

Senotherapy has been growing rapidly to promote healthy **aging** and as an intervention for **aging complications**. The research focused on screening the senomorphic properties of **Artemisia argyi**, as an emerging strategy for **longevity**, and prevention or treatment of **aging complications**. Ho et al. aimed to find the **clinical efficacy** of daily consumption of Artemisia argyi water extract (AAW) on aging. In vitro 0.1μM **Doxorubicin** induced senescent human adipose-derived **mesenchymal stem cells** was treated with different concentrations of AAW to show its anti-aging effect. 15 months old SHR rats (n=6) were treated with 7.9 mg/ml AAW for 4 weeks and the anti-aging effect was evaluated. In vitro study showed the protective effect of AAW in telomere shortening and helps in maintaining a balance in the expression of anti-aging protein Klotho and TERT. AAW effectively reduced mitochondrial superoxide and also provided a protective shield against senescence markers like over-expression of p21 and formation of double strand breaks, which is known to cause premature aging. Moreover, animal studies indicated that AAW promoted the expression of Klotho in naturally aging rats. In addition, AAW successfully restored the decline cardiac function and improved the grip strength and memory of aging rat. These findings showed that therapeutic targeting of senescent stem cells by AAW restored stem cell homeostasis and improves overall health ¹⁾.

¹⁾

Ho TJ, Goswami D, Kuo WW, Kuo CH, Yen SC, Lin PY, Lin SZ, Hsieh DJ, Shibu MA, Huang CY. **Artemisia argyi** exhibits anti-aging effects through decreasing the senescence in aging stem cells. Aging (Albany NY). 2022 Aug 9;14(undefined). doi: 10.18632/aging.204210. Epub ahead of print. PMID: 35951373.

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