



**Figure S2 Cuticle integrity assay.** Cuticle integrity was assayed in adult animals by permeability to Hoechst stain (MORIBE *et al.* 2004). (A) feeding vector (FV) control animal shows only background staining and intestinal autofluorescence (arrowheads). (C - E) *col-38(RNAi)*, *dao-4(RNAi)*, *bli-1(e769)* and *bar-1(ga80)* animals show nuclear staining (arrows) throughout the body not seen in control animals.