

**Table S8 Chromosome arrangements in the parental strains of *D. malerkotliana* and *D. bipectinata***

Arm / Muller Element	Strain	Arrangement <sup>a</sup>	Chromosome Order <sup>a</sup>
XL (A)	bip3-isoA	A	<b>1A-5C</b> /10D-5C/10D-11D
XL (A)	mal0-sc2	B	1A-6D/11B-6D/ <b>11B-11D</b>
XR (A)	bip3-isoA	A	<b>12A-12B</b> /14B-12B/14B-17D
XR (A)	mal0-sc2	B	12A-13C/16D-13C/ <b>16D-17D</b>
2L (E)	bip3-isoA	AB+C	<b>18A</b> /24A- <b>28D/22D</b> -18A/24A- <b>22D/28D</b> -32D/39B-32D/ <b>39B-45D</b>
2L (E)	mal0-sc2	A+CQS	18A-22D/28D- <b>22D/28D</b> -31B/36B-36D/34A-36B/31B-32D/39B-36D/ <b>34A-32D/39B-45D</b>
2R (D)	bip3-isoA	AB	46A-47D/52D-49D/57B-52D/47D-49D/57B-61D
2R (D)	mal0-sc2	AB	<b>46A-47D/52D-49D/57B-52D/47D-49D/57B-61D</b>
3L (C)	bip3-isoA	A+CD	<b>62A-62C/66C-62C/66C-70B</b> /76A-77D/73C-70B/76A-73C/ <b>77D-80D</b>
3L (C)	mal0-sc2	A	62A-62C/66C-62C/66C-80D
3R (B)	bip3-isoA	ABC	<b>81A-83B</b> /90C-96B/87A-90C/83B-87A/97A-96B/ <b>97A-100D</b>
3R (B)	mal0-sc2	AL	81A-84A/88B-97A/87A-84A/88B-87A/97A-100D

<sup>a</sup> The names of chromosomal arrangements and chromosome orders refer to the standard polytene chromosome map of the *bipectinata* species complex (Tomimura et al 2005).

**Homosequential genomic regions in *mal0-sc2* and *bip3-isoA*:**

Chromosome X (Muller A) 1A – 5C; 11B – 12B; 16D – 17D  
 Chromosome 2 (Muller E + Muller D) 34A – 61D  
 Chromosome 3 (Muller C + Muller B) 62A – 70B; 77D – 83B; 97A – 100D

**Muller E inversions distinguishing *mal0-sc2* and *bip3-isoA*:**

In(2L)D: 18A – 28D  
 In(2L)M: 28D – 34A