

## Curriculum - Vitae



**Arvind Kumar Yadav**

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### **PERSONAL HISTORY**

1. Last name	2. First name	3. Father names
<b>Yadav</b>	<b>Arvind Kumar</b>	<b>Ramswroop Yadav</b>
4. Date of birth(Y/M/D)	5. Place of birth	6. Nationality at birth
1987-07-13	Alwar	Indian
9. Height (cm)	10. Weight (kg)	11. Marital Status
162	70	married
13. Permanent address	14. Postal address	
<b>VPO.- Santhalpur, Tehsil- Bansur, Distt.- Alwar, Rajasthan 301402</b>	<b>COA, Kishangarhbas-khiarthal-Tijara-301405</b>	
15. Permanent telephone no.	Home telephone no.	E-mail address
+91-9468393264		<a href="mailto:yadav.arvind580@gmail.com">yadav.arvind580@gmail.com</a>

### **16. Educational Qualification**

S.No	Exam passed	Year	Board/University	Division
1	Ph.D. (Agronomy)	2010-2014	CCS Haryana Agricultural University, Hisar (Haryana) Thesis: "Agro physiological traits for drought tolerance in pearl millet ( <i>Pennisetum glaucum</i> L.)" OGPA: 7.6/10 or 76.00%	I
5	M.Sc. (Agronomy)	2008-2010	MPUA&T (Udaipur) Thesis: "Effect of tillage and integrated nutrient management on sorghum ( <i>Sorghum bicolor</i> ) productivity" OGPA: 7.39/10.0 or 73.90%	I
6	B.Sc. (Ag) Hons.	2004-2008	Rajasthan Agricultural University, Bikaner, Rajasthan OGPA: 6.62/10.0 or 66.20%	I

## 17. Research Experience

Seven years experience of research and project management

## 18. Achievements and Awards

1. Qualified “All India Competitive Examination for ICAR’ JRF and admission to Masters Degree Programme conducted by Indian Council of Agricultural Research (ICAR) in 2007
2. Qualified “Senior Research Fellow Examination conducting by NAARM” in 2010
3. Qualified NET conducted by ASRB in 2014

## 19. List of Publications

**Yadav, A. K.**, Seth, A., Kumar, V., Datta, A. 2022. Agronomic Biofortification of Wheat Through Proper Fertilizer Management to Alleviate Zinc Malnutrition: A Review. *Communications in Soil Science and Plant Analysis*, 10.1080/00103624.2022.2110892.

Datta, A., Nayak, D., Smith, J. U., Sharma, P. C., Jat, H. S., **Yadav, A. K.**, Jat, M. L. 2022. Climate smart agricultural practices improve soil quality through organic carbon enrichment and lower greenhouse gas emissions in farms of bread bowl of India. *Soil Research*. <https://doi.org/10.1071/SR21031> (NAAS rating- 7.99)

Yadav, M.R., Choudhary, M., Singh, J., Lal, M.K., Jha, P.K., Udwat, P., Gupta, N.K., Rajput, V.D., Garg, N.K., Maheshwari, C., Hasan, M., Gupta, S., Jatwa, T. K., Kumar, R., **Yadav, A. K.**, Prasad. P. V.V. 2022. Impacts, Tolerance, Adaptation, and Mitigation of Heat Stress on Wheat under Changing Climates. *Int. J. Mol. Sci.* 23, 2838. <https://doi.org/10.3390/ijms23052838> (NAAS rating- 11-92)

Basak, N., Mandal, B., Biswas, S., Basak, P., Mitran, T., Saha, B., Rai, A.K., Alam, M.K., **Yadav, A.K.**, Datta, A. 2022. Impact of Long-Term Nutrient Management on Soil Quality Indices in Rice-Wheat System of Lower Indo-Gangetic Plain. *Sustainability*, 14, 6533. <https://doi.org/10.3390/su14116533> (NAAS rating- 9.25)

Jat, H.S., Jat, R.D., Nanwal, R.K., Lohan, S.K., **Yadav, A.K.**, Poonia, T., Sharma, P.C., Jat, M.L., 2020. Energy use efficiency of crop residue management for sustainable energy and agriculture conservation in NW India. *Renewable Energy* 155: 1372-1382. (NAAS rating- 11.44)

Jat, H.S., Choudhary, M., Datta, A., **Yadav, A.K.**, Meena, M.D., Devi, Ritu., Gathala, M.K., Jat, M.L., McDonald, A., Sharma, P.C. 2020. Temporal changes in soil microbial properties and nutrient dynamics under climate smart agriculture practices. *Soil & Tillage Research* 199:104595. (NAAS rating- 10.68)

Jat, H.S., Choudhary, K.M., Nandal, D.P., **Yadav, A.K.**, Poonia, T., Singh, Yadvinder, S., Sharma, P.C., Jat, M.L. 2020. Conservation Agriculture-based Sustainable Intensification of Cereal Systems Leads to Energy Conservation, Higher Productivity and Farm Profitability. *Environmental Management*. <https://doi.org/10.1007/s00267-020-01273-w>. (NAAS rating- 8.38)

Sapkota, T.B., Singh, L.K., **Yadav, A.K.**, Chhetri, A.K., Jat, H.S., Sharma, P.C., Jat, M.L and Stirling, Clare.M. 2020. Identifying optimum rates of fertilizer nitrogen application to maximize economic return and minimize nitrous oxide emission from rice-wheat systems in the Indo-Gangetic Plains of India. *Archives of Agronomy and soil science*. <https://doi.org/10.1080/03650340.2019.1708332> (NAAS rating- 7.68)

Datta, A., Jat, H.S., **Yadav, A.K.**, Choudhary, M., Sharma, P.C., Rai, M., Singh, L.K., Majumder, S.P.,

Choudhary, V., Jat, M.L., 2019. Carbon mineralization in soil as influenced by crop residue type and placement in an Alfisols of Northwest India. *Carbon Management* 10, 37–50. (NAAS rating- 7.11)

Jat, H.S., Datta, A., Choudhary, M., **Yadav, A.K.**, Choudhary, V., Sharma, P.C., Gathala, M.K., Jat, M.L., McDonald, A., 2019. Effects of tillage, crop establishment and diversification on soil organic carbon, aggregation, aggregate associated carbon and productivity in cereal systems of semi-arid Northwest India. *Soil Tillage Research*. 190, 128–138. (NAAS rating- 9.82)

Jat, H.S., Datta, A., Choudhary, M., Sharma, P.C., **Yadav, A.K.**, Choudhary, V., Gathala, M.K., Jat, M.L., McDonald, A., 2019. Climate Smart Agriculture practices improve soil organic carbon pools, biological properties and crop productivity in cereal-based systems of North-West India. *Catena* 181: 104059. (NAAS rating- 9.26)

Choudhary, M., Datta, A., Jat, H.S., **Yadav, A.K.**, Gathala, M.K., Sapkota, T.B., Das, A.K., Sharma, P.C., Jat, M.L., Singh, R., Ladha, J.K., 2018. Changes in soil biology under conservation agriculture based sustainable intensification of cereal systems in Indo-Gangetic Plains. *Geoderma* 313, 193–204. (NAAS rating- 10.04)

Choudhary, M., Jat, H.S., Datta, A., **Yadav, A.K.**, Sapkota, T.B., Mondal, S., Meena, R.P., Sharma, P.C., Jat, M.L., 2018. Sustainable intensification influences soil quality, biota, and productivity in cereal-based agroecosystems. *Appl. Soil Ecol.* 126, 189–198. (NAAS rating- 8.79)

Lohan, S.K., Jat, H.S., **Yadav, A.K.**, Sidhu, H.S., Jat, M.L., Choudhary, M., Peter, J.K. and Sharma, P.C. (2018). Burning issues of paddy residue management in north-west states of India. *Renewable and Sustainable Energy Reviews*, 83:693-706.

Jat, H.S., Datta, A., Sharma, P.C., Kumar, V., **Yadav, A.K.**, Choudhary, M., Choudhary, V., Gathala, M.K., Sharma, D.K. and Jat, M.L., Yaduvanshi, N.P.S., Singh, G.B. and Donald, A.M. (2017). Assessing soil properties and nutrient availability under conservation agriculture practices in a reclaimed sodic soil in cereal-based systems of North-West India. *Archives of Agronomy and Soil Science*, DOI: 10.1080/03650340.2017.1359415

**Yadav, A.K.** and Singh P. (2016) Effect of integrated nutrient management on yield, protein content, nutrient content and uptake of sorghum [Sorghum bicolor (L.) Moench]. *Innovative Farming*, 1(2):30-34.

Choudhary, R., Prem, G., Kumar, A. Singh, U., Jat, H.S. and **Yadav, A.K.** (2016) Comparative study on productivity and profitability of rice (*Oryza sativa L.*) under different crop establishment methods in Amabala, Haryana. *Progressive Agriculture*. 16(2) : 183-189.

Singh, Kuldeep, Manohar, R.S., Choudhary, K., **Yadav, A.K.** and Singh, M. (2016) Response of different sources and levels of phosphorus on yield, nutrient uptake and net returns on mung bean under rainfed condition. *Research in Environment and Life Sciences*, 9 (1): 19-23.

**Yadav, A.K.**, Kumar, A., Singh, J., Jat, R.D., Jat, H.S., Datta, Ashim., Singh, Kuldeep and Chaudhary, R., Choudhary, K.M. and Sutaliya, J. M. (2015). Differential response of Pearl millet genotypes to irrigated and rainfed conditions. *Ecology, Environment and Conservation*. 21(4): 2013-2020.

Choudhary, R., Jat, M.L., Nandal, D.P., Sidhu, H.S., Singh, Yadvinder, Jat H.S., Kakraliya, S.K. and **Yadav, A.K.** (2015) Conservation agriculture practices for enhancing productivity of cotton-wheat system. *Haryana Journal of Agronomy*. 31 (1&2): 67-74.

**Yadav, A. K.**, Kumar, A., Singh, J., Jat, R.D., Jat, H.S., Datta, Ashim., Singh, Kuldeep and Chaudhary, R. (2014) Performance of pearl millet genotypes under irrigated and rainfed conditions at Hisar, India. *Journal of Applied and Natural Science*. 6(2): 377-382.

**Yadav, A.K.** and Kumar, A. (2013) Comparative Performance of pearl millet genotypes in terms of yield and quality under different environment. *Forage Research*. 39 (1): 31-35.

**Yadav, A. K.**, Singh, P. and Singh, Kuldeep (2013) Productivity, nutrient uptake and quality of sorghum [Sorghum bicolor (L.) Moench] as affected by tillage and integrated nutrient management. *Annals of Agri-Bio Research*. 18(2):146-150.

Choudhary, J., Dadheech, R.C. and **Yadav, A. K.** (2013) Effect of intercropping and weed management on weed dynamics and nutrient uptake by weeds and crops. *Annals of Biology*, 29(2):135-138.

**Yadav, A. K.**, Singh, P. and Singh, Kuldeep (2012) Growth, yield and economics of sorghum [Sorghum bicolor (L.) Moench] influenced by tillage and integrated nutrient management. *Forage Research*, 38(1): 40-43.

**Yadav, A. K.**, Singh, P. and Sumeriya, H.K. (2009) Effect of tillage and integrated nutrient management on growth, yield attributes and yield of sorghum [Sorghum bicolor (L.) Moench]. *Haryana Journal of Agronomy*, 25(1&2) :89-90.

## 20. International Conference Proceedings Papers

**Yadav, A.K.**, Jat, H.S., Sharma, P.C., Datta, A., Kumar, V. McDonald, A.J. and Jat M.L. (2016) Conservation agriculture and cropping system diversification for improving yield, profit and input use efficiency of intensive cereal based rotations in NW India. In Proc. IV International Agronomy Congress on "Agronomy for Sustainable Management of Natural Resources, Environment, Energy and Livelihood Security to Achieve Zero Hunger Challenge", November 22-26, 2016, New Delhi, India. pp 1037-1038.

**Yadav, A. K.**, Kumar A. Jat, R.D. and Chaudhary K.M. (2014) Performance of pearl millet genotypes in terms of phenology and yield under different environment. In Proc. International conference on "Crop Productivity and sustainability- Shaping the future, March 20-21, 2014, Bathinda, Punjab. pp352.

Chaudhary, K.M., Singh, L.K., Jat, R.D., **Yadav, A.K.** and Jat, H.S. (2014) Accelerating the adoption of resource conservation techniques in rice- wheat cropping system. In Proc. International conference on "Crop Productivity and sustainability- Shaping the future, March 20-21, 2014, Bathinda, Punjab. pp371.

**Yadav, A.K.**, Singh, P. and Jat, R. D. (2012) Effect of tillage on productivity of sorghum. In Extended Summaries Vol. 3: 3rd International Agronomy Congress on Agriculture diversification, climate change management and livelihoods" November 26-30, 2012, New Delhi, India. pp907-908.

**Yadav, A.K.**, Singh, P. (2012) Effect of tillage and INM on yield, economics and nutrient uptake. In Proc. International Seminar on Renewable Energy for Institute and Commodities in Urban and Rural Settings, April 27-29, 2012, Manav Institute of Technology and Management, Hisar, India, pp 15.

## National Conference Proceedings Papers

**Yadav, A.K.**, Sharma, P.C., Jat, H.S. Datta, Ashim, Choudhary, M., and Jat, M.L. (2017) Conservation agriculture for improving yield, profit and water use efficiency of Rice-Wheat cropping system in reclaimed sodic soils of North-West India. In abstract 5th National Seminar Climate Resilient Saline Agriculture: Sustaining Livelihood Security, January 21-23, 2017, SKRAU, Bikaner. pp86-87.

Jat, H.S., Sharma, P.C., **Kumar, A.**, Singh, L.K., Datta, Ashim, Choudhary, M. and Jat, M. (2017). CA based sustainable intensification of cereal system in North-western Indo-Gangetic plains of India. In abstract 5th National Seminar Climate Resilient Saline Agriculture: Sustaining Livelihood Security, January 21-23, 2017, SKRAU, Bikaner. pp73.

Jat, H.S., Datta Ashim, **Yadav, A.K.**, Sharma, P.C., Sharma, D.K. (2015) Scope and implications of sustainable intensification in reclaimed salt affected soils of Western IGP. Abstract in National Seminar on "Innovative Saline Agriculture in Changing Environment" December 12-14, 2014,

Rajmata Vijayaraje Scindia Krishi Vishwavidyalaya, Gwalior. pp 118-119.

**Yadav, A.K.**, Kumar, A., Singh, J. and Jat, H.S. (2014) Response of pearl millet (*Pennisetum glaucum*) genotypes under rainfed and irrigated condition. In Proc. National symposium on Agricultural Diversification for Sustainable livelihood and Environmental Security, November 18-20, 2014, Ludhiana, Punjab. pp 455.

**Yadav, A.K.**, Singh, P. and Singh, Kuldeep (2012) Effect of tillage and integrated nutrient management on sorghum [*Sorghum bicolor* (L.) Moench] productivity. In Proc. National seminar on Sustainable Agriculture and Food Security: Challenges in Changing Climate. March 27-28, 2012, CCSHAU, Hiasr. pp 249.

## 21. Popular Article

Kakraliya, S.K., L.K.Singh, **A.K Yadav**, H.S. Jat, S.S. Kakraliya, K.M. Choudhary and Ashim Datta. 2016. Smart package and practices for direct seeded rice (DSR). Innovative Farming, 1(2): 49-55.

एच. एस. जाट, झाबर मल, लव कुमार सिंह, **मुनमुन राय, अरविन्द कुमार यादव, मधु चौधरी**, पी. सी. शर्मा एवं एम एल जाट। 2016 | जलवायु स्मार्ट खेती

एच. एस. जाट, झाबर मल, लव कुमार सिंह, रामस्वरूप दादरवाल, रामधन जाट, **अरविन्द कुमार** एवं पी. सी. शर्मा। 2013 | क्षारीय एवं सुधरी हुयी क्षारीय मृदाओं में शुन्य जुताई के साथं धान की यांत्रिक रोपाई : एक उपयुक्त विकल्प। कृषि किरण। केन्द्रिय मृदा लवणता अनुसंधान संस्थान, करनाल, पृष्ठ संख्या 46-50.

**Arvind Kumar Yadav** (2013). Functions, Deficiency Symptoms, Source and management of Sulphur. AGROBIOS NEWS LETTER, XI (9):21

**Arvind Kumar Yadav** and Rakesh Chaudhary (2013). System of rice intensification: Producing more rice with less water. AGROBIOS NEWS LETTER, XII (4): 21-22.

अरविन्द कुमार यादव, कुलदीप सिंह, प्रद्युमन, राकेश चौधरी एवं विमल कुमार (2013) आधुनिक खेती में जैविक उर्वरकों का महत्व। खेती दुनिया, पटियाला।

Rakesh Choudhary and **Arvind Kumar Yadav**. Vermicomposting : Production and practices (2013).<http://krishisewa.com/cms/articles/soil-fertility/305-vermicompost-production-practices.html>.

अरविन्द कुमार यादव, आर डी जाट, प्रद्युमन यादव, अरविन्द तेतरवाल, मनोज जाट, महावीर बोचलिया एवं राकेश चौधरी(2013) फसल उत्पादन में हरी खाद का महत्व। वीर सुरजमल टाइम्स। कोटा।

## 22. Bulletin

Sharma, P.C., Jat, H.S., Kumar, V., Gathala, M.K., Datta, A., Yaduvanshi, N.P.S., Choudhary, M., Sharma, S., Singh, L.K., Saharawat, Y., **Yadav, A.K.**, Parwal, A., Sharma, D.K., Singh, G., Jat, M.L., Ladha, J.K. and Donald, A.M. (2015). Sustainable Intensification Opportunities under Current and Future Cereal System of North-West India. Technical Bulletin: CSSRI/Karnal/2015/4. Central Soil Salinity Research Institute, Karnal. p.44

## 23. Book Chapter

Datta, A., Chaitanya, A.K., Majumdar, S.P., Narjary, B., Padhan, D., Basak, N., Chaudhary, M. and **Yadav, A.K.** (2017). Managing saline and sodic soils of dry lands for enhancing productivity". In: Shamsudheen M. et al (Eds.), Soil and water management strategies for dry lands. Kalyani Publishers, New Delhi, pp. 24-57.

Punia, S. S., Ram, Baldev, Verma, Preeti and **Yadav, A. K.** 2020. Critical Studies on Genetic Analysis for Terminal Heat Tolerance in Bread Wheat. In: Al-Naggar, AMM (ed) Cutting Edge Research in

Agricultural Sciences, Book Publisher International, <https://doi.org/10.9734/bpi/cras/v1>  
Punia, S.S., Ram, Baldev, Verma, Preeti, Singh K, Parihar, A.K. and **Yadav, A. K.** 2020. Recent Overview of Genetic Variability and Correlation Studies in Urdbean (*Vigna mungo* L.). In: Teodor, R (ed) Cutting Edge Research in Agricultural Sciences, Book Publisher International, <https://doi.org/10.9734/bpi/cras/v2>

#### **24. Participation in national and international seminar**

I have participated in different national and international Seminars, workshops viz.

##### **International Conference/Seminar**

1. Poster presentation on "Conservation agriculture and cropping system diversification for improving yield, profit and input use efficiency of intensive cereal based rotations in NW India" in Fourth International Agronomy Congress on "*Agronomy for Sustainable Management of Natural Resources, Environment, Energy and Livelihood Security to Achieve Zero Hunger Challenge*". November 22–26, 2016, Pusa Campus, New Delhi.
2. Poster presentation on "Performance of pearl millet genotypes in terms of phenology and yield under different environment" in International conference on "*Crop Productivity and sustainability-Shaping the future*". March 20-21, 2014, Bathinda, Punjab.
3. Poster presentation on "Effect of tillage practices on productivity of sorghum" in Third International Agronomy Congress. November 26-30, 2012, Pusa Campus, New Delhi.

##### **National Conference/Seminar**

1. Poster presentation on "Conservation agriculture for improving yield, profit and water use efficiency of Rice-Wheat cropping system in reclaimed sodic soils of North-West India" in 5<sup>th</sup> National Seminar *Climate Resilient Saline Agriculture: Sustaining Livelihood Security*, January 21-23, 2017, SKRAU, Bikaner.
2. Poster presentation on "Response of pearl millet (*Pennisetum glaucum*) genotypes under rainfed and irrigated condition in National symposium on "*Agricultural Diversification for Sustainable livelihood and Environmental Security*". November 18-20, 2014, Ludhiana, Punjab.
3. Poster presentation on "Effect of tillage and integrated nutrient management on sorghum [*Sorghum bicolor* (L.) Moench] productivity" in National Seminar on "*Sustainable Agriculture & Food Security: Challenges In Changing Climate*". March 27-28, 2012, CCS HAU, Hiasr.
4. Participated in Travelling Seminar on *Conservation Agriculture based Resource Conservation Technology for PG student/young faculty members*, March 21-22, 2012, CCS HAU, Hisar.
5. Participated in National Seminar on *New Perspective in Aromatic and Medicinal Plants*, February 8-9, 2012, CCS HAU, Hisar.
6. Participated in National training workshop –Cum –Traveling Seminar on *Resource Conservation Technology in different cropping system*, March 24-27, 2011, CCS HAU, Hisar.