

- ① $\text{♀ } \text{crt. 2a (ars}^-) \times \text{UFC 220 A/a } \text{♂}$
- ② $\text{UFC 220 crt. 01a} \times \text{crt 1A ars}^-$
- ③ $\text{UFC 220 crt 19a} \times \text{OR-A}$
- ④ $\text{UFC 220 crt 108A} \times \text{ars(101)R502a}$
- ⑤ $\text{UFC 220 crt 253a} \times \text{OR-A}$
- ⑥ $\text{UFC}_{\text{crt}}^{220} \text{ 306A} \times \text{alcoy a} \approx$
 ↓ select strain containing desired electrophoretic variant plus
 al-2 , cot , and, retrospectively found to carry ylo-1
- ⑦ $\text{UFC}_{\text{crt}}^{220} \text{ 406a} \times \text{OR-A}$
 ↓ select strain that is al-2^+ , cot^+ , ylo-1^+
- ⑧ $\text{UFC}_{\text{crt}}^{220} \text{ 507A} \times \text{OR-a}$
- ⑨ $\text{UFC 220 crt 609a} \times \text{Thi-3, ars(101), thr-1 R193A}$
 ↓ select crossover between Thi-3 and UFC 220
- ⑩ $\text{Thi-3, UFC 220, crt 782A} \times \text{Thi-3, ars(101) thr-1 R201a}$
 ↓ select crossovers between UFC-220 and Thr-1^-
- ⑪ $\text{Thi-3, UFC 220, thr-1 crt 801a} \times \text{ars(101)R501A}$
 ↓ select crossover between UFC 220 and thr-1^+
- ⑫ $\text{Thi-3, UFC 220 crt 951A} \times \text{ars(101)R502a}$
 ↓ select crossovers between Thi3^+ and UFC 220
- UFC 220 crt 1001A

In the cross #9, 100 ars^+ progeny were examined with respect to electrophoretic mobility of aryl sulfatase. All were of the UFC-220 type, showing that the structural variant is allelic with, or very closely linked to, the ars^- trait.