




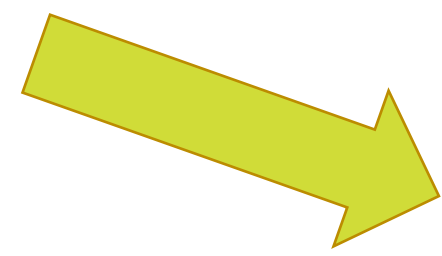
# Community Network for African Vector-Borne Plant Viruses

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## 20 Pump-Prime Funded Projects

 **CONNECTED** pump-prime funding supports a portfolio of 20 innovative research projects in plant vector-borne disease projects that involve collaborations between the UK, DAC list countries and beyond.



The aim is that these can be used as the basis for future larger-scale funding applications.



| Project title   | Crop / vector          | Countries involved                  |
|---|------------------------|-------------------------------------|
| Novel botanical formulations for treatment of virus vectors   | Banana<br>Cassava      | Tanzania<br>Nigeria<br>UK           |
| Unifying Cassava Brown Streak Disease surveillance  | Cassava                | Tanzania<br>Uganda<br>UK            |
| Identification of vectors involved in the transmission of Maize chlorotic mottle virus infecting maize in Eastern Africa            | Maize                  | Kenya and UK                        |
| Characterization of Cassava brown streak virus vector specificity and the role of its coat protein DAG motif in vector transmission | Cassava                | Uganda and UK                       |
| Is there a correlation between root necrosis symptoms and virus titre in cassava brown streak disease-affected cassava roots?       | Cassava                | Rwanda and UK                       |
| Role of poleroviruses in maize lethal necrosis epidemics in Africa, a case study of Kenya   | Maize                  | Kenya and UK                        |
| Low cost surveillance for Sub-Saharan Africa  | Tomato<br>Pepper       | Mali and UK                         |
| Deployment of durable, broad-spectrum resistance to Turnip mosaic virus into Brassica oleracea in Sub-Saharan Africa                | Cabbage                | Kenya<br>Netherlands<br>UK          |
| Potential of entomopathogenic fungi as biopesticides of cassava whitefly  | Cassava                | Tanzania<br>Nigeria<br>Uganda<br>UK |
| Characterising viral diversity in vegetable crops to enable targeted resistance breeding  | Tomato<br>Pepper       | Mali<br>Thailand<br>UK              |
| Cucurbit viruses and their control in the small-scale farming communities of Zimbabwe   | Cucurbits              | Zimbabwe and UK                     |
| Formal identification and characterisation of the viral pathogen causing a new aphid-associated disease of cabbage in Ghana         | Aphid<br>Cabbage       | Ghana and UK                        |
| Identification of mealybug vectors involved in the transmission of dioscorea bacilliform viruses infecting yam in northern Nigeria  | Mealybug<br>Yam        | Nigeria and UK                      |
| Identification of vectors transmitting viruses in tomato in Uganda  | Tomato                 | Uganda and UK                       |
| Mechanisms of transmission of cocoa swollen shoot virus by two species of mealybug vectors  | Mealybug<br>Cocoa      | Cote d'Ivoire<br>USA<br>UK          |
| Modelling of cassava brown streak virus spread by the insect vector Bemisia tabaci  | Whitefly<br>Cassava    | Uganda<br>Peru<br>UK                |
| Tracking genetic diversity and development of diagnostic tools for MLN viruses in Uganda  | Maize                  | Uganda and UK                       |
| Occurrence, distribution and molecular diversity of virus stressors on groundnut crops in Kenya                                     | Groundnut              | Kenya and UK                        |
| Rapid and inexpensive diagnostic tools for virus disease surveillance in sub-Saharan Africa   | Maize                  | Nigeria and UK                      |
| The prevalence of 'plant-vector' insect-pathogenic viruses in Kenya and their potential for bio-control of plant virus vectors      | Aphid<br>Bean<br>Maize | Kenya and UK                        |

### Research collaborations involve:

- ✓ African Regional Postgraduate Programme in Insect Science, University of Ghana
- ✓ Bindura University of Science Education, Zimbabwe
- ✓ Centre for Agriculture and Biosciences International, Kenya
- ✓ Centre National de Recherche Agronomique, Cote d'Ivoire
- ✓ Chinhoyi University of Technology, Zimbabwe
- ✓ East-West Seed, Thailand
- ✓ Fera Science, UK
- ✓ ICRAF (World Agroforestry Center), Cote d'Ivoire
- ✓ International Center for Tropical Agriculture (CIAT), Kenya
- ✓ International Institute of Tropical Agriculture, Nigeria
- ✓ International Potato Center, Peru
- ✓ Kebbi State University of Science and Technology, Nigeria
- ✓ Keele University, UK
- ✓ Kenya Agricultural and Livestock Research Organization
- ✓ Makerere University, Uganda
- ✓ Mars Cocoa, USA
- ✓ Masinde Muliro University of Science and Technology, Kenya
- ✓ Natural Resources Institute, University of Greenwich, UK
- ✓ Newcastle University, UK
- ✓ NIAB EMR, UK
- ✓ Russell IPM Integrated Pest Management, UK
- ✓ Rwanda Agriculture Board
- ✓ Syngenta Seeds BV, Netherlands
- ✓ The James Hutton Institute, UK
- ✓ University of Aberdeen, UK
- ✓ University of Bristol, UK
- ✓ University of Cambridge, UK
- ✓ University of Ghana, Soil and Irrigation Research Centre, Ghana
- ✓ University of Nairobi, Kenya
- ✓ University of Warwick, UK
- ✓ University of the West of England, UK
- ✓ Wesley University Ondo, Nigeria
- ✓ World Vegetable Center, Mali



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