GLOBAL DIVERSITY OF CASSAVA: COMPARATIVE STUDY OF CASSAVA ROOTS FLESH COMPOSITION

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The International Center for Tropical Agriculture in Cali, Colombia, is a member of the CGIAR, the Consultative Group for International Agriculture Research in Washington, USA. CIAT has been mandated to preserve and to conduct research on cassava. Consequently, this Center has been collecting wild and cultivated cultivars for about 35 years. About 6500 clones from tropical regions are preserved in CIAT in the form of vitroplants as well as in cultivated plants in the field. A primary global study on diversity started in 1991 and 1993 (Wheatley & al. 1993) with a core collection of 650 clones. At the same time, Bokanga Mpoko from IITA, and Ibadan from Nigeria, started a study on diversity and cynogenetic compounds from the collection from IITA and on hundreds of cultivars from Africa (Cameroun). Thanks to these studies, Zakhia & al. in 1994 have identified a correlation between viscoamylographic properties of starch and cynogenetic compounds from the roots. In 2005 CIRAD, the French Agricultural Research Center for International Development in France, and CIAT-Colombia have decided to strengthen these studies by conducting more specific research on flesh roots composition and starch functional properties in order to assess the major variations already identified in terms of cassava strach quality depending on the agroecological regions and cultivars. First results presented at the AUF seminar were obtained by selecting the different clones on their cyanide compositions, dry matter content and amylose content. These studies allow to better explain the consumer choices for selecting some food products of which specific textural properties are targeted.

REFERENCES


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