

Additional file 2 – Summary table of the single-year difference in connections between flesh color and its eventual neighbours

2009→2010		flesh color-like nodes						min
		flesh	flesh color	tuber flesh	tuber flesh color	white flesh color	yellow-orange color	
eventual direct neighbours to flesh color-like nodes	CCD	3→1	x→3	6→3	x→3	x→1	x→2	3→1
	CHY	2	x→1	5→3	x→2	x→3	x→3	2→1
	DXS	1	x→3	5→3	x→3	x→3	x→3	1
	PSY	1	x→3	5→3	x→3	x→3	x→2	1
	TP	3	x→5	7→4	x→5	x→4	x→4	3
	abscisic acid	1	x→3	5→2	x→3	x→2	x→3	1
	aminocyclopropane-1-carboxylic acid	1	x→4	5→4	x→4	x→3	x→3	1
	anthocyanin	3	x→4	1	x→5	x→5	x→5	1
	b-carotene hydroxylase	2	x→1	5→3	x→1	x→3	x→3	2→1
	bHLH	5→4	x→4	1	x→5	x→5	x→5	1
	carotenoid	1	x→2	4→2	x→2	x→3	x→2	1
	chlorophyll	1	x→3	5→3	x→3	x→3	x→3	1
	ethylene	3	x→5	7→5	x→5	x→4	x→1	3→1
	flavonoid	1	x→3	3	x→3	x→3	x→3	1
	flavonol	x	x	x	x	x	x	
	hydroxycinnamic acid	1	x→4	5→4	x→4	x→3	x→4	1
	lycopene	2	x→3	5→3	x→3	x→2	x→1	2→1
	lycopene e-cyclase	2	x→1	5→2	x→3	x→3	x→3	2→1
	phenolic	2	x→3	4→3	x→3	x→4	x→3	2
	phenylalanine ammonia lyase	x	x	x	x	x	x	
	zeaxanthin epoxidase	2	x→2	5→1	x→3	x→3	x→3	2→1