

‘Renaissance’ - Cultivar Description

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Fotos: L. Linnemannstöns, Cologne/Auweiler

Characteristics

(results from test trials in open fields 2010, 2011, 2012, 2013, 2014, and in forcing culture 2012 and 2014)

harvest date, fruit quality, yield:

junebearer, yield comparable to Elsanta (ca. 1kg/plant if planted as fresh plant in the year before), average fruit size 15-17g, firmness comparable to Elsanta, good shelf-life, begin of harvest 2 days later than Elsanta, very uniform heart-shaped fruit, slightly uneven in colouration (only) after cold nights (not observed under protected cultivation), harvest without calyx possible in case for processing purpose (no fruit damage), no sunburn on fruit, medium effortlessness of picking

flavour:

extraordinary high flavour type with high ester, terpenoid and lactone contents, result of breeding work assisted by chemical and sensory analysis, stable flavour for five years, without any comparison in the current assortment of strawberry, approved by chemical analysis and consumer studies, winner of a consumer study with 340 panelists, tasty in forcing culture at a time where no cultivar was enjoyable to eat

growth and frost resistance:

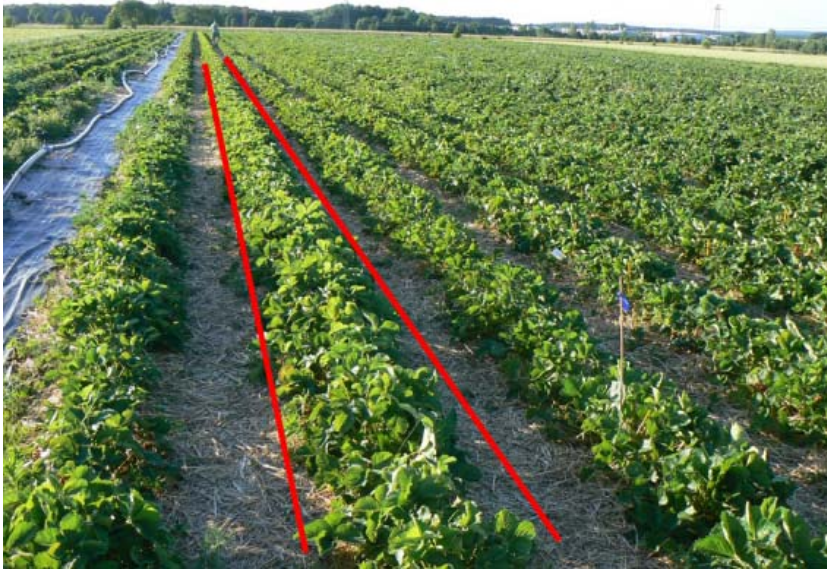
vigorous, stable plantation without plant loss on the field, fully winterhardy (survived the winter 2011 in the open field where all the Elsanta plants died), safe in case of late frost (late flowering, flowers protected)

plant health:

highly tolerant to Powdery Mildew, Botrytis, tolerant to *Phyt. cactorum*, Anthracnose, spider mite, *Verticillium* (tested in resistance trials), and *Xanthomonas*, slightly susceptible to strawberry weevil

potential:

open field production and under tunnel for high aroma fruit, aroma benchmark, fresh market production, direct marketing, self picking, gourmet fruit, processing cultivar (puree, aroma extraction, smoothies, jam, freeze drying)



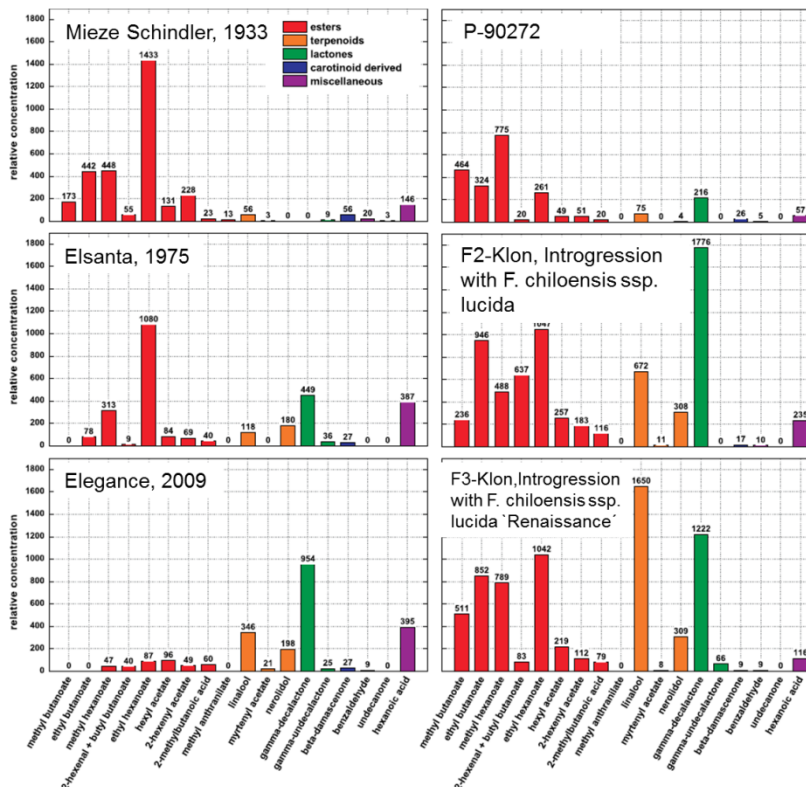
field behaviour

aroma patterns:

chemical analysis by HS-SPME

(Olbricht and Ulrich, 2015: Negativer Domestikationseffekt und Auswege in der Aromazüchtung von *Fragaria × ananassa*. DGG-Tagungsband 31/2015: 173.

Olbricht and Ulrich, 2016: 'Renaissance' of flavor: Portrait of a new European strawberry cultivar. Acta Hort., in print))



Tab 1. values of Brix (in °Brix) and acidity (citric acid equivalent)

cultivar	2010	2010	2011	2011	2012	2012	2013	2013	2014	2014	2015	2015
	Brix	Acidity	Brix	Acidity	Brix	Acidity	Brix	Acidity	Brix	Acidity	Brix	Acidity
'Elsanta'	9,7	0,911	10,24	11,34	n.d.	n.d.	9	0,874	9,2	0,79	8,6	0,814
'Senga Sengana'	n.d.	n.d.	11,3	0,914	8,5	0,953	8,9	0,989	7,6	0,922	6,9	0,816
'Renaissance'	10,9	1,082	13,2	0,953	9,8	1,015	9,4	0,978	10	0,945	9,7	0,968