

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: software resource, software toolkit, source code

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: 20260805T044617+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 54 mentions in open access literature.

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

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 X, et al. (2025) Associations between anthropometric indices and biological age acceleration in American adults: insights from NHANES 2009-2018 data. Scientific reports, 15(1), 22691.

Li WY, et al. (2025) The Association Between Accelerated Biological Aging as Measured by KDMAge and PhenoAge and Digestive System Cancer Risk: A Cross-Sectional Study Using NHANES Data (1999-2018). Journal of digestive diseases, 26(9-10), 436.

Chen X, et al. (2025) Association of uric acid to high-density cholesterol ratio (UHR) with biological age acceleration: evidence from NHANES 2009-2018. Scientific reports, 15(1), 41847.

Jin Z, et al. (2025) Decoding sexually dimorphic proteomic landscapes in the context of aging and mortality. Communications medicine, 5(1), 403.

Herzig S, et al. (2025) A biological age based on common clinical markers predicts health trajectory and mortality risk in dogs. GeroScience, 47(1), 45.

Provost G, et al. (2025) No winners or losers: clinical chemistry-based biological aging metrics perform similarly across cohorts and health outcomes. The journals of gerontology. Series A, Biological sciences and medical sciences, 80(11).

Gao Y, et al. (2025) Accelerated Biological Aging and Genetic Pleiotropy in Age-Related Eye Diseases: A Population-Based Cohort and Integrative Genetic Analysis. Investigative ophthalmology & visual science, 66(14), 14.

Wei L, et al. (2025) Biological Aging Exhibits an Inverted J-Shaped Relationship with Stress Urinary Incontinence in Women. International journal of women's health, 17, 5597.

Deng L, et al. (2025) Biological age prediction and NAFLD risk assessment: a machine learning model based on a multicenter population in Nanchang, Jiangxi, China. BMC gastroenterology, 25(1), 172.

Zeng LS, et al. (2025) The association between dietary quality and biological aging: two-mediation analysis. *Aging clinical and experimental research*, 37(1), 130.

Xie B, et al. (2025) Years since menopause and its metabolomic signature with biological aging in women at midlife: a population-based study. *npj aging*, 11(1), 58.

Tang B, et al. (2025) Longitudinal associations between medication use and phenotypic aging: insights from the Baltimore longitudinal study of aging. *The journals of gerontology. Series A, Biological sciences and medical sciences*, 80(8).

Wang Y, et al. (2025) Modelling of biological age in stable and acute exacerbations of chronic obstructive pulmonary disease. *BMC pulmonary medicine*, 25(1), 398.

Wu X, et al. (2025) Evaluating the nonlinear effects of sleep duration on biological aging across phenotypic, genomic, and epigenomic data. *Aging*, 17(8), 2126.

Lou C, et al. (2025) Association of female reproductive traits with altered aging trajectories: Insights from genetic and observational analyses. *Cell reports. Medicine*, 6(12), 102481.

Xu X, et al. (2025) Biological aging, left ventricular dysfunction and mortality in patients with heart failure with preserved ejection fraction. *npj aging*, 11(1), 102.

Petrican R, et al. (2025) Genetic risk predicts adolescent mood pathology via sexual differentiation of brain function and physiological aging. *Nature communications*, 16(1), 5593.

Li Y, et al. (2025) Association between methyl donor nutrients' dietary intake with phenotypic aging among US adults: a cross-sectional study from NHANES 2005-2018. *Scientific reports*, 15(1), 12591.

Huang W, et al. (2025) Dynamics of serum testosterone and biological aging in men: insights from Chinese, American, and British populations. *EClinicalMedicine*, 82, 103178.