1.	**Name**	**DR. LAXMI RAWAT** 
2.	**Designation**	**Jr. Research Officer /Assistant Professor (Plant Pathology)**
3.	**Qualifications**	Ph.D
4.	**Contact Address, E-mail, Mobile Number**	Plant Pathology Division College of Forestry, Ranichauri, Tehri Garhwal -249 199 V.C.S.G. Uttarakhand University of Horticulture and Forestry, Bharsar, Uttarakhand, INDIA laxmirawatpathology@gmail.com +91 9411106588 +91 9719431521
5.	**Discipline**	**Agriculture (Major: Plant Pathology, Minor: Molecular Biology and Biotechnology)**
6.	**Area of Specialization**	Biological Control, Host-Pathogen Interactions and Integrated Disease and Pest Management
7.	**Research Interest**	1. To standardize advance techniques for biological plant diseases management. 2. Alleviation of biotic and abiotic stresses in plants by the use of bioprospecting *Trichoderma*, *Pseudomonas* and *Bacillus* spp. 3. Application of improved techniques in small millets production and protection.
8.	**Professional Experience**	1. Working as a **Junior Research Officer/ Assistant Professor** at College of Forestry, Ranichauri, V.C.S.G. UUHF, Bharsar w.e.f 23.09.2014 to continue. 2. Worked as a **Subject Matter Specialist** (Plant Protection) and **OIC, KVK** at KVK, Ranichauri, V.C.S.G. UUHF, Bharsar for one year. 3. Worked as a **Teaching Research Personnel** at College of Forestry, Ranichauri, VCSG UUHF, Bharsar for one year. 4. Worked as a **Post Doc. Fellow** in an **Indo- German** project entitled "Chitosan/copper nanoparticles and biopesticides for knowledge based plant protection" funded by **DBT (Department of Biotechnology)** for one year at G.B.P.U.A&T, Pantnagar. 5. Worked as a **Senior Research Fellow** in the project entitled "Large Scale demonstration of IPM through KVK's in network mode for one year at G.B.P.U.A&T, Pantnagar.
9.	**Awards/Honors/Scholarship /Fellowship**	Best Paper Award : (Year 2016) Young Scientist Award : (Year 2016 and Year 2017) Scientist of the Year Award: (Year 2017)
10.	**Total Number of Publication (Referred Journal)**	**Research papers in refereed journals (International and National)** = Thirty Two **(32)** Research Papers in referred International and National Journals of repute.

11.	**Selected Publication (Best Five)**	**<u>BEST SIX INTERNATIONAL PUBLICATIONS:-</u>** 1. **Laxmi Rawat,** Y. Singh, N. Shukla and J. Kumar (2011). Alleviation of the adverse effect of salinity stress in wheat by seed biopriming with salinity tolerant isolates of *Trichoderma harzianum*. ***Plant and Soil***. 347(1): 387-400. **NAAS Rating= 9.05, Impact Factor= 3.306**, **Citations till date= 42** **Publisher:** Springer (From Royal Netherland Society of Agricultural Science) 2. **Laxmi Rawat**, Y. Singh and J. Kumar (2012). Seed biopriming with salinity tolerant isolates of *Trichoderma harzianum* alleviates salinity stress in rice*:* Growth, Physiological and Biochemical characteristics. ***Journal of Plant Pathology*.** 94(2):353-365. **NAAS Rating= 7.27, Impact Factor= 1.267, Citations till date= 18** **Publisher:** Springer (From Italian Phytopathological Society, Italy) 3. **Laxmi Rawat,** Y. Singh, N. Shukla and J. Kumar (2013). Salinity tolerant *Trichoderma harzianum* reinforces NaCl tolerance and reduces population dynamics of *Fusarium oxysporum* f.sp. *ciceri* in chickpea (*Cicer arietinum* L.) under salt stress conditions. ***Archives of Phytopathology and Plant Protection.*** **Publisher:** Taylor & Francis (From Germany), **Citations till date= 16** 4. Nandani Shukla, **Laxmi Rawat** and J. Kuma**r (**2012). Biochemical and physiological responses of rice (*Oryza sativa* L.) influenced by *Trichoderma* under drought stress. ***Plant Physiology and Biochemistry*.** 54:78-88. **NAAS Rating= 8.72, Impact Factor= 3.217, Citations till date= 95** **Publisher:** Elsevier (From Federation of European Societies of Plant Biology and The French Society of Plant Biology) 5. Nandani Shukla, **Laxmi Rawat** and J. Kuma**r (**2014).Seed biopriming with drought tolerant isolates of *Trichoderma harzianum* promote growth and drought tolerance in *Triticum aestivum*. ***Annals of applied biology*. NAAS Rating= 8.05, Impact Factor= 2.046, Citations till date= 21** **Publisher:** Wiley (Association of Applied Biologists) 6. **Laxmi Rawat,** T.S. Bisht, Akshit Kukreti,(2016). Bioprospecting Drought Tolerant *Trichoderma harzianum* Isolates Promote Growth and Delay the Onset of Drought Responses in Wheat (*Triticum aestivum* L). ***Molecular Soil Biology*.** 7(4):1-15. **Publisher:** Biopublishers (From Canada), **Citations till date= 02**
12.	**Number of Books/Manuals/Monographs**	Book (s) = Two (02) Technical Manual = One (01) Book Chapters = Four (04) Popular Articles = Twenty (25) Booklets = Two (02) Pamphlets= Twenty (20)

13.	Research Project as PI/ Nodal Officer	Project Name	Funding Agency	From & To		Status of project
1	**Project Investigator**	All India Coordinated Research Project on Small Millets (AICRP on Small Millets)	ICAR	25.05.16	Continue	Running
2	**Project Investigator**	All India Network Project on Soil Arthropod Pests (AINP on SAPs)	ICAR	12.02.15	31/03/18	Shifted to Pantnagar
3	**Co- Project Investigator**	Capacity Building of Scheduled Tribe Population of Uttarakhand at Kalsi Block (Dehradun) Through Agro Technological Interventions	ICAR	Year 2013	Year 2014	Completed
4	**Project Investigator**	National Initiative on Climate Resilient Agriculture (NICRA)	ICAR	30/09/13	22/09/14	Running
5	**Project Investigator**	Livelihood Development Programme of Farmers in Dam Affected Areas of District Tehri Garhwal Through Integrated Farming Systems Approach	ICAR	05.02.16	06.06.18	Running
6	**Project Investigator**	Management Strategies against Rhizome rot of Ginger using Semi Organic Farming Framework.	Horticulture Mission for North East and Himalayan States (HMNEH)	05.08.17	Continue	Running
7	**Project Investigator**	Development and Validation of Integrated Disease Management Strategies Against Rhizome Rot and Leaf Spot of Ginger.	Horticulture Mini Mission- I (HMM-1)	Year 2013	Year 2014	**Completed**
8	**Project Investigator**	Large Scale Demonstration of Mushroom Production Technologies in Scheduled Tribe Community of Uttarakhand.	Horticulture Mini Mission- I (HMM-1)	Year 2014	Year 2015	**Completed**
9	**Project Investigator**	Establishment of Plant Health Clinic.	Horticulture Mini Mission- II (HMM-II)	Year 2015	Year 2016	**Completed**
10	**Project Investigator**	Establishment of Disease Forecasting Unit.	Horticulture Mini Mission- II (HMM-II)	Year 2015	Year 2016	**Completed**

11	**Project Investigator**	Bio-efficacy and Phyto-toxicity Evaluation of Bupirimate 25 % EC against Powdery Mildew disease on Apple	ADAMA India Pvt. Ltd.	Year 2018	Continue	Running
12	**Project Investigator**	Bio-efficacy and Phytotoxicity Evaluation of coded samples BAS 750 02 F and BAS 751 01 F on Apple diseases	BASF India Pvt. LTD.	12.10.17	Continue	Running
13	**Project Investigator**	Bio-efficacy and Phytotoxicity Evaluation of UPF 513 and UPF 209 b on Apple	UPL limited	23.07.18	Continue	Running
14	**Project Investigator**	Bio-efficacy Evaluation of Folio Gold 440 SC (Metalaxyl – M 3.3% + Chlorothalonil 33.1% SC) against Rhizome Rot and Virtako 1.5 GR (Chlorantraniliprole 0.5% + Thiamethoxam1%) against pests' complex in **Ginger**	Syngenta India Ltd.	12.10.17	Continue	Running
15	**Project Investigator**	Evaluation of Sedaxane 2.5% w/v + Fludioxonil 2.5% w/v (50 FS) as seed treatment against important soil & seed borne diseases of **Wheat.**	Syngenta India Ltd.	Year 2017	Continue	Running
16	**Project Investigator**	Bio-efficacy evaluation of MACT-01 and CUSTODIA (Azoxystrobin 11% + Tebuconazole 18.3%) against diseases of Apple	ADAMA India Pvt. Ltd.	Year 2016	Continue	Running
17	**Project Investigator**	"Bio-efficacy & Phytotoxicity study of POLYRAM (Metiram 70% WG) and MACCANI (Pyraclostrobin 4 % + Dithioanon 12 % WG) on Apple	BASF India Limited	26.08.16	Continue	Running
18	**Project Investigator**	Evaluation of Chlorothalonil 40% + Difenoconazole 4% w/w SC (Bravo Top 550 SC) and Pydiflumetofen 7.5% + Difenoconazole 12.5% w/v (200 SC) against apple diseases	Syngenta India Ltd.	12.10.17	Continue	Running
19	**Project Investigator**	Bio-efficacy & Phytotoxicity evaluation of ALIETTE (FOSETYL AL 80 % WP),	Bayer Crop Science	22.04.17	Continue	Running

		FLINT PRO (TRIFLOXYSTROBIN 3.5 % + PROPINEB 61.3 % WG) and TEBUCONAZOLE 430 SC in apple.				
20	**Project Investigator**	Bio-efficacy cum Phytotoxicity Evaluation of Chlorothalonil 75% WP Against Apple Scab.	Megmani Industries Ltd.	Year 2012	Year 2014	**Completed**
21	**Project Investigator**	Evaluation of SILPGR-Pzole 23% SC (Cultar) for use in apple for assured flowering and better yield.	Syngenta India Ltd.	Year 2012	Year 2014	**Completed**
22	**Project Investigator**	Evaluation of Proquinazid 20EC against powdery mildew of Apple	DuPont India Pvt. Ltd.	12.03.15	Year 2017	**Completed**
23	**Project Investigator**	Evaluation of Proquinazid 20EC against powdery mildew of **Pea**: Funded by	DuPont India Pvt. Ltd.	12.03.15	Year 2017	**Completed**
24	**Project Investigator**	Evaluation of SAAF (Carbendazim 12% + Mancozeb 63% WP) against apple diseases	UPL Ltd.	11.12.14	Year 2017	**Completed**
25	**Project Investigator**	Bio-efficacy testing of bio-pesticides viz., Calphomil, Calgard, Cal-MB and Calnova against diseases and pests on **vegetables**.	Camson Biotechnol-ogies Ltd.	22.04.15	Year 2017	**Completed**
26	**Project Investigator**	Evaluation of fluxapyroxad 75 g/l + Difenoconazole 50 g/l SC (BAS 717 00F) against Scab and Powdery Mildew of Apple.	BASF India Ltd.	26.03.14	Year 2016	**Completed**
27	**Project Investigator**	Bioefficacy of Companion (Carbendazim 12% + Mancozeb 63% WP) on apple diseases.	INDOFIL India Ltd.	26.03.14	Year 2016	**Completed**
28	**Project Investigator**	Bio-efficacy and Phytotoxicity Study of Promalin for Growth and Etoxazole 10 % SC Against Mites in Apple	Sumitomo Chemical India Pvt. Ltd.	26.08. 16	30.09. 18	**Completed**

	Other achievements if any **(Please specify)**	1. Organized two days workshop of the ICAR funded project entitled *"All India Network Project on Soil Arthropod Pests"* w.e.f 19th & 20th June 2016 as **an Organizing Secretary** at College of Forestry, Ranichauri, V.C.S.G. UUHF, Bharsar. 2. Nominated as **one of the members of "Monitoring Team" by ICAR** under the project "AICRP on Small Millets" for monitoring Eastern Zone comprising Berhampur (Odisha), Jagdalpur (Chattisgarh) and Vizianagaram (AP) in **year 2015** and for Northern Zone comprising Almora and Ranichauri in **year 2017**. 3. Organized one day Farmers' Fair as an Organizing Secretary on dated 22.03.2017 under the project entitled *"Livelihood Development of Framers in Dam Affected Areas of Distt. Tehri Garhwal through Integrated Farming Systems Approach"* funded by SEWA THDC at College of Forestry, Ranichauri in which **600 farmers** were benefited. 4. Reported first record of leaf blast disease in Little Millet crop from mid hills of Uttarakhand and the findings got published in Journal of Mycopathological Research. 54(1): 145-147, 2016; (ISSN 0971-3719). 5. Submitted the pure culture of *Trichoderma asperellum* in ITCC, New Delhi along with its passport database with complete description of its broad spectrum action including alleviation of biotic and abiotic stresses in plants and have received the accession no for the same (ITCC -7903). 6. Guided two students of M.Sc. (Ag) Seed Science and Technology as an Advisor and one student as a Co-Advisor. 7. Guided eight M.Sc. students of Forestry and Agriculture in their research work as a member of their Advisory Committee. 8. Organized a total of five (05) sponsored training programmes (sponsored by INSIMP, HMNEH, CHEA, and ATMA) as a **course director** at College of Forestry, Ranichauri in which farmers and line department people from different districts participated. 9. Participated and presented papers in twenty five (25) national and international seminars/workshops/symposiums/ conferences. 10. Running Bio-control Unit and Mushroom Unit at College of Forestry, Ranichuari since 2013. 11. Have done 21 days ICAR sponsored CAFT training programme on the topic entitled ***"Technologies Advances to Minimize Pre- and Post- Harvest Losses in Agriculture and Horticultural Crops to Enhance Farmer's Income"*** held at G.B.P.U.A &T, Pantnagar w.e.f Nov. 22, 2017 to Dec. 12 2017. 12. Have done 10 days ICAR sponsored short training programme on the topic ***"Mountain Hydrology and Climate Change"*** held at G.B.P.U.A &T, Pantnagar **w**.e.f. March. 20, 2018 to March 29, 2018. 13. Have done 21 days ICAR sponsored CAFT training programme on the topic entitled ***"Advances in Biological Control of Plant Diseases"*** held at ICAR-Indian Agricultural Research Institute (IARI), New Delhi w.e.f. **24th May to 13th June, 2018.**