



Dr. P. D. Meena

Senior Scientist
(Plant Pathology)

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| 1 | Date of birth | : | 08-07-1964 |
| 2 | Educational Qualification | : | Ph. D. (Botany), University of Rajasthan, Jaipur (2005);
M. Sc., RAU, Bikaner (1997) |
| 3 | Joining Date in ICAR | : | 15-03-1989 |
| 4 | Joining Date in DMR | : | 15-11-1998 |
| 5 | Discipline / Specialization | : | Plant Pathology |
| 6 | Research Experience | : | 16 years |
| 7 | Training/advance exposure
in the area of work | | Obtained trainings on Application of Epidemiological
Principles in Plant Disease Control” from, CCHAU, Hisar;
Forecasting techniques in Agriculture from IASRI, New
Delhi.; Plant Disease Management on Small Farms” from,
GBPUA&T, Pantnagar. |

International Training

Three months research attachment training at Rothamsted
Research, Harpenden, UK

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| 8 | Contribution to the Scientific advancement | | <ul style="list-style-type: none"> Associated in the development and licensing of Indian mustard (<i>Brassica juncea</i>) variety NRCDR-601 (NBPGR 272 X RK 9903) (average yield 2317 kg/ha) for timely sown irrigated conditions in zone II in Rajasthan, Haryana, and Punjab. Identified and developed formulation of <i>Trichoderma harzianum</i> isolate GR and aqueous bulb extract (1%) of <i>Allium sativum</i> for effective control of Alternaria blight and Sclerotinia rot of rapeseed-mustard. Identification of confirmed sources in <i>Brassica juncea</i> for resistance to multiple isolates of <i>Albugo candida</i>. Developed location specific weather based forecasting models for rapeseed-mustard diseases |
| 9 | Future planning of research | | <ul style="list-style-type: none"> To enhance tolerance level against Alternaria blight in Indian mustard To confirm the pathogenicity of <i>Alternaria brassicae</i> isolates to designate the isolates To develop the more specific forecasting models |

10 Awards/Recognitions

- Best paper presentation award (2005) by the Indian Society Mycology & Plant Pathology, Udaipur, Rajasthan, India
- Appreciation Certificate (2010) Plant Protection Association of India, Hyderabad
- K.S. Bilgrami Best Paper Presentation Award (2010) by Indian Society of Mycology and Plant Pathology
- *Best Paper Presentation Award* (2012) by Society for Rapeseed-Mustard Research, Bharatpur
- Dr. P.R. Kumar Outstanding Brassica Scientist Award (2012) Society for Rapeseed-Mustard Research, Bharatpur
- Fellow (2012) of Indian Society of Mycology & Plant Pathology, Udaipur
- Fellow (2012) of Plant Protection Association of India, Hyderabad
- Best Scientist Award (2013) of Directorate of Rapeseed-Mustard Research, Bharatpur
- Best Paper Presentation Award (2014) by Society for Rapeseed-Mustard Research, Bharatpur

11 Publications (best five)

- **Meena, Prabhu Dayal**; Meena, Ramji Lal; Chattopadhyay, Chirantan and Kumar, Arvind (2004) Identification of critical stage for disease development and bio-control of Alternaria blight of Indian mustard (*Brassica juncea*). *Journal of Phytopathology* **152**: 204-209.
- **Meena, Prabhu Dayal**; Chattopadhyay, Chirantan; Kumar, Amrender; Awasthi, Rajendra Prasad; Singh, Rajendra; Kaur, Sarbjeet; Thomas, Lijo; Goyal, Poonam and Chand, Ramesh. (2011). Comparative study on the effect of chemicals on Alternaria blight in Indian mustard – A multi-location study in India. *Journal of Environmental Biology* **32**: 375-379
- **Meena, Prabhu Dayal**; Asha Rani, Meena, Amavtar; Sharma, Pankaj; Gupta, Riteka and Chowdappa, Pallem. (2012). Aggressiveness, diversity and distribution *Alternaria brassicae* isolates infecting oilseed Brassica in India. *African Journal of Microbiology Research* **6**: 5249-5258.
- **Meena, Prabhu Dayal**; R.B. Gour, Gupta, Jagdish Chandra; H.K. Singh; Awasthi, Rajendra Prasad; Netam, R.S. ; Godika, Shailesh; Sandhu, Prabhjot Singh; Prasad, Rajendra; Rath, Ajeet Singh; Rai, Dinesh; Thomas, Lijo; Patel, Govind A; and Chattopadhyay, Chirantan. (2013). Non-chemical agents provide tenable, eco-friendly alternatives for the management of the major diseases devastating Indian mustard (*Brassica juncea*) in India. *Crop Protection* **53**: 169-174
- Saharan, Govind Singh; Verma, Prithwi Raj; **Meena, Prabhu Dayal** and Arvind Kumar. (2014). *White rust of crucifers: Biology, Ecology and Management*. Springer Publications, XXXVIII, 244 pp. ISBN 978-81-322-1791-6.

12. Professional membership

- Indian Phytopathological Society, New Delhi
- Indian Society of Oilseeds Research, Hyderabad
- Indian Society of Mycology and Plant Pathology, Udaipur
- Plant Protection Association of India, Hyderabad
- Indian Society of Soil Conservationists, Dehradun
- Society for Rapeseed-Mustard Research, Bharatpur