

Mahdi Moqri, PhD

Casual - Non-Exempt, Genetics

Publications

PUBLICATIONS

- **Autonomous AI Agents Discover Aging Interventions from Millions of Molecular Profiles.** *bioRxiv : the preprint server for biology*
Ying, K., Tyshkovskiy, A., Moldakozhayev, A., Wang, H., De Magalhães, C. G., Iqbal, S., Garza, A. E., Tskhay, A., Poganik, J. R., Huang, K., Qu, Y., Glubokov, D., Jin, et al
2025
- **A unified framework for systematic curation and evaluation of aging biomarkers.** *Nature aging*
Ying, K., Paulson, S., Eames, A., Tyshkovskiy, A., Li, S., Eynon, N., Jacques, M., Grolaux, R., Seale, K., Jacques, E., Goeminne, L. J., Cipriano, A., Perez-Guevara, et al
2025
- **Digital biomarkers of ageing for monitoring physiological systems in community-dwelling adults.** *The lancet. Healthy longevity*
Lu, J. K., Wang, W., Mahadzir, M. D., Poganik, J. R., Moqri, M., Herzog, C., Verdin, E., Sebastiano, V., Gladyshev, V. N., Maier, A. B.
2025: 100725
- **Invigorating discovery and clinical translation of aging biomarkers.** *Nature aging*
Jacques, E., Herzog, C., Ying, K., Tomusiak, A., Kasamoto, J., Sehgal, R., Paulson, S., Reinhard, J., Träuble, J., Hastings, W. J., Tyshkovskiy, A., Hägg, S., Earls, et al
2025
- **What makes biological age epigenetic clocks tick** *NATURE AGING*
Moqri, M., Poganik, J. R., Horvath, S., Gladyshev, V. N.
2025
- **Balancing the promise and risks of geroscience interventions** *NATURE AGING*
Cohen, A. A., Beard, J. R., Ferrucci, L., Fulop, T., Gladyshev, V. N., Moqri, M., Rikkert, M., Picard, M.
2025; 5 (1): 4-8
- **Disagreement on foundational principles of biological aging.** *PNAS nexus*
Gladyshev, V. N., Anderson, B., Barlit, H., Barré, B., Beck, S., Behrouz, B., Belsky, D. W., Chaix, A., Chamoli, M., Chen, B. H., Cheng, K., Chuprin, J., Churchill, et al
2024; 3 (12): pgae499
- **An Open Competition for Biomarkers of Aging.** *bioRxiv : the preprint server for biology*
Ying, K., Paulson, S., Reinhard, J., de Lima Camillo, L. P., Träuble, J., Jokiel, S., Gobel, D., Herzog, C., Poganik, J. R., Moqri, M., Gladyshev, V. N.
2024
- **High-dimensional Ageome Representations of Biological Aging across Functional Modules.** *bioRxiv : the preprint server for biology*
Ying, K., Tyshkovskiy, A., Chen, Q., Latorre-Crespo, E., Zhang, B., Liu, H., Matei-Dediu, B., Poganik, J. R., Moqri, M., Kirschne, K., Lasky-Su, J., Gladyshev, V. N.
2024
- **Challenges and recommendations for the translation of biomarkers of aging.** *Nature aging*
Herzog, C. M., Goeminne, L. J., Poganik, J. R., Barzilai, N., Belsky, D. W., Betts-LaCroix, J., Chen, B. H., Chen, M., Cohen, A. A., Cummings, S. R., Fedichev, P. O., Ferrucci, L., Fleming, et al
2024

- **Transcriptional and epigenetic characterization of a new in vitro platform to model the formation of human pharyngeal endoderm.** *Genome biology*
Cipriano, A., Colantoni, A., Calicchio, A., Fiorentino, J., Gomes, D., Moqri, M., Parker, A., Rasouli, S., Caldwell, M., Briganti, F., Roncarolo, M. G., Baldini, A., Weinacht, et al
2024; 25 (1): 211
- **PRC2-AgeIndex as a universal biomarker of aging and rejuvenation.** *Nature communications*
Moqri, M., Cipriano, A., Simpson, D. J., Rasouli, S., Murty, T., de Jong, T. A., Nachun, D., de Sena Brandine, G., Ying, K., Tarkhov, A., Aberg, K. A., van den Oord, E., Zhou, et al
2024; 15 (1): 5956
- **Nature of epigenetic aging from a single-cell perspective.** *Nature aging*
Tarkhov, A. E., Lindstrom-Vautrin, T., Zhang, S., Ying, K., Moqri, M., Zhang, B., Tyshkovskiy, A., Levy, O., Gladyshev, V. N.
2024
- **Validation of biomarkers of aging.** *Nature medicine*
Moqri, M., Herzog, C., Poganik, J. R., Ying, K., Justice, J. N., Belsky, D. W., Higgins-Chen, A. T., Chen, B. H., Cohen, A. A., Fuellen, G., Hägg, S., Marioni, R. E., Widschwendter, et al
2024
- **Causality-enriched epigenetic age uncouples damage and adaptation.** *Nature aging*
Ying, K., Liu, H., Tarkhov, A. E., Sadler, M. C., Lu, A. T., Moqri, M., Horvath, S., Kutalik, Z., Shen, X., Gladyshev, V. N.
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- **Mechanisms, pathways and strategies for rejuvenation through epigenetic reprogramming.** *Nature aging*
Cipriano, A., Moqri, M., Maybury-Lewis, S. Y., Rogers-Hammond, R., de Jong, T. A., Parker, A., Rasouli, S., Schöler, H. R., Sinclair, D. A., Sebastiano, V.
2023
- **OMICmAge: An integrative multi-omics approach to quantify biological age with electronic medical records.** *bioRxiv : the preprint server for biology*
Chen, Q., Dwaraka, V. B., Carreras-Gallo, N., Mendez, K., Chen, Y., Begum, S., Kachroo, P., Prince, N., Went, H., Mendez, T., Lin, A., Turner, L., Moqri, et al
2023
- **Dynamic lipidome alterations associated with human health, disease and ageing.** *Nature metabolism*
Hornburg, D., Wu, S., Moqri, M., Zhou, X., Contrepolis, K., Bararpour, N., Traber, G. M., Su, B., Metwally, A. A., Avina, M., Zhou, W., Ubellacker, J. M., Mishra, et al
2023
- **Biomarkers of aging for the identification and evaluation of longevity interventions.** *Cell*
Moqri, M., Herzog, C., Poganik, J. R., Biomarkers of Aging Consortium, Justice, J., Belsky, D. W., Higgins-Chen, A., Moskalev, A., Fuellen, G., Cohen, A. A., Bautmans, I., Widschwendter, M., Ding, J., et al
2023; 186 (18): 3758-3775
- **Organ-specific aging and the risk of chronic diseases.** *Nature medicine*
Moqri, M., Snyder, M.
2023
- **The Blood Plasma Lipidome: Distinct Molecular signatures delineate metabolic health in a cross-sectional human cohort**
Hornburg, D.
under review.
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- **AgeIndex, a whole-genome epigenetic aging and rejuvenation index**
Moqri, M.
under review.
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