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Curing human dementias**Michael Fossel**
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Both animal research and human clinical trials on age-related CNS diseases have suffered from the lack of a unified systems model. One result has been the failure of animal studies to translate into successful human trials, as well as the uniform failure of clinical trials aimed at targets such as amyloid, tau, etc. A unified model of age-related CNS dysfunction needs to offer a framework for not only age-related human CNS diseases – including Alzheimer's and other age-related human dementias but for age-related CNS dysfunction in animals as well. The model detailed here, focusing on cell senescence and the concomitant changes in gene expression, encompasses both human and animal disease and suggests a novel point of clinical intervention.

Summary: A unified systems model of age-related dementias is consistent with all clinical data, explains and accurately predicts the outcomes of human trials (more than 1,100 of which have failed), and offers a novel and feasible point of intervention that promises an effective cure for Alzheimer's disease and other dementias.

Biography

Fossel has an MD and a PhD in neurobiology from Stanford University where he taught neurobiology and research methods. A clinical professor of medicine, he is considered the world's foremost expert on telomeres, aging, and age-related disease. He gave the first talk at the NIH on the reversal of human aging, published the first articles on the potential of telomeres as a clinical intervention, and authored the only medical textbook in this field, *Cells, Aging, and Human Disease*, by Oxford University Press. He was editor-in-chief of *Rejuvenation Research* and the director of the American Aging Association, as well as the Editor-in-Chief of *OBM Geriatrics*. He has authored more than 100 books, chapters, and articles, including *The Telomerase Revolution*, which the *Wall Street Journal* praised as one of the best science books of the year. He is president of Telocyte, a biotech firm taking telomere therapy to FDA human trials, as well as the author of "A Unified Model of Dementias and Age-Related Neurodegeneration", published in *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* in January of 2020, which generated more than 600 reprint requests in the first two weeks.