

Order: 8622

Experiment type: Combinatorial Intervention

## Thank you for sponsoring the Million Molecule Challenge!

Below you will find the data for the treatment you sponsored. Please remember that this data is conducted in a model system and is not intended to inform personal health decisions. Please consult your physician before making changes to your personal health regimen.

### Advice on data interpretation

At Ora Biomedical Inc. we conduct rigorous science with the goal of producing the highest quality, reproducible data. While a single promising result is exciting (and a negative result may be disheartening), please keep in mind that this data represents a single experiment performed at a single dose. Treatments were compared to matched solvent-only controls conducted at the same time. Insights gleaned from this study only reflect the specific dose and testing regime used. For context, highly promising interventions produce lifespan extensions between 50-70%, depending on drug dosage and other environmental factors. If you have questions regarding your treatment, feel free to reach out and we will do our best to contextualize the data for you. Please note, we pool data from all control populations tested along with your treatment and will often greatly exceed that of treated animals.

Lastly, do not get discouraged by a negative result! As we explore chemical space, understanding which treatments do not effect aging is as important as finding the ones that do! Keep in mind that the number of treatments with no or negative effect on aging will be greater than those that increase lifespan. Often these results are not published in academic research which can result in wasted resources and effort as others try and re-try an experiment. In addition to the publicly available dataset (if you chose to include your data), the data from your sponsorship is added to the Ora Biomedical internal database, which is the largest, highest quality, and most experimentally consistent longevity dataset ever created!

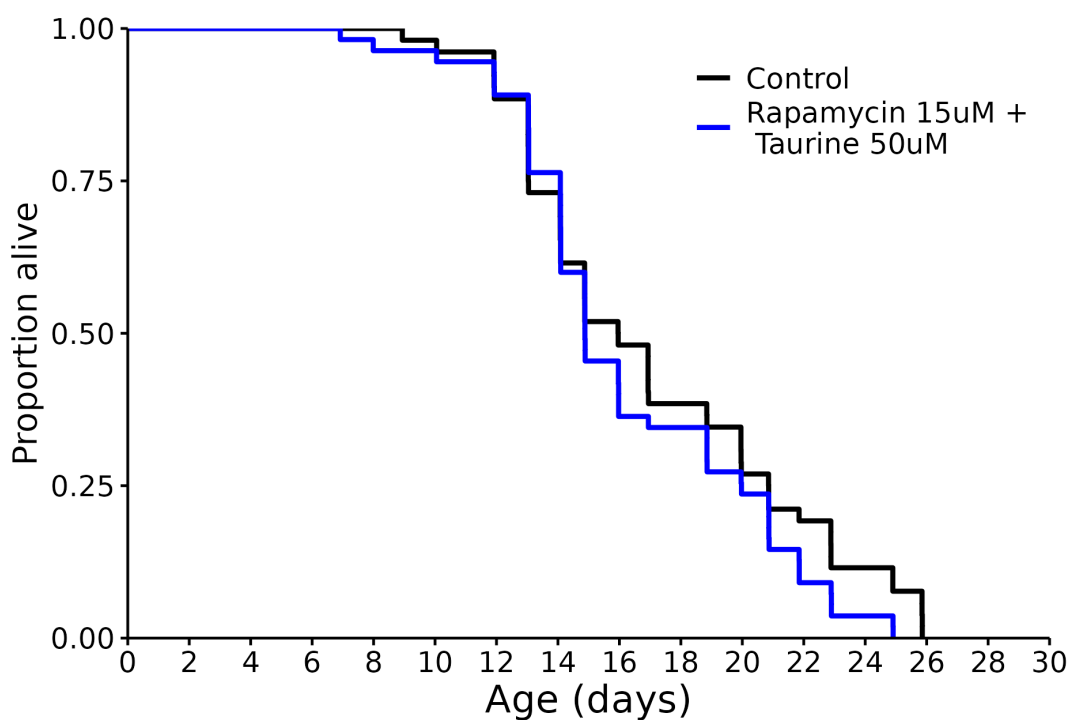
### Methods

Experiments were conducted at 20 degrees Celsius using adult N2 Bristol *Caenorhabditis elegans* from the *Caenorhabditis* Genetics Center. Animals were grown from egg to enrollment in the study at 20C from age-synchronized populations on nematode-growth-media (NGM) agar and fed with laboratory grown *E. coli* bacteria. At late L4 larval stage, 20-25 animals were transferred to NGM agar supplemented with either the compound(s) of interest or relevant solvent controls. Floxuridine was added to prevent progeny production. Observations were made every day using the WormBot automated capture platform and images were analyzed via the WormBot-AI analysis pipeline. For your experiment, we tested compound(s) at the concentration specified below in at least two replicate populations. Data was pooled across these replicate populations and compared to pooled control populations treated with all relevant solvents (DMSO-1% and H<sub>2</sub>O-1% for your selected compounds). After all compounds are dissolved into the petri plate, each solvent will be 1% of the total volume. Please note this can lead to the controls being 2% solvent if both treatments are dissolved in the same vehicle. To assess whether the tested treatment extended organismal lifespan, we compared treatment to solvent control using a standard logrank statistical test. See page two for drug information, Kaplan-Meier survival curve, and summary data table. Thank you again for advancing longevity research!

## Drug information from chemical library

Compound Name	Formula	Pathway	Target
Rapamycin (Sirolimus)	C <sub>51</sub> H <sub>79</sub> NO <sub>13</sub>	PI3K/Akt/mTOR Signaling	mTOR
Taurine	C <sub>2</sub> H <sub>7</sub> NO <sub>3</sub> S	Others	Others

## Survival curve



## Summary table

Treatment	Median lifespan	# animals	# replicates	95% LCL	95% UCL	Log-rank p-value
Control	16.0	52	3	14.1	20.0	-
Rapamycin 15uM / Taurine 50uM	14.9	55	3	14.1	16.9	0.362

*LCL - lower confidence interval UCL - upper confidence interval*

Questions? Comments? Please contact us at [MMC@orabiomedical.com](mailto:MMC@orabiomedical.com). Want to repeat your experiment? Use our web-page to sponsor an additional experiment.

## Terms and Conditions

*Effective Date: Jan 1, 2024*

*Revised: Feb 12, 2024*

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- (d) Ora and relevant employees shall be listed as co-authors in any academic or research publications or presentations that arise from the use of the sponsored research data, in accordance with academic and publishing standards.

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