

Breeding for Stress Tolerance and Quality Traits in Vegetable Crops

2–8 DECEMBER 2026 | ICAR–IIVR, Varanasi, Uttar Pradesh

DATES

2–8 Dec 2026

Lectures, practicals & field visits

VENUE

ICAR–IIVR

Jakhini, Varanasi (UP)

SEATS

25 only

Scientists or equivalent post

APPLY BY

31 Oct 2026

Selected candidates notified by 2 Nov

ABOUT THE PROGRAMME

Heat, cold, drought, salinity, waterlogging and emerging pests and diseases are increasingly threatening vegetable production — affecting flowering, fruit set, yield and marketable quality. Modern breeding must go beyond yield to combine stress tolerance with nutritional, processing and post-harvest quality. This training gives scientists, teachers, breeders and technical professionals contemporary knowledge and hands-on exposure to develop productive, high-quality and stress/ climate-resilient vegetable cultivars.

Training programme will be conducted in hybrid mode (Online & offline/physical).

WHAT YOU WILL LEARN

- **Stress physiology & screening** for temperature, moisture and salinity
- **Precision phenotyping**, genetic resources and pre-breeding
- **Molecular & genomic tools** — QTL mapping, GWAS, marker-assisted and genomic selection
- **Speed breeding & genome editing**
- **Quality trait evaluation** — colour, TSS, firmness, nutrition, phyto-chemicals, shelf-life
- **Hybrid breeding** and integrated selection strategies
- **Hands-on practicals**, demonstrations, field & protected-environment exposure, case studies and expert interactions

HOW TO REACH

The Institute is about 25 km south of Varanasi railway station, near Adalpura (Chitaipur–Chunar road). Varanasi is well connected by air, rail and road. From Varanasi Junction / Banaras railway station or Lal Bahadur Shastri International Airport, Babatpur to the campus (IIVR) by auto or taxi.



<https://maps.app.goo.gl/nFRycQPZXD9u9vY9>

WHO CAN APPLY

Scientist, Asst. Professor, SMS or equivalent/above from **SAUs, CAUs, ICAR Institutes, KVKs** etc. working in horticulture/ vegetable genetics & breeding, production, protection or allied sciences. Limited to **25 participants**.

Apply in the prescribed format, **duly approved and forwarded by the competent authority**, by post (original) and e-mail to director_iivr@gmail.com; director.iivr@icar.org.in

REGISTRATION FEE

₹1,000

ICAR INSTITUTES

₹5,000

SAU / CAU / KVK

Pay by RTGS / NEFT / UPI to '**ICAR Unit IIVR, Varanasi**' — Current A/c No. **30156620659**, IFSC **SBIN0014905**, State Bank of India, IIVR, Varanasi. Fee is non-refundable.

TRAVEL, BOARDING & LODGING

- Travel, boarding and lodging costs are borne by the sponsoring institute / university / organisation.
- IIVR provides session tea and working lunch. Breakfast and dinner are available on payment.
- Guest-house accommodation at the Institute campus on a paid & sharing basis. Family members are not permitted.

ABOUT ICAR–IIVR

A premier research organisation for the improvement, production and protection of vegetable crops, located in eastern Uttar Pradesh on the outskirts of the ancient city of Varanasi (Kashi).

IMPORTANT DATES

31 Oct 2026

Last date to apply

2 Nov 2026

Intimation to selected participants

SEND APPLICATIONS & QUERIES TO

Dr. Rajesh Kumar, Director

ICAR–Indian Institute of Vegetable Research

Post Jakhini (Shahanshapur), Varanasi – 221 305 (UP)

E-mail: director_iivr@gmail.com

: director.iivr@icar.org.in

COURSE TEAM

Course Director: **Dr. Jagesh Kumar Tiwari**, Principal Scientist

E-mail: jageshtiwari@gmail.com; Mob: 8629079084

Course Coordinators:

Dr. SK Tiwari, Senior Scientist

Dr. BK Singh, Principal Scientist