

Dr. AMTUL WARIS

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1. Personal bio-data:

a) Position/Designation : Principal Scientist

b) Joining date in ICAR : 21/7/1993, (DOB: 14/03/1966)

c) Discipline and specialization: Agricultural Extension

d) Training/advance exposure in the area of work:

- Technical Project Management, September 17-19, 2007, American Management Association, Princeton, New Jersey, USA.
- Sustainability and Natural Resources Management, February 2-7 2008, Institute For International Education Washington, DC, USA at Denver, Colorado .
- Global Leadership Forum, October 28-31, Institute For International Education Washington, DC, USA at **Washington, DC, USA.**
- Market Led Extension, February 22-26 2010, MANAGE, at CAZRI.
- Short Course on Taming Drought, Sustaining Soil Productivity and Diversification of Agriculture through Arid Legume, 13-22 December 2004, Organized By Arid Legumes Society, CAZRI, Jodhpur.

e) Contribution to the scientific advancement:

- Identification of training needs of farm women in agriculture, livestock and household activities for formulation of need based training programs
- Identification of empowerment indicators of farm women
- Designed need based training modules for development personnel and farmers.
- Use of innovative extension approaches for dissemination of technologies to the farmers and other users.
- Developed partnership building model between research institute, NGO and State Department for dissemination of technologies developed by CAZRI for livelihood security of farm women

2. Future Planning of research:

- Undertake gender analysis to document and interpret how men and women farmers perceive and respond to climate variability to ensure their livelihood and food security
- Assessing the impact of introduced technologies/interventions on men and women from different socio-economic groups.
- Identifying the roles and needs of farm women to reduce their drudgery and increase their returns to their labor
- Identify the coping strategies that men and women farmers utilize in order to ensure a measure of food security in response to climate variability
- Gender-responsive policies and planning processes, which take into account the complexities of women's labor and the importance of their productive activities, could overcome some of the constraints in rice production.

3. Publications:

- **Amtul Waris**, YV Singh and Savita Singhal,2011,Women Farmers 'Training Needs and Relevant Training Programs for Livelihood Security in Arid Areas of Rajasthan,Indian Journal of Training and Development , (2),70-75.
- MM Azam, **Amtul Waris** and NM Nahar,2010, Suitability of some wildy grown seed oils for use as biodiesel,Energy Sources, Part A,32(7);657-664
- **Amtul Waris**,2009,Technological empowerment of farm women in arid zone of Rajasthan through need based training programs,Indian Journal of Training and Development , 31(3) ,20-33
- **Amtul Waris** and B. Singh,2005,Transfer of technology and dissemination of value added information for agrarian prosperity in arid zone,Journal of arid legumes2 (2) 241-243
- M. M. Azam, **Amtul Waris** and N.M.Nahar,2005, Prospects and potential of fatty acid methyl esters of some non-traditional seed oils for use as biodiesel in India,Biomass and Bioenergy.29 293-302

4. Other relevant activities of Scientist:

- Fulbright Hubert Humphrey Fellow at Michigan State University and Cornell University, USA (August 2007 to June 2008) .
- Patent,Aloe Pickle and the method of processing the same,M. M. Azam, Amtul Waris. A. Pancholy and R.K Kaul, Indian Patent Application Number.639/DEL/2010.
- MTC on Arid Horticulture, 5-12 January,2009.
- Training program on Sustainable Rain fed Farming Systems for Dry-land and Arid Areas, 23-30 October,2009.
- Model Training Course on Arid Horticulture and value addition, 11-18 January,2010.
- Model Training Course on Improved Livestock Management Technologies for Livelihood Security in Dry-land and Arid areas, 2-9 February,2010.

- Market-Led Extension, 22-16 February, 2010.
- Two-Day workshop for PIA and WDT members under IWMP Scheme, 4-5 April,2010.
- Two-Day workshop for PIA and WDT members under IWMP Scheme, 6-7 April,2010.
- Model Training Course on SRI, 28 Sep-5 Oct, 2011.