



ANDENES EXPERIMENTAL STATION - NATIONAL INSTITUTE FOR AGRICULTURAL INNOVATION (INIA)
© MICHELE ROMEO, IN ASSOCIATION WITH INTERNATIONAL POTATO CENTER

Field Day

Andenes Experimental Station - National Institute of Agricultural Innovation:

The Andenes Experimental Station is located in the district of Zurite in the Anta Province in Cusco, and has an extension of 50 ha. Andenes is currently one of the National Institute of Agricultural Innovation's 14 experimental stations. Andenes has 33 terraces starting from 3350 masl up to 3480 masl. The terraces allow conducting research in several crops such as potatoes, quinoa, corn, kiwicha, barley, grasses, forages, Andean root and tuber crops, medicinal plants, among others. The research lines include genetic breeding, seed production, genetic resources conservation, among others. Moreover, as a result of the research conducted in Andenes, several new potato varieties have been found as Chaska, Valicha, Kori-INIA, Pallay Poncho, Puca Lliclla and Antañita.

Greenhouses

1. Efficient Growth Systems: Hydroponics, Aeroponics, Water Stress and Conventional
2. Diversity in Potato Wild Relatives in the Solanum Section Petota
3. National Register of Native Potatoes

Technologies

4. Precision Agriculture
5. Genotyping of *P. infestans* using FTA cards
6. Molecular Diagnosis in Field Conditions

Biodiversity

7. Diversity of native potatoes
8. Conservationist farmers

Health and Nutrition

9. Biofortification: Developing Potatoes with High Iron and Zinc Concentration
10. Developing Potatoes with High Content of Functionals and Anthocynins

Climate Change and Crop Protection

11. New Potato Varieties with Resistance to Late Blight and Heat Tolerance
12. Participatory Potato Varietal Selection Using the Mother & Baby Method to Obtain New Potato Varieties with Late Blight Resistance and Adaptation to Climate Change
13. Selection of Clones for Resistance to Frost
14. New Potato Varieties with Resistance and/or Tolerance to Biotic and Abiotic Factors
15. A Simple, Hand-held Decision Support System to Manage Potato Late Blight by Andean Farmers

Seeds

16. Effect of Different Seed Categories on Yield and Tuber Quality
17. Mixed-crop Systems: Andean Crops Related to Potatoes
18. Prebasic Seed Production Module of High Quality Seed by Huasahuasi Farmers

The greenhouses and the plots are lead by CIP and INIA.

Andenes Schedule

06:00 – 07:00	Departure
07:30 – 08:00	Arrive in Andenes
08:00 – 08:30	Greetings by hosts
08:30 – 14:00	Visit greenhouses, plots with experiments and business
14:00 – 16:00	Lunch
16:30 – 18:00	Return to Cusco

We recommend wearing comfortable shoes (trekking shoes), dressing in layers (not only with a warm jacket but waterproof) because in the sacred valley of Cusco, the sun at noon can be very strong.