



**Conservation activities as part of
the EAAPP /NEXTGEN projects**

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Outline

- Introduction
- Challenges for conservation
- Current initiatives
- Core objectives of the cassava conservation initiatives in Uganda
- Current status of the initiative

Introduction

- Broad-based genetic resources
- Landrace varieties and wild relatives

Challenges

- Biotic
- Infrastructure
- Supportive frameworks
 - IPR
- Human component

Present initiatives

➤ **NEXTGEN Project;** www.nextgencassava.org

➤ **EAAPP;** www.eaapp.org

Core Objectives

Objective 1: Fast track establishment of a conservation facility

Outcome: Facility established and commissioned

- Nature of facility
- Planned visits to other centers of Genetic conservation
- Standard operating procedures

Objective 2: Establish an in-vitro collection at NaCRRI

Outcome: Cassava varieties micro propagated

- Collect genotypes at NaCRRI and farmer varieties
- Initiate cassava genotypes into tissue culture via thermal therapy
- In- vitro virus indexing

Objective 3: Characterize and evaluate all conserved accessions

Outcome: Core collection assembled

- Adapt and pretest characterization and evaluation tools
- Field phenotyping
- Molecular characterization.
- Set up a core collection

Objective 4: Optimize options for long term storage

Outcome: Various long term Cassava conservation options determined

- Evaluate cryopreservation techniques
- Evaluate methods for DNA conservation
- Evaluate pollen long term conservation
- Evaluate methods for seed conservation



Objective 5: Develop Germplasm documentation system

Outcome: Database developed

- Design a database and start building an accession database
- Bar coding system for all accessions
- SMTA

Current status

- Work plan development in progress
- Literature review and consultations

Acknowledgements



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