

Vera Gorbunova

Doris Johns Cherry Professor Professor of Biology and Co-Director of the Rochester Aging Research Center at University of Rochester

Rochester, NY, US

Gorbunova's innovative research on DNA repair and the aging process has been internationally recognized

Biography

Gorbunova's research interests include cancer, genomic instability, and the mechanisms and comparative biology of aging. She is the co-director of the Rochester Aging Research Center, where she co-directs the Gorbunova and Seluanov laboratory, and she has recently been studying the mechanisms of longevity and genomic stability in exceptionally long-lived mammals, with a particular focus on the naked mole rat and the blind mole rat, both of which are known for their resistance to cancer and virtually all age-related ailments. She found that a key factor in the cancer resistance of naked mole rats is high molecular-weight hyaluronan, a molecule that is present in humans as well, although in a different form, and is used in the treatment of certain age-related conditions, such as arthritis. Gorbunova is the recipient of several awards, including from the National Institutes of Health and the American Federation for Aging Research among many others, and she sits on the editorial boards of *Frontiers in Genetics*, *Genetics of Aging*, *Aging*, *Pathobiology of Aging and Age-Related Diseases*, *Aging Cell*, and *Oncotarget: Gerotarget*.

Areas of Expertise

naked mole rats, Cancer Resistance, DNA Repair, Biology of Aging

Education

University of St. Petersburg
B.S.

Weizmann Institute of Science
PhD

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