

Presentation Title:
“Is age reversal possible for human being?”

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If the answer to the above question is yes, then this would have a huge impact on how we view ourselves as humans and offers unlimited possibility. Notice, the question is not, “Is life extension possible?” or “Can we slow the aging process down?”, but the question presented is, “Can we reverse aging? The solutions to these questions may have common molecular mechanisms. However, age reversal may possess its own set of processes that are unique.

Indeed, recent scientific discoveries are pointing to the possibility that human aging may be reversed by reprogramming the *epigenome*** that has governed this process for eons. The purpose of this presentation is to introduce this possibility to you based on credible scientific research. In addition, it is my intension to communicate future scientific investigations that may lead us to the answers we are looking for and open a set of new questions. Welcome to Science! In addition, this presentation is not intended as a comprehensive scientific discourse on the topic of aging.

***The epigenome is the complete description of all the chemical modifications to DNA and histone proteins that regulate the expression of genes within the genome of an individual.*

I invite questions and discussion regarding this topic. Correspondence and requests should be addressed to the above email address.

Suggested reading:

Ocampo, A, *et al.* In vivo amelioration of age-associated hallmarks by partial reprogramming. *Cell* 167, 1719 – 1733 e1712 (2016)

Tapash, J.S. *et al.* Transient non-integrative expression of nuclear reprogramming factors promotes multifaceted amelioration of aging in human cells. *Nature Communications* e11:1545 p.1-12 (2020)

Rando, A.T., Chang Y.H Aging, Rejuvenation, and Epigenetic Reprogramming: Resetting the Aging Clock. *Cell* January 20; 148 (1-2): 46-57. (2012)