

Neurospora, St. Lawrence Wild type Crosses,

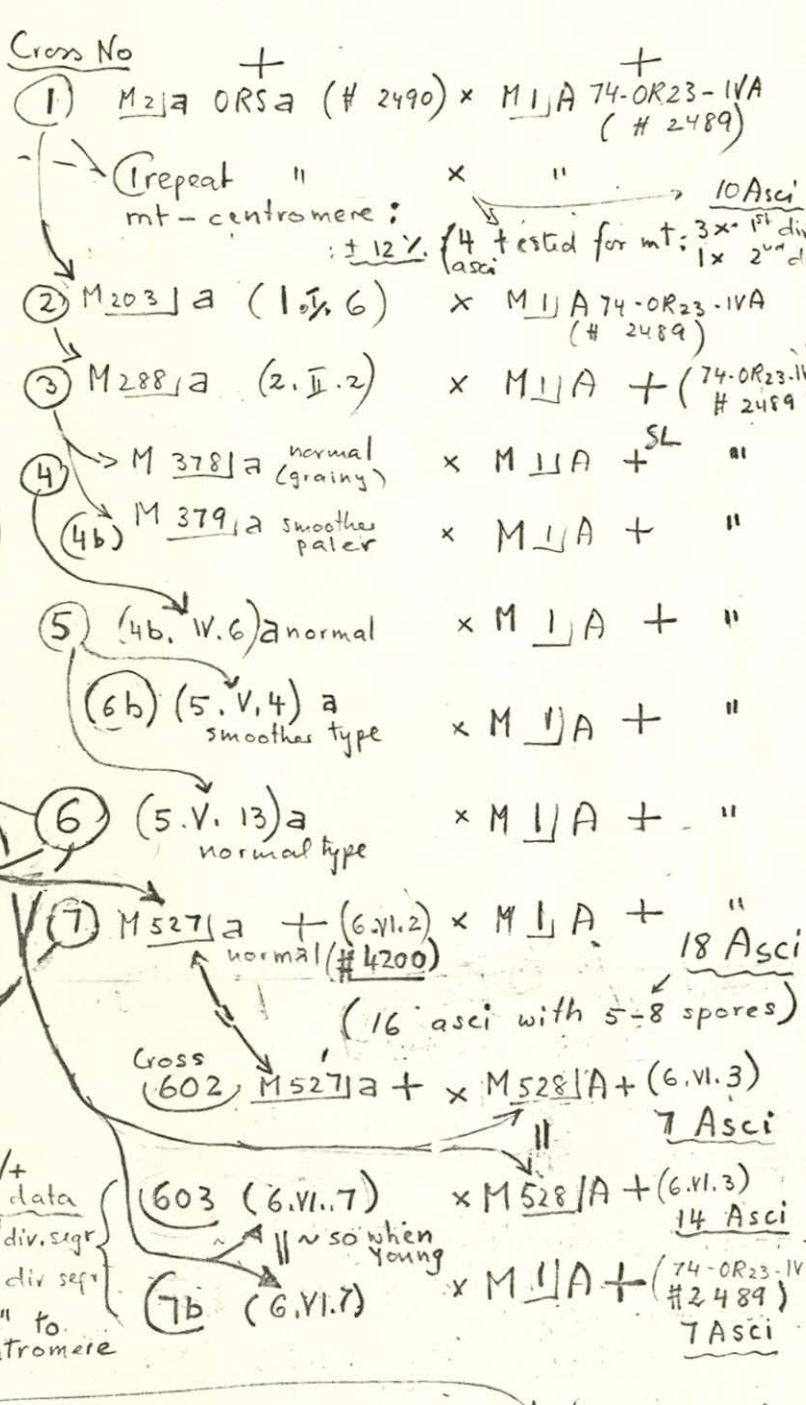
Back cross of #2490 a = ORS a $\left[\begin{array}{l} 7^{th} \text{ generation back cross} \\ \text{of } 74 \cdot \text{OR8-1a} = \#532 \\ \text{and } \#988 \\ \text{derived Oak Ridge wild type} \\ \text{of St. Lawrence } 74 \text{ A} \end{array} \right]$

↑ "M21a
FGSC

to #2489 A = 74-OR23-1VA $\left[\begin{array}{l} \text{vegetative re-isolate} \\ \text{of } 74 \cdot \text{OR23-1A} \end{array} \right]$
"M11A

Strains kept

- M1001/A - (1r.E.3)
- M203/a (1.I.6)
- M288/a (2.II.2)
- M378/a (3.III.8) normal
- M379/a (3.III.16) (smoother paler)



Cross No	+ Strain	+ Strain	Germination		Phenotypes
			No/Total	%	
1	M21a ORS a (#2490)	M11A 74-OR23-1VA (#2489)	47/50	95	1 abnormal
(repeat " mt-centromere; ±12% asci)	"	"	40/50	80	A all perfect
2	M203/a (1.I.6)	M11A 74-OR23-1VA (#2489)	45/50	90%	2 types 12/33 ~ 50% ?
3	M288/a (2.II.2)	M11A + (74-OR23-1V) #2489	28/30	95	12/28 smoother, paler ~ 50%
4	M378/a normal (grainy)	M11A + SL "	45/50	90	8+2?/45 " "
(4b)	M379/a smoother paler	M11A + "	49/50	98	33/49 " "
5	(4b.V.6)a normal	M11A + "	49/50	98	18 smoother pale 2 very poor /49
(6b)	(5.V.4)a smoother type	M11A + "	44/50	88	32/44 smoother, paler
6	(5.V.13)a normal type	M11A + "	41/50	82	6 when young " " later all perfect
7	M527/a + (6.VI.2) normal (#4200)	M11A + " 18 Asci	107/144	A 75%	All same type no detectable segregation
Cross 602	M527/a +	M528/a + (6.VI.3) 7 Asci	42/56	A 75%	no detectable segregation
(603)	(6.VI.7)	M528/a + (6.VI.3) 14 Asci	105/112	A 95%	2 Types "so" / ± clearly 1:1 in Asci
(7b)	(6.VI.7)	M11A + (74-OR23-1VA) #2489 7 Asci	46/56	A 80%	(plus 2nd slight morph segregating)
8	M527/a + (6.VI.2) ("FGSC 4200)	M701/a (7.VII.F3) 10 Asci	64/80	A 80%	± 2 Types Some (5) Asci perfect, all normal
1003/A (8.VII.B1)	From same perfect ascus. not quite identical to M527/a when grown on D-Wase-Test agar +1.5% S		Random 348/410	85%	2 Asci with * extreme morph 1:1
1002/a (8.VII.B7)			Asci 404/498	81%	spontaneous mutation

"so" / ±
Combined data
- 11 asci 2nd div. segr
- 10 asci 1st div segr
- 26% "so" to centromere