

## Division of Crop Research

### Personal Details



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### Research Interest

- Integrated farming system for small and marginal farmers
- Weed management in *jhum* rice for sustainable production
- Rice-wheat cropping system and nutrient management in baby corn

### Research Highlights

#### Memberships / Fellowships

1. Indian Society of Weed Science
2. Journal of Food Legumes
3. Indian Journal of Agronomy

#### Technology Developed

1. Developed 04 no. of integrated farming system model suitable for < 1 acre (Model 1: Horticulture+Fisheries+ Piggery, Model 2: Agriculture + Horticulture + Fishery+ Duckery, Model 3: Agriculture+ Horticulture + Fishery+ Piggery, Model 4: Agriculture + Horticulture + Fishery+Poultry+ Azolla+Mushroom for small and marginal farmers of Nagaland
2. Standardize the optimum doses and timing of salt application for weed management in *jhum* rice
3. Identified suitable high yielding rice varieties for high altitude condition of Nagaland

#### Publication Details

1. **Kumar Rakesh** and Bohra JS.2014.Effect of NPKS and Zn application on growth, yield, economics and quality of baby corn. *Archives of Agronomy and Soil Science* 60 (9):1193-1206, <http://dx.doi.org/10.1080/03650340.2013.873122>.
2. **Kumar Rakesh** and Kumawat N.2014.Effect of sowing date, seed rates and integrated nutrient management on production potential and profitability of summer mungbean in Eastern Himalaya. *Archives of Agronomy and Soil Science* **60** (9):1207-1227, [doi.org/10.1080/03650340.2013.874559](http://dx.doi.org/10.1080/03650340.2013.874559).
3. **Kumar Rakesh**, Chatterjee D, Pandey A, Roy A and Kumar M.2014.Productivity, quality and soil health as influenced by lime in ricebean cultivars under foothills of Northeastern India. *The Crop Journal* **2**: 338-344, <http://dx.doi.org/10.1016/j.cj.2014.06.001>.
4. **Kumar Rakesh**, Deka BC, Kumar M and Ngachan SV.2015.Productivity, quality and soil health as influenced by organic, inorganic and biofertilizer on field pea in Eastern Himalaya. *Journal of Plant Nutrition* **38**:2006–2027, DOI: 10.1080/01904167.2014.988355.
5. **Kumar Rakesh**.2015.Influence of mulching, liming and farm yard manures on production potential, economics and quality of maize (*Zea mays* L.) in rainfed condition of North Eastern India. *Bangladesh Journal of Botany* **44** (3): 391-398.
6. **Kumar Rakesh**.2015. Effect of NPKS on growth, yield and quality of late sown *toria* varieties (*Brassica rapa* var. *toria*) under rainfed condition of North East India. *Bangladesh J Botany* **44** (4): 521-528

- 7. Kumar Rakesh**, Nandan R, Kumar V, Prasad S and Singh D.2009. Response of *summer* mungbean cultivars to sowing time and seed rate. *Indian Journal of Agricultural Sciences* **79** (4): 309-312.
- 8. Kumar S, Kumar Rakesh** and Om Hari.2013.Studies on shelf life of *Trichoderma viride* in talc and charcoal based formulations. *Indian Journal of Agricultural Sciences* **83** (5): 566-569.
- 9. Kumari A, Singh ON and Kumar Rakesh**.2014.Root growth, crop productivity, nutrient uptake and economics of dwarf pea (*Pisum sativum* L.) as influenced by integrated nutrient management.*Indian Journal of Agricultural Sciences* **84** (11):1347-1351.
- 10. Kumawat N, Singh RP, Kumar Rakesh**, Yadav TP and Om Hari.2015.Effect integrated nutrient management on productivity, nutrient uptake and economics of rainfed pigeonpea (*Cajanus cajan*) and blackgram (*Vigna mungo*) intercropping system. *Indian Journal of Agricultural Sciences* **85** (2): 23-28.
- 11. Bohra JS and Kumar Rakesh**.2015.Effect of crop establishment methods on productivity, economics and energetics in rice (*Oryza sativa*)-wheat (*Triticum aestivum*) system in irrigated condition of Eastern Uttar Pradesh. *Indian Journal of Agricultural Sciences* **85** (2): 69-75.
- 12.Kumar Rakesh**, Kumar M, Kumar A and Pandey A.2015.Productivity, profitability, nutrient uptake and soil health as influenced by establishment method and nutrient management practices in transplanted rice under hill ecosystem of North East India. *Indian Journal of Agricultural Sciences* **85** (5): 30-35.
- 13.Kumar Rakesh**, Deka BC, Kumawat N and Ngachan SV.2014.Effect of integrated nutrition, bio-fertilizers and zinc on production potential and profitability of garden pea (*Pisum sativum* L.) in Eastern Himalaya, India. *Legume Research* **37** (6): 614-620, DOI:10.5958/0976-0571.2014.00685.7.
- 14. Jeet S, Singh JP, Kumar Rakesh and Om Hari**.2014.Response of nitrogen and sulphur levels on productivity and profitability of quality protein maize hybrid (*Zea mays* L.) under dryland condition of Eastern Uttar Pradesh. *Indian Journal of Agricultural Sciences* **84** (5): 589-594.
- 15. Kumar Rakesh**, Deka BC and Ngachan SV.2015.Response of summer mungbean to sowing time, seed rates and integrated nutrient management. *Legume Research* **38** (3):348-352, DOI:10.5958/0976-0571. 2015.00119.8
- 16. Chatterjee D, Kumar Rakesh**, Kuotsu R and Deka BC.2016.Validation of traditional weed control method through common salt application in hill region of Nagaland. *Current Science* **110** (8): 1159-1167.
- 17. Kumar A, Sen A and Kumar Rakesh**.2016.Micronutrient fortification in crop to enhance growth, yield and quality of aromatic rice. *Journal of Environmental Biology*, **37** (5/6): **In Press**.
- 18. Kumar Rakesh**.2014.Productivity, profitability and nutrient uptake of maize (*Zea mays* L.) as influenced by management practices in North East India. *Indian Journal of Agronomy* **60** (2): 273-278.
- 19.Kumar Rakesh**, Bohra JS, Singh AK and Kumawat N.2015. Productivity, profitability and nutrient use efficiency of baby corn (*Zea mays* L.) as influenced of varying fertility level.*Indian Journal of Agronomy* **60** (2): 285-290.
- 20. Kumawat N, Singh RP, Kumar Rakesh** and Om Hari.2013.Effect of integrated nutrient management and pigeonpea+blackgram intercropping on productivity, economics and water use efficiency of rainfed pigeonpea. *Indian Journal of Agronomy* **58** (3): 109-115.