

Feeding behavior mutations of interest

- M4 (isthmus peristalsis), M3 and MC (pumping) are sufficient for nearly normal feeding behavior
- *eat-18* - necessary for EAT-2 function
- Pumping still occurs without EAT-2 and MC
- *Δcca-1* - decreases potential of MC to trigger action potential -> reduced intake of food
- *Δegl-19*
 1. myotonic group - muscle action potentials are prolonged and relaxation delayed
 2. flaccid group - slow muscle depolarization and feeble contraction
 3. lethal group - lacks all muscle contraction and dies as an embryo
- *eat-4* and *avr-15* are necessary for M3 -> muscle transmission
- Can uncouple TB and corpus
- *Δser-7* - MC not stimulated by serotonin
- *Δgpb-2* - muscarin signalling pathway becomes hyperactive
- *Δgar-3* - GAR-3 -> MPK-1 pathway is blocked - lower pumping during starvation
- *Δeat-2/eat-5* - high probability of leaving DA837, but 200 fold preference for DA837 over much larger *B. megaterium*
- AIY interneuron - worms become strongly biased towards dwelling
- *Δact-5* - absorption mutant
- *Δegl-21* - don't produce most peptide signals - defective of satiety quiescence
- *Δpkg-1* - loss of function shows no SQ - necessary for SQ along with DAF-11 - *tax-4* promoter rescues this SQ defect
- *Δtax-2* - no quiescence
- ASI - potential lifespan extension via diet restriction
- *Δdaf-2/daf-7* - no SQ - higher than normal fat storage

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