

Selected Recent Publications

This leaflet provides a sample of recent publications by staff and partners of the CGIAR Regional Program for Central Asia and the Caucasus. The Program aims at reducing poverty and hunger, improving human health and nutrition, and enhancing ecosystem resilience through high-quality international research, partnership and leadership in Central Asia (Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan) and the Caucasus (Armenia, Azerbaijan and Georgia).

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ISI Journal Articles:

1. Awan U., Ibrakhimov M., Benli B., Lamers J., Liaqat U. 2016. A new concept of irrigation response units for effective management of surface and groundwater resources: a case study from the multi-country Fergana Valley, Central Asia. *Irrigation Science*. 35:55-68. [doi: 10.1007/s00271-016-0521-9](https://doi.org/10.1007/s00271-016-0521-9)
2. Choukr-allah R., Nanduri K., Hirich A., Shahid M., Alshankiti A., Toderich K., Gill Sh., Butt K. 2016. Quinoa for marginal environments: Towards future food and nutritional security in MENA and Central Asia regions. *Frontier in Plant Science*. 7:346. [doi: 10.3389/fpls.2016.00346](https://doi.org/10.3389/fpls.2016.00346)
3. Gulyaeva E., Shaydayuk E., Goncharov N., Akhmetova A., Abdullaev K., Belousova M., Kosman E. 2016. Virulence of *Puccinia triticina* Eriks. on Triticum and Aegilops species. *Australasian Plant Pathology*. 45:155-163. [doi:10.1007/s13313-016-0395-6](https://doi.org/10.1007/s13313-016-0395-6)
4. Hyman G., Barona E., Biradar C., et al. Priority regions for research on dryland cereals and legumes.2016. *F1000Research*, 5:885. [doi: 10.12688/f1000research.8657.1](https://doi.org/10.12688/f1000research.8657.1)
5. Junna M. R., Jumaboev K., Bobojonov I., Carli C., Eshmuratov D. 2016. Yield and Water Use Efficiency of Potato Varieties under Different Soil-Moisture Stress Conditions in Fergana Valley of Central Asia. *Agroecology and Sustainable Food Systems*. 40:407-431. [doi:10.1080/21683565.2016.1141145](https://doi.org/10.1080/21683565.2016.1141145)
6. Löw F., Waldner F., Navratil P., Latchininsky A., Bolkart M., Colditz R. and Biradar C. 2016. Timely monitoring of Asian Migratory Locust habitats in the Amudarya delta, Uzbekistan using time series of satellite remote sensing vegetation index. *Environmental Management*. 183:562-575. [doi: 10.1016/j.jenvman.2016.09.001](https://doi.org/10.1016/j.jenvman.2016.09.001)
7. Mukhamedjanov S., Mukhamedjanov A., Yuldashev T., Dukhovny V. 2016. Optimizing Use of Water for Cotton Production using ET based Irrigation scheduling Technique in the Fergana Valley, Uzbekistan. *Annals of Arid Zone*. 55: 1-8. [doi: 2016/2016SD-12](https://doi.org/2016/2016SD-12)
8. Nurbekov A., Akramkhanov A., Kassam A., Sydyk D., Ziyadullaev Z., Lamers J. 2016. Conservation Agriculture for combating land degradation in Central Asia: a synthesis. *AIMS Agriculture and Food*. 1: 144-156. [doi: 10.3934/agrfood.2016.2.144](https://doi.org/10.3934/agrfood.2016.2.144)
9. Nuriyeva S., Akparov Z., Hajiyev E., Abbasov M., Sharma R.C. 2016. Evaluation of wheat genetic resources of Azerbaijan on normal and saline fields. *Turkish Journal of Agriculture and Forestry*. 40:186-193. [doi: 10.3906/tar-1502-84](https://doi.org/10.3906/tar-1502-84)
10. Oyiga B., Sharma R.C., Shen J., Baum M., Ogbonnaya F., Leon J., Ballvora A. 2016. Identification and characterization of salt tolerance using a multivariable screening approach of wheat germplasm. *Journal of Agronomy and Crop Science*. 202:472-485. [doi:10.1111/jac.12178](https://doi.org/10.1111/jac.12178)
11. Rustamova I. 2016. Evaluation of Economic Efficiency of using Resource Saving Technologies (Conservation Agriculture) in Irrigated Lands. *Journal of Global Economics*. 4:197. [doi: 10.4172/2375-4389.1000197](https://doi.org/10.4172/2375-4389.1000197)
12. Shamanin V., Salina E., Wanyera R., Zelenskiy Y., Olivera P., Morgounov A. 2016. Genetic diversity of spring wheat from Kazakhstan and Russia for resistance to stem rust Ug99. *Euphytica*. 212: 287. [doi: 10.1007/s10681-016-1769-0](https://doi.org/10.1007/s10681-016-1769-0)
13. Sharma P.D., Sharma R.C., Duveiller E. 2016. Control of Helminthosporium leaf blight of spring wheat using seed treatments and single foliar spray in Indo-Gangetic Plains of Nepal. *Crop Protection*. 16:161-166. [doi: 10.1016/j.cropro.2016.06.017](https://doi.org/10.1016/j.cropro.2016.06.017)
14. Sharma R.C., Nazari K., Amanov A., Ziyaev Z., Jalilov A. 2016. Reduction of winter wheat yield losses caused by stripe rust through fungicide management. *Journal of Phytopathology*. 164:671-677. [doi: 10.1111/jph.12490/epdf](https://doi.org/10.1111/jph.12490/epdf)
15. Holmatov B., Lautze J. 2016. Thinking inside the Basin: Scale in Transboundary Water Management. *Natural Resources Forum*. 40:127-138. [doi: 10.1111/1477-8947.12099](https://doi.org/10.1111/1477-8947.12099)



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Non-ISI Journal Articles:

1. Asoev N., Ibragimov N., Nurbekov A., Yatimov B., Khomatov A. 2016. Winter wheat productivity under different tillage methods. Journal of Tajik Academy of Science [In Russian]
2. Baymetov K., Turdieva M., Ahmedov Sh., Dorohova E. 2016. Traditional knowledge and skills of farmers in Uzbekistan in seed and planting material production of fruit trees and vegetable crops. Science and Technology. p.28 [In Uzbek]
3. Bekchanov B., Rabbimov A., Toderich K., Mukimov T. 2016. Technology of preparation of cuttings of Tamarisk and their practical application to improve the productivity of saline lands. The formation and development of agricultural science in XXI century. Collection of scientific articles of Shcherbakov N.A. "PNIIAZ" FGBNU. pp. 240-244 [In Russian]
4. Gafurov Z., Kattakulov F., Eshmuratov D. 2016. Water surface dynamical change analysis of Sudochi Lake in Aral Sea area using Remote Sensing Information. Journal of Irrigation and Melioration. № 02(4). 2016. ISSN 2181-8584. Tashkent Institute of Irrigation and Melioration
5. Massino I., Boboev F., Toderich K., Gupta Sh., Ismail Sh., Dakheel A., Zhapaev R., Popova V., Baizakova A., Kalashnikov P. 2016. A new early maturing pearl millet variety "Hashaki 1" of High Quality and Forage Yield Resistant to Salinity in Uzbekistan. Research in melioration and water management. Collection of research papers. Kazakh Research Institute of Water Management. V 52, Issue 2. pp. 92-101 [In Russian]
6. Nurbekov A., Aybergenov B. 2016. Environmental and economic feasibility of the transition from conventional to no-till technology in Northern districts of Karakalpakstan. Journal of Agriculture. Tashkent, Uzbekistan
7. Tautenov I., Bekzhanov S., Zhapayev R., Zayirov S. 2016. Study planting dates grades and conditions accessions of sorghum in Kyzylorda region. "Herald of Kyzylorda" Journal. Kazakh State University named after Shakarim. № 1(73), pp.262-265
8. Tautenov I., Ujuhu A., Bekzhanov S., Zhapayev R. 2016. Water regime and mineral fertilizers in crop sweet sorghum in the conditions of Kazakhstan's Aral Sea area. Bulletin of Science, KATU. № 3(90), pp.75-83
9. Tsygankov V., Tsygankov I., Tsygankova M., Zelenskiy Y., Tsygankova N. 2016. Spring wheat varieties resources of West Kazakhstan and their role in high-quality grain production technology. Kuban State Agrarian University Research Journal. V.59, № 2, pp.398-405