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Five Alarm Bio and Magnitude Biosciences show 40% improvement in *C. elegans* healthspan

Five Alarm Bio has partnered with Magnitude Biosciences to test how the Five Alarm's 'Hormimic' technology affects the healthy lifespan in a well-tested model organism. Magnitude Biosciences is a leader in the provision of drug testing services using the model organism *C. elegans*, a millimeter-long nematode worm that has been used to make a number of breakthroughs in the biology of aging. They have muscle, nerve, gut and other organs like larger animals, but can live in a petri dish and they age fast, staying healthy for only a week or two.

Magnitude's technology tracks the movement of the worms, an accurate measure of their health. As they age their movement declines, reflecting their active, healthy lifespan or 'healthspan'.

Magnitude showed that Five Alarm Bio's test compound improved the healthspan of the worms by about 40%, making a 5-day old worm move as easily as a 3¼ day old worm. If humans could improve their healthspan that much, a 60-year old would feel like they were only 45.

William Bains, CSO of Five Alarm Bio, says "This is a very exciting result for us. Our previous experiments have provided strong data that our Hormimic technology can delay senescence in cells in culture, and reduce the damage accumulating in those cells. The Magnitude technology allowed us to take a major stride forward and show that we can have a substantial effect on the healthy lifespan of a whole organism. This is a real, whole animal anti-aging effect"

David Weinkove, CEO of Magnitude, says "We perform a lot of healthspan assays, including on existing drugs known to improve mobility, and having a compound such as FAB001 that not only has shown no toxicity but also such strong early data in improving the healthspan of worms really stands out and warrants further studies."

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