

## CURRICULUM VITAE

**WILLIAM B. MAIR**

(2.9.26)

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Place of Birth: Suffolk, United Kingdom  
Citizenship: UK & United States

### **EDUCATION**

1997-2000	University College London, UK	B.Sc.	Genetics 1 <sup>st</sup> class Honors
2001-2005	University College London, UK. (Advisor: Professor Dame Linda Partridge)	Ph.D.	Biology

### **POSTGRADUATE TRAINING:**

2006-2011	Postdoctoral Fellow (Advisor Dr. Andrew Dillin)	The Salk Institute for Biological Studies	Molecular Genetics of Aging
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### **ACADEMIC APPOINTMENTS:**

2011-2017	Assistant Professor	Department of Molecular Metabolism	Harvard School of Public Health
2017-2024	Associate Professor	Department of Molecular Metabolism	Harvard School of Public Health
2019-present	Affiliate Faculty	Department of Stem Cell And Regenerative Biology	HMS
2024	Professor	Department of Molecular Metabolism	Harvard School of Public Health
2024	Director	Harvard TH Chan School of Public Health, Healthy Aging Initiative	

**HONORS AND AWARDS:**

- 2001 Biotechnology and Biological Sciences Research Council 3-year grant for Ph.D. in Biology
- 2006 Pioneer Endowment Fund Postdoctoral Fellowship.
- 2007 George E. Hewitt Foundation for Medical Research Postdoctoral Fellowship.
- 2010 Glenn Center for Aging Research Postdoctoral Fellowship.
- 2010 American Federation for Aging Research/ Ellison Postdoctoral Fellowship.
- 2012 **Ellison Medical Foundation New Scholar in Aging Research Award.**
- 2012 NIA 20<sup>th</sup> Annual Summer Training Course in Experimental Aging Research
- 2013 William F. Milton Fund Award.
- 2014 Helmholtz Young Investigator Diabetes Award (HeIDi Award) nomination.
- 2015 **Glenn Foundation for Medical Research, Glenn Award.**
- 2017 **American Federation for Aging Research. Breakthrough in Gerontology (BIG) Award.**
- 2019 Armen H. Tashjian Jr. Award for Excellence in Endocrine Research.
- 2025 Elected as member of the Academy for Health and Lifespan Research**

**PATENTS AND INVENTIONS**

Pending:

US20210071257 - COMPOSITIONS AND METHODS FOR MAINTAINING SPLICING FIDELITY.

**PROFESSIONAL ACTIVITY**Organization of National and International Meetings and Workshops

- 2022 Cold Spring Harbor Laboratory, Molecular Genetics of Aging Conference. Organizer. 2022, 2024 and 2026 meetings.**
- 2016 Aging, Stress, Pathogenesis, Small RNAs and Metabolism. International *C. elegans* Topic Meeting. Madison.

MBL Woods Hole Biology of Aging Course

Co-founding director (with Dr. Jennifer Garrison, Buck Institute/UCSF) of a new annual 4-week Marine Biology Laboratory summer research course on the biology of aging, started in 2023. This prestigious course is a world leading training opportunity for new members of the Geroscience community.

Invited Participation at Local, National, and International Meetings, Symposia, and Workshops

- 2004 Molecular Genetics of Aging. Cold Spring Harbor Laboratory.
- 2010 New Insights into Healthspan and Diseases of Aging, Keystone, Tahoe, CA. PTEN Pathways & Targets. Cold Spring Harbor Laboratory. Molecular Genetics of Aging. Cold Spring Harbor Laboratory.

- Glenn Center for Aging Research symposium, San Diego, CA.
- 2011 18th International *C. elegans* meeting, metabolism workshop. UCLA.  
**18th International *C. elegans* meeting. UCLA.**  
 Boston Area Worm Meeting  
 Longwood Worm Meeting
- 2012 Office of External Relations, Harvard SPH  
 Harvard Medical School Genetic Department Retreat – Invited panel speaker ‘Aging – truth and controversy’  
 HSPH Genetics and Complex Diseases Retreat.  
***C. elegans* Aging, Metabolism, Pathogenesis, Stress, and Small RNAs Meeting, Session Chair/ Poster Competition Judge**  
 FinBioNet Meeting, Tampere, Finland. ‘Revolutionary Bioscience’.  
**Cold Spring Harbor Laboratory Molecular Genetics of Aging Meeting. Keystone Aging Meeting, Tokyo.**
- 2013 International *C. elegans* Meeting, UCLA, Metabolism and Physiology Session Chair.  
**Gordon Research Conference on Aging, Italy, Invited Talk.**  
**CSHL Asia Genetics of Aging Conference, China.**  
 JBL Symposium Session Chair  
 HSPH Postdoc Job Talk Workshop Panel Speaker  
**Gerontology Society of America Meeting, New Orleans.**
- 2014 **Keystone Aging Meeting. Invited Talk, Steamboat Springs Colorado.**  
 HSPH Forum, Expert Panelist, ‘Living Longer and Happier Lives’.  
**Cold Spring Harbor Pten Meeting. Cold Spring Harbor. NY.**  
 NIA/Frontiers in Aging and Regeneration Research Course, Atlanta.  
 NIA New Investigators Forum, Bethesda  
***C. elegans* Aging, Metabolism, Pathogenesis, Stress, and Small RNAs, Madison.**  
 Hiroshima Research Center for Healthy Ageing (HiHA)  
**Annual Helmholtz-Nature Medicine Diabetes conference, Berlin**
- 2015 Harvard T. H. Chan School of Public Health Faculty Lunch Series.  
**Frontiers in Interventions in Aging Conference, Cancun, Mexico.**  
 Institute of Neurobiology, UNAM, Querétaro, Mexico  
 Molecular and Computational Biology Section, USC.  
**The role of metabolism in aging and ageing-related disease. La Fondation des Treilles. France**  
**Molecular Basis of Aging and Disease, Cold Spring Harbor Asia, Suzhou, China, Invited Talk & Session Chair.**  
 Xiamen University, China [Declined]  
 Harvard TH Chan School of Public Health Leadership Council Summit  
 Barshop Symposium on Aging, San Antonio [Declined]  
 Harvard TH Chan School of Public Health, JBL Symposium [Declined]  
 Annual Symposium of the Jersey Medical Society, Island of Jersey
- 2016 Glenn Foundation Symposium, Harvard Medical School.  
 MDI Biological Laboratory, Comparative and Experimental Approaches to Aging Biology Research

- C. elegans* Aging Meeting, Madison (co-organizer).**  
 HSPH Summer Interns Program.  
 Workshop on Mitochondrial Dynamics, Mitophagy and Aging, NIA, Bethesda.
- Pten Meeting, Cold Spring Harbor, NY.**  
**Mechanisms of Aging conference, Session Chair & Speaker. Cold Spring Harbor, NY.**  
 4th Biennial International Symposium on Aging Macular Degeneration
- 2017 **Mitochondrial Communication, Keystone Symposium. New Mexico**  
**Understanding mechanisms and the promise of extending human healthspan, Mexico.**  
**Marabou Symposium on “Nutrition and Human Evolution,” Stockholm.**  
**Gordon Conference on Biology of Aging in Les Diablerets, Switzerland.**
- 2018 **Pushing the Limits of Healthspan and Longevity, Keystone Symposium. Hannover, Germany.**  
 Frontiers in Alzheimer’s and Aging Research Program. New Orleans, LA.  
 MyAgeGroup Meeting, Austin, USA. Founding Member and Inaugural Chair.  
 Stress, Pathogenesis Aging, Small RNAs and Metabolism Meeting. University of Wisconsin, Madison. [declined]  
 Improving Resiliency to Delay Aging. Philadelphia, PA. [declined]  
 Frontiers in Mitochondrial Biology: From Basic Biology to Mechanisms of Disease, Harvard Medical School, Boston, MA.  
**AMPK: from mechanisms to new therapies. Niagara on the Lake, Canada.**  
**Nutrient Signaling meeting. Cold Spring Harbor, NY.**
- 2019 **Interventions in Aging conference. Nassau, Bahamas.**  
**Fusion Mitochondria Conference. Nassau, Bahamas.**  
 MyAgeGroup Meeting, Birmingham, USA.  
 AGE Meeting. San Francisco, CA. [declined]  
**Nature Metabolism Meeting, Advances in Metabolic Communication. Rio de Janeiro, Brazil.**  
 A cure for age-related diseases: immunology beyond cancer. Barcelona BioMed Conference. Barcelona, Spain. [declined]  
 Max Planck Institute for Biology of Ageing Symposium. Cologne, Germany.
- 2020 **Keystone Mechanisms of Aging Conference. Vancouver, Canada.**  
**Aging Science Talks, Online Seminar Series**  
 MyAgeGroup Meeting. San Francisco, USA. [cancelled, COVID-19]  
**CNIO Frontiers Meeting. Madrid, Spain. [cancelled, COVID-19]**  
 AFAR Grantee Conference. Santa Barbara, USA. [postponed, COVID-19]  
**Metabolism, Aging, Pathogenesis, and Stress in *C. elegans* Meeting. University of Wisconsin, Madison. [cancelled, COVID-19]**  
**Mechanisms of Aging Conference. Cold Spring Harbor, NY. Session Chair/Speaker**
- 2021 MitoTalks, Online Seminar Series  
**AFAR Annual Symposium, Main Speaker (Winner of 2017 BIG award).**
- 2022 **CNIO Frontiers Meeting. Madrid, Spain.**  
**Fusion 2<sup>nd</sup> Metabolism in Health and Disease Conference, Cancun Mexico**

**Metabolism, Aging, Pathogenesis and Stress *C. elegans* meeting, Wisconsin.  
CSHL Biology of Aging Meeting, Co-organizer.**

- 2023 MyAgeGroup Meeting. London, USA.  
Glenn Medical Foundation Symposium, Harvard, Boston, MA.  
NIA Workshop RNA Metabolism  
Max Planck Institute for Aging, Special Symposium. Cologne.
- 2024 Invited Speaker, Metabolism, Aging, Pathogenesis, Stress and Small RNAs in *C. elegans*.  
Madison.  
**University College London Health Aging Institute 20-year Anniversary Symposium  
Keynote Speaker.**
- 2025 Fusion Interventions Aging Meeting, Malta. Organizer
- 2026 CSHL Aging Meeting, Organizer  
ASMB Conference, DC.

Invited Lectures/Seminars

- 2012 Boston Aging Data Club, HMS.  
Harvard SPH Nutrition Department Seminar Series.
- 2013 University of Tampere, Mitochondria Research Center, Dept. Seminar  
Brown University, Invited Seminar Speaker. Biology of Aging Seminar Series.
- 2014 Beth Israel Deaconess Medical Center Division of Endocrinology. Endocrine Grand  
Rounds Seminar.  
Integrated Studies Program (ISP) Seminar series, Tufts Sackler School of Biomedical  
Sciences.  
NIA Course on Aging Biology for URM students, Atlanta  
Max Planck Institute of Ageing Research, Invited Seminar Speaker, Cologne
- 2015 Harvard T. H. Chan School of Public Health Faculty Lunch Series.  
Aging Seminar Series, Baylor School of Medicine.  
NIA Course on Aging Biology for URM students, Woods Hole.
- 2016 Aging seminar series, Northeastern University  
Frontiers in Aging seminar series, Stanford University  
Harvard, Molecular Integrated Physiology Seminar Series  
Glenn Center for Aging Biology Symposium  
Mount Desert Island Laboratory, Seminar Series.  
Boston HUBWEEK Aging Research Panel  
Aging and Macular Degeneration, Mass Eye & Ear  
Albert Einstein College of Medicine  
Barshop Institute, San Antonio
- 2017 The Buck Institute for Research on Aging. CA.  
HSPH Alumni Event. Reimagining our Future: Public Health Perspectives  
on Aging and Longevity  
Joslin Diabetes Center, Symposium Series.  
AbbVie, Center for Alzheimer's Research

- Harvard TH Chan School for Public Health Alumni Event
- 2018 University of Wisconsin, Madison, Institute on Aging Seminar Series.  
University of Washington, Seattle, Nathan Shock Center for Aging Research Seminar Series.  
Harvard Stem Cell and Rejuvenation Biology Seminar Series  
NIA Course on Aging Biology for URM students, New Orleans.  
HMS Postdoctoral Association Academic Job Application Panelist  
Washington University School of Medicine, Developmental Biology Seminar Series  
Harvard, Longwood Area Worm Meeting
- 2019 Sanford Burnham Prebys Medical Discovery Institute, Aging and Regeneration Program Seminar Series.
- 2020 Brown University, Invited Seminar Speaker. MCB Seminar Series.  
University of Minnesota, Invited Seminar Speaker. Institute on the Biology of Aging and Metabolism Seminar Series. [cancelled, COVID-19]  
Institut Pasteur, Paris, France. Invited Seminar Speaker. Department of Cell Biology and Infection Seminar Series. [remote]
- 2021 Naples Harvard, Princeton & Yale Alumni Club (Remote)  
Harvard Metabolism Chalk Talk Series  
Metabolic Disorders and Complications (MeDiC) Program at the Research Institute of the McGill University Health Centre (RI-MUHC) in Montreal. Keynote Speaker
- 2022 Ohio State University, Davis Heart and Lung Research Institute Seminar Series  
Medical College of Georgia at Augusta University, Neuroscience. Seminar Series  
MitOX, Pollard Lecture. Oxford University.  
DFCI seminar - "Metabolic flexibility, Homeodynamics and Healthy Aging"
- 2023 UMass Medical School, 'Metabolic Network' (Guertin Host).
- 2024 Yale Biology of Aging series  
MIT/ Whitehead Institute's Partnership for Science Education  
Boston University Medical School, Center for Genomics Research
- 2025 Columbia Institute of Human Nutrition seminar series  
U Miami Medical School, Deans Special Lecture.  
Dept Environmental Health, HSPH.
- 2026: U Michigan Aging Research Seminar Series  
U Mass Systems Biology  
Babraham Institute, UK.  
UCLA.

### Service to Journals

#### *Review Editor*

2011-2020     Frontiers in the Genetics of Aging

#### *Editorial Board*

Nutrition and Healthy Aging  
Nature Publishing Group Aging and Mechanisms of Disease.  
iScience, Cell Press – Resigned 2023

**PLoS Biology (Academic Editor)  
Geromedicine**

*Ad Hoc. Manuscript Reviewer for Scientific Journals*

2006-present Mechanisms of Aging and Development  
 2007-present Aging Cell  
 2008-present Biology Letters  
 2008-present Gerontology  
 2009-present Experimental Gerontology  
 2009-present PLoS ONE  
 2010-present Faculty of 1000 Biology Reports  
 2010-present Journal of the American Aging Association  
 2010-present Proceedings B  
 2011-present Journal of Cell Science  
**2011-present Cell Metabolism**  
 2011-present Frontiers in the Genetics of Aging  
 2012-present Development  
**2012-present Nature**  
 2012-present Biology Open  
 2012-present Longevity & Healthspan  
 2012-present PLoS Genetics  
 2012-present Methods in Biology  
 2013-present Journal of Gerontology  
 2013-present Diabetes  
 2013-present eLife  
**2013-present Cell**  
 2013-present Cell Reports  
 2014-present Science Translational Medicine  
**2014-present Science**  
 2015-present Cell Research  
 2015-present Current Biology  
 2015-present Nature Medicine,  
 2015-present PLoS Biology  
 2015-present PNAS  
 2016-present Aging Research Reviews  
 2017-present Scientific Reports  
**2018-present Nature Cell Biology**  
 2018-present Nature Communications  
**2018-present Nature Metabolism**  
 2019-present Science Advances  
**2020-present Nature Aging**  
**2024- present Molecular Cell**

Service to Granting Agencies

*NIH Review Panels and Service*

**2020-2024 NIH, Cellular Mechanisms of Aging and Development (CMAD) study section panel permanent member.**

NIH, Cellular Mechanisms of Aging and Development Study Section (2014, 2016, 2018)  
ad hoc

*Ad Hoc Grant Reviewer*

International

CERG, China, *ad hoc*

EKFS, Israel, *ad hoc*

Human Frontiers Science Program, *ad hoc*.

Biotechnology and Biological Sciences Research Council (BBSRC), UK

National (USA)

National Science Foundation, ad hoc, 2014-present

American Federation of Aging Research, 2017-present

Alzheimer's Association, 2013-present

American Federation of Aging Research, Breakthrough in Gerontology Award,  
2020-present

AFAR National Scientific Advisory Council (NSAC)

Glenn Foundation for Medical Research Breakthroughs in Gerontology (BIG)  
Awards Selection

NASA (Declined)

Local

Harvard School of Public Health Postdoc Association Travel Grants

Membership in Professional Organizations

2008-2011	National Association of Science Writers
2011-present	American Aging Association, Member
2013-present	Genetics Society of America, Member
2013-present	Gerontology Society of America, Member
<b>2020-present</b>	<b>AFAR National Scientific Advisory Council (NSAC)</b>
<b>2021-present</b>	<b>UCSF Bakar Aging Research Institute EAB, Board Member</b>
<b>2025-present</b>	<b>Member, Academy for Health and Lifespan Research</b>

**UNIVERSITY SERVICE**

*University Committees*

2011-present	BPH PhD Program Selection Committee
2011-present	BPH PhD Program Admissions Committee
<b>2015-2017</b>	<b>Faculty Council</b>
2015-present	BPH PhD Program Faculty Advisory Board
2017-present	Facilitation of Interdisciplinary Research Task Force
<b>2018-2021</b>	<b>Committee on Educational Policy</b>
2018-2020	Yerby Postdoctoral Fellowship Program for Under-Represented Minorities Advisory Board and Admissions Committee
2020-present	PQE Steering Committee
2020	HHMI Gilliam Fellowship Faculty Review Committee
<b>2021 – present</b>	<b>HSPH Committee for the Advancement of Women Faculty</b>

2022	Aramont Fund for Emerging Science Research Fellows, Review committee. Declined due to tenure process.
2025	Harvard Committee on Rights and Responsibilities (UCRR)

*Departmental Committees (Department of Molecular Metabolism, formerly Department of Genetics and Complex Diseases)*

2014	GCD Retreat Organizer
2015	GCD Equipment Committee
2018-2023	MET Seminar Series (faculty chair)
2018-2023	MET-a-Data Club (faculty chair)
2020-2024	MET Committee on Diversity and Inclusion

*Doctoral Defense Committees*

2012	Sihao Liu (laboratory of Chih-Hao Lee), Department of Genetics and Complex Diseases
2013	Khanichi Charles (laboratory of Gokhan Hotamisligil), Department of Genetics and Complex Diseases
2014	Natalie Moroz (laboratory of Keith Blackwell), HMS Department of Genetics
2016	Siming Ma (laboratory of Vadim Gladyshev), HMS Department of Genetics
2019	Andrea Andraski (laboratory of Frank Sacks), Department of Nutrition
2020	Kristine Werling (laboratory of Flaminia Catteruccia, Department of Immunology and Infectious Diseases)
2021	Meghan Torrence (laboratory of Brendan Manning), Department of Molecular Metabolism
2021	Joseph Beyene (laboratory of Quan Lu), Department of Environmental Health
2026	Kiwi Florido (Laboratory of Kris Sarosiek), Dept of Environmental Health

*Ph.D. Defense Advisory Committee*

2016	Joseph Beyene (laboratory of Quan Lu), Department of Environmental Health)
2016	Charlotte Kelley (laboratory of Erin Cram), Northeastern University
2017	Kayla Davis (laboratory of Thomas Schwartz), Kirby Neurobiology Center
2017	(Chair) Aditi Jatkar (laboratory of Robert Farese and Tobias Walther), Department of Genetics and Complex Diseases
2019	(Chair) Michael MacArthur (laboratory of James Mitchell), Department of Genetics and Complex Diseases
2019	Alexander Plesa (laboratory of George Church), HMS Department of Genetics)
2021	(Chair) Mary Heather Celine (Kiwi) Florido, BPH Program. Harvard Stem Cell and Regenerative Biology Dept. Rubin Lab.

*PQE Examiner*

2012	Jordan Gallinetti (laboratory of James Mitchell), Department of Genetics and Complex Diseases
2016	(Chair) Jamaji C. Nwanaji-Enwerem (laboratory of Zhi-Min Yuan), Department of Environmental Health
2017	Aditi Jatkar (laboratory of Robert Farese and Tobias Walther), Department of Genetics and Complex Diseases.
2018	(Chair) Sophie Evarts (laboratory of Brendan Manning), Department of Genetics and Complex Diseases
2019	(Chair) Joanna Krawczyk (laboratory of Sudha Biddinger), Boston Children's Hospital – Endocrinology.
2020	(Chair) Krystle Kalafut (laboratory of Brendan Manning, Department of Molecular Metabolism)
2020	Casey Lumpkin (Northeastern University)
2021	(Chair) Albert Ying, (laboratory of Vadim Gladyshev, Harvard Medical School)
2022	(Chair) Katlyn Gabriel, (laboratory of Ana Grekka, Harvard Medical School)
2022	(Chair) Ryan Prakash, (laboratory of Stirling Churchman, Harvard Medical School)
2023	(Chair) Nalat Siwapornchai, (laboratory of David Sinclair)

## TEACHING

### Course Director/Co-Director

#### Harvard T.H. Chan School of Public Health

2012-2018	Biological Sciences in Public Health 310qc “Molecular Mechanisms of Aging” (with Dr. James Mitchell)
<b>2020-present</b>	<b>Biological Sciences in Public Health 310qc/MET212 “Molecular Mechanisms of Aging”</b>

#### Invited Course Lecturer

2012-2017	Biological Sciences in Public Health 301 - Biological Sciences Seminars
2017-present	Nutrition 202, Dietary Restriction and Longevity Lecture, Instructor Dr. Frank Sacks
2017-present	SCRB190: Understanding Aging: Degeneration, Regeneration and the Scientific Search for the Fountain of Youth, Lectures: Evolutionary Theories of Aging, Lifespan Extension by Dietary Restriction. Instructor, Dr. Amy Wagers
2018	Biological Sciences in Public Health 301, “ <i>Science Communications</i> ”, Instructor for Science Communication to Lay Audiences Module.
2021- present	BPH205/MET250. Advanced Topics in Molecular Metabolism

## DIVERSITY, EQUITY, INCLUSION and BELONGING/MENTORING

Training

- 2019 Mentor Training for Biomedical Researchers, Center for the Improvement of Mentored Experiences in Research (CIMER)
- 2020 BSPH DIB Workshop
- 2020 Inclusive Graduate Education Network (IGEN) Equity in Graduate Admissions Workshop 1: HMS
- 2021 Minors Protection Training for Responsible Adults: Harvard Training Portal
- 2021 Culturally Aware Mentoring (CAM), The Advising Project. Harvard
- 2021 **Selected as one of 18 strong pioneering cohort of Harvard TH Chan Equity Diversity Inclusion and Belonging Facilitators. A two-year program to train members to facilitate programs and training around EDIB within the institute.**

Mentoring

- 2021-present Senior Mentor for Harvard Catalyst's 'Career Catalyst' Mentoring Program
- 2018-present My Age Group Peer Mentoring. Founder.**  
In 2018 I founded a peer mentoring group for 10 Assistant/Associate Professors working on various aspects of aging biology. This group, named 'My Age Group' is comprised of 50/50 men and women, with PIs from both the US and Europe. We meet annually (Covid permitting) for 3 days, to present scientific talks in a closed setting and give peer feedback on projects. We also discuss grant writing and various aspects of tenure track faculty career needs. Between meetings we have an active Slack Group where we offer professional and personal support to each other. Founding this group has been one of the most rewarding aspects of my career and has directly led to multiple collaborations, shared authorship, and shared grants between members.

Seminars/outreach

- 2020 Meet-the-Scientists Panel – Boston Public Library
- 2021 Research Scholar Initiative: Meet the Scientists  
Diversity & Minority Affairs - GSAS Harvard University

Committee's

- 2020- 2024 Founding member MET Diversity, Equity & Inclusion Committee
- 2021- 2024 Harvard TH Chan Committee for the Advancement of Women Faculty
- 2022-2024 HSPH Postdoc Advisory Committee

Student Related Activities

- 2015- 2020 NIA Course on Aging Biology for URM students
- 2020 Director BPH Summer Intern Program for URM students
- 2021- 2023 Steering committee for BPH Summer Intern Program

2020- present	Research Scholar Initiative, Meet the Professor
2022- present	Frontiers in Alzheimer's and Aging Research, NIA course for URM undergraduate students
2021- present	Mair Lab Virtual Lab Tours for Local High School Students in underserved locations

## TRAINING AND SUPERVISION

### Visiting Masters Student Scholars

2012	Tinatini Tavhelidse, MS Student (University of Heidelberg, Heidelberg, Germany)
2014	Caroline Escoubas, MD/PhD Student (University of Nice, Nice, France)
2016	Iris Lee (National Cheng-Kung University (NCKU), Taiwan)
2019	Dana Fleischhauer, MS Student (University of Heidelberg, Heidelberg, Germany)

### Postdoctoral Fellows

2012-2018	Kristopher Burkewitz – Now PI at Vanderbilt.
2013-2022	Caroline Heintz (Second half of stay as Research Associate/Lab Management)
2014-2017	Heather Weir
2015-present	Carlos Silva Garcia – Now Tenure Track PI at Brown
2016-2017	Ryann Guayasamin
2018	Roy Chowdhury
2018-2020	Porsha Howell
2018-present	Arpit Sharma
2019-2020	Malini Bhadra
2019-2023	Vanessa Laversenne
2021-present	Christopher Morrow
2021- present	Miriam Valera Alberni
2021- present	Aditi Prabhakar
2021-present	Laura Wester (From 2022, Co-mentored with Adam Antebi, Postdoc based at Max Planck Aging Institute, Cologne)_
2025 -present	Jamie Kraft

### Doctoral Students (Harvard School of Public Health, unless otherwise indicated)

2012-2018	Yue Zhang
2014-2018	Caroline Escoubas (University of Nice, Nice, France)
2016-2021	Sneha Dutta
2017-2022	Pallas Yao
2018-2024	Hannah Smith
2019-2025	Maria Perez Matos
2020-2023	Noel Jackson (HMS/BBS)
2021-2023	Samuel Lapp
2022-2023	Ewelina Nowak (Molecules, Cell and Organisms, FAS)

Postbac Students

2022	Lourdes Pajuelo
2024	Ana Gallegos Cruz

Doctoral Student Rotations (Harvard School of Public Health, unless otherwise indicated)

2012	Catherine Baranowski
2012	Yue Zhang – joined lab.
2014	Joseph Beyene
2014	Jim Valcourt (Systems Bio, Harvard Medical School)
2015	Ibrahim Kurt
2016	Zhouwei Zhang
2016	Sneha Dutta – joined lab.
2017	Anita Reddy (BBS, Harvard Medical School)
2017	Pallas Yao – joined lab.
2018	Alexander Plesa (BBS, Harvard Medical School)
2018	Hannah Smith – joined lab.
2019	Pallavi Joshi (BBS, Harvard Medical School)
2019	Maria Perez Matos – joined lab.
2020	Christopher Petty (BBS, Harvard Medical School)
2020	Luke Murphy (BBS, Harvard Medical School)
2020	Noel Jackson (BBS, Harvard Medical School) – joined lab.
2021	Samuel Lapp – joined lab.
2022	Ewelina Nowak, MCO Program FAS. Joined lab.
2022	Nancy Pohl

Undergraduate Students

2013	Elissa Lin, Harvard College
2013	Ana Paula Morales Allende, Bernard College
2014	Ashley Kim, UC Berkeley
2015	Staci Thornton, University of Connecticut
2015	Raymond Laboy Morales, Universidad Nacional Autónoma de México
2016	Kaitlyn Izzo, Northeastern University
2016	Juan Ramirez, Brandeis University
2016	Emina Tabakovic, University of Massachusetts
2016	Sydney Brumfield, Wellesley College
2016	Nicole Clark. FFrAR Scholar.
2021	Victoria Cottrell, Wellsley
2022	Catherin DeSousa
2024	Cailin Cronin.

Research Staff

2011-2015	Ianessa Morantte, Senior Scientist
2013	Robin Yao, Research Assistant

2015-present	Dr. Anne Lanjuin, Senior Scientist
2016-2018	Nicole Clark, Research Assistant
2017-2018	Emina Tabakovic, Research Assistant
2018-2019	Rohan Sehgal, Research Assistant
2019-2020	Peter Stine, Research Assistant
2020	Andrew Laroque, Research Assistant
2021-2025	Peter Stine, Research Assistant
2026-	Cailin Cronin

## BIBLIOGRAPHY:

6/9/2026: h index: 36, i10 index: 46, Citations: 12365 (Source Google Scholar)

ORCID: <https://orcid.org/0000-0002-0661-1342>

Google Scholar: <https://scholar.google.com/citations?user=Ben7hEIAAAAJ&hl=en>

## PRIMARY RESEARCH PAPERS

1. **Mair, W.**, Goymer, P., Pletcher, S. D., & Partridge, L. Demography of dietary restriction and death in *Drosophila*. **Science** **2003**; 301(5640), 1731–1733.
2. **Mair, W.**, Sgrò, C. M., Johnson, A. P., Chapman, T., & Partridge, L. Lifespan extension by dietary restriction in female *Drosophila melanogaster* is not caused by a reduction in vitellogenesis or ovarian activity. **Experimental Gerontology** **2004**; 39(7), 1011–1019.
3. Hulbert, A. J., Clancy, D. J., **Mair, W.**, Braeckman, B. P., Gems, D., & Partridge, L. Metabolic rate is not reduced by dietary-restriction or by lowered insulin/IGF-1 signalling and is not correlated with individual lifespan in *Drosophila melanogaster*. **Experimental Gerontology** **2004**; 39(8), 1137–1143.
4. **Mair, W.**, Piper, M. D. W., & Partridge, L. Calories do not explain extension of life span by dietary restriction in *Drosophila*. **PLoS Biology** **2005**; 3(7), e223.
5. Magwere, T., Goodall, S., Skepper, J., **Mair, W.**, Brand, M. D., & Partridge, L. The effect of dietary restriction on mitochondrial protein density and flight muscle mitochondrial morphology in *Drosophila*. **The Journals of Gerontology Series A, Biological Sciences and Medical Sciences** **2006**; 61(1), 36–47.
6. **Mair<sup>§</sup>, W.**, Panowski, S. H., Shaw, R. J., & Dillin<sup>§</sup>, A. Optimizing dietary restriction for genetic epistasis analysis and gene discovery in *C. elegans*. **PLoS One** **2009**; 4(2), e4535. <sup>§</sup> co-corresponding author
7. **Mair<sup>\*</sup>, W.**, McLeod<sup>\*</sup>, C. J., Wang, L., & Jones, D. L. Dietary restriction enhances germline stem cell maintenance.

**Aging Cell** 2010; 9(5), 916–918. \* Equal contribution.

8. Capelson, M., Liang, Y., Schulte, R., **Mair, W.**, Wagner, U., & Hetzer, M. W. Chromatin-bound nuclear pore components regulate gene expression in higher eukaryotes. **Cell** 2010; 140(3), 372–383.
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(Now published in **G3**)
2. Yue Zhang, Anne Lanjuin, Suvagata Roy Chowdhury, Meeta Mistry, Carlos G. Silva Garcia, Heather J. Weir, Chia-Lin Lee, Caroline C. Escoubas, Emina Tabakovic, **William B. Mair**. Neuronal TORC1 modulates longevity via AMPK and cell nonautonomous regulation of mitochondrial dynamics in *C. elegans*. **bioRxiv 2019**.  
  
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3. Yasmine Liu, Rebecca McIntyre, Georges Janssens, Evan Williams, Jiayi Lan, Henk van Veen, Nicole van der Wel, **William B Mair**, Ruedi Aebersold, Alyson MacInnes, and Riekelt Houtkooper. Mitochondrial translation and dynamics synergistically extend lifespan in *C. elegans* through HLH-30. **bioRxiv 2019**.  
  
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4. Kristopher Burkewitz, Sneha Dutta, Charlotte A Kelley, Michael Steinbaugh, Erin J Cram, and **William B Mair**. Atf-6 regulates lifespan through ER-mitochondrial calcium homeostasis. **bioRxiv 2020**.  
  
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5. Caroline C Escoubas, Vanessa Laversenne, Emina Tabakovic, Heather J Weir, Nicole Clark, **William B Mair**.

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9. Hannah J Smith, Anne Lanjuin, Arpit Sharma, Aditi Prabhakar, Emina Tabakovic, Rohan Sehgal, **William B Mair**.  
Neuronal mTORC1 inhibition promotes longevity without suppressing anabolic growth and reproduction in *C. elegans*. **bioRxiv 2021**.

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10. Katharina Papsdorf, Amir Hosseini, Jason Miklas, Matias Cabruja, Yong Yu, Luke Meraz Murphy, Carlos Silva-Garcia, Pallas Yao, Elisa de Launoit, **William B Mair**, Meng Wang, Michael Snyder, Anne Brunet.  
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12. Laura E. Wester, Anne Lanjuin, Emanuel H. W. Bruckisch, Maria C. Perez Matos, Caroline Heintz, Martin S. Denzel and **William B. Mair**  
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13. Carlos G Silva-Garcia, **William B Mair**  
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Ultra-sensitive coupling between organ growth and size by YAP-1 ensures uniform body plan proportions in *C. elegans*. **BioRxiv 2022.**

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15. Carlos G Silva-Garcia, Laura I Lascarez-Lagunas, Caroline Heintz, Katharina Papsdorf, Lourdes Pajuelo, Arpit Sharma, Monica P Colaiacovo, Anne Brunet, **William B Mair**  
CRTC-1 Balances Histone Trimethylation and Acetylation to Promote Longevity.  
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17. Miriam Valera-Alberni, Anne Lanjuin, Silvia Romero-Sanz, Kristopher Burkewitz, Adam Hughes, **William B Mair.**  
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BOOK CHAPTERS/REVIEWS

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11. Sharma A, Smith HJ, Yao P, **Mair WB.** Causal roles of mitochondrial dynamics in longevity and healthy aging. **EMBO Reports**. 2019 Oct 31.
12. Bhadra M, Howell P, Dutta S, Heintz C, **Mair WB.** Alternative splicing in aging and longevity. **Human Genetics**. 2020 Mar.
13. Smith H, Sharma A, Mair WB. Metabolic Communication and Healthy Aging: Where Should We Focus Our Energy? **Developmental Cell**. 2020 July 20.

INVITED COMMENTARIES/SYNOPSES/LETTERS

1. **Mair, W.** Change for the better: phosphoregulation of proteins drives evolution. **PLoS Biology**. 2009 Jun 23;7(6):e1000127. Paper Synopsis.

2. **Mair, W.** "Induced" eyes suggest a path to retinal repair. **PLoS Biology** 2009; Aug 18;7(8):e1000175. Paper Synopsis.
3. **Mair, W.** Reinforcing reinforcement. **PLoS Biology** 2010; Mar 23;8(3):e1000340. Paper Synopsis.
4. **Mair, W.** How normal cells can win the battle for survival against cancer cells. **PLoS Biology** 2010; Jul 13;8(7):e1000423. Paper Synopsis.
5. **Mair, W.** Doubling the dose. **PLoS Biology** 2011; Feb 8;9(2):e1001017. Paper Synopsis.
6. **Mair, W, Steffen, K, Dillin, A.** SIP-ing the Elixir of Youth. **Cell.** 2011. Sep 16;146(6)
7. **Mair, W.** Tipping the energy balance toward longevity. **Cell Metabolism.** 2013. Jan 8;17(1):5-6.
9. Perez-Matos MC, Mair WB. Predicting longevity responses to dietary restriction: A stepping stone toward precision geroscience. **PLOS Genetics.** 2020 July.
10. C Nwanaji-Enwerem, WB Mair. Redefining age-based screening and diagnostic guidelines: an opportunity for biological aging clocks in clinical medicine?. **The Lancet Healthy Longevity** 3 (6), e376-e377. 2022
11. Valera-Alberni M and **Mair WB.** Fast fragmenting mitochondria by TORC2. **Nat Cell Biol.** 2023 Jul;25(7):926-927. doi: 10.1038/s41556-023-01173-1.

#### MEDIA EXAMPLES ([hyperlinks](#)):

- [Is Aging Inevitable?](#) – Webinar hosted by the Harvard Club of Naples -special guest, Dr. William B. Mair
- [The Plasticity of the Aging Process](#) - This Week in Health Podcast
- [5 Myths About Aging](#) – The Washington Post
- [This Mortal Coil](#) – Weapons of Reason
- [Intermittent Fasting and Health Aging](#) – Harvard Gazette (highlighted as one of top 5 read articles on Gazette online)

## RESEARCH SUPPORT

### ACTIVE

**NIA/NIH R01AG044346 (PI: William Mair)**

**“Mechanisms Specific To The Beneficial Effects Of Dietary Restriction.”  
13-25 (2013-2031)**

NIH 1R01AG071966-01 (coI William Mair, PI Edward Chouchani)

Defining the Landscape and Mechanisms of Protein Redox Regulation during Aging  
2022-2027

COMPLETED

Harvard Transdisciplinary Research in Energetics and Cancer Center Pilot Grant (PI: William Mair)

“Determining the mechanisms by which low calorie intake reduces tumorigenesis”

2012-13

William Milton Fund. (PI: William Mair)

“The Molecular Framework Linking Energy Sensing to the Unfolded Protein Response”

2013-14

**Ellison Medical Foundation New Scholar in Aging Research Award. (PI: William Mair)**

**“Uncoupling Positive and Negative Effects of Dietary Restriction”**

**2014-16**

Deans Research Accelerator Award

Glenn Foundation for Medical Research, Glenn Award. Unsolicited Award. (PI: William Mair)

2016-17

**American Federation for Aging Research: Breakthroughs in Gerontology (BIG) Award.**

**(PI: William Mair.)**

**2017-19**

**NIA/NIH R21AG056930 (PI: William Mair)**

**“Defining Functional Outputs of Mitochondrial Networks in Longevity.”**

**2018-20**

NIA/NIH R01AG054201 (PI: Anne Brunet and William Mair)

“Link Between Epigenetic Modifiers And Fat Metabolism For Healthy Aging.”

2016-22

**NIA/NIH R01 R01AG051954 (PI: William Mair)**

**“Targeting RNA Homeostasis To Promote Healthy Aging.”**

**2017-22 (Plan to Submit Renewal Early 2023)**

NIH 1R56AG071966-01 (coI William Mair, PI Edward Chouchani)

Defining the Landscape and Mechanisms of Protein Redox Regulation during Aging

2021-2022 (Bridge Funding for A0 of R01 (15<sup>th</sup> percentile), A1 funded.

AbbVie (PI: William Mair). Collaborative Agreement, Tau Biology.

2019-22

**NIA/NIH R01AG059595 (PI: William Mair)**

**“Cell Non-autonomous Regulation of Aging via Neuronal TORC1.”**

**2018-23**

**NIA/NIH 1R01AG067106 (PI William Mair)**

**“Reversing Loss Of Metabolic Homeostasis To Ameliorate Alzheimer's Disease  
Pathogenicity”  
2020-2025**

American Federation of Aging Research, Breakthrough in Gerontology Award  
(coI William Mair, PI Edward Chouchani)

**GRANTS AWARDED TO TRAINEES**

**NIA F32. Dr. Kristopher Burkewitz**

Kings Trust Foundation Postdoctoral Fellowship. Dr. Kristopher Burkewitz (declined).

**NIA K99/R00. Dr. Kristopher Burkewitz**

**Swiss Foundation Postdoctoral Fellowship. Dr. Caroline Heintz**

Luxembourg Postdoctoral Fellowship. Dr. Caroline Heintz.

**Kings Trust Foundation Postdoctoral Fellowship. Dr. Caroline Heintz.**

NIA Diversity Administrative Supplement. Dr. Porsha Howell

Yerby Fellowship. Dr. Carlos Silva-Garcia.

**NIA F31. Pallas Yao.**

**NIA K99/R00. Dr. Carlos Silva-Garcia**

**NSF graduate fellowship. Noel Jackson**

**NIA F31. Hannah Smith.**

**NIA F31. Maria Perez Matos**

**NIA K99/R00. Dr. Arpit Sharma**

**NIA F32. DR Christopher Morrow.**