

CURRICULUM VITAE

NAME : **MOHMAD ARIEF ZARGAR**
DESIGNATION : Assistant Professor
POSTAL ADDRESS : Department of Botany, University of Kashmir,
Srinagar-190 006, Jammu & Kashmir, India.
CELL NO. : 9697365607
E-MAIL : arifk@kashmiruniversity.ac.in
ACADEMIC RECORD :

CLASS	YEAR	INSTITUTION
10 th	1992	JK BOSE
11 th	1993	JK BOSE
12 th	1994	JK BOSE
B. Sc.	1997	Kashmir University
M. Sc.	2000	Kashmir University
M. Phil.	2003	Kashmir University
NET	Dec. 2000	CSIR-UGC
<i>One Year South-Asia Postharvest E- Learning Programme</i>	2013	PEF (USA) and Amity University (Noida)

POSITIONS HELD:

Position held	Name of Organisation	Period		Nature of work
		From	To	
Assistant Professor	Department of Botany, University of Kashmir	14-02-2007	Till date	Teaching and Research
Project Fellow	Indian Institute of Integrative Medicine, Srinagar	16-04-2004	15-04-2006	Research in Ethnobotany, Phytochemical Analysis and Cultivation of Medicinal Plants
Lecturer (Contractual)	Govt. Degree College, Bemina	01-03-2004	15-04-2004	Teaching

MAJOR RESEARCH FOCI:

- Post Harvest Physiology and Technology of Cut Flowers and Fruits
- Phytochemical Analysis and Conservation of Medicinal Plants
- Growth Analysis of Some Temperate Crops

COURSES TEACHING/TAUGHT:

Class	Course No.		Course Name	Semester
M. Sc. Botany	Core Courses	Bot-16	Plant Physiology	IV
		Bot-19	Biostatistics and Biotechniques	IV
		Bot-13	Plant Biochemistry	III
	Optional Courses	Bot-15	Crop Physiology-I	III
		Bot-20	Crop Physiology-II	IV
M. Sc. Bioresources	Core Courses	Biores-112	Biostatistics and Biotechniques	III
		Biores - 203	Bio-prospecting	III
M. Sc. Botany (Choice Based Credit System)	Core Courses	Bot-15303 CR	Plant Metabolism	III
		Bot-15401 CR	Plant Physiology	IV
	Department Centric Electives	Bot-DCE 013	Postharvest Technology of Cut Flowers & Fruits	IV
		Bot-14305 EA	Applied Crop Physiology	III
	Generic Electives	Bot-15107 GE	Biostatistics	I
	Open Electives	Bot-14208 EO	Commercial Floriculture	II
		Bot-15111 OE	Fruits of Kashmir	I

PUBLICATIONS:

1. **Zargar Mohmad Arief**, A. S. Shawl and A. H. Munshi. 2016. Altitudinal variation in active principle content, harvest index and yield of wild and cultivated populations of *Epimedium elatum*. *Journal of Applied Research on Medicinal and Aromatic Plants (JARMAP)* 3 (2): 48-51. [doi:10.1016/j.jarmap.2016.01.001](https://doi.org/10.1016/j.jarmap.2016.01.001)
2. Kuchay, S. A. and **Arief, Z. M.** 2016. Analysis of Growth in Some Cultivars of *Solanum melongena* Grown in Kashmir. *Imperial Journal of Interdisciplinary Research (IJIR)* 2 (5): 397-405.
3. **Zargar Mohmad Arief**. 2016. Postharvest Physiology and Handling of Cut Flowers. Scholars' Press. Saarbrücken, Germany. ISBN-10: 3659837091, ISBN-13: 978-3659837098.
4. **Zargar Mohmad Arief**. 2016. Defoliation and Silverthiosulphate Pulse Treatment Prolongs the Vase Life of Cut Stalks of *Clarkia amoena*. *Journal of Plant Science and Research* 3(2): 162.

5. **Zargar Mohmad Arief**, A.H.Munshi and A.S. Shawl. 2015. Evaluation of Medicinal Value of *Epimedium elatum* on the Basis of Pharmacologically Active Constituents, Icarin and Icariside-II. *Pak. J. Pharm. Sci.* **28**: 1665-1669.
6. **Zargar Mohmad Arief**. 2015. Postharvest Loss- A Case Study of Sweet Cherry in Kashmir. In: *Proceedings of "The First International Congress on Postharvest Loss Prevention: Developing Measurement Approaches and Intervention Strategies for Smallholders"*, pp. 45-48. ADM Institute For The Prevention Of Postharvest Loss, University Of Illinois At Urbana-Champaign. Rome, Italy. October 4-7, 2015.
7. **Zargar Mohmad Arief** and I. Tahir. 2015. Sucrose, cobalt chloride and aerated soft drink improves the vase life and quality of cut scapes of *Hemerocallis fulva*. *Journal of Post-Harvest Technology* **3**: 97-100.
8. Mudasir A. Tantry, Reehana Khan, Seema Akbar, **Mohmad Arief** and Mohammed K.Siddiqui. 2011. Antimicrobial and antioxidant activities of *Epimedium elatum* (Morr. & Decne.) and quantification of its marker compounds. *Current Chemical Research* **1**(1): 30-34. (ISSN: 2278-0963).
9. **Zargar Mohmad Arief**, I. Tahir, S. Farooq & S.M. Sultan. 2005. Sucrose and 8-HQC prolongs the vase life and improves the quality of cut scapes of *Hemerocallis fulva* L. cv. Royal Crown. In: *Opapa, L.U. (Ed.). Book of Extended Abstracts. Int. Conf. Postharvest Tech. & Quality Mgt in Arid Tropics*, pp. 70-74. Sultan Qaboos University, Sultanate of Oman. 31 Jan.-2 Feb. 2005.
10. Sheikh M. Sultan, Inayatullah Tahir, **Mohammad Arif** and S. Farooq. 2002. Cycloheximide Spray Treatment Soon After Opening Prolongs Longevity of Detached Morning Glory (*Ipomoea tricolor*) Flowers. *J. Plant. Biol.* **29**(1): 105-108.
11. **Mohammad Arif**, Inayatullah Tahir, Sheikh M. Sultan and S. Farooq. 2002. Enhancement of Vase Life of Cut Scapes of Garden Iris (*Iris germanica* L.) with Sucrose and Cobalt Chloride. *J. of Indian Botanical Society* **81**: 353-354.

IMPORTANT CONTRIBUTIONS:

- One of the contributors to **The Food Loss & Waste Protocol (FLW Protocol)** or global **Food Loss and Waste Accounting and Reporting Standard (or FLW Standard)**.

PAPERS PRESENTED/CONTRIBUTED IN CONFERENCES:

- 1) **Zargar Mohmad Arief. 2017.** Postharvest Training and Services Centers can reduce postharvest losses in developing countries. In “*1st All Africa Postharvest Congress and Exhibition*”. University of Nairobi, **Nairobi, Kenya**. March 28-31, 2017. page 116
- 2) **Zargar Mohmad Arief, A. S. Shawl and A. H. Munshi. 2016.** Altitudinal Variation in Pharmacologically Active Constituents of *Epimedium elatum*, an endemic plant of Western Himalaya. In *National Seminar on “Environmental Pollution: Join the Race to Make the World a Better Place”*. CORD, University of Kashmir, **Srinagar**. June 4-5, 2016.
- 3) **Zargar Mohmad Arief. 2015.** Postharvest Loss- A Case Study of Sweet Cherry in Kashmir. In: *Proceedings of “The First International Congress on Postharvest Loss Prevention: Developing Measurement Approaches and Intervention Strategies for Smallholders”*, pp. 45-48. ADM Institute For The Prevention Of Postharvest Loss, University Of Illinois At Urbana-Champaign. **Rome, Italy**. October 4-7, 2015.
- 4) Shazia Parveen, **Zargar Mohmad Arief** and Inayatullah Tahir. **2015.** Sucrose alone or in combination with 8-Hydroxyquinoline Sulphate and the Silverthiosulphate pulse improves the vase life and quality of cut flowers of *Salvia splendans*. In *Abstracts of 11th J&K Science Congress on “Scientific, Social and Economic Dimensions of Climate Change”*. University of Kashmir, **Srinagar**. Oct. 12-14, 2015. page 72.
- 5) **Z. Mohmad Arief, A. S. Shawl and A. H. Munshi. 2015.** Variation in Pharmacologically Active Constituents of *Epimedium elatum*. In *Abstracts of National Symposium on “Biodiversity, Biology and Bioprospecting”*. University of Kashmir, **Srinagar**. April 1-2, 2015. page 32-33.
- 6) **Z. Mohmad Arief, A. S. Shawl and A. H. Munshi. 2015.** Altitudinal Variation in Pharmacologically Active Constituents of *Epimedium elatum*, an endemic plant of Western Himalayas. In *Abstracts of Fifth International Conference on Plants & Environmental Pollution (ICPEP-5)*. **Lucknow**, India. 24-27 Feb., 2015. page 232.
- 7) **Z. Mohmad Arief, A. S. Shawl and A. H. Munshi. 2012.** Content of active principle and harvest index of wild and cultivated populations of *Epimedium elatum*. In *Abstracts of Three day 8th J&K Science Congress on “Science, Technology and Regional Development: Opportunities and Challenges”*. University of Kashmir, **Srinagar**. September 17-19, 2012.
- 8) **Z. Mohmad Arief, A. S. Shawl and A. H. Munshi. 2010.** Investigation of Medicinal Value of *Epimedium elatum* on the Basis of Pharmacologically Active Constituents, Icariin and

- Icariside-II. In *Abstracts of International Conference on Recent Advances in Pharmaceutical Sciences*. BHU, **Varanasi**, (India), 22-23 Dec.2010. page 109.
- 9) **Z. Mohmad Arief**. **2010**. Variation in Icariin Content in *Epimedium elatum*. In 6th J&K Science Congress. University of Kashmir. **Srinagar**, India.
 - 10) **Z. Mohmad Arief**, A. S. Shawl and A. H. Munshi. **2009**. HPLC Determination of Icariin Content in *Epimedium elatum*. In *Abstracts of National Seminar on "Biodiversity: Current Status and Future Challenges"*. Department of Botany, University of Kashmir, **Srinagar**, (India). 26-28 Mar. 2009.
 - 11) **Z. Mohmad Arief**, Inayatullah Tahir, A. H. Munshi and A. S. Shawl. **2006**. Sucrose, Cobalt Chloride and Aerated Soft Drink (Limca) Prolongs the Vase Life and Improves the Postharvest Quality of Cut Scapes of *Hemerocallis fulva* L. cv. Royal Crown. In *Abstracts of Postharvest Physiology Gordon Research Conference*. Connecticut College, New London, Connecticut, **USA**. July 9-14, 2006. (Not presented, but only contributed).
 - 12) **Z. Mohmad Arief**, A. S. Shawl and A. H. Munshi. **2006**. Study on the Evaluation of *Epimedium elatum* as a Medicinal Plant. In *Abstracts of Second J&K Science Congress*. University of Kashmir. **Srinagar**, India. July 25-27,2006.
 - 13) **Zargar Mohmad Arief**, A. H. Munshi and A. S. Shawl. **2005**. Manual Defoliation and Silverthiosulphate Pulse Treatment Improves the Post Harvest Characteristics of Cut Stalks of *Godetia amoena* Don. In *Abstracts of Australian Postharvest Horticulture Conference*. Crop and Food Research Ltd. Rotorua, **New Zealand**. September 27-30, 2005. (Not presented, but only contributed).pp 34
 - 14) **Mohammad Arif**, Inayatullah Tahir and S. Farooq. **2003**. Soft Drink (Limca) Enhances the Longevity and Quality of Cut Scapes of *Hemerocallis fulva* L. cv. Royal Crown. In *Abstracts and Souvenir of National Seminar on Recent Advances in Plant Science Research*, **Srinagar** (India), 12-14 Oct. 2003. page 8.
 - 15) **Mohammad Arif**, Inayatullah Tahir, S. Farooq and Sheikh M. Sultan. **2002**. Effect of Silverthiosulphate Pulse Treatment on the Vase Life and Quality of Cut Scapes of *Hemerocallis fulva* L. cv. Royal Crown. In *Abstracts of 25th All India Botanical Conference*, **Bareilly** (India), 27-29 Oct.2002.page78.

CONFERENCES ORGANISED:

- National Symposium on “**Biodiversity, Biology and Bioprospecting**”. April 1-2, **2015**.
University of Kashmir, Srinagar. (**Organising Secretary**)

CONFERENCES ATTENDED:

International:

1. First All Africa Postharvest Congress and Exhibition. University of Nairobi, **Nairobi, Kenya**. March 28-31, 2017.
2. The First International Congress on Postharvest Loss Prevention: Developing Measurement Approaches and Intervention Strategies for Smallholders”. ADM Institute For The Prevention Of Postharvest Loss, University Of Illinois At Urbana-Champaign. **Rome, Italy**. October 4-7, **2015**.
3. Fifth International Conference on Plants & Environmental Pollution (ICPEP-5). **Lucknow, India**. Feb. 24-27, **2015**.
4. International Conference on Recent Advances in Pharmaceutical Sciences. BHU, **Varanasi (India)**. Dec. 22-23, **2010**.

National/Regional:

1. National Seminar on “Environmental Pollution”. University of Kashmir, **Srinagar**. June 4-5, **2016**.
2. 11th J&K Science Congress on “Scientific, Social and Economic Dimensions of Climate Change”. University of Kashmir, **Srinagar**. Oct. 12-14, **2015**.
3. National Symposium on “Biodiversity, Biology and Bioprospecting”. April 1-2, **2015**.
University of Kashmir, Srinagar.
4. Three day 9th JK Science Congress 2013 and Regional Science Congress on “*Innovations and Advances in Science and Technology*”. University of Kashmir, Srinagar. October 1- 3, **2013**.
5. National Science Day -2013 on “*Genetically Modified Foods and Food Security*”.
Department of Botany, University of Kashmir, Srinagar. September 14th **2013**.
6. International Day for Biological Diversity. Department of Botany, University of Kashmir, Srinagar. May 22, **2013**

7. Three day 8th J&K Science Congress on “Science, Technology and Regional Development: Opportunities and Challenges”. University of Kashmir, Srinagar. September 17-19, **2012**.
8. 6th J&K Science Congress. University of Kashmir, Srinagar, India. December 2-4, **2010**.
9. National Seminar on “Biodiversity: Current Status and Future Challenges”. Department of Botany, University of Kashmir, Srinagar, (India). 26-28 Mar. **2009**.
10. Second J&K Science Congress. University of Kashmir, Srinagar, India. July 25-27, **2006**.
11. National Seminar on Recent Advances in Plant Science Research, Srinagar (India), 12-14 Oct. **2003**.
12. 25th (Silver Jubilee) All India Botanical Conference, Bareilly (India), 27-29 Oct. **2002**.

WORKSHOPS ATTENDED

- 1) One Week Workshop in “**Information Technology**”. Organized by *UGC-Human Resource Development Centre, University of Kashmir, Srinagar*. 16-03-2016 to 22-03-**2016**.
- 2) 3-day Workshop on “**Himalayan Biodiversity and Bioresources: Mapping, Utilization and Conservation**”. Organized by *Department of Botany, University of Kashmir and IAS (Bangalore), INSA (N Delhi) and NAS (Allahabad)*. 08-05-2014 to 10-05-**2014**.
- 3) 2- Days Workshop on “**Data Analysis using SPSS**”. Organized by *Department of Computer Sciences, University of Kashmir & SPSS South Asia India*. 20-02-2014 to 21-02-**2014**.
- 4) Three day **International Workshop** on “**Postharvest Technology and Cold Chain Management**”, organized by Amity International Centre for Postharvest Technology and Cold Chain Management, Amity University, Noida (India) and Postharvest Education Foundation, USA. August 6-8, **2013**.

TRAINING PROGRAMMES ATTENDED

- 1) Three week ICAR sponsored Winter School training programme on “**Multiple Crop Modeling to Improve Resource Use Efficiency in Agriculture under Changing Climatic Conditions**”. ACRC, Agricultural Research Institute, Professor Jayashankar Telangana State Agricultural University, Hyderabad. December 3-23, **2015**.

- 2) Online Training programme on Nutrition-Quotient- A Professional Certification Course on food safety, packaging & nutrition. Organized by Indian Dietetic Association (IDA) & AIIMS, 01-11-2013 to 20-02-2014.
- 3) Three week UGC sponsored **Refresher Course in Agricultural Sciences**. UGC Academic Staff College, Aligarh Muslim University, Aligarh. November 8-29, **2013**.
- 4) **One Year South-Asia Postharvest E- Learning programme**, jointly run by Postharvest Education Foundation, USA and Amity University, Noida (India). **2013**.
- 5) Four Weeks UGC sponsored **General Orientation Course**. Academic Staff College, University of Kashmir. 15.2.2007 to 14.3.2007.

OUTSTANDING ACHIEVEMENTS/AWARDS/FELLOWSHIPS

- 1) **2016 Kader Awards in Postharvest Training**. Awarded by the Board of Directors of The Postharvest Education Foundation, **USA**.
- 2) “**Carl Storm International Diversity Fellowship 2006**” from Gordon Research Conferences (GRC) Board of Trustees, **USA**.
- 3) National Eligibility Test (NET) for Lecturership (CSIR-UGC, Dec. 2000).
- 4) 82nd bracketed position in J&K BOSE Exam. Oct-Nov. 1991.

ROLE IN CORPORATE LIFE OF THE UNIVERSITY:

- 1) Nodal Officer, DIQA
- 2) Member, Board of Postgraduate Studies in Botany
- 3) Member, Board of Postgraduate Studies in Bioresources
- 4) Member, SAP Committee
- 5) Member, FIST Committee
- 6) Member, Admission Committee (Botany)
- 7) Member, Admission Committee (Bioresources)
- 8) Member, Departmental Store Committee
- 9) Member, Departmental Purchasing Committee (Bioresources)
- 10) Member, Departmental Technical Committee (Bioresources)
- 11) Assistant Superintendent UGC NET June 2014 & Dec. 2014
- 12) Incharge, Licor Portable Photosynthesis System (Li-6400 XTF), a common facility of the University

EXTENSION LECTURES DELIVERED

- 1) Postharvest Education Foundation (PEF)'s Global E-learning Program and My Postharvest Technology Training Activities in Kashmir (India). Presentation at Safari Park Hotel, **Nairobi, Kenya**. March 28-31, **2017**.
- 2) Postharvest Physiology of Cut Flowers. Guest lecture delivered in the Department of Botany, Islamia College of Science and Commerce. **2006**.
- 3) Factors Affecting Postharvest Quality and Longevity of Cut Flowers. Guest lecture delivered in the Department of Botany, Islamia College of Science and Commerce **2006**.
- 4) Postharvest Techniques for Prolongation of Vase Life. Guest lecture delivered in the Department of Botany, Islamia College of Science and Commerce. **2006**.

E-CONTENTS DEVELOPED

- "*Mechanism of Enzyme action*" in collaboration with EMMRC, University of Kashmir, Srinagar.

Mohmad Arief Zargar
Assistant Professor
Department of Botany