

Bio-data

1. Name : Aarti Bairwa
2. Date of Birth : 04-05-1985
3. Designation : Senior Scientist (Plant Nematology)
4. Name & Address of the Institute : ICAR-Central Potato Research Institute, Shimla
(Email, Telephone and fax) : Division of Plant Protection
Shimla -171001 (HP)
Telfax : 0177-2624460
Mobile : +9198824385832
E-mail : aarticpri13@gmail.com ; aarti.bairwa@icar.gov.in



Educational Qualifications (Starting from Graduation onwards):

S. No.	Degree	University	Year	Subjects
1.	Ph.D.	Anand Agricultural University, Anand, Gujarat	2013	Nematology
2.	Master's	Anand Agricultural University, Anand, Gujarat	2010	Nematology
3.	Bachelor's	Sardarkrushi Nagar Dantiwada Agricultural University, Gujarat	2008	Agriculture

Employment record and experience

Designation	Organization	Institution & Place of posting	Period
Scientist (Nematology)	ICAR	Central Potato Research Institute, Shimla	22.01.2016 to till date
Scientist (Nematology)	ICAR	Central Potato Research Station, Udhagamandalam	11.04.2013 to 21.01.2016
Scientist (Nematology)	ICAR	ICAR-NAARM	01.01.2013 to 10.04.2013

Awards Received

1.	Awarded "Rajeev Gandhi National Fellowship" for PhD during 2011-12 by University Grants Commission (UGC), New Delhi
2.	Dr. Davabhai Jethabhai Patel Gold Medal for best Post-Graduate (Ph.D.) student (2014) at Anand Agricultural University, Anand, Gujarat
3.	Jagar Nath Raina Memorial All India Best Publication Award (2017) By Society For Advancement of Human and Nature (SADHNA) at Dr YS Parmar University of Horticulture and Forestry, Nauni, Solan
4.	Young Woman Scientist Award (2020) By Agro Environmental Development Society (AEDS), Rampur, UP
5.	IPA Medal for the best paper award (2020) By Indian Potato Association, Shimla

Innovative technologies developed

1.	Developed technology for decontamination of cyst (<i>Globodera</i> spp.) infested potato seed tubers with sodium hypochlorite (NaOCl)
2.	Standardized different cropping schemes for management of potato cyst nematode at Kufri and fagu farm.
3.	Developed a new approach: <i>Solanum sisymbriifolium</i> a PCN resistant trap crop.
4.	Optimized efficacy of methyl bromide soil fumigation on PCN population dynamics
5.	Developed technology for management of late blight in <i>kharif</i> potato at Karnataka.
6.	Standardized molecular techniques for identification of <i>Globodera</i> species.
7.	Developed LAMP assay: A novel technology for rapid and sensitive detection of potato cyst nematode, <i>Globodera pallida</i> from soil
8.	Developed Kaolinite nano clay-shielded dsRNA crude formulation for the management of Potato Cyst Nematode (<i>Globodera</i> spp.).
9.	Developed a novel tissue culture-based method for in vitro screening of potato germplasm against common scab disease.

(Aarti Bairwa)
Senior Scientist,
Division of Plant Protection,
ICAR-CPRI,
Shimla -171001(HP)