

# Kejun “Albert” Ying, Ph.D.

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*Studying aging at the intersection of biology and AI*

## Education

<b>Harvard University</b> <i>Ph.D., Biological Science in Public Health</i>	Cambridge, MA 2019 – March 2025
<ul style="list-style-type: none"><li>• Advisor: Dr. Vadim Gladyshev, Harvard Medical School, Brigham and Women’s Hospital</li><li>• Dissertation Advisory Committee: Dr. Brendan Manning, Dr. David Sinclair, Dr. Shamil Sunyaev</li><li>• Focused on understanding the mechanism of aging through multi-omic modeling &amp; causal inference</li></ul>	
<b>Harvard University</b> <i>M.S., Computational Science Engineering</i>	Cambridge, MA 2022 – 2024
<ul style="list-style-type: none"><li>• Secondary field during Ph.D. study</li></ul>	
<b>University of California, Berkeley</b> <i>Visiting Student, Integrative Biology</i>	Berkeley, CA 2017 – 2018
<b>Sun Yat-Sen University</b> <i>B.S., Life Science</i>	Guangzhou, China 2015 – 2019
<ul style="list-style-type: none"><li>• Thesis: Screening for the Interactome of hTERC based on Molecular Fluorescence Complementation System in Living Cells</li><li>• Yat-Sen Honor School Program (Top 0.5%)</li><li>• National college admissions exam (Top 0.6%)</li></ul>	

## Experience

<b>University of Washington</b> <b>Protein Design</b> <i>Visiting Scholar, David Baker’s Lab</i>	Seattle, WA 2025 – Present
<b>Stanford University</b> <b>Proteomics</b> <i>Visiting Scholar, Tony Wyss-Coray’s Lab</i>	Stanford, CA 2025 – Present
<b>Avinasi Labs</b> <b>Decentralized longevity data collection</b> <i>Co-founder</i>	San Francisco, CA 2025 – Present
<b>Harvard Medical School, Brigham and Women’s Hospital</b> <b>Biological Aging</b> <i>Graduate Researcher, Vadim Gladyshev’s Lab</i>	Boston, MA 2020 – Present
<b>Harvard Medical School, Boston Children’s Hospital</b> <b>RNA Modifications</b> <i>Graduate Researcher (Rotation), Eric Greer’s Lab</i>	Boston, MA 2020
<b>Harvard Medical School</b> <b>IPSC Reprogramming &amp; DNA methylation</b> <i>Graduate Researcher (Rotation), David Sinclair’s Lab</i>	Boston, MA 2019
<b>Harvard T. H. Chan School of Public Health</b> <b>mTORC1</b> <i>Graduate Researcher (Rotation), Brendan Manning’s Lab</i>	Boston, MA 2019
<b>Sun Yat-Sen University</b> <b>Telomere &amp; Telomerase</b> <i>Undergraduate Researcher, Zhou Songyang’s Lab</i>	Guangzhou, China 2018 – 2019

<b>University of Edinburgh</b> <b>Population genetics</b> <i>Undergraduate Researcher, Xia Shen's Lab</i>	Edinburgh, UK 2018
<b>University of Washington</b> <b>Acarbose &amp; Rapamycin</b> <i>Undergraduate Researcher, Matt Kaeberlein's Lab</i>	Seattle, WA 2018
<b>Buck Institute for Research on Aging</b> <b>Senolytics</b> <i>Undergraduate Researcher, Judith Campisi's Lab</i>	Novato, CA 2018
<b>University of California, Berkeley</b> <b>SIRT7</b> <i>Undergraduate Researcher, Danica Chen's Lab</i>	Berkeley, CA 2017
<b>Sun Yat-Sen University</b> <b>Telomere &amp; DNA Methylation</b> <i>Undergraduate Researcher, Yikang Rong's Lab</i>	Guangzhou, China 2015 – 2017

## Grants

**Using causal aging biomarkers and protein design to develop novel anti-aging interventions** NIH/NIA F99/Koo, *Transition to Aging Research for Predoctoral Students* 2024 – 2028

- Award Document Number: FAGO88431A (PI)
- Received a *perfect* Impact Score of **10**

## Publications

<sup>†</sup> Corresponding author; \* Co-first author; <sup>+</sup> Contributed as consortium author

Gladyshev, V. N., Anderson, B., Barlit, H., ..., **Ying, K.**, Yunes, J., Zhang, B., & Zhavoronkov, A. (2024). Disagreement on foundational principles of biological aging. **PNAS Nexus**, 3(12), pgae499. <https://doi.org/10.1093/pnasnexus/pgae499>

Goeminne, L. J. E., Vladimirova, A., Eames, A., Tyshkovskiy, A., Argentieri, M. A., **Ying, K.**, Moqri, M., & Gladyshev, V. N. (2024). Plasma protein-based organ-specific aging and mortality models unveil diseases as accelerated aging of organismal systems. **Cell Metabolism**, <https://doi.org/10.1016/j.cmet.2024.03.007>

**Ying, K.**<sup>†</sup> (2024). Causal inference for epigenetic ageing. **Nature Reviews Genetics**, 1–1. <https://doi.org/10.1038/s41576-024-00799-7>

**Ying, K.**, Castro, J. P., Shindyapina, A. V., Tyshkovskiy, A., Moqri, M., Goeminne, L. J. E., Milman, S., Zhang, Z. D., Barzilai, N., & Gladyshev, V. N. (2024). Depletion of loss-of-function germline mutations in centenarians reveals longevity genes. **Nature Communications**, 15(1), 5956. <https://doi.org/10.1038/s41467-024-50098-2>

Lyu, YX.<sup>\*</sup>, Fu, Q.<sup>\*</sup>, Wilczok, D.<sup>\*</sup>, **Ying, K.**<sup>\*</sup>, King, A., ..., Bakula, D. (2024). Longevity biotechnology: Bridging AI, biomarkers, geroscience and clinical applications for healthy longevity. **Aging**, 16(1), 1–25. <https://doi.org/10.18632/aging.205397>

**Biomarkers of Aging Consortium**<sup>+</sup>, Herzog, C. M. S., Goeminne, L. J. E., 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, A., Fortney, K., Furman, D., Gorbunova, V., Higgins-Chen, A., Hood, L., Horvath, S., ... Gladyshev, V. N. (2024). Challenges and recommendations for the translation of biomarkers of aging. **Nature Aging**, 1–12. <https://doi.org/10.1038/s43587-024-00683-3>

Castro, J. P., Shindyapina, A. V., Barbieri, A., **Ying, K.**, Strelkova, O. S., Paulo, J. A., Tyshkovskiy, A., Meinl, R., Kerepesi, C., Petrashen, A. P., Mariotti, M., Meer, M. V., Hu, Y., Karamyshev, A., Losyev, G., Galhardo,

M., Logarinho, E., Indzhukulian, A. A., Gygi, S. P., Sedivy, J. M., Manis, J. P., & Gladyshev, V. N. (2024). Age-associated clonal B cells drive B cell lymphoma in mice. **Nature Aging**, 4(8), 1–15. <https://doi.org/10.1038/s43587-024-00671-7>

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, W., Smith, A., Mackall, C., Gladyshev, V. N., Horvath, S., Snyder, M. P., & Sebastiano, V. (2024). PRC2-AgeIndex as a universal biomarker of aging and rejuvenation. **Nature Communications**, 15(1), 5956. <https://doi.org/10.1038/s41467-024-50098-2>

Tarkhov, A. E., Lindstrom-Vautrin, T., Zhang, S., **Ying, K.**, Moqri, M., Zhang, B., Tyshkovskiy, A., Levy, O., & Gladyshev, V. N. (2024). Nature of epigenetic aging from a single-cell perspective. **Nature Aging**, 1–17. <https://doi.org/10.1038/s43587-023-00555-2>

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, M., Fortney, K., Fedichev, P. O., Zhavoronkov, A., Barzilai, N., Lasky-Su, J., Kiel, D. P., ... Ferrucci, L. (2024). Validation of biomarkers of aging. **Nature Medicine**, 1–13. <https://doi.org/10.1038/s41591-023-02784-9>

Griffin, P. T., Kane, A. E., Trapp, A., Li, J., Arnold, M., Poganik, J. R., Conway, R. J., McNamara, M. S., Meer, M. V., Hoffman, N., Amorim, J. A., Tian, X., MacArthur, M. R., Mitchell, S. J., Mueller, A. L., Carmody, C., Vera, D. L., Kerepesi, C., **Ying, K.**, ... Sinclair, D. A. (2024). TIME-seq reduces time and cost of DNA methylation measurement for epigenetic clock construction. **Nature Aging**, 1–14. <https://doi.org/10.1038/s43587-023-00555-2>

**Ying, K.**, Liu, H., Tarkhov, A. E., Sadler, M. C., Lu, A. T., Moqri, M., Horvath, S., Kutalik, Z., Shen, X., & Gladyshev, V. N. (2024). Causality-enriched epigenetic age uncouples damage and adaptation. **Nature Aging (Featured on the February Cover)**, 1–16. <https://doi.org/10.1038/s43587-023-00557-0>

Moqri, M., Herzog, C., Poganik, J. R., **Biomarkers of Aging Consortium<sup>+</sup>**, Justice, J., Belsky, D. W., Higgins-Chen, A., Moskalev, A., Fuellen, G., Cohen, A. A., Bautmans, I., Widschwendter, M., Ding, J., Fleming, A., Mannick, J., Han, J.-D. J., Zhavoronkov, A., Barzilai, N., Kaeblerlein, M., ... Gladyshev, V. N. (2023). Biomarkers of aging for the identification and evaluation of longevity interventions. **Cell**, 186(18), 3758–3775. <https://doi.org/10.1016/j.cell.2023.08.003>

Lieberman, N., Rothi, M. H., Gerashchenko, M. V., Zorbas, C., Boulias, K., MacWhinnie, F. G., **Ying, A. K.**, Flood Taylor, A., Al Haddad, J., Shibuya, H., Roach, L., Dong, A., Dellacona, S., Lafontaine, D. L. J., Gladyshev, V. N., & Greer, E. L. (2023). 18S rRNA methyltransferases DIMT1 and BUD23 drive intergenerational hormesis. **Molecular Cell**, 83(18), 3268–3282.e7. <https://doi.org/10.1016/j.molcel.2023.08.014>

Bitto, A., Grillo, A. S., Ito, T. K., Stanaway, I. B., Nguyen, B. M. G., **Ying, K.**, Tung, H., Smith, K., Tran, N., Velikanje, G., Urfer, S. R., Snyder, J. M., Barton, J., Sharma, A., Kayser, E.-B., Wang, L., Smith, D. L., Thompson, J. W., DuBois, L., ... Kaeblerlein, M. (2023). Acarbose suppresses symptoms of mitochondrial disease in a mouse model of Leigh syndrome. **Nature Metabolism**, 5(6), 955–967. <https://doi.org/10.1038/s42255-023-00815-w>

Emmrich, S., Trapp, A., Tolibzoda Zakusilo, F., Straight, M. E., **Ying, A. K.**, Tyshkovskiy, A., Mariotti, M., Gray, S., Zhang, Z., Drage, M. G., Takasugi, M., Klusmann, J.-H., Gladyshev, V. N., Seluanov, A., & Gorbunova, V. (2022). Characterization of naked mole-rat hematopoiesis reveals unique stem and progenitor cell patterns and neotenic traits. **The EMBO Journal**, 41(15), e109694. <https://doi.org/10.15252/emboj.2021109694>

Yang, Z., Macdonald-Dunlop, E., Chen, J., Zhai, R., Li, T., Richmond, A., Klarić, L., Pirastu, N., Ning, Z., Zheng, C., Wang, Y., Huang, T., He, Y., Guo, H., **Ying, K.**, Gustafsson, S., Prins, B., Ramisch, A., Dermitzakis, E. T., ... Shen, X. (2022). Genetic Landscape of the ACE2 Coronavirus Receptor. **Circulation**, 145(18), 1398–1411. <https://doi.org/10.1161/CIRCULATIONAHA.121.057888>

**Ying, K.**, Zhai, R., Pyrkov, T. V., Shindyapina, A. V., Mariotti, M., Fedichev, P. O., Shen, X., & Gladyshev, V. N. (2021). Genetic and phenotypic analysis of the causal relationship between aging and COVID-19. **Communications Medicine**, 1(1), 35. <https://doi.org/10.1038/s43856-021-00033-z>

Li, T., Ning, Z., Yang, Z., Zhai, R., Zheng, C., Xu, W., Wang, Y., **Ying, K.**, Chen, Y., & Shen, X. (2021). Total genetic contribution assessment across the human genome. **Nature Communications**, 12(1), 2845. <https://doi.org/10.1038/s41467-021-23124-w>

Zhu, J., Xu, M., Liu, Y., Zhuang, L., **Ying, K.**, Liu, F., Liu, D., Ma, W., & Songyang, Z. (2019). Phosphorylation of PLIN3 by AMPK promotes dispersion of lipid droplets during starvation. **Protein & Cell**, 10(5), 382–387. <https://doi.org/10.1007/s13238-018-0593-9>

## Preprints

**Ying, K.**<sup>†</sup>, Song, J., Cui, H., Zhang, Y., Li, S., Chen, X., Liu, H., Eames, A., McCartney, D. L., Marioni, R. E., Poganik, J. R., Moqri, M., Wang, B., & Gladyshev, V. N. (2024). MethylGPT: a foundation model for the DNA methylome. **bioRxiv**. <https://doi.org/10.1101/2024.10.30.621013>

**Ying, K.**, Paulson, S., Reinhard, J., Camillo, L. P. L., Trauble, J., Jokiel, S., Biomarkers of Aging Consortium, Gobel, D., Herzog, C., Poganik, J. R., Moqri, M., & Gladyshev, V. N. (2024). An Open Competition for Biomarkers of Aging. **bioRxiv**. <https://doi.org/10.1101/2024.10.29.620782>

**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). High-dimensional Ageome Representations of Biological Aging across Functional Modules. **bioRxiv**. <https://doi.org/10.1101/2024.09.21.570935>

Galkin, F., Naumov, V., Pushkov, S., Sidorenko, D., Urban, A., Zagirova, D., Alawi, K. M., Aliper, A., Gumerov, R., Kalashnikov, A., Mukba, S., Pogorelskaya, A., Ren, F., Shneyderman, A., Tang, Q., Xiao, D., Tyshkovskiy, A., **Ying, K.**, Gladyshev, V. N., & Zhavoronkov, A. (2024). Precious3GPT: Multimodal Multi-Species Multi-Omics Multi-Tissue Transformer for Aging Research and Drug Discovery. **bioRxiv**. <https://doi.org/10.1101/2024.07.25.605062>

**Ying, K.**, Paulson, S., Eames, A., Tyshkovskiy, A., Li, S., Perez-Guevara, M., Emamifar, M., Martínez, M. C., Kwon, D., Kosheleva, A., Snyder, M. P., Gobel, D., Herzog, C., Poganik, J. R., Biomarker of Aging Consortium, Moqri, M., & Gladyshev, V. N. (2024). *A Unified Framework for Systematic Curation and Evaluation of Aging Biomarkers*. **bioRxiv**. <https://doi.org/10.1101/2023.12.02.569722>

Tyshkovskiy, A., Kholdina, D., **Ying, K.**, Davitadze, M., Molière, A., Tongu, Y., Kasahara, T., Kats, L. M., Vladimirova, A., Moldakozhayev, A., Liu, H., Zhang, B., Khasanova, U., Moqri, M., Van Raamsdonk, J. M., Harrison, D. E., Strong, R., Abe, T., Dmitriev, S. E., & Gladyshev, V. N. (2024). Transcriptomic Hallmarks of Mortality Reveal Universal and Specific Mechanisms of Aging, Chronic Disease, and Rejuvenation. **bioRxiv**. <https://doi.org/10.1101/2024.07.04.601982>

Rothi, M. H., Sarkar, G. C., Al Haddad, J., Mitchell, W., **Ying, K.**, Pohl, N., Sotomayor-Mena, R. G., Natale, J., Dellacono, S., Gladyshev, V. N., & Greer, E. L. (2024). The 18S rRNA Methyltransferase DIMT-1 Regulates Lifespan in the Germline Later in Life. **bioRxiv**. <https://doi.org/10.1101/2024.05.15.570935>

Moqri, M., Poganik, J. R., Herzog, C., **Ying, K.**, Chen, Q., Emamifar, M., Tyshkovskiy, A., Eames, A. W., Mur, J., Matei-Dediu, B., Goeminne, L., Mitchell, W., McCartney, D. L., Marioni, R. L., Lasky-Su, J. A., Snyder, M., & Gladyshev, V. N. (2024). Integrative epigenetics and transcriptomics identify aging genes in human blood. **bioRxiv**. <https://doi.org/10.1101/2024.05.30.596713>

**Ying, K.**, Tyshkovskiy, A., Trapp, A., Liu, H., Moqri, M., Kerepesi, C., & Gladyshev, V. N. (2023). *ClockBase : A comprehensive platform for biological age profiling in human and mouse*. **bioRxiv**. <https://doi.org/10.1101/2023.02.28.530532>

Zhang, B., Tarkhov, A. E., Ratzan, W., **Ying, K.**, Moqri, M., Poganik, J. R., Barre, B., Trapp, A., Zoller, J. A., Haghani, A., Horvath, S., Peshkin, L., & Gladyshev, V. N. (2022). *Epigenetic profiling and incidence of disrupted development point to gastrulation as aging ground zero in Xenopus laevis*. **bioRxiv**. <https://doi.org/10.1101/2022.08.02.502559>

Castro, J. P., Shindyapina, A. V., Barbieri, A., **Ying, K.**, Strelkova, O. S., Paulo, J. A., Tyshkovskiy, A., Meinl, R., Kerepesi, C., Petrashen, A. P., Mariotti, M., Meer, M., Hu, Y., Karamyshev, A., Losyev, G., Indzhikulian, A. A., Gygi, S. P., Sedivy, J. M., Manis, J. P., & Gladyshev, V. N. (2021). *Integrative analyses uncover mechanisms by which aging drives B cell lymphoma*. **bioRxiv**. <https://doi.org/10.1101/2021.02.23.432500>

## Patents

V. N. Gladyshev, **K. Ying**, “High-dimensional measurement of biological age” (2024). *Provisional Patent Application*

V. N. Gladyshev, **K. Ying**, “Mapping CpG sites to quantify aging traits” (2024). *WO2024039905A2*

## Software and Database

**Biolearn** (2024) <https://bio-learn.github.io/>

**ClockBase** (2023) <https://www.clockbase.org/>

## Presentations

### ORAL PRESENTATIONS

**Keystone Symposia: Aging: New Frontiers in Rejuvenation and Gerotherapeutics** Breckenridge, CO  
*MethylGPT: A Foundation Model for the DNA Methylome* 2025

**Biomarkers of Aging Symposium** Boston, MA  
*Standardization of aging biomarkers and BoA challenge* 2024

**Harvard GRIP Presentations** Boston, MA  
*Causal Aging Biomarker empowers Unbiased Anti-Aging Therapy Screening* 2024

**4th TimePie Longevity Forum** Shanghai, China  
*Causal Aging Biomarker as a Tool for Unbiased Anti-Aging Therapy Screening* 2023

**Global Congress on Aesthetic and Anti-Aging (GCAA2023)** Singapore  
*Causal Aging Biomarker as a Tool for Unbiased Anti-Aging Therapy Screening* 2023

**10th Aging Research and Drug Discovery conference (ARDD2023)** Copenhagen, Denmark  
*Causal Epigenetic Age Uncouples Damage and Adaptation* 2023

**AGE 2023 51st Annual Meeting** Oklahoma City, OK  
*Causal Epigenetic Age Uncouples Damage and Adaptation* 2023

**Broad Institute MPG Retreat** Cambridge, MA  
*Causal Epigenetic Age Uncouples Damage and Adaptation* 2023

<b>Harvard GRIP Presentations</b> <i>Causal Epigenetic Age Uncouples Damage and Adaptation</i>	Boston, MA 2022
<b>Targeting Metabesity 2022</b> , ‘Honorable Mention’ <i>Causal Epigenetic Age Uncouples Damage and Adaptation</i>	Virtual Conference 2022
<b>GSA 2021 Annual Scientific Meeting</b> <i>Genetic and phenotypic evidence for causal relationships between aging and COVID-19</i>	Virtual Conference 2021
INVITED TALKS	
<b>St. Jude Children’s Research Hospital</b> , hosted by Dr. Zhaoming Wang <i>MethylGPT and Causality-enriched Epigenetic Clock</i>	Memphis, TN 2025
<b>The Alliance for Longevity Initiatives Scientist Spotlight</b> , <i>Episode 14: Albert Ying</i>	Online Podcast 2024
<b>BioAge Seminar</b> , hosted by Dr. Robert Hughes & Dr. Paul Timmers <i>Ageome: Biological age with higher-dimensionality</i>	Boston, MA 2024
<b>MRC Integrative Epidemiology Unit Seminar</b> <i>Epigenetic Clocks and Mendelian Randomization</i>	Bristol, UK 2024
<b>NIA EL Projects Joint Meeting</b> , National Institute on Aging <i>Aging Clocks</i>	Online Webinar 2024
<b>Biomarkers of Aging Challenge</b> , Foresight Institute <i>Update Webinar with Foresight</i>	Online Webinar 2024
<b>Everything Epigenetics</b> , podcast hosted by Hannah Went <i>Causal Epigenetic Age Uncouples Damage and Adaptation</i>	Online Podcast 2024
<b>Chinese University of Hong Kong</b> , hosted by Dr. Xin Wang <i>Causal Aging Biomarker as a Tool for Systemic Anti-Aging Therapy Screening</i>	Hong Kong, China 2024
<b>Everything Epigenetics</b> , podcast hosted by Hannah Went <i>Causal Epigenetic Age Uncouples Damage and Adaptation</i>	Online Podcast 2023
<b>Chinese University of Hong Kong</b> , hosted by Dr. Xin Wang <i>Causal Aging Biomarker as a Tool for Systemic Anti-Aging Therapy Screening</i>	Hong Kong, China 2023
<b>Peking University</b> , hosted by Dr. Jingdong Han <i>Causal Aging Biomarker and ClockBase</i>	Beijing, China 2023
<b>Chinese Academy of Sciences</b> , hosted by Dr. Xuming Zhou <i>Causal Epigenetic Age Uncouples Damage and Adaptation</i>	Beijing, China 2022
<b>Foresight Institute</b> , hosted by Allison Duettmann <i>Genetic Variation, Aging &amp; Relationship to COVID-19   Joris Deelen, Albert Ying</i>	Online Seminar 2020

## Honors

<b>Semifinalist</b> , Harvard President’s Innovation Challenge, Health Care and Life Sciences Track	2025
<b>Best Poster Award</b> , Inaugural Biomarker of Aging Symposium	2023

<b>Best Poster Award</b> , Gordon Research Conference, Systems Aging	2022
<b>Hackathon Winner</b> , Longevity Hackathon, VitaDAO	2021
<b>Yan-Sen Honor School Program</b> , Sun Yat-Sen University	2016 – 2019
<b>Yan-Sen Scholarship</b> , Sun Yat-Sen University	2016 – 2019

## Professional Experience

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### SERVICE & LEADERSHIP

<b>President</b> , Harvard Interdisciplinary Discussion on Disease and Health	2024 – Present
<b>Organizer</b> , Biomarker of Aging Challenge	2024 – Present
<b>Organizing Committee Member</b> , Biomarker of Aging Symposium 2024	2024
<b>Organizing Committee Member</b> , Biomarker of Aging Symposium 2023	2023

### TEACHING & MENTORING

<b>Mentor</b> , Yuanpei Young Scholars Program	2023 – 2024
<b>Instructor</b> , Harvard Public Health Symposium For Young Generation	2023

### STUDENTS SUPERVISED

**Predoctoral Students:** Ali Doga Yucel, Siyuan Li, Hanna Liu, Donghyun Lee

### JOURNALS REVIEWED

*Nature Aging, Nature Communications, BMC Nephrology, Lipids in Health and Disease, Clinical Proteomics, Evidence-Based Complementary and Alternative Medicine, Scientific Report*

## References

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<b>Dr. Vadim Gladyshev</b> , Dissertation Advisor Professor of Medicine, Harvard Medical School	vgladyshev@bwh.harvard.edu
<b>Dr. Steve Horvath</b> , Collaborator Professor of Human Genetics, UCLA	shorvath@mednet.ucla.edu
<b>Dr. David Sinclair</b> , Dissertation Advisory Committee Professor of Genetics, Harvard Medical School	david_sinclair@hms.harvard.edu
<b>Dr. Matt Kaeberlein</b> , Advisor Professor of Pathology, University of Washington	kaeber@uw.edu