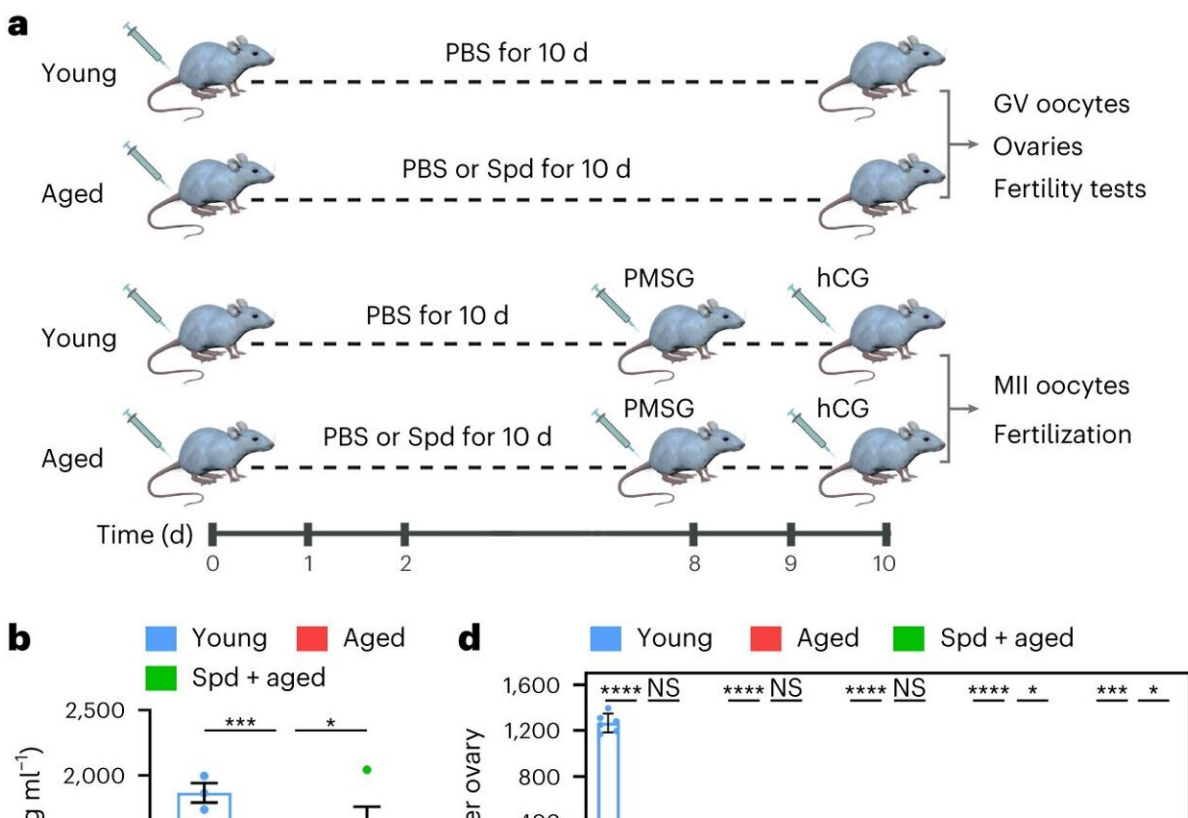


# Spermidine found to rejuvenate oocyte quality by improving mitophagy during female reproductive aging

October 17 2023, by Bob Yirka



Effects of spermidine supplementation on the ovarian spermidine level, follicle development and female fertility in aged mice. a, A timeline scheme for spermidine (Spd) supplementation, hormone priming and subsequent analyses. hCG, human chorionic gonadotropin; PMSG, pregnant mare serum gonadotropin; MII, metaphase II. b, Spermidine levels were measured in the lysates of ovaries from young mice (n = 60), aged mice (n = 36) and aged mice

supplemented with spermidine (Spd + aged) (n = 36). \*\*\*P = 0.0001, \*P = 0.0465. c, Representative images of ovarian sections from young, aged and Spd + aged mice. Scale bars, a', 300  $\mu$ m; b', 150  $\mu$ m. d, Numbers of follicles at different developmental stages were counted in each ovarian section from young (n = 6), aged (n = 6) and Spd + aged (n = 6) mice. \*\*\*\*P

Citation: Spermidine found to rejuvenate oocyte quality by improving mitophagy during female reproductive aging (2023, October 17) retrieved 24 June 2024 from <https://medicalxpress.com/news/2023-10-spermidine-rejuvenate-oocyte-quality-mitophagy.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.