

Dr. R Rustum Zhiipao

Personal Profile



Dr. R Rustum Zhiipao
Assistant Professor
Department of Agronomy
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Educational profile

Ph.D. (Agronomy) ICAR-Indian Agricultural Research Institute New, Delhi
M.Sc. (Agronomy) ICAR-Indian Agricultural Research Institute New, Delhi
B.Sc. (Agriculture) University of Agricultural Sciences, Dharwad, Karnataka

Professional Experience

Assistant Professor June 2023- Till Date
Department of Agronomy,
Rajiv Gandhi University, Arunachal Pradesh

Administrative Experience

Head (i/c) July 2023- Till Date
Department of Agronomy,
Rajiv Gandhi University, Arunachal Pradesh

Awards & Honour's

- ICAR-IARI- Senior Scholarship- Ph.D., 2019
- ICAR-NET- 2019;2021;2023
- IARI- Junior Research Fellowship (JRF), 2017
- ICAR-National talent scholarship (NTS), 2013

Membership of Professional Bodies

- **Lifetime member** of The Indian Society of Agronomy, ICAR-IARI, New Delhi

Research Interests

- Cropping system
- Root-system traits
- Organic farming
- Climate-smart Agronomic practices
- Precision nutrient management
- Conservation Agriculture

Research Publications

- Zhiipao, R. R., Pooniya, V., Kumar, D., Biswakarma, N., Bainsla, N. K., Saikia, N., Duo, H., Dorjee, L., Govindasamy, P., Lakhena, K. K. and Jat, R. D. 2024. Late-sown stress afflict post-anthesis dry matter and nutrient partitioning and their remobilization in *aestivum* wheat genotypes. *Journal of Agronomy and Crop Science*, 00, e12693. **IF:3.5**
- Zhiipao, R.R., Pooniya, V., Biswakarma, N., Kumar, D., Shivay, Y.S., Dass, A., Mukri, G., Lakhena, K.K., Pandey, R.K., Bhatia, A. and Govindasamy, P. 2023. Timely sown maize hybrids improve the post-anthesis dry matter accumulation, nutrient acquisition and crop productivity. *Scientific Reports*, 13(1), p.1688. **IF: 4.37**
- Zhiipao, R.R., Pooniya, V., Kumar, D., Biswakarma, N., Shivay, Y.S., Dass, A., Bainsla, N.K., Lakhena, K.K., Pandey, R.K., Burman, A. and Bhatia, A. 2023. Above and below-ground growth, accumulated dry matter and nitrogen remobilization of wheat (*Triticum aestivum*) genotypes grown in PVC tubes under well-and deficit-watered conditions. *Frontiers in Plant Science*, 14, p.1087343. **IF:5.6**
- Biswakarma, N., Pooniya, V., Zhiipao, R.R., Kumar, D., Shivay, Y.S., Das, T.K., Roy, D., Das, B., Choudhary, A.K., Swarnalakshmi, K. and Govindasamy, P. 2023. Identification of a resource-efficient integrated crop management practice for the rice-wheat rotations in south Asian Indo-Gangetic Plains. *Agriculture, Ecosystems & Environment*, 357, p.108675. **IF: 6.57**
- Duo, H., Dorjee, L., L Peace Raising, L.P. and Zhiipao R. R. 2023. Genomic assisted breeding and holistic management of abiotic and biotic stress in silkworm host cultivation: A review. *Indian Journal of Agricultural Sciences*, 93 (7): 691–698. **IF:NA**
- Biswakarma, N., Pooniya, V., Zhiipao, R.R., Kumar, D., Shivay, Y.S., Meena, M.C., Lama, A., Das, K., Jat, R.D., Puniya, M. and Babu, S. 2022. Designing resource efficient integrated crop management modules for direct seeded rice-zero till wheat rotation of north western India: Impacts on system productivity, energy-nutrient-carbon dynamics. *Archives of Agronomy and Soil Science*, pp.1-15. **IF: 2.24**
- Pooniya, V., Zhiipao, R.R., Biswakarma, N., Kumar, D., Shivay, Y.S., Babu, S., Das, K., Choudhary, A.K., Swarnalakshmi, K., Jat, R.D. and Choudhary, R.L. 2022. Conservation agriculture based integrated crop management sustains productivity and economic profitability along with soil properties of the maize-wheat rotation. *Scientific Reports*, 12(1), p.1962. **IF: 4.37**
- Biswakarma, N., Pooniya, V., Zhiipao, R.R., Kumar, D., Verma, A.K., Shivay, Y.S., Lama, A., Choudhary, A.K., Meena, M.C., Bana, R.S. and Pal, M. 2021. Five years integrated crop management in direct seeded rice-zero till wheat rotation of north-western India: Effects on soil carbon dynamics, crop yields, water productivity and economic profitability. *Agriculture, Ecosystems & Environment*, 318, p.107492. **IF: 6.57**
- Pooniya, V., Zhiipao, R.R., Biswakarma, N., Jat, S.L., Kumar, D., Parihar, C.M., Swarnalakshmi, K., Lama, A., Verma, A.K., Roy, D. and Das, K. 2021. Long-term conservation agriculture and best nutrient management improves productivity and profitability coupled with soil properties of a maize-chickpea rotation. *Scientific Reports*, 11(1), p.10386. **IF: 4.37**
- Pooniya, V., Biswakarma, N., Parihar, C.M., Swarnalakshmi, K., Lama, A., Zhiipao, R.R., Nath, A., Pal, M., Jat, S.L., Satyanarayana, T. and Majumdar, K. 2021. Six years

of conservation agriculture and nutrient management in maize–mustard rotation: Impact on soil properties, system productivity and profitability. *Field Crops Research*, 260, p.108002. **IF: 6.14**

- Biswakarma, N., Pooniya, V. and Zhiipao, R.R. 2020. Assessing productivity and profitability of maize (*Zea mays*) under conservation tillage and nutrient management. *Indian Journal of Agronomy*, 65(3), pp.368-371. **IF:NA**

Book Chapter

- Das, K., Biswakarma, N., Zhiipao, R., Kumar, A., Ghasal, P.C. and Pooniya, V., 2020. Significance and management of green manures. In: Giri B, Varma A (eds). *Soil Health. Soil biology, (Springer)*, pp.197-217.

Conferences

- Fifth International Agronomy Congress, “Agri Innovations to Combat Food and Nutrition Challenges” 23-27 November, 2021, PJTSAU, Hyderabad, India.

Invited talks

- Delivered an invited talks on “*Vermicomposting*” for one-day training program (‘Promotion of Low-Cost Technologies-Biocomposting’) on 25th September, 2023 at Itanagar, jointly organised by G.B. Pant National Institute of Himalayan Environment, North-East Regional Centre, Itanagar, AP and Department of Urban Development & Housing, Government of Arunachal Pradesh.