

SCIENTIST PROFILE



1. Name & Designation : Dr. Priyadarsini Sanghamitra
Scientist
2. Date of Birth : 8th July, 1976
3. Date of joining ICAR : 1st January, 2013
4. Date of joining the present post : 17th May, 2013
5. Qualification (highest degree) : Ph.D (Seed Science & Technology)
6. Post Doctoral Research Experience/Training: Nil
7. Area of Specialization/research interest: Plant Genetic Resources and Seed Science
and Technology
8. Significant Contribution including products and patents (Five bullets):
 - Yam (*Dioscorea floribunda*) could be conserved in *invitro* condition with reduced doses of sucrose up to 180 days in healthy condition.
 - Low temperature (10°C) condition could be a suitable *invitro* conservation strategy for *Dioscorea floribunda* in the repositories meant for monocrop conservation as it resulted in the development of aerial bulbils and basal bulbils and also plants were maintained in good health condition
 - Reduction in lysine and tryptophan content in QPM genotypes (Hybrid QPM seed of Shaktiman-1&2 their parental lines) was less compared to non QPM genotypes with natural ageing while reduction in protein and total soluble aminoacid content was more in QPM genotypes compared to non QPM genotypes.
 - Accelerated ageing (40°C, 4 day, 100% RH) and cold test could be used for assessing vigour of QPM genotypes.
 - 5.dup SSR 34 marker could be suitably use to confirm the hybridity and assessing genetic purity of three way cross QPM hybrid Shaktiman-1.
9. Awards/Honours: Nil
10. Publications (10 best): Nil