

Resource Summary Report

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Bioage

RRID:SCR_027788

Type: Tool

Proper Citation

Bioage (RRID:SCR_027788)

Resource Information

URL: <https://github.com/dayoonkwon/BioAge>

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Description: Software R package uses published biomarker algorithms to calculate three biological aging measures: Klemmera-Doubal Method (KDM) biological age, phenotypic age, and homeostatic dysregulation. Used to quantify biological aging based on analysis of chronological age and mortality risk.

Resource Type: source code, software toolkit, software resource

Defining Citation: [PMID:34725754](#)

Keywords: Biological age calculations, Klemmera-Doubal Method, biological age, phenotypic age, homeostatic dysregulation, quantify biological aging, analysis of chronological age, mortality risk,

Funding: NIA R01 AG061378;
NIA R01 AG066887

Availability: Free, Available for download, Freely available

Resource Name: Bioage

Resource ID: SCR_027788

License: GNU GPL v3

Record Creation Time: 20251216T055148+0000

Record Last Update: 20260818T043834+0000

Ratings and Alerts

No rating or validation information has been found for Bioage.

No alerts have been found for Bioage.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 94 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#).

Duan QQ, et al. (2026) Biological aging predicts mortality in Parkinson's patients: evidence from UK Biobank. NPJ Parkinson's disease, 12(1).

Shi F, et al. (2026) Association between accelerated biological aging and kidney stones and role of insulin resistance: a cross-sectional NHANES study. Translational andrology and urology, 15(2), 52.

Pan Z, et al. (2026) Joint association of serum 25-hydroxyvitamin D concentration and body mass index on the acceleration of clinical biomarker-based biological aging. The journals of gerontology. Series A, Biological sciences and medical sciences, 81(1).

Chen Y, et al. (2026) Associations Between Polybrominated Diphenyl Ethers and Biological Aging in NHANES 2005-2010 and 2015-2016. GeoHealth, 10(2), e2025GH001448.

Huang M, et al. (2026) Klotho levels and biological age acceleration: Insights from a diverse cohort of middle-aged and elderly individuals. PloS one, 21(3), e0343429.

Hung RL, et al. (2026) The healthy human global project - Hong Kong: A community-based cross-sectional study of a healthy Asian population. Cell reports. Medicine, 7(4), 102701.

Yao Y, et al. (2026) Association of pregnancy history and unhealthy lifestyle with biological age acceleration: a large cross-sectional study. Frontiers in public health, 14, 1761874.

Zhang D, et al. (2026) Population-Based Structural Evidence: Triadic Effects of Periodontitis, Depression, and Biological Aging on Cognitive Health. Gerontology, 72(5), 343.

Andrews CJ, et al. (2026) Short-Term Dietary Intervention Alters Physiological Profiles Relevant to Ageing. Aging cell, 25(5), e70507.

Zhang W, et al. (2026) Accelerated biological aging, genetic susceptibility, and the risk of peripheral arterial disease: Evidence from the UK Biobank cohort study. International journal of cardiology. Cardiovascular risk and prevention, 30, 200664.

Hou Y, et al. (2026) Longitudinal associations of sarcopenia and biological age acceleration with rate of cognitive decline. *BMC public health*, 26(1).

Zhang D, et al. (2026) The Mediating Role of Biological Age Advance in the Association Between Periodontitis and Mortality: Biological Aging Links Periodontitis to Mortality. *Clinical and experimental dental research*, 12(1), e70305.

Tzemah-Shahar R, et al. (2026) Midlife aging and performance study (MAPS): evaluating biological aging through a physical capacity battery. *GeroScience*, 48(2), 2851.

Yang G, et al. (2026) Triglyceride glucose index-a body shape index (TyG-ABSI) outperforms traditional obesity indices in predicting all-cause and cardiovascular mortality in metabolic-dysfunction associated steatotic liver disease: the mediating role of biological aging. *Cardiovascular diabetology*, 25(1).

Wang Y, et al. (2026) Biological age acceleration, genetic susceptibility, and incident diabetic retinopathy risk: A prospective cohort study. *The journal of nutrition, health & aging*, 30(6), 100863.

Huang A, et al. (2026) Association of dietary index for gut microbiota with premature and all-cause mortality: A mediation analysis of biological age. *The journal of nutrition, health & aging*, 30(6), 100861.

Zhao M, et al. (2026) Association Between Estimated Glucose Disposal Rate and Biological Aging Among U.S. Adults: A Cross-Sectional Study. *Health science reports*, 9(6), e72648.

Zheng X, et al. (2026) Associations of accelerated biological ageing with incident dementia, cognitive functions and brain structure: a prospective cohort study based on UK Biobank. *Stroke and vascular neurology*, 11(1), 58.

Lyu Z, et al. (2026) Association of the Naples Prognostic Score With Functional Outcomes and the Mediating Effects of PhenoAge Acceleration in Patients With Acute Ischemic Stroke or Transient Ischemic Attack: A Nationwide Registry Study. *Journal of the American Heart Association*, 15(3), e043901.

Ren H, et al. (2026) Sex-Specific Biological Aging-Related Lipidomic Profiles Mediate the Impact of Urinary Polycyclic Aromatic Hydrocarbon Exposures on Cognitive Function in Healthy Older Adults. *Environment & health (Washington, D.C.)*, 4(3), 408.