

Title	Development of a hot pepper (<i>Capsicum chinense</i>) root rot and wilt disease management strategy through genetic resistance, chemical application and proper choice of rotational crops
PI	Tusiime Geoffrey, PhD. Department of Crop Science, Faculty of Agriculture, Makerere University, P. O. Box 7062, Kampala Uganda. Phone: 0414 533 580 or 0772 674 873. e-mail: gtusiime@agric.mak.ac.ug
Co-researchers	Nkalubo Stanley PhD. National Crops Resources Research Institute, P. O. Box 6265, Kampala, Uganda. e-mail tamusange@gmail.com Dr. Tukamuhabwa Phinehas, Ph.D. Department of Crop Science, Makerere University, P. O. Box 7062 Kampala, Uganda Email: tuka@agric.mak.ac.ug Abasaija Kweyamba Mubuku Farming Co-operative Society Limited (AKMFCS Ltd.), Hot Pepper Farmer Group, Kasese Uganda. Contact Person: Mr. MUNYAZIKWIYE Deo Tel: 0772481599.
Purpose	To improve production of hot pepper (<i>C. chinense</i>) cv. Scotch bonnet through development and deployment of <i>Phytophthora</i> root rot (<i>P. capsici</i>) and wilt disease resistant genotypes.
Project Summary	The project seeks to contribute to increased productivity of pepper through developing genotypes resistant to hot pepper root rot disease and practices for inclusion in an integrated pest management (IPM) package for the disease. Host diversity for <i>Phytophthora capsici</i> the cause of the disease, will be determined in order to guide the use of crop rotation in managing the disease. Oomycete fungicides will be screened for effectiveness in managing <i>P. capsici</i> . Additionally, resistance introgression will be carried out with resistant donors from Cornell University, USA. The proposed work will be carried out in collaboration with Abasaija Kweyamba Mubuku Farming Co-operative Society Limited (AKMFCS Ltd.), a farmers' group that produce hot pepper for export. Two (2) students will be recruited; and will play a pivotal role in implementing the project. Research activities will be divided amongst them and they will write and present a thesis and will be awarded a MSc. (Crop Science) degree.
Country and Specific Location(s)	Mubuku Irrigation Scheme, Uganda

Participating Institutions	NARO
Start Date	May 2010
End date	May 2012
Amount of Funding	USD 60,000