

**Table S1.** Comparative penetrance (lesion burden) in heterozygous CCM murine models (at age 4-5 months).

	Stage 1 lesions/mouse	Stage 2 lesions/mouse	Total
<b>Non-sensitized Heterozygotes</b>			
<i>Krit1</i> <sup>+/-</sup> (n = 16) <sup>a,b</sup>	0	0	0
<i>Ccm2</i> <sup>+/-</sup> (n = 9) <sup>a,b</sup>	0	0	0
<i>Pdcd10</i> <sup>+/-</sup> (n = 15)	1.1	0.5	1.6
<b>Sensitized Heterozygotes</b>			
<i>Krit1</i> <sup>+/-</sup> <i>Msh2</i> <sup>-/-</sup> (n = 16) <sup>c</sup>	0.4	1.0	1.4
<i>Krit1</i> <sup>+/-</sup> <i>Trp53</i> <sup>-/-</sup> (n=8) <sup>a</sup>	Not determined	Not determined	9.4
<i>Ccm2</i> <sup>+/-</sup> <i>Msh2</i> <sup>-/-</sup> (n = 11) <sup>b</sup>	0	0	0
<i>Ccm2</i> <sup>+/-</sup> <i>Trp53</i> <sup>-/-</sup> (n = 18) <sup>c</sup>	0.7	0.6	1.2
<i>Pdcd10</i> <sup>+/-</sup> <i>Trp53</i> <sup>-/-</sup> (n = 15)	2.2	14.1	16.3

<sup>a</sup>Shenkar et al. (2008)<sup>6</sup>.

<sup>b</sup>McDonald et al. (2011)<sup>2</sup>.

<sup>c</sup>unpublished data.