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marker-heterozygous trans-heterozygous (MH) and balancer-heterozygous (BH) descendants of *Drosophila melanogaster* courbaril sap (Hycs) co-treated with Doxorubicin.

Frequency of mutant spots per individual (N°. spots); stat. diagnoses^a

Genotypes and Treatments		Number of flies (N)	Small single spots (1-2 cells) ^b		Large single spots (>2 cél.) ^b		Twin spots		Total spots		Spots with mwh clone ^c (n)	Frequency of clone formation/10 ⁵ cells ⁴ (n/NC) ⁵	Recombination ^d (%)	Inibition (%)
DXR ² (Mg/mL)	Hycs ³ (mL)		m = 2	m = 5	m = 5	m = 2	m = 2	m = 2						
<i>mwh/flr³</i>														
0 ¹	0	40	0.58	(23)	0.2	(8)	0.05	(2)	0.83	(33)	33			
0	0.3	40	0.15	(6) -	0.05	(2) -	0.00	(0) i	0.2	(8) -	8			
0	1.5	40	0.08	(3) -	0.25	(10) -	0.00	(0) i	0.33	(13) -	13			
0	3	40	0.13	(5) -	0.05	(2) -	0.00	(0) i	0.18	(7) -	7			
0.125	0	40	2.8	(112) +	3.65	(146) +	3.1	(124) +	9.55	(382) +	330	16.91	84.86%	
0.125	0.3	40	1.88	(75) *	0.85	(34) *	0.45	(18) *	3.18	(127) *	109	5.58	82.62%	67%
0.125	1.5	40	1.63	(65) *	0.9	(36) *	0.53	(21) *	3.05	(122) *	101	5.17	86.07%	69.43%
0.125	3	40	1.48	(59) *	0.55	(22) *	0.3	(12) *	2.33	(93) *	81	4.15	86.51%	75.46%
<i>mwh/TM3</i>														
0	0	40	0.18	(7) -	0.1	(4) -			0.28	(11) -	11	0.56		
0.125	0	40	0.93	(37) +	0.33	(13) +	e		1.25	(50) +	50	2.56		
0.125	0.3	40	0.3	(12) *	0.18	(7) *			0.48	(19) *	19	0.97		
0.125	1.5	40	0.25	(10) *	0.1	(4) *			0.35	(14) *	14	0.72		
0.125	3	40	0.2	(8) *	0.08	(3) *			0.28	(11) *	11	0.56		

^aStatistical diagnoses according to Frei and Wurgler (1988): -,negative; +, positive; i, inconclusive; m, multiplication factor; *, Significant difference compared with the C- group (P<0.05).

^bIncluding rare *flr3* single spots.

^cConsidering *mwh* clones from *mwh* single and twin spots.

^dPercentage of recombination (R) was calculated according to Frei and Würgler (1996): R = 1 [(n/NC in *mwh/TM3* flies)/(n/NC in *mwh/flr3* flies)]×100. Control corrected frequencies were used for these calculations.

^eOnly *mwh* single spot can be observed in balancer-heterozygous individuals.

¹Negative control, distilled water; ²DXR, Doxorubicin (0,125 mg/mL); ³Hycs, *Hymenaea courbaril* sap.

⁴Frequency of clone formation: clones/wings/24,400 cells (Abrahan and Graf, 1996); ⁵n, no. of spots *mwh*; N, no. of files; C, no. of cells.

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marker-heterozygous trans-heterozygous (MH) and balancer-heterozygous (BH) descendants of *Drosophila melanogaster* *mwh/flr³* and *mwh/TM3* lines were co-treated with Hymenaea courbaril sap (Hycs) co-treated with Doxorubicin.

Frequency of mutant spots per individual (N°. spots); stat. diagnoses^a

Genotypes and Treatments		Number of flies (N)	Small single spots (1-2 cells) ^b		Large single spots (>2 cél.) ^b		Twin spots		Total spots		Spots with <i>mwh</i> clone ^c (n)	Frequency of clone formation/10 ⁵ cells ⁴ (n/NC) ⁵	Recombination ^d (%)	Inhibition (%)
DXR ² (Mg/mL)	Hycs ³ (mL)		m = 2	m = 5	m = 5	m = 2	m = 5	m = 2						
<i>mwh/flr³</i>														
0 ¹	0	40	0.80	(32)	0.15	(6)	0.08	(3)	1.03	(41)	41			
0	0.3	40	0.20	(8) -	0.1	(4) -	0.00	(0) i	0.3	(12) -	11			
0	1.5	40	0.13	(5) -	0.05	(2) -	0.00	(0) i	0.18	(7) -	5			
0	3	40	0.08	(3) -	0.03	(1) -	0.00	(0) i	0.1	(4) -	4			
0.125	0	40	4.6	(184) +	2.08	(83) +	1.7	(68) +	8.38	(335) +	267	13.68	86.92%	
0.125	0.3	40	1.25	(50) *	0.45	(18) *	0.43	(17) *	2.13	(85) *	68	3.48	72.13%	74.56%
0.125	1.5	40	0.85	(34) *	0.45	(18) *	0.48	(19) *	1.78	(71) *	52	2.66	77.07%	80.55%
0.125	3	40	1.1	(44) *	0.53	(21) *	0.3	(12) *	1.93	(77) *	65	3.33	84.68%	75.66%
<i>mwh/TM3</i>														
0	0	40	0.15	(6) -	0.05	(2) -			0.2	(8) -	8	0.41		
0.125	0	40	0.6	(24) +	0.28	(11) +	e		0.88	(35) +	35	1.79		
0.125	0.3	40	0.3	(12) *	0.18	(7) *			0.48	(19) *	19	0.97		
0.125	1.5	40	0.23	(9) *	0.08	(3) *			0.3	(12) *	12	0.61		
0.125	3	40	0.18	(7) *	0.07	(3) *			0.25	(10) *	10	0.51		

^aStatistical diagnoses according to Frei and Wurgler (1988): -,negative; +, positive; i, inconclusive; m, multiplication factor; *,Significant difference compared with the C- group (P<0.05).

^bIncluding rare *flr³* single spots.

^cConsidering *mwh* clones from *mwh* single and twin spots.

^dPercentage of recombination (R) was calculated according to Frei and Würigler (1996): R = 1 [(n/NC in *mwh/TM3* flies)/(n/NC in *mwh/flr³* flies)]×100. Control corrected frequencies were used for these calculations.

^eOnly *mwh* single spot can be observed in balancer-heterozygous individuals.

¹Negative control, distilled water; ² DXR, Doxorubicin (0,125 mg/mL); ³ Hycs, *Hymenaea courbaril* sap.

⁴Frequency of clone formation: clones/wings/24,400 cells (Abraham and Graf, 1996); ⁵ n, no. of spots *mwh*; N, no. of files; C, no. of cells.