

ID	<i>RRl</i>	<i>RRp</i>	<i>RBl</i>	<i>RBp</i>	<i>ROl</i>	$P_{init}$	$\langle MW \rangle$
3	3	3	3	1	3	0.30	1.00
38	3	3	2	2	3	0.90	1.00
39	3	3	2	1	3	1.00	1.00
73	3	3	1	3	3	1.00	1.00
74	3	3	1	2	3	1.00	1.00
75	3	3	1	1	3	1.00	1.00
41	3	2	2	2	3	1.00	0.99
76	3	2	1	3	3	1.00	1.00
77	3	2	1	2	3	1.00	1.00
78	3	2	1	1	3	1.00	1.00
79	3	1	1	3	3	1.00	1.00
80	3	1	1	2	3	1.00	1.00
81	3	1	1	1	3	1.00	1.00
83	1	3	1	2	3	1.00	0.90
84	1	3	1	1	3	1.00	0.93

Table S2. **Adhesion Scenarios Prone to Early Type 1 CNV ( $MW > 0.9$ ) if CNV Initiates.** A large  $MW$  indicates that almost no **stalk cells** cross the **RPE** and come into contact with the **POS**. **Early Type 1 CNV** occurs primarily for two main classes of adhesion scenarios: 1) When **RPE-BrM labile adhesion** is moderately to severely impaired ( $RBl + RBp \leq 4$ ), but **RPE-RPE** and **RPE-POS labile adhesion** are both normal ( $RRl = 3$  and  $ROl = 3$ ). 2) When both **RPE-RPE** and **RPE-BrM labile adhesion** are severely impaired ( $RRl = 1$  and  $RBl = 1$ ), **RPE-BrM plastic coupling** strength is moderately to severely impaired ( $RBp \leq 2$ ) and both **RPE-RPE plastic coupling** adhesion and **RPE-POS labile adhesion** are normal ( $RRp = 3$ ,  $ROl = 3$ ) (ID: 83 and 84). The CNV initiation probability ranges from 0.3 to 1. Key: ID: adhesion scenario ID.  $RRl$ : **RPE-RPE labile adhesion** strength,  $RRp$ : **RPE-RPE plastic coupling** strength,  $RBl$ : **RPE-BrM labile adhesion** strength,  $RBp$ : **RPE-BrM plastic coupling** strength,  $ROl$ : **RPE-POS labile adhesion** strength.  $P_{init}$ : CNV initiation probability.  $\langle MW \rangle$ : mean morphometric weight. Both  $\langle MW \rangle$  and  $P_{init}$  are calculated from 10 simulation replicas for each adhesion scenario. Scaled adhesion strengths: 3: normal (green), 2: moderately impaired (yellow), 1: severely impaired (weak) (red). Adhesion scenarios sequentially sorted largest to smallest in order by  $RRl$ , then by  $RRp$ , then by  $RBl$ , then by  $RBp$  and then by  $ROl$ .