

CURRICULUM VITAE



Dr. TARIQ AHMAD DAR

Email: dartariq21@gmail.com

Mobile No. 09797814732

Permanent Address: Uttersoo Naji Gund Anantnag

District and Tehsil: Anantnag Pin code:192101

Jammu and Kashmir

Present Address:

Department of Botany,
Centre for Biodiversity Studies,
School of Biosciences and Biotechnology,
Baba Ghulam Shah Badshah University,
Rajouri, J & K. India 185234

Teaching experience

| | | | |
|---|---|--|-------------------------------|
| 1 | Assistant Professor Botany (Contractual) | Department of Botany Centre for Biodiversity Studies, School of Biosciences and Biotechnology, Baba Ghulam Shah Badshah University Rajouri (J& K) | From 12-02-2016 till today |
| 2 | Lecturer Botany (Contractual) | Govt. Degree College Kupwara (J & K) | 30-06-2015 to 09- 01-2016 |
| 3 | CSIR/UGC-NET-JRF Coaching for SC/ST and Minorites | Organized by BGSB University Rajouri ((J& K) at CBS, School of Biosciences and Biotechnology | Delivered 15 Lectures |

Competitive Exams Qualified

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|----|----------|---------------|------------|-----------|
| 1. | CSIR-NET | LIFE-SCIENCES | JUNE-2010 | Rank 0164 |
| 2. | JK-SET | LIFE-SCIENCES | NOV-2017 | - |
| 3. | GATE | LIFE-SCIENCES | March 2014 | Rank 579 |

Academic Credentials:

| Class | Board/university | Subjects | Division | Percentage | Year |
|------------------|---------------------------|--|----------|------------|------|
| Ph. D | Aligarh Muslim University | Botany | - | Awarded | 2015 |
| M. Sc. | University of Kashmir | Botany | Ist | 64.20 | 2010 |
| B. Sc. | University of Kashmir | Botany Zoology Chemistry English | Ist | 60.00 | 2008 |
| 10+2 | JKBOSE | Physics Chemistry Botany Zoology English | Ist | 66.00 | 2004 |
| 10 th | JKBOSE | English, Urdu, Math, Science, Social science | Ist | 66.00 | 2002 |

Research Credentials

1. Number of publications :10
2. Number of Conferences Attended :7
3. Number of Abstracts Published :10
4. Number of papers presented :4
5. Number of M.Sc. Dissertations Guided at BGSB University Rajouri : 03
6. Number of Workshops Attended :3
7. Member of Professional Bodies :2
8. Total impact factor: 13.562
9. Number of citations :75

- **Ph.D Research Topic:** GROWTH, YIELD AND ACTIVE CONSTITUENTS OF FENUGREEK (*TRIGONELLA FOENUM-GRAECUM* L.) AS INFLUENCED BY SELECTED DEPOLYMERISED POLYSACCHARIDES AND PGRs APPLIED WITH OR WITHOUT PHOSPHORUS
- **Date of Registration in Ph.D:** 04-06-2011
- **Submitted Ph.D:** 18/04/2015
- **Awarded Ph.D:** 02/12/2015
- **Research Collaboration:** Bhaba Atomic Research Centre (BARC, Mumbai), Department of Botany (Aligarh Muslim University), Department of Botany (University of Kashmir)

List of Publications (10)

1. **Tariq Ahmad Dar**, Moin Uddin, M. Masroor A. Khan, K. R. Hakeem, Hassan jaleel (2015). Jasmonates counter plant stress: A Review. **Environmental and Experimental Botany (IF 3.712 ISSN: 0098-8472. Published by ELSEVIER)**
2. **Tariq Ahmad Dar**, Moin Uddin, M. Masroor A. Khan, Akbar Ali, Suhail Rasool Mir and Lalit Varshney (2016). Modulation of alkaloid content, growth and productivity of *Trigonella foenumgraecum* L. using irradiated sodium alginate in combination with soil applied phosphorus. **Journal of Applied Research on Medicinal and Aromatic Plants (3:200–210. Published by ELSEVIER)**
3. Mohd. Idrees, **Tariq A. Dar**, M. Naeem, Tariq Aftab, M. Masroor A. Khan, Akbar Ali, Moin Uddin, Lalit Varshney (2015). Effects of gamma-irradiated sodium alginate on lemongrass: field trials monitoring production of essential oil. **Industrial Crops and Products 63:269–275. (IF 3.449; ISSN: 0926-6690. Published by ELSEVIER)**
4. **Tariq Ahmad Dar**, Moin Uddin, M. Masroor A. Khan, Akbar Ali, Nadeem Hashmi and Mohd Idrees (2015). Cumulative effect of gibberellic acid and phosphorus on crop productivity, biochemical activities and trigonelline production in *Trigonella foenum-graecum* L. **Cogent Food & Agriculture (2015), 1: 995950 (ISSN: 2331-1932. Published by Taylor and Francis)**
5. **Tariq Ahmad Dar**, Moin Uddin, M. Masroor A. Khan, Akbar Ali, Suhail Rasool Mir and Lalit Varshney (2015) Effect of Co-60 gamma irradiated chitosan and phosphorus fertilizer on growth, yield and trigonelline content of *Trigonella foenum-graecum* L. **Journal of Radiation Research and Applied Sciences 8 (2015) 446-458 (ISSN: 1687-8507 Published by ELSEVIER).**
6. Akbar Ali, M. Masroor A. Khan, Moin Uddin, M. Naeem, Mohd Idrees, Nadeem Hashmi, **Tariq Ahmad Dar**, Lalit Varshney (2014). Radiolytically depolymerized sodium alginate improves physiological activities, yield attributes and composition of essential oil of *Eucalyptus citriodora* Hook. **Carbohydrate Polymers 112:134–144 (IF 4.219; ISSN: 0144-8617. Published by ELSEVIER)**
7. Moinuddin, Sajad Hussain, Mohammad Masroor Akhtar Khan, Nadeem Hashmi, Mohammad Idrees, Mohammad Naeem, **Tariq Ahmad Dar** (2013). Use of N and P biofertilizers reduces inorganic phosphorus application and increases nutrient uptake, yield, and seed quality of chickpea. **Turk J Agric For (2014) 37:47-54. (IF. 1.311**

ISSN 1300-011X. Published by the Scientific and Technological Research Council of Turkey).

8. M. Masroor A. Khan, Nadeem Hashmi, Moinuddin and **Tariq A. Dar** (2013). Changes in growth, yield, photosynthetic characteristics, enzyme activities and essential oil production of fennel (*Foeniculum vulgare* Mill.) under growth regulator treatments. **Journal of Essential Oil Research**, 2014(Vol. 26, No.2, 105-113 (**IF. 0.871**) (Taylor and Francis ISSN 1041-2905 (Print), 2163-8152 (Online)
9. Moinuddin, **Tariq Ahmad Dar**, Sajad Hussain, M. Masroor Akhtar Khan, Nadeem Hashmi, Mohammad Idrees, Mohammad Naeem, Akbar Ali (2014). Use of N and P biofertilizers together with phosphorus fertilizer Improves growth and physiological attributes of chickpea. **Global Journal of Agriculture and Agricultural Sciences Vol. 2 (3), pp. 168-174.**
10. **Tariq Ahmad Dar**, Moinuddin, Nadeem Hashmi, Mohd Idrees, and Akbar Ali (2013). Recent Trends in Jasmonate Signaling Pathway In: “Plant signaling: Understanding the molecular crosstalk” (Eds, Khalid RH, Reiaz R and Inayatullah T.) Springer New Delhi Heidelberg New York Dordrecht London. Pp 277. **ISBN 978-81-322-1541-7.**

Summary of Publications

| S.NO | Journal | Year | No. of Publication | Impact Factor |
|------|---|------|--------------------|---------------|
| 1 | Journal of Applied Research on Medicinal and Aromatic Plants | 2016 | 1 | - |
| 2 | Environmental and Experimental Botany | 2015 | 1 | 3.712 |
| 3 | Journal of Radiation Research and Applied Sciences | 2015 | 1 | - |
| 4 | Cogent Food & Agriculture | 2015 | 1 | - |
| 5 | Industrial Crops and Products | 2015 | 1 | 3.449 |
| 6 | Carbohydrate Polymers | 2014 | 1 | 4.219 |
| 7 | Turkish Journal of Agriculture and Forestry | 2013 | 1 | 1.311 |
| 8 | Journal of Essential Oil Research | 2013 | 1 | 0.871 |
| 9 | Global Journal of Agriculture and Agricultural Sciences | 2014 | 1 | - |
| 10 | Recent Trends in Jasmonate Signaling Pathway In: “Plant signaling: Understanding the molecular crosstalk” | 2013 | 1 | - |
| | Total Impact Points | | 10 | 13.562 |

M.Sc. Dissertations Guided: 03

1. **Sheenam Faiz**- To investigate the effect of exogenously applied gibberellic acid on growth, photosynthetic pigments and biochemical parameters of *Brassica juncea* L. (2016)
2. **Altaf Raja**- To investigate the effect of foliar application of methyl jasmonate on growth and biochemical parameters of *Triticum aestivum* L. (2016)
3. **Mudasir Nazir Bhat**- Effect of foliar application of kinetin on growth, yield and biochemical activities of *Triticum aestivum* L. (2016).

M.Sc. Botany projects ongoing under my supervision: 03

1. Miss Nahila Anjum
2. Miss Aamina Sherwani
3. Miss Humaira Hassan

Conferences Attended (7)

1. Presented a Paper at International Conference On “**Medicinal Plants: Resource for Affordable New Generation Healthcare**” Organised by CSIR-Central institute of Medicinal and Aromatic Plants, Lucknow, India from 20-22 March, 2015.
2. Presented a Poster at National Seminar Of Plant Physiology on “**Physiological And Molecular Approaches For Development Of Climate Resilient Crops**” Organised by Department of Crop Physiology, College of Agriculture, Acharya N G Ranga Agricultural University, Rajendranagar, Hyderabad from 12-14 December, 2012.
3. Participated in National Seminar on “**Plant Cell, Tissue and Organ Culture: Emerging Trends**” held at the Department of Botany, Aligarh Muslim University, Aligarh from 10-11 March 2012.
4. Participated in the National Seminar on “**Conservation, Cultivation and Sustainable Utilization of Medicinal and Herbal Plants**” held at Department of Botany, R.B.S. College, Agra from 25-26 February, 2012.
5. Presented a Poster at National Seminar on “**Trends and Advances in Plant Sciences**” held at the Department of Botany, Aligarh Muslim University, Aligarh from 21-22 September 2013.
6. Oral presentation at “**37th ALL INDIA CONFERENCE OF THE INDIAN BOTANICAL SOCIETY NOVEMBER 7th-9th 2014**” held at Department of Botany, Kelkar Education Trust's V G Vaze College, Mulund (East), Mumbai - 400 081.
7. Participated in “**11th JK Science Congress 2015 on Scientific, Social & Economic Dimensions of Climate Change**” conducted during october 12-14, 2015 organised by

the university of kashmir sponsored by J & K State Science Technology & Innovation Council and DST, GOI.

Abstracts Published (10)

1. **Tariq Ahmad Dar**, Moin Uddin, M. Masroor A. Khan, Akbar Ali, Suhail Rasool Mir and Faisal Rasheed. Foliar application of kinetin applied with phosphorus enhances the vegetative growth, biochemical attributes and trigonelline content of *Trigonella foenum-graecum* L. In: **International Conference On “Medicinal Plants: Resource for Affordable New Generation Healthcare”** Organised by CSIR-Central institute of Medicinal and Aromatic Plants, Lucknow, India from 20-22 March, 2015.
2. **Tariq A. Dar**, Moinuddin, M. Masroor A. Khan, Akbar Ali, Nadeem Hashmi and Masidur Alam (2012). Effect of levels of gibberellic acid and phosphorus on growth, enzymatic activities and yield of fenugreek (*Trigonella foenum-graecum* L) In: National Seminar Of Plant Physiology on **“Physiological And Molecular Approaches For Development Of Climate Resilient Crops”** Organised by Department of Crop Physiology, College of Agriculture, Acharya N G Ranga Agricultural University, Rajendranagar, Hyderabad from 12-14 December, 2012.
3. **Tariq Ahmad Dar**, Moin Uddin, M. Masroor A. Khan, Akbar Ali and Nadeem Hashmi (2013). Application of irradiated sodium alginate alone and in combination with phosphorus enhances growth, enzymatic activities and yield of fenugreek (*Trigonella foenum-graecum* L.) In: National Seminar on **“Trends and Advances in Plant Sciences”** held at the Department of Botany, Aligarh Muslim University, Aligarh from 21-22 September 2013.
4. Moin Uddin, M. Masroor A. Khan, Akbar Ali, Faisal Rasheed, **Tariq Ahmad Dar**, Tariq Aftab, M. Naeem, M. Idrees and Suhail Rasool Mir (2015). Gamma-irradiated sodium alginate mediates changes in growth, physiological activities and alkaloids production of *Catharanthus roseus* (L.) In: International Conference On “Medicinal Plants: Resource for Affordable New Generation Healthcare” Organised by CSIR-Central institute of Medicinal and Aromatic Plants, Lucknow, India from 20-22 March, 2015.
5. Faisal Rasheed, Moin Uddin, **Tariq Ahmad Dar** (2015). Enhancing the growth, physiological activities and alkaloids production in *Catharanthus roseus* (L.) G. Don using irradiated sodium alginate and methyl jasmonate. In: International Conference On “Medicinal Plants: Resource for Affordable New Generation Healthcare”

- Organised by CSIR-Central institute of Medicinal and Aromatic Plants, Lucknow, India from 20-22 March, 2015.
6. Moinuddin, S. Hussain, M. M. A. Khan, M. Naeem, M. Idrees, N. Hashmi, A. Ali, **T. A. Dar** and F. Rasheed (2013). Use of N and P biofertilizers reduces inorganic phosphorus application and increases nutrient uptake, yield and seed quality of chickpea (*Cicer arietinum* L.) In: National Seminar on “**Trends and Advances in Plant Sciences**” held at the Department of Botany, Aligarh Muslim University, Aligarh from 21-22 September 2013.
 7. S. Hussain, Moinuddin, **Tariq A. Dar**, N. Hashmi, M. M. A. Khan, M. Naeem, and M. Idrees (2013). Graded Levels of Phosphorus Applied with N and P Biofertilizers Improve Growth and Physiological Attributes of Chickpea (*Cicer arietinum* L.) In: National Seminar on “**Plant Sciences: New Technologies, Conservation and Environment**” held at the Department of Botany, Aligarh Muslim University, Aligarh from 23-24 February 2013.
 8. M. Masroor. A. Khan, Akbar Ali, Farhad Alam, **Tariq A. Dar**, M. Naeem and Moinuddin (2013). GA₃ and Silicon Nano-particles increase the productivity of sweet-leaf plant (*Stevia rebaudiana* Bert.) In: National Seminar on “**Trends and Advances in Plant Sciences**” held at the Department of Botany, Aligarh Muslim University, Aligarh from 21-22 September 2013.
 9. M. Masroor A. Khan, Farhad Alam, Akbar Ali, **Tariq A. Dar**, M. Naeem and Moin Uddin (2014) Employing Silicon Nano-Particles and GA₃ in Increasing the Productivity of Sweet-Leaf Plant (*Stevia rebaudiana* Bert.) — A Sugar Substitute In: ‘ALIGARH NANO-IV International 2014’ an International Conference on Nanoscience and Nanotechnology. March 08-10, 2014, Department of Applied Physics, Aligarh Muslim University, Aligarh.
 10. Tariq Ahmad Dar, Moin Uddin, M. Masroor A. Khan, Akbar Ali, Faisal Rasheed and Suhail Rasool Mir (2014) Application of irradiated chitosan alone and in combination with phosphorus enhances physiological activities, trigonelline content and yield of fenugreek (*Trigonella foenum-graecum* L) In: “37th ALL INDIA CONFERENCE OF THE INDIAN BOTANICAL SOCIETY NOVEMBER 7th-9th 2014” held at Kelkar Education Trust's V G Vaze College, Mulund (East), Mumbai - 400 081.

Technical Training and Workshops attended

1. Participated in the national training workshop on “**Plant Taxonomy: Principles and Practices**” from 27th-29th March, 2017 organized by Centre for Biodiversity and Taxonomy (CBT), Department of Botany, University of Kashmir, Sponsored by Botanical Survey of India (BSI), Ministry of Environment, Forests and Climate Change (MoEFCC), Govt. of India.
2. Participated in the **Short Term Course on Plant Tissue Culture and Molecular Biology** conducted by UGC Academic Staff College, Aligarh Muslim University, Aligarh from 28 January to 03 February 2013.
3. Attended the training on “**Fundamentals of HPLC with LC solution workstation**” conducted by **SHIMADZU ANALYTICAL (INDIA) PVT.LTD** from 16-May to 17-May in the year 2013 held at **SAIP, Delhi**.

Awareness programmes attended

1. *Attended one day awareness programme on intellectual property rights held at Baba Ghulam Shah Badshah University, Rajouri on 6/10/2016*

Life membership

2. *Life member of Indian Botanical Society (membership No. 871/2014)*
3. *Life member of Indian Science Congress Association.*

Experimental Skills

- UV-VIS Spectrophotometer.
- Ultra-Centrifuge.
- HPLC (High Performance Liquid Chromatography).
- Clevenger's Apparatus
- Flame Photometer.
- Ultrasonic cleaner
- (GLC) Gas Liquid Chromatography

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Personal Details

Name : Tariq Ahmad Dar
Father's Name : Mohammad Maqbool Dar
Mother's Name : Haleema bano
Date of Birth : 25, Oct, 1985
Place of Birth : Anantnag
Nationality : Indian
Sex : Male
Marital Status : Unmarried
Languages' Known : English, Urdu and Kashmiri
Permanent Address : Uppersoo Naji Gund
Anantnag (J&K)-192101

Declaration

I hereby declare that all the above information furnished by me is true to the best of my knowledge.

PLACE: BGSBU, Rajouri

DATE: 17-02-2017

TARIQ AHMAD DAR