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Genetic resources:
Potato, sweetpotato, 9 other Andean Root and Tuber Crops

~600 employees
Integrated IT and Computational Research Group

Unit mission: help build the institutional memory of research data:
Making data accessible & providing tools for scientists

Statistics, GIS, database and application development, bioinformatics, data curation

~ 16 – 20 people
"Quality improvement is the reduction of variability in processes and products"
Key central data store organised around germplasm using biomart
Motivation for ontologies: improving quality, data exchange and data mining for germplasm at large and specific populations: DMDD (potato genome)
Traits of interest in potato breeding

• Tuber yield and related phenology (stolons, tuber initiation, tuber filling, plant senescence, flowering, earliness)
• Reaction to abiotic stress (drought, salinity)
• Reaction to biotic stress (late blight, bacterial wilt, virus)
• Reproductive biology
• Quality (processing & nutritional)

Thanks to:
Merideth Bonierbale, Elisa Salas, Vilma Hualla, Benny Ordonez, Elisa Mihovilovich, Susan Munive and others.