

Tests for flavour and seed production on the same plant – a contradiction? Selecting root vegetables

Dr. Bernd Horneburg

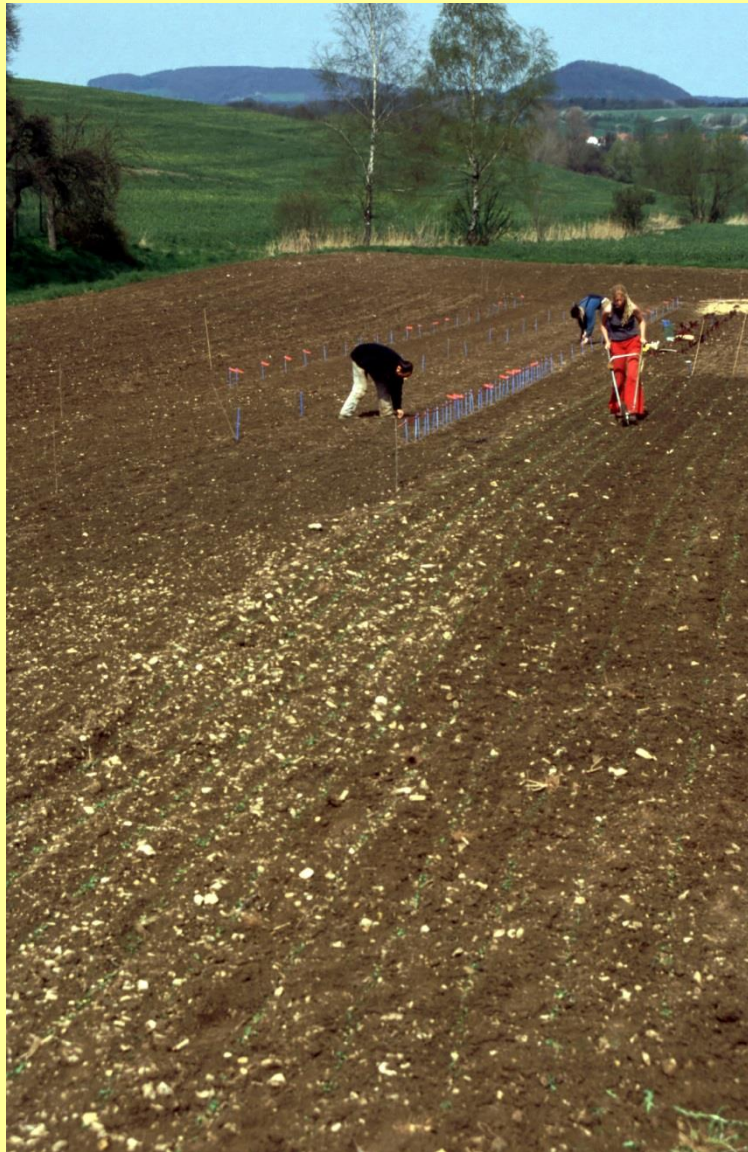
www.uni-kassel.de/go/fb11-opb

<https://culinaris-saatgut.de/en/>

Food quality was the aim in a small organic breeding program with parsnip (*Pastinaca sativa* L.), a neglected root vegetable of temperate regions (Horneburg et al. 2009).

Horneburg B, D Bauer und G Bufler 2009: Züchterische Verbesserung der sensorischen Qualität der Pastinake (*Pastinaca sativa* L.) im Praxisbetrieb. In: Mayer J, Alföldi T, Leiber F, Dubois D, Fried P, Heckendorn F, Hillmann E, Klocke P, Lüscher A, Riedel S, Stolze M, Strasser F, van der Heijden M, Willer H (Hrsg.): Werte – Wege – Wirkungen. Beiträge zur 10. Wissenschaftstagung Ökologischer Landbau, Zürich, 11.-13.2.2009; Band 1. Verlag Dr. Köster, Berlin. S. 232-235.

Genotypes in the field



Harvest and first selection



Sensory assessment



Selection of individuals

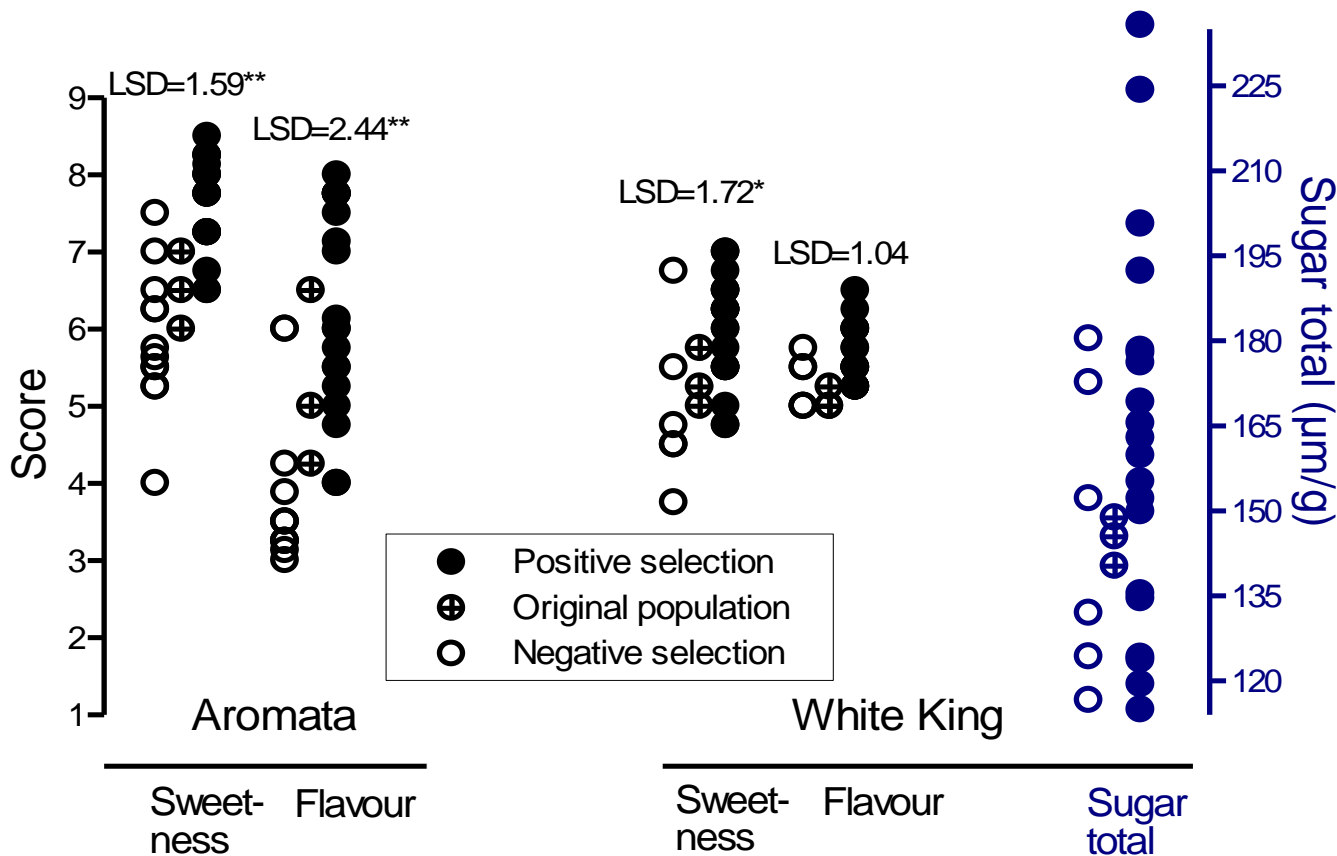




Mixed samples

Comparison of progenies or varieties





Each circle represents one progeny.

Differences between progenies * significant at $p < 0.05$, ** significant at $p < 0.01$

Sugar total = Glucose, fructose and sucrose

Quality improvement of parsnip by one generation of organoleptic selection (Horneburg et al. 2009, modified).