

## Profile of Scientist

**1. Name of the Scientist:** Aalok Shiv

**2. Personal Biodata:**

**a) Position/Designation:** Scientist

**b) Contact Details:**

**i. ICAR Email ID:** [aalok.shiv@icar.gov.in](mailto:aalok.shiv@icar.gov.in)

**ii. Personal Email ID:** [rajbhartishiv@gmail.com](mailto:rajbhartishiv@gmail.com)

**iii. Mobile No.:** +91 7836005734/8368020011

**iv. Permanent address:** Irrigation colony, Q.N., H-4, Chhapara, Dist.-Seoni  
Madhya Pradesh 480 884

**c) Joining date in:**

**i. ICAR:** 07-01-2020

**ii. IISR:** 04-04-2020

**d) Discipline:** Genetics and Plant Breeding.



### **3. Educational Career**

| Degrees                           | Class/Grade                     | University/Board/ Institute  | Year     |
|-----------------------------------|---------------------------------|------------------------------|----------|
| Matriculation                     | 73.30% (I <sup>st</sup> Class)  | BSE, Madhya Pradesh, Bhopal  | 2008     |
| Hr. Secondary                     | 78.80% (I <sup>st</sup> Class)  | BSE, Madhya Pradesh, Bhopal  | 2010     |
| (B.Sc. Agril.)                    | 8.34/10 (I <sup>st</sup> Class) | MPKV, Rahuri, Maharashtra    | 2014     |
| M.Sc. (Genetics & Plant Breeding) | 8.94/10 (I <sup>st</sup> Class) | NAU, Navsari, Gujarat-396450 | 2016     |
| Ph.D. (Genetics & Plant Breeding) | 8.11<br>-                       | IARI, New Delhi              | Pursuing |

### **4. List of awards/Fellowship/medals**

| Award/Fellowship/medals   | Awarding Organization   |
|---|---|
| <b>Qualified ARS (Agricultural Research Services) 2016</b>        | Conducted by ASRB   |
| <b>Recipient of INSPIRE fellowship</b>                            | DST-GOI   |
| <b>Qualified National Eligibility Test (NET) with 83.1%</b>       | ICAR NET-2017   |
| <b>All India 6<sup>th</sup> Rank Senior Research Fellow (SRF)</b> | ICAR-AICE (PGS)-2016  |
| <b>Best Student Award at 4<sup>th</sup> agrivision-2019</b>       | Vidyarthi Kalyan Nyas, Bhopal in collaboration with, MOAFW, ICAR, NABARD & IARI |
| <b>Recipient of RGNE fellowship</b>                               | UGC-GOI   |
| <b>Recipient of IARI fellowship</b>                               | ICAR-IARI, New Delhi  |

### **5. Work done in M.Sc. and Ph.D.**

- ❖ **M.Sc. thesis title:** “Genetic variability analysis for yield, its attributes and mosaic resistance in F<sub>3</sub> progenies of mungbean (*Vigna Radiata* (L.) R. Wilczek)”
- ❖ **Ph.D. thesis title** “Role of microRNA mediated regulation in host pathogen interaction during leaf rust infection in wheat (*Triticum aestivum* L.)

## 6. Technical skills:

Phenotyping of key traits, leaf rust inoculum preparation and inoculation, DNA and RNA isolation, gel electrophoresis, primer design, Genotyping using PCR, gene expression studies by qRT-PCR, data analysis using MS-Excel, various software of Genetics and Plant Breeding data analysis, R-software, various bioinformatics tools.

## 7. Contribution to the field of specialization: list of publication:

- Shiv, A.**, Ramtekey, V., Vadodariya, G. D., Modha, K. G. and Patel, R. K., Genetic Variability, Heritability and Genetic Advance in F3 Progenies of Mungbean [*Vigna radiata* (L.) Wilczek], *Int.J.Curr.Microbiol.App.Sci* (2017) 6(12): 3086-3094
- Modha, K., Patel, P., Sen, S., **Shiv, A.**, Dhoot, R., & Patel, U. (2018). Epistatic Basis of Mosaic Resistance in Mungbean [*Vigna radiata* (L.) Wilczek]. *Int. J. Curr. Microbiol. App. Sci*, 7(4), 3265-3271.
- Chand, S., Patidar, O. M., Meena, V. K., & **Shiv, A.** (2018). Barnase-barstar system: an indelible technique to produce hybrid seeds in self-pollinated crops. *International Journal of Farm Sciences*, 8(2), 109-113.

## 8. Participation in academic Trainings/Conference/Convention/Workshops:

- ✓ **3-day hands-on workshop ‘CRISPR/Cas System for Genome Engineering’ at Amity University Uttar Pradesh, Noida from 03-05 July 2019**
- ✓ **Lead lecture on “Genome wide prediction of lncRNAs in response to leaf rust resistance in wheat” at 4<sup>th</sup> International Group Meet on Wheat at palampur (H.P.), INDIA, 14-16 February 2019.**
- ✓ Participated and presented a poster in **First Indian Genetics Congress entitled “Genome wide prediction of lncRNAs in response to leaf rust resistance in wheat”** held at IARI-New Delhi, December 14-16.
- ✓ Participated and presented an abstract in three-day international conference on **“Climate change and rural development”**, January 21-23, 2016 at Dr. Babasaheb Ambedkar Marathwada University, Aurangawad-431004.
- ✓ Presented a poster entitled **“Association mapping: A novel approach for dissection of quantitative traits in plants”** in international seminar on **“current trends in biological sciences”** organized by M.G. Science Institute, Ahmedabad during 26-27december 2015.
- ✓ Participated in student’s symposium on **“Genomics based Next Generation Crop Improvement Approaches”** November11-12, 2016, organized by ICAR-IARI, NEW DELHI.
- ✓ Participated in brainstorming session on **“Role of Plant Breeding and Genetics in meeting sustainable development goals”** organized by ISGPB, 11<sup>th</sup> February 2017, NEW DELHI

## 9. Positions (s) of authority held in college:

**Class representative** during M.Sc. (Agri.) Genetics and Plant Breeding, batch 2014-16  
**Secretary** student’s Genetics club at Division of Genetics, IARI