

Historical Timeline – Evolutionary Mechanics Theories and Associated Theories of Biological Aging

| Date | Traditional Evolutionary Mechanics And Non-Programmed Aging | Alternative Evolutionary Mechanics And Programmed Aging |
|--------------|--|--|
| Pre- 1859 | | Life span not distinguished from other species-unique characteristics |
| 1859 | Darwin publishes traditional mechanics theory – mandates non-programmed aging | Darwin's critics note apparent observed conflicts regarding life span |
| 1882 | <u> </u> | Weismann's programmed death theory (no evolutionary mechanics support) |
| 1945 | Modern synthesis and neo-Darwinism codify traditional mechanics theory | |
| 1952 | Medawar's concept – Evolutionary effect of aging small or negligible after reproductive maturity | |
| 1952 | Mutation accumulation theory - Medawar | |
| 1957 | Antagonistic pleiotropy theory - Williams | |
| 1962 | | Group selection mechanics theory – Wynne-Edwards, others |
| 1964 | | Kin selection mechanics theory – Hamilton, others |
| 1975 | Disposable soma theory – Kirkwood, Holliday | |
| 1975+ | | Gene-oriented mechanics theories – Dawkins, others |
| 1977 | | Discovery of complex octopus suicide mechanism - Wodinski |
| 1988 | | Kin selection based aging theory - Libertini |
| 1996+ | | Pro-aging genes discovered – Kenyon, others |
| 1996+ | | Evolvability mechanics theories –Wagner, others |
| 1997+ | | Evolvability-based aging theories – Skulachev, Goldsmith |
| 1999+ | | Discovery of life span regulation controlled by sensing of external conditions in various organisms |
| 2004+ | | Group selection based aging theories – Mitteldorf |
| 2009 | Most gerontologists continue to believe non-programmed theories. | Extensive and increasing interest in alternative mechanics but no consensus. Steadily increasing observational evidence for programmed aging |

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