

**Working Group on Biochemical and Molecular Techniques
and DNA-Profiling in Particular**

BMT/18/16 Add.

**Eighteenth Session
Hangzhou, China, October 16 to 18, 2019**

Original: English
Date: November 14, 2019

**ADDENDUM TO
A SIMPLE SSR BASED IDENTIFICATION SYSTEM FOR SWEET POTATO**

Document prepared by an expert from the United Kingdom



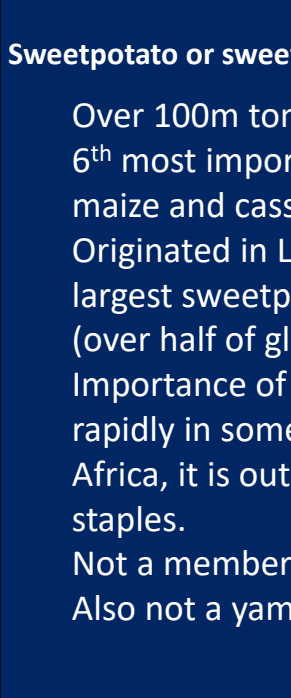
Disclaimer: this document does not represent UPOV policies or guidance

The annex to this document contains a copy of a presentation on “A simple SSR based identification system for sweet potato”, made at the eighteenth session of the BMT.

[Annex follows]

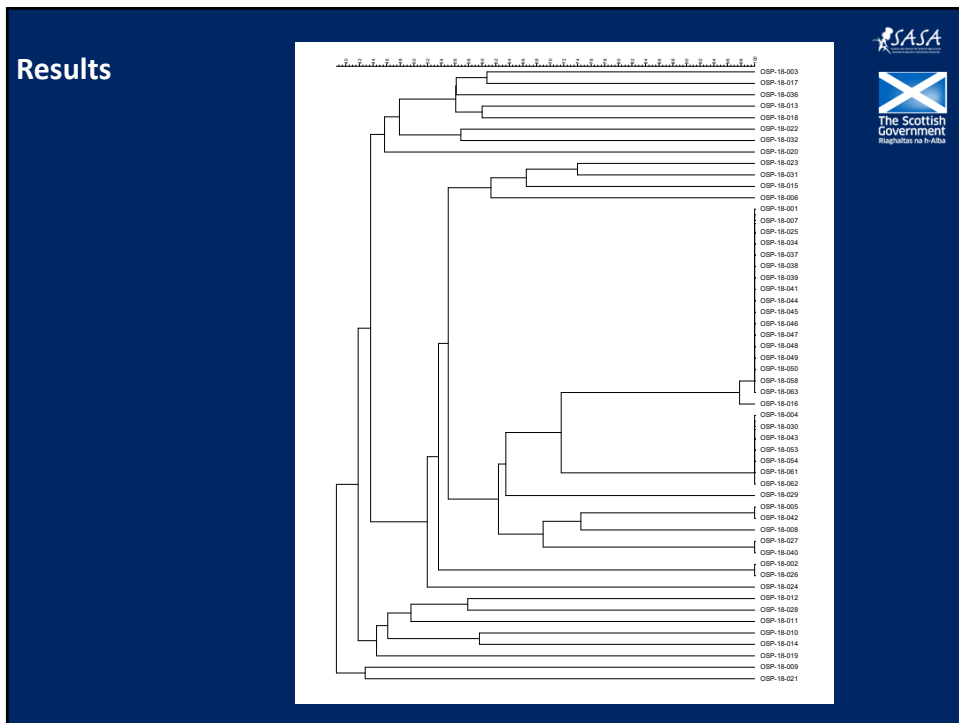
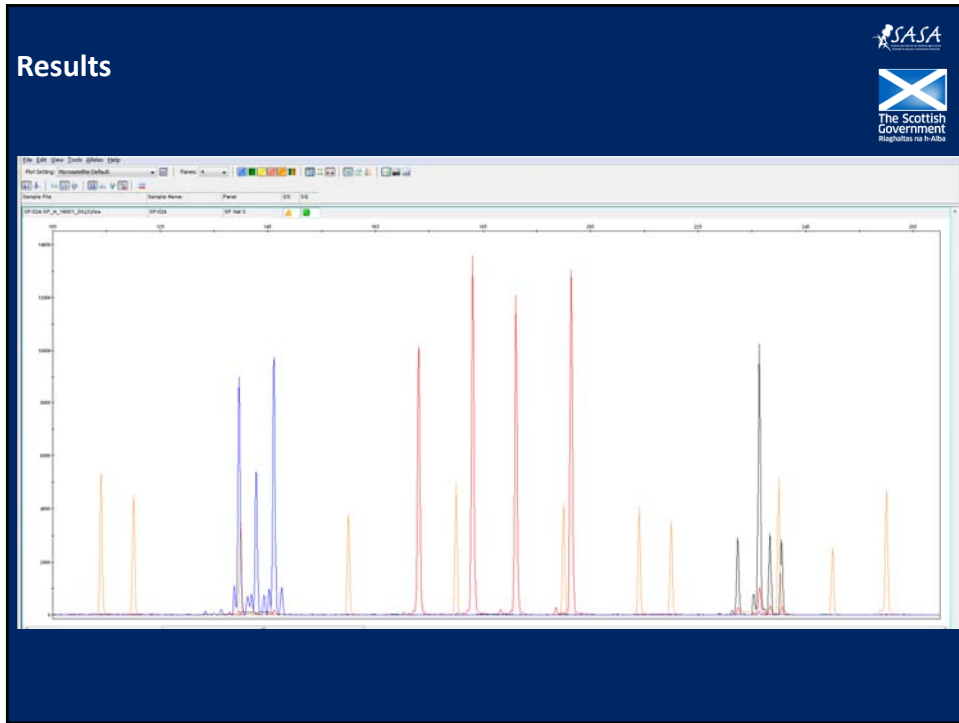


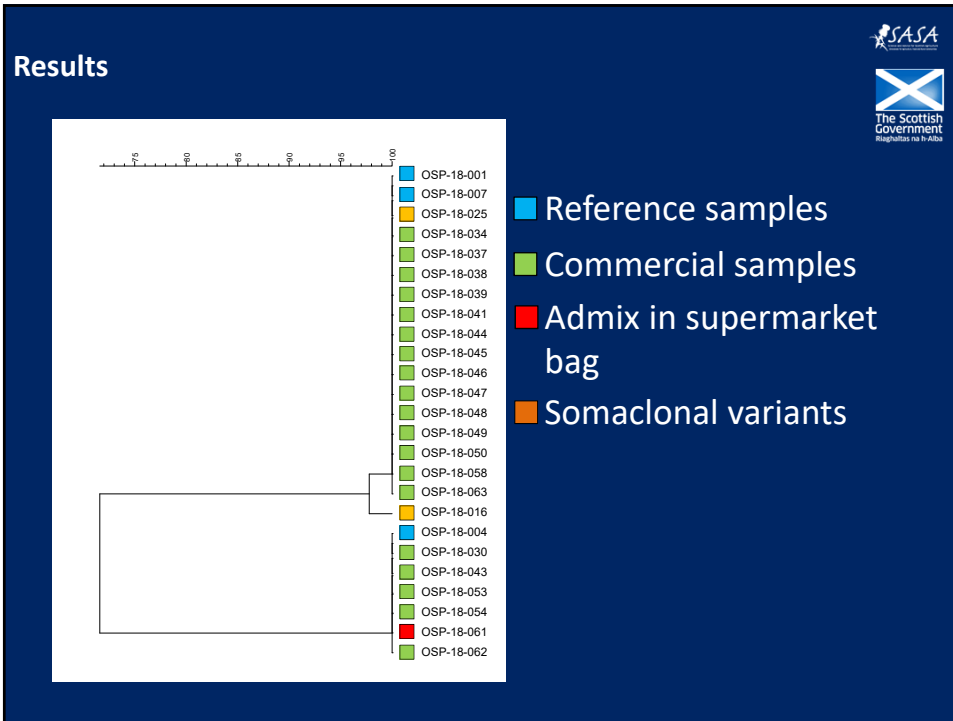
A simple SSR based identification system for sweetpotato



Sweetpotato or sweet potato?

Over 100m tonnes grown worldwide each year.
6th most important crop after rice, wheat, potatoes, maize and cassava.
Originated in Latin America but China is currently the largest sweetpotato producing country in the world (over half of global production is in China).
Importance of sweetpotato as a food crop is growing rapidly in some parts of the world. In Sub-Saharan Africa, it is outpacing the growth rate of other staples.
Not a member of the potato family.
Also not a yam.





Conclusions

Simple variety identification.
14 SSR markers used in 4 multiplex reactions.
Works with processed products (fries, wedges etc.).
Potential mis-labelled products in supermarkets detected.
Could aid in DUS testing in a similar way we use the potato database.

Acknowledgments



DAFM DUS Examination Office, IE



An Roinn Talmhaíochta,
Bia agus Mara
Department of Agriculture,
Food and the Marine

The breeders

The genotyping team at SASA Helen Ventisei and Emily Russell

[End of Annex and of document]