (D. Don) Soo; an important orchid species growing in Kashmir Himalaya, India. *National Seminar on Biodiversity and Climate Change: “Challenges and Prospects” organised by Department of Environmental Sciences. Govt. Sheikh-Ul-Alam Memorial (SAM) Degree College, Budgam, 26 October, 2017.*
- 91.** Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Aijaz Hassan Ganie, Bilal A Tali, Samar Amin and Jasfeeda Qadir (2018). Diversity and efficient conservation strategies of some imperative orchid species growing in Kashmir Himalaya India. *Proceedings of the 13th JK Science Congress. Scientific, Social & Economic Dimensions of Climate change. Organised by University of Kashmir and J&K State Science, Technology & Innovation Council and Department of Science & Technology, Govt. of India. 2-4 April, 2018.*

92. Mudasar Ahmad, Tareq A Wani, **Zahoor A. Kaloo**, Bashir A. Ganai, Hilal A Ganaie, Rafiq A Shah, Yaseen A Sheikh. Evaluation of antimicrobial activity of Methanolic extracts of *Mecanopsis aculeata* Royle against human pathogenic bacteria. 13th JK Science Congress. Scientific, Social & Economic Dimensions of Climate change. Organised by University of Kashmir and J&K State Science, Technology & Inovation Council and Department of Science & Technology, Govt of India. 2-4 April, 2018.
93. Gowhar A. Shapoo, **Zahoor A. Kaloo**, Seema Singh, Aijaz Hassan Ganie, Bilal A Tali, Samar Amin and Jasfeeda Qadir. Diversity and efficient conservation strategies of some imperative orchid species growing in Kashmir Himalaya India. Proceedings of the 13th JK Science Congress. Scientific, Social & Economic Dimensions of Climate change. Organised by University of Kashmir and J&K State Science, Technology & Inovation Council and Department of Science & Technology, Govt. of India. 2-4 April, 2018.
94. Tareq Wani, **Zahoor A Kaloo** and Mudasar Ahmad. Molecular cloning of HMGR as a strategy for elevated Aconite Biosynthesis in *Aconitum heterophyllum* Wall Ex Royle. Proceedings of the 13th JK Science Congress. Scientific, Social & Economic Dimensions of Climate change. Organised by University of Kashmir and J&K State Science, Technology & Inovation Council and Department of Science & Technology, Govt. of India. 2-4 April, 2018.
95. Micropropagation of *Rhododendron campanulatum* D. Don by Iram Ashraf Qazi and **Zahoor A Kaloo**. Proceedings of the 13th JK Science Congress. Scientific, Social & Economic Dimensions of Climate change. Organised by University of Kashmir and J&K State Science, Technology & Inovation Council and Department of Science & Technology, Govt. of India. 2-4 April, 2018.

LIST OF PUBLICATIONS

- 1) **Kaloo, Zahoor A.**, Pandit, A.K. and Zutshi, D.P. (1995). Nutrient status and phytoplankton dynamics of Dal Lake under *Salvinia natans*, an obnoxious weed growth, *Oriental Science*, **1** : 73-75. ISSN 0971-703X
- 2) **Kaloo, Zahoor A.** and Shah, A.M. (1997). Plant regeneration from shoot apical tips of *Inula racemosa*- a threatened medicinal plant species, *Oriental Science*, **2** : 17-22. . ISSN 0971-703X
- 3) **Kaloo, Zahoor A.** and Shah, A.M. (1998). In-vitro propagation of *Dioscorea deltoidea*. A rare plant species of medicinal value, *Oriental Science*, **3** (2): 7-12. ISSN 0971-703X
- 4) Kamili, A. N., Shah, A. M. and **Kaloo Zahoor, A.** (1998). Some drug yielding plants of Kashmir. *Communications*. Centre of Distance Education, University of Kashmir, Srinagar, **9**: 70- 75. ISSN 0975-6558.
- 5) Kamili, A.N., **Kaloo, Zahoor A.** and Shah, A.M. (2001). Plant regeneration from callus cultures of *Artemisia annua* **Linn.**, *Journal of Research and Development*, **1** : 100-106.ISSN 0972-5407
- 6) Pandit, A.K., **Kaloo, Zahoor A.** and Sarwar, S.G. (2002). Ecology of an obnoxious weed, *Salvinia natans* **L.** in Dal Lake of Kashmir, *Journal of Research and Development*, **2** : 61-77. ISSN 0972-5407
- 7) **Kaloo, Zahoor A.** and Shah, A.M. (2002). Medicinal plants of Kashmir: Resource regeneration through tissue culture, 439-448. In: A.K. Pandit (Ed.) *Natural Resources of Western Himalaya*. Valley Book House, Srinagar.ISBN 81-86592-11-3
- 8) **Kaloo, Zahoor A.**, Kamili, A.N., Qadri, B. and Shah, A.M. (2004). Biosynthesis of terpenoids in callus cultures of *Artemisia annua*. In: A.N Kamili and A.R. Yousuf (Eds.) *Bioresources: Nature and Conservation*. Centre of Research for Development, University of Kashmir, Srinagar, Kashmir, India. pp. 259-262. ISBN 81-902346-0-9.
- 9) Shawl, A.S., Kumar, T., Shabir, S., Chishti, N. and **Kaloo, Zahoor, A.** (2005). Lavender – A Versatile Industrial Crop in Kashmir. *Indian Perfumer* 46(2): 235-238.ISSN 0019-607X.
- 10) Chishti, N., **Kaloo, Zahoor A.**, Shawl, A.S. and Sultan, P. (2006). Rapid *in vitro* Clonal propagation of *Lavandula officinalis* Chaix. A multipurpose plant of industrial importance. *Pakistan Journal of Biological Sciences*. 9 (3): 514-518.ISSN 1028-8880.
- 11) Chishti, N., **Kaloo, Zahoor A** and Shawl, A. S. (2006). Clonal propagation of *Mentha arvensis* **L.** through nodal explant. *Pakistan Journal of Biological Sciences*. 9(8): 1416-1419. ISSN 1028-8880.
- 12) **Kaloo, Zahoor A.**, Chishti, N. and Shawl, A.S. (2008) Rapid clonal propagation and a comparative study of the essential oil composition of *in vitro* and the *in vivo* raised geranium (*Pelargonium graveolens* **L' Herit**) growing in Kashmir. In: proceedings 4th J&K Science congress M. Z. Chishti and Fayaz Ahmad (Eds.) *Science for Better Tomorrow*. The University of Kashmir, Hazratbal Srinagar, India. PP. 79-86.
- 13) Chishti, S; Chishti, N; **Kaloo, Zahoor A.** and Shawl, A.S. (2009). Comparative study of the chemical composition of *Artemisia dracuncululus* **L.** essential oil under *in vitro* and *in vivo* conditions. *J. Indian Bot. Soc.* 88(1&2): 119-121.ISSN 0019-4468.

- 14) Shabeena, S; **Kaloo, Zahoor A** and Khan S. (2010). Callus induction in leaf and petiole explants of *Viola odorata* **Linn.** *Advances in Plant Sciences.* 23(1): 7-9 ISSN 0970-3586.
- 15) Haq, Z and **Kaloo, Zahoor A** (2010). *In vitro* micro propagation of “sand pear” *Pyrus pyrifolia* (**Burm. F.**) Nakai. *Front. Agric. China.* 4(3):358-361.ISSN 1673-7334.
- 16) Zaki, Mehbooba; **Kaloo, Zahoor A** and Sofi, M.S (2011). Micropropagation of *Morus nigra* **L.** from Nodal Segments with Axillary Buds. *World Journal of Agricultural Sciences* 7(4): 496-503.ISSN 1817-23047.
- 17) Zaki, Mehbooba; Sofi, M.S and **Kaloo, Zahoor A** (2011). A reproducible protocol for raising clonal plants from leaf segments excised from mature trees of *Betula utilis*- a threatened tree species of Kashmir Himalayas. *International Multidisciplinary Research Journal*, 1(5): 07- 13.ISSN 2231-6302.
- 18) Singh, Seema; Virk, G S; **Kaloo, Zahoor A** and Padder, Burhan M (2011). Effective Plant Regeneration in *Petunia hybrida* from corolla derived callus. *Annals of Horticulture.* 4(2):125-130. ISSN. 0974- 8784.
- 19) Singh, Seema; Virk, G S; **Kaloo, Zahoor A** and Padder, M Burhan Shapoo, Gowhar A. (2011).Plant regeneration from calyx derived callus in *Petunia hybrid.* *Journal of Ornamental Horticulture*, 14(3&4):23-26. ISSN 2249- 880x
- 20) Padder, B.A., Agarwal, R.M. and **Kaloo, Zahoor A.** and Singh Seema (2012). Nitrate Reductase Activity Decrease due to Salinity in Mungbean (*Vigna radiata*) **L. Wikzek** Var Hum_1. *International Journal of Current Research and Review.*, Vol. 4(4): 117-124. ISSN 2231- 2196
- 21) Zaki Mehbooba, Sofi Mohammad Shafi & **Kaloo, Zahoor A.** (2012). A reproducible protocol for raising plantlets from leaf segments excised from juvenile branches of *Morus nigra* **L.** a rare tree species of Kashmir Himalayas. *Journal of Phytology.* 4(6):14-20. ISSN: 2075-6240
- 22) Shapoo, Gowhar A. **Kaloo, Zahoor A.** Singh Seema, Ganie Aijaz H. Padder, Burhan M. Samar A and Tabinda, A (2013). *Oreorchis micrantha* **Lindley**: A New Record to Kashmir Valley. *International Journal of Modern Botany.*3 (01)-10-14. ISSN: 2166-5206
- 23) Amin, Samar., **Kaloo, Zahoor A.** Singh Seema and Tabinda, A. (2013). Medicinal importance of genus *Inula* - A Review. *International Journal of current Research and Review.* 5(2)-20-26 ISSN 2231- 2196. I C VALUE=4.18
- 24) **Kaloo Zahoor. A,** Rukhsana, A., Haq-Zafrul and Wafai B.A. (2013). Effect of growth regulators on the *in vitro* multiplication of *Viola odorata*. *International Journal of Medicinal Plant Research.* 2(4)187-189. ISSN2169-303X.
- 25) Shapoo, Gowhar A. **Kaloo. Zahoor A.,** Ganie, Aijaz H. and Singh Seema (2013). Ethnobotanical survey and documentation of some orchid species of Kashmir Himalaya, J&K-India. *International Journal of Pharmaceutical and Biological Research* 4(2)32-40 ISSN: 0976- 285X.
- 26) Padder, B.M., **Kaloo, Zahoor A.,** Singh Seema, Shapoo, Gowhar A. 2013. Role of tissue culture in mass multiplication and conservation of temperate Himalyan orchids. *International Journal of Recent Scientific Research.* 4(7):979-983.ISSN 0976-3032 **IF=1.136 1C VALUE 5.72**

- 27) Amin, Samar., **Kaloo, Zahoor A.**, Singh Seema, Altaf, Tabinda. 2013. Micropropagation of medicinally important plant species of family Asteraceae – a review. *International Journal of Recent Scientific Research* 4:1296- 1303. ISSN 0976-3032 **IF=1.136 1C VALUE 5.72**
- 28) Amin, Samar, **Kaloo, Zahoor A.**, Singh Seema. 2013. Comparative efficiency of different explants for *in vitro* callus production in *Inula royleana* DC. a threatened medicinal plant growing in Kashmir Himalaya. *International Journal of Advanced Research* 1:617-623. ISSN 2320-5407 **1F=1.659 1C VALUE 4.96**
- 29) Shayista, Chishti, **Kaloo Zahoor A.**, Phalestine Sultan.2013. Medicinal importance of Genus *Origanum* – A review. *International Journal of Advanced Research* 1(08).75-84. ISSN 2320-5407 **1F=1.659 1C VALUE 4.96**
- 30) Shapoo, Gowhar A. **Kaloo, Zahoor A.** Singh, Seema, Ganie, Aijaz H. Padder, Burhan M. (2013). *In vitro* seed germination and development of protocorm like bodies (PLB's) in two orchid plant species- *Epipactis royleana* Lindl. and *Dactylorhiza hatagirea* (D.Don) Soo. growing in Kashmir Himalaya. *International Journal of Advanced Research* (1) 10,291-295 ISSN: 2320-5407. ISSN 2320-5407 **1F=1.659 IC VALUE 4.96**
- 31) Mahroofa Jan, Seema Singh, **Kaloo, Zahoor A.**, Farhana Maqbool. 2014. Medicinal importance of *Ajuga bracteosa* Wall ex Benth.-A review. *International Journal of Advanced Research* (2) 1, 389-394 ISSN: 2320-5407. ISSN 2320-5407 **1F=1.659 IC VALUE 4.96**
- 32) Farhana Maqbool, Seema Singh, **Kaloo, Zahoor A.**, Mahroofa Jan. (2014). Medicinal importance of Genus *Atropa* Royle-A Review. *International Journal of Advanced Research* (2) 2, 48-54. ISSN: 2320-5407. ISSN 2320-5407 **1F=1.659 IC VALUE 4.96**
- 33) Burhan M. Padder, **Kaloo, Zahoor A.**, Seema Singh, Gowhar A. Shapoo Mudasar Ganaie 2014. *In vitro* asymbiotic seed germination leading to protocorm formation in *Cephalanthera longifolia* (L.)Fritsch an endangered orchid of Kashmir Himalaya. *Journal of Biotechnology* 3(1) 26-30. ISSN 2319-2359.
- 34) Shapoo, Gowhar A. **Kaloo, Zahoor A.** Singh Seema, Ganie, Aijaz H. Padder, Burhan M. (2014). Evaluation of diversity and habitat types of some orchid species growing in Kashmir Himalaya. *Species* 10(22)8-13. **IF=1.4**
- 35) Amin, Samar, **Kaloo, Zahoor A.**, Singh Seema.(2014). Rapid *in vitro* propagation of *Inula royleana* DC. through embryo culture. *Journal of Scientific and Innovative Research*.3 (2)203-206.
- 36) Iram Bashir, **Kaloo Zahoor A.**, Singh Seema & Sabreena Rashid.(2014). Chemical composition & medicinal importance of *Bunium persicum* (Boiss.) B.fedtsch. – A review. *International Journal of Advanced Research* 2(7), 244-247.
- 37) Sabreena Rashid, **Kaloo Zahoor A.**, Singh Seema & Iram Bashir.(2014). Medicinal importance of Genus *Rheum* -A review. *International Journal of Advanced Research* 2 (7), 261-267.

- 38) Farhana Maqbool, Singh Seema, **Kaloo Zahoor A**, Mahroofa Jan and Maryum Meraj. (2014). Callus induction and shoot regeneration of *Atropa acuminata* Royle-a critically endangered medicinal plant species growing in Kashmir Himalaya. *Journal of Scientific and Innovative Research*. 3(3): 332-336.
- 39) Mahroofa Jan, **Singh Seema**, Kaloo Zahoor A and Farhana Maqbool. (2014). Callus induction and multiple shoot regeneration in *Ajuga bracteosa* Wall ex. Benth.-An important medicinal plant growing in Kashmir Himalaya. *Journal of Scientific and Innovative Research* 3(3): 319-324.
- 40) Arshed Iqbal Dar and **Kaloo Zahoor A**(2014). Synergistic Hepatoprotective Effect of *Feronia limonia* L., *Citrullus colocynthis* L., and *Tribulus terrestris* L. against Paracetamol Induced Hepatotoxicity in Swiss Albino Rats. *Journal of Pharmacy and Pharmacology* 2,304-312
- 41) Iram Bashir, **Kaloo Zahoor A**, Singh Seema & Sabreena Rashid. (2015). A rapid *in vitro* propagation protocol of *Bunium persicum* Boiss.)B.Fedtsch. growing in Kashmir, Himalaya. *Species* 12(34):67-72
- 42) Sabreena Rashid, **Kaloo Zahoor A**, Singh Seema & Iram Bashir. (2014).Callus induction and shoot regeneration from rhizome explants of *Rheum webbianum* Royle-a threatened medicinal plant growing in Kashmir Himalaya. *Journal of Scientific and Innovative Research*.3(5):515-518
- 43) Bilal A.Tali, Aijaz Hassan Ganie,Irshad A.Nawchoo and **Kaloo Zahoor A**. (2014).Development of Agro-techniques for some important MAPS of Kashmir Himalaya. *Journal of Research & Development* 14,104-112 ISSN 0972-5407
- 44) Asma Banday, Irshad A.Nawchoo, **Kaloo Zahoor A.**, Peerzada Arshid Shabir and Ali Abbas Rather (2014). Efficient propagation of an endangered medicinal plant *Jurinea dolomiaea* Boiss in the North Western Himalaya using rhizome cuttings under *ex situ* conditions. *Journal of Plant Breeding and Crop Science*. 6(9)114-118.ISSN 2006-9758
- 45) Amin, Samar, **Kaloo Zahoor A.**, Singh Seema. (2015). *In vitro* propagation strategies for *ex-situ* conservation of *Inula royleana* DC., a threatened medicinal plant of Kashmir Himalaya. *Discovery Biotechnology* 6(16), 16-29
- 46) Burhan M. Padder, **Kaloo, Zahoor A.**, Seema Singh, Meenaza Manzoor Mudasar Ganaie and Gowhar A. Shapoo (2015). Auxin induced germination and plantlet regeneration via rhizome section culture in *Spiranthes sinensis* (Pers.) Ames: A Vulnerable medicinal orchid of Kashmir Himalaya. *Journal and Biotechnology and Biochemistry* 1(2):17-20
- 47) Asma Majid, **Kaloo Zahoor A.**,Padder Burhan M and Munshi A.H.(2015).An efficient regeneration protocol for an endangered medicinally important herb *Fagopyrum dibotyrus* growing in Kashmir Himalaya. *International Journal of Biotechnology* 4(1):12-15
- 48) Sumeet Kour, Seema Singh and **Kaloo, Zahoor A** (2015).Conservation strategies of *Sassurea Costus*, Critically endangered medicinal herb growing in Kashmir Himalaya-A Review. *International Journal of Science and Research*. 4(7):257-280

- 49) Mudasar Ahmad, **Kaloo Zahoor A**, Bashir A Ganai, Hilal A Ganaie and Seema Singh (2016). Phytochemical screening of *Meconopsis aculeata* Royle, an important medicinal plant of Kashmir Himalaya: A Perspective Research Journal of Phytochemistry 10(1):1-9
- 50) Shayista, Chishti, Phalestine Sultan, **Kaloo Zahoor A.**, Bilal A. Wani, Mudasir Ahmad (2016). Anti Bacterial Activity and DPTH Scavenging anti Oxidant Potential in *Origanum vulgare* L. *Journal of Scientific and innovative Research*.
- 51) Shayista, Chishti, **Kaloo Zahoor A.**, Mudasir A. Sheikh and Bilal A. Wani (2016). Antifungal activity and phytochemical screening of *Origanum vulgare* L. growing wild in Kashmir Himalaya. *International Journal of Innovative Science, Engineering & Technology*. 3(2) 108-112
- 52) Shayista, Chishti, , **Kaloo Zahoor A.** Phalestine Sultan, Hamida-Tun-Nisa and Nahida-Tun-Nisa (2016). Quantitative analysis of the essential oil of *Origanum vulgare* (L) growing in the Kashmir valley. *International Journal of Applied Research* 2(2):552-557
- 53) Mudasar Ahmad, **Kaloo Zahoor A**, Bashir A Ganai, Hilal A Ganaie and Burhan M Padder (2016). Callus induction studies in *Aquilegia nivalis* Flac Ex Jackson: An endangered medicinal plant of Kashmir Himalaya: A Perspective. *Journal of Plant sciences*. Doi 10:3923/jps;2016
- 54) Hadiya Shafi, Irshad Ahmad Nawchoo, Saqib Ahmad Shah, **Kaloo Zahoor A. (2016)**. Ex Situ Conservation Strategies for *Fritillaria cirrhosa* D. Don (Liliaceae): A Critically Endangered Medicinal Herb of Kashmir Himalaya. *Proc. Natl. Acad. Sci., India Sect. B Biol. Sci.* DOI 10.1007/s40011-016-0726-y
- 55) Shapoo, Gowhar A. **Kaloo, Zahoor A**, Ganie, Aijaz H, Anzar A. Khuroo and Singh Seema (2016). *Dactylorhiza umbrosa* (Kar. & Kir.) Nevski (Orchidaceae): an addition to flora of India from Kashmir Himalaya. *Check List* 12(3):, doi: <http://dx.doi.org/10.15560/12.3.1904>
- 56) Sumeet Kour, Seema Singh, Kaloo Zahoor A and Gowhar A Shapoo and Aijaz H Ganie (2016) Effective Ex Situ Conservation Strategies of *Saussurea Costus* (Falc.) Lipsch An Endangered Medicinal Plant of Kashmir Himalaya" *Saussurea*, 6(5): 342 -349 {ISSN: 0373 - 25}
- 57) Jasfeeda Qadir, Seema Singh and Kaloo Zahoor A. (2017) A review on in vitro propagation of some medicinally important plant species of family Asparagaceae." *International Journal of BioSciences and Technology*, 10(1): 1 -12 {ISSN: 0974 – 398}
- 58) Farhana Maqbool, Seema Singh, **Kaloo Zahoor A** and Mehroofa Jan (2017) A rapid micropropagation protocol of *Atropa acuminata* Royle ex Lindl. — A threatened medicinal plant species of Kashmir Himalaya" *Indian Journal of Biotechnology*, 15(1): 576 -578 {ISSN: 0975-0967} Impact Factor = 0.289
- 59) Mudasar Ahmad, **Kaloo Zahoor A**, Bashir A Ganai, Hilal A Ganaie (2017) Phytochemical Screening of *Aquilegia nivalis* Flax Jackson: An Important Medicinal Plant of Kashmir Himalaya: A Perspective." *Advances in Biomedicine and Pharmacy*, 4(1): 6 -12
- 60) Samar Amin, **Kaloo Zahoor A.**, Singh Seema. (2017). Effect of Cytokinins on Multiple Shoot Regeneration from Leaf Derived Callus of *Inula royleana* DC. *Plant Tissue Cult. & Biotech.* 27(2): 189-194

- 61) Adhikari, D., Reshi, Z., Datta, B. K., Samant, S. S., Chettri, A., Upadhaya, K., Shah, M. A., Singh, P. P., Tiwary, R., Majumdar, K.; Pradhan, A., Thakur, M. L., Salam, N., Zahoor, Z., Mir, S. H., **Kaloo, Zahoor. A.**, Barik, S. K. (2018). Inventory and characterization of new populations through ecological niche modelling improve threat assessment. *Current Science*. 114 (3) 519-531
- 62) Mudasar Ahmad., Tareq A Wani., **Kaloo, Zahoor A.**, Bashir A Ganai, Ubaid Yaqoob and Hilal A Ganaie (2018). Germination studies of critically endangered medicinal angiosperm plant species *Mecanopsis aculeata* Royle endemic to Kashmir Himalaya, India: A multipurpose species. *Medicinal & Aromatic plants*. 7:1
- 63) Samina Wani., **Kaloo Zahoor A.**, M A Shah and Saba Banday (2018). Influence of explants and plant growth regulators on callus mediated regeneration in *Lavatera cashmeriana* Cambess. *Journal of Pharmacognosy and Phytochemistry*. 7 (3) 326-336
- 64) Samina Wani., **Kaloo Zahoor A** and Manzoor A Shah (2018). An efficient *in vitro* regeneration protocol from leaf explants of *Lavatera cashmeriana* Cambess: an important endemic medicinal herb of Kashmir Himalaya. *Discovery Agriculture* 4(1) 1-9
- 65) Iram A Qazi and **Kaloo Zahoor A** (2018). *In vitro* propagation of Kashmir Himalayan Rhododendron (*Rhododendron anthopogon* D.Don). *International Journal of Advanced Research in Science and Engineering*. 7(4) 2136-2141
- 66) Sabreena Rashid, **Kaloo Zahoor A**, Singh Seema & Iram Bashir (2018). *In vitro* plant regeneration from hypocotyl explants of *Rheum webbianum* Royle. *International Journal of Trends in Scientific Research and Development* 2(2) 1135-1139
- 67) Iram Bashir, **Kaloo Zahoor A** and Mahapara Maqsood (2018). Somatic embryogenesis and synthetic seed development in *Bunium persicum* B.Fedtsch. *International journal of Advance Research in Science and Engineering* 7: 1969-1975
- 68) Samar Amin, **Kaloo Zahoor A** and Seema Singh (2018). Comparative Effect of Different Nutrient Media on Regeneration Potential of Petiole Explants of *Inula Royleana* DC., A Multipurpose Plant Species of Kashmir Himalaya. *Asian Journal of Plant Science and Research*. 8(2) 15-18
- 69) Anzar A Khuroo, Gowhar A Shapoo, **Kaloo Zahoor A** and Shah Rafiq (2018). *Goodyera fusca* (Orchidaceae): A new record for Kashmir Himalaya, India. *Lankesteriana*. 18(2) 151-154
- 70) Samar Amin, Tareq A.Wani, **Kaloo Zahoor A**, Seema Singh, Riffat John, Umer Majeed, Gowhar A. Shapoo (2018) Genetic stability using RAPD and ISSR markers in efficiently *in vitro* regenerated plants of *Inula royleana* DC. *Meta gene* 18(1) 100-106
- 71) Iram Bashir, **Kaloo Zahoor A**, Nahida Tun Nisa Chishti, Sabreena Rashid, Nusrath Sayeed (2018). Effect of 6, Benzyl amino purine (BAP) on callus production and shoot regeneration in *Bunium persicum* B.Fedtsch. *International Journal of BioSciences and Technology*. 11(5), 46 – 51

- 72) Alison Betts, Mumtaz Yattoo, Michael Spate, James Fraser, **Kaloo Zahoor A**, Younus Rashid, Anil Pokharia, Guilin Zhang (2019). The Northern Neolithic of the Western Himalayas: New Research in the Kashmir Valley. *Archaeological Research in Asia*.18, 17-39

Research reports

1. Zutshi, D.P., Ticku, A. and **Kaloo, Zahoor A.** (1988-89): Scientific Research Report on the Department of Environment (J&K) State Sponsored project Entitled, “Impact of Deweeding on the Dal Lake Eco-system”. Centre of Research for Development, The University of Kashmir. Srinagar. 190006.
2. Reshi, Zafar, A. **Kaloo, Zahoor A.**, & Shah, M.A. (2013). Scientific and Technical Progress Report (STPR) of the project entitled “Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools”. Department of Botany, The University of Kashmir Srinagar, 190006.
3. Munshi, A. H., **Kaloo Zahoor A.**, Burhan, M Padder. (2013). Scientific and Technical Progress report of the project entitled “cultivation, propagation and genetic diversity of *Fagopyrum* species growing in Kashmir Himalaya and Ladakh for Rutin extraction”. Department of Botany, The University of Kashmir Srinagar, 190006.
4. Reshi, Zafar, A. **Kaloo, Zahoor A.**, & Shah, M.A. (2014). Scientific and Technical Progress Report (STPR) of the project entitled “Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools” Department of Botany, The University of Kashmir Srinagar, 190006.
5. Reshi, Zafar, A. **Kaloo, Zahoor A.**, & Shah, M.A. (2015). Scientific and Technical Progress Report (STPR) of the project entitled “Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools” Department of Botany, University of Kashmir Srinagar, 190006.
6. **Kaloo, Zahoor A**, Ganai Bashir A, Ahmad Mudasar (2016-2017). Mid-Term Evaluation report of the project entitled “Genetic diversity, *in vitro* propagation, molecular characterization and conservation of *Meconopsis* species in Kashmir Himalaya”. Department of Botany, The University of Kashmir Srinagar-190006.

Dr. Zahoor Ahmad Kaloo
Professor
Department of Botany
University of Kashmir