

**Table S1.** *Smed-PTEN* phenotype manifestation in intact and regenerating worms

| Condition    | Phenotype manifestation <sup>*</sup><br>days after first injection | Phenotype manifestation <sup>*</sup><br>days of regeneration |
|--------------|--|--|
| Intact       | 10.9 ± 2.2   | N/A  |
| Regeneration | 10 ± 0.8   | 2 ± 0.8  |

\*Represent mean of > four different experiments ± s.d. in which signs of phenotype were macroscopically evident. Total animals evaluated for intact (n>100) and regenerating fragments (n=47). Phenotype manifestation (days) for intact and regenerating fragments p= 0.25, Student's *t*-test. Note: In both conditions intact and regeneration 100% of all worms manifested the phenotype and died.