



Comparative Biology of Aging

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determined by an inability to move in response to touch. *C. elegans* develop through four larval stages following hatching and prior to adulthood. Adult *C. elegans* are reproductive for about the first week of adulthood followed by approximately two weeks of post-reproductive adulthood prior to death. Life span is most commonly measured in the laboratory by maintaining the worms on the surface of a nutrient agar medium (Nematode Growth Medium, NGM) with *E. coli* OP50 as the bacterial food source (REF). Alternative culture conditions have been described in liquid media; however, these are not widely used for longevity studies. Longevity of the commonly used wild type *C. elegans* hermaphrodite (N2) varies from 16 to 23 days under standard laboratory conditions (20 °C, NGM agar, *E. coli* OP50 food source). Life span can be increased by maintaining animals at lower ambient temperatures and shortened by raising the ambient temperature. Use of a killed bacterial food source, rather than live *E. coli*, increases lifespan by 2–4 days, and growth of adult animals in the absence of bacteria (axenic growth or bacterial deprivation) increases median life span to 32–38 days [3, 23, 24]. Under both standard laboratory conditions and bacterial deprivation conditions, wild-derived *C. elegans* hermaphrodites exhibit longevity comparable to N2 animals [25].

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