Curriculum Vitae

CHRISTOPHER R. BURTNER, PH.D.

Personal Information

Work Address:	Roger Williams University Marine and Natural Sciences One Old Ferry Road Bristol, RI 02809
Work Email:	cburtner@rwu.edu
Home Address:	13 Hydraulion Avenue Bristol, RI 02809
Office Phone:	(401) 254-3420
Cell Phone:	(206) 729-2732

Education

University of Washington (Seattle, WA) 2005 - 2010
Ph.D., Biochemistry
Dissertation: *Using model systems and human disease to investigate the molecular causes of aging.*
Advisor: Brian Kennedy, Ph.D.

Certificate in Molecular Medicine, HHMI Med into Grad Initiative

University of Puget Sound (Tacoma, WA) 1994 - 1999
B.A., Philosophy

Current Position

Roger Williams University 2018 - present
Assistant Professor of Biology

- Courses taught: Biology I (BIO 103); Special Topics in Molecular Genetics (BIO 179); Genetics (BIO 200); Molecular Cell Biology (BIO 325); Cellular Metabolism and Human Disease (BIO 405).
- Principle Investigator, *Molecular Longevity Lab*. Our research focuses on mechanisms of aging and healthy longevity in model organisms. We use comparative genomic screens, high-throughput drug screens, and classical methods in genetics and cell biology to elucidate cellular pathways that regulate the rate of aging. Our lab is exploring the use of CRISPR-mediated gene editing, robotic platforms with computer vision and machine learning to automate life span analysis, and RNA sequencing for pathway analysis. ***I have mentored 20 undergraduate research students and supervised four senior thesis projects.***
- Service to the University includes the SSNS Curriculum Committee, MNS Safety Committee, MNS Seminar Organizer, Diversity and Inclusion Fellows program, Honors Advisory Committee, a member of faculty search committees, and participation in Accepted Students Days and Open Houses.

Previous Positions Held

Harvard Medical School (Boston, MA) 2015 - 2018
Lecturer on Biological Chemistry and Molecular Pharmacology
Curriculum Fellow in Translational and Biomedical Sciences

- Courses taught: Cellular Metabolism and Human Disease (BCMP 234); Case Studies in Human Biology and Translational Medicine (HBTM 301QC); Teaching 101: Bringing Effective Teaching Practices to Your Classroom (GENETIC 302QC); Principles of Genetics (GENETIC 201); Methods in Basic and Clinical Immunology (IMM 701); Gene Editing and Gene Therapy (BIOS E-185)
- Developed and implemented a 6-week high school authentic research program to identify genetic pathways implicated in yeast longevity at Harvard University
- Engaged in curriculum development with faculty at Harvard Medical School, applied teaching methods supported by discipline-based education research, and assessed the effectiveness of these methods on learning

Massachusetts Institute of Technology, Media Lab: Sculpting Evolution (Cambridge, MA) 2017 - 2018
Visiting Scientist
Principle Investigator: Kevin Esvelt, Ph.D.

- Engineered novel CRISPR-activating systems in yeast and nematodes for specific and facile gene over-expression for phenotypic screens
- Developed a reporter yeast strain expressing *C. elegans* genes *Sid-1* and *Dcr-1* in order to optimize the delivery of CRISPR Cas9/Cpf1 guide RNAs to nematodes

Fred Hutchinson Cancer Research Center (Seattle, WA) 2012 - 2015
Postdoctoral Research Fellow, Clinical Research Division
Principle Investigator: Hans-Peter Kiem, M.D.

- Developed a novel *in vivo* foamy virus gene therapy approach for X-linked Severe Combined Immunodeficiency in a pre-clinical canine model (Burtner *et al.*, *Blood*, 2014)
- Evaluated the safety and efficacy of lentiviral gene therapy for hemoglobinopathies in the macaque (Kiem *et al.*, *Mol Ther Methods Clin Dev*, 2014)
- Evaluated a radionuclide-conjugated monoclonal antibody as a conditioning regimen to support a bone marrow graft (Burtner *et al.*, *Hum Gen Ther*, 2015)
- Courses taught: Special Topics in Experiential Learning (EXPRL 296, Bellevue College, Bellevue, WA); Stem Cells and Gene Therapy (BIOL 485A, University of Washington, Seattle, WA)

University of Washington (Seattle, WA) 2010 - 2012
Postdoctoral Research Fellow, Department of Pathology
Principle Investigator: Daniel Bowen-Pope, Ph.D.

- Isolated clonally derived cell lines from rat bone marrow mesenchymal stem cells (MSC)
- Evaluated the effect of an MSC myocardial cell injection on the survival of cardiomyocyte tissue in infarcted rats

University of Washington (Seattle, WA) 2005 - 2010
Graduate Research Assistant, Department of Biochemistry
Principle Investigator: Brian K. Kennedy, Ph.D.

- Described the biochemical mechanism through which calorie restriction extends the lifespan of yeast (Burtner *et al.*, *Cell Cycle*, 2009)
  This paper has been rated by Faculty of 1000 as Exceptional and cited >130 times
- Developed a high-throughput screening procedure to identify genes implicated in yeast cellular longevity, and performed a comparative genomic analysis of longevity factors in yeast and nematodes (Burtner *et al.*, *Cell Cycle*, 2011)

- Expressed disease-associated alleles of the nuclear intermediate filament protein, Lamin A, in mammalian and yeast model systems to evaluate their role in cellular senescence and filament formation (Kudlow *et al., Mol Biol Cell*, 2008)
- Teaching Assistant: Basic Techniques in Biochemistry (BIOC 426); Biochemistry (HUBIO 514)

Supervisory and Mentoring Responsibilities

Academic Advising 2018 - present
Roger Williams University (Bristol, RI)
Provided academic advisement for 34 undergraduate students; wrote Letters of Recommendation for 10 students seeking graduate studies, internships, and jobs; assisted students in planning their Major and Concentration fields; provided counseling on post-graduation plans

Undergraduate Research Mentorship 2018 - present
Roger Williams University (Bristol, RI)
Mentored 20 undergraduate students on research projects in my lab, including 2 Senior Thesis Projects and 2 Center for Economic and Environmental Development (CEED) projects; served on 3 Senior Thesis Committees for undergraduate students in other labs; provided reviews and feedback on proposals for 8 CEED and Senior Thesis proposals

Science Education and Academic Leadership (*SEAL Graduate* Certificate) 2015 - 2018
Harvard Medical School (Boston, MA)
Provided teaching mentorship to Ph.D. students pursuing a graduate certificate in teaching

UW Post-Baccalaureate Research Education Program (PREP) 2014 - 2015
University of Washington (Seattle, WA)
Provided research and academic mentorship to one post-baccalaureate student for one academic year, in preparation for graduate studies

Core Center for Excellence in Hematology, High School Internship Program 2012 - 2014
Fred Hutchinson Cancer Research Center (Seattle, WA)
Mentored two high school summer interns in basic laboratory research projects

Amgen Scholars Program Summer 2008
University of Washington (Seattle, WA)
Mentored an undergraduate Amgen Summer Intern in laboratory research and scientific presentation

Undergraduate and Graduate Student Mentoring 2006 - 2012
University of Washington (Seattle, WA)
Provided research mentorship to 5 undergraduate researchers and 1 graduate rotation student

High School Physician Scientist Training Program Summer 2006
University of Washington (Seattle, WA)
Mentored a high school summer intern in a basic laboratory research project

Grants and Fellowships

RI-INBRE 2023 PUI Summer Undergraduate Research Fellows Training Award 2023
University of Rhode Island (Kingston, RI)
PI: Christopher Burtner, Ph.D.
Exploring cell-autonomous longevity effects arising from G-alpha subunit knockdown. ($77,030)

RI-INBRE Bioinformatics Pilot Project 2022
University of Rhode Island (Kingston, RI)
PI: Christopher Burtner, Ph.D.
Gene Expression Profiling of Long-lived C. elegans Strains. ($8,996)

Impetus Grants 2022
The Norn Group
PI: Christopher Burtner, Ph.D.
AI-coupled robotic life span analysis of aquatic rotifers ($220,021)

RI-INBRE Administrative Supplement for Equipment Purchases 2021
University of Rhode Island (Kingston, RI)
PI: Christopher Burtner, Ph.D.
Proposal for 4-color fluorescent flow cytometer ($73,924)

Nathan Shock and UW HALO Pilot Application 2021
University of Washington (Seattle, WA)
PI: Christopher Burtner, Ph.D.; Co-PI: Andrew Rhyne, Ph.D.
Adapting the WormBot Technology for the Study of Life Span in Rotifers ($10,000)

USDA/NIFA Northeastern Regional Aquaculture Center 2020
University of Maryland (College Park, MD)
PI: Andrew Rhyne, Ph.D.; Co-PI: Christopher Burtner, Ph.D.
Subrecipient of Award 2018-38500-28885 (PI: Reginal M. Harrell, PhD)
Aquaculture biotechnology for the enhancement of live feed production ($16,179)

RI-INBRE Early Career Award 2019
University of Rhode Island (Kingston, RI)
PI: Christopher Burtner, Ph.D.
Subproject of Award NIH P20GM103430 (PI: Bongsup Cho, PhD)
Identifying Molecular Pathways of Longevity to Delay Models of Neurodegeneration ($359,771)

Foundation to Promote Scholarship and Teaching 2019
Roger Williams University (Bristol, RI)
PI: Dr. Christopher Burtner
Establishing a classroom-based authentic research experience in the molecular genetics of aging for freshmen in biology ($15,042)

Genetic Approaches to Aging Training Grant 2007 - 2010
University of Washington (Seattle, WA)
Subrecipient of Award NIH T32 AG000057 (PI: Peter Rabinovitch, MD, PhD)

HHMI Molecular Medicine Scholar, Med Into Grad Initiative 2007, 2009
University of Washington (Seattle, WA)

Honors and Positions

HHMI Molecular Medicine Scholar, Med Into Grad Initiative 2007 - 2010
University of Washington (Seattle, WA)

Biochemistry Graduate Student President 2007 - 2009
University of Washington (Seattle, WA)

Prizes and Awards

Hybrid Hero Teaching Award — November, 2020
RWU Student Senate, Roger Williams University (Bristol, RI)

Certificate of Distinction in Teaching — September, 2017
Bok Center for Teaching and Learning, Harvard University (Cambridge, MA)

ABLConnect Teaching Innovator Prize — July, 2017
Harvard University (Cambridge, MA)

Abstract Achievement Award — December, 2014
American Society of Hematology (San Francisco, CA)

Travel Grant Award Recipient — May, 2013
American Society of Gene and Cell Therapy (Salt Lake City, UT)

Schultz Travel Award Recipient — May, 2010
University of Washington (Seattle, WA)

Poster Award Recipient — June, 2009
Gordon Research Conference on Intermediate Filaments (Tilton, NH)

Professional Memberships

Boston Mycological Club, Member	2017 - present
American Association for the Advancement of Science, Member	2013 - 2015
American Society of Gene and Cell Therapy, Associate Member	2013
Puget Sound Mycological Society, Member	2011 - 2013
American Aging Association, Member	2009

Editorial Responsibilities

Ad Hoc Reviewer:

- Aging Cell
- Antonie van Leeuwenhoek International Journal of General and Molecular Microbiology
- BioMed Central Genetics
- PLoS One
- FEMS Yeast Research
- eLife
- Folia Microbiological
- Journal of Gerontology: Biomedical Sciences
- Journal of Visualized Experiments
- Translational Medicine of Aging

Conference Proceedings

Oral Presentations:

Humbert, O, **Burtner, CR**, O'Donnell, P, Humphrys, DR, Hubbard, N, Chan, F, Adair, JE, Trobridge, GD, Torgerson, TR, Scharenberg, AM, Rawlings, DJ, Felsburg, PJ, and Kiem, HP. *PGK-Mediated Expression of Common Gamma Chain Is More Effective Than EF1α for Therapeutic Immune Reconstitution of X-SCID Dogs after In Vivo Gene Therapy with Foamy Virus Vector.* American Society of Hematology. December 5 - 8, 2015. Orlando, FL.

Burtner, CR, Beard, BC, Kennedy, DR, Torgerson, TR, Scharenberg, AM, Rawlings, DJ, Trobridge, GD, Felsburg, PJ, and Kiem, HP. *Expansion of gene-modified T cells following direct intravenous injection of a therapeutic foamy virus vector in a canine model of severe combined immunodeficiency*. American Society of Gene and Cell Therapy, May 15 - 18, 2013. Salt Lake City, UT.

Burtner, CR, Murakami, CJ, Olsen, B, Kennedy, BK, and Kaeberlein, M. *Yeast chronological survival is determined by a private mechanism distinct from conserved aging pathways*. Molecular Genetics of Aging, September 29 - October 2, 2010. Cold Spring Harbor, NY.

Burtner, CR, Murakami, CJ, Kennedy, BK, and Kaeberlein, M. *A molecular mechanism of yeast chronological aging. Molecular Genetics of Aging*. September 24 - 28, 2008. Cold Spring Harbor, NY.

Selected Abstracts:

Cerasia, C and **Burtner, CR**. *CRISPR-Cas12a Modification of the Rotifer* Brachionus plicatilis. American Chemical Society Spring 2023: Crossroads of Chemistry, March 26 – 30, 2023. Indianapolis, IN.

Cerasia, C and **Burtner, CR**. *Developing a Protocol for Microinjection of Rotifer* Brachionus plicatilis *eggs*. Rhode Island Summer Undergraduate Research Fellows Conference, July 29, 2022. Kingston, RI.

Fabiano, S and **Burtner, CR**. *Analysis of Gnao1 in 3T3 Cells*. Rhode Island Summer Undergraduate Research Fellows Conference, July 29, 2022. Kingston, RI.

Greatorex, J and **Burtner, CR**. *Long-lived Yeast Strains Show an Increased Tolerance to Stress.* Rhode Island Summer Undergraduate Research Fellows Conference, July 29, 2022. Kingston, RI.

Pelletier, C and **Burtner, CR.** *Identifying longevity promoting pharmaceuticals in the rotifer* B. plicatilis *using robotics*. Rhode Island Summer Undergraduate Research Fellows Conference, July 29, 2022. Kingston, RI.

Wood, L and **Burtner, CR**. *Longevity phenotype of gpa-7 knockdown in C. elegans is mediated through the reduction of second messenger cAMP*. Rhode Island Summer Undergraduate Research Fellows Conference, July 29, 2022. Kingston, RI.

Cerasia, C and **Burtner, CR**. *Glowing Green: CRISPR-Cas12a Modification of the Rotifer* Brachionus plicatilis. National Collegiate Honors Council Annual Conference, October 27 – 30. Lake Buena Vista, FL.

Cerasia, C and **Burtner, CR**. *The Rotifer* Brachionus plicatilis *as a Model for Aging Research.* Rhode Island Summer Undergraduate Research Fellows Conference, July 30, 2021. Kingston, RI.

Sullivan, C and **Burtner, CR**. *Rapamycin Increases the Life Span of a* C. elegans *model of Huntington's Disease but Fails to Improve a Motility Defect Late in Life.* Rhode Island Summer Undergraduate Research Fellows Conference, July 30, 2021. Kingston, RI.

Wood, L and **Burtner, CR**. *Evidence for the Conservation of Aging Pathways Among Evolutionarily Divergent Species.* Rhode Island Summer Undergraduate Research Fellows Conference, July 30, 2021. Kingston, RI.

D'Angelo, M and **Burtner, CR**. *Overexpression of SOD2 in Saccharomyces cerevisiae by a CRISPR-Cas12a Activation System.* Rhode Island Summer Undergraduate Research Fellows Conference, January 19, 2021. Kingston, RI.

Dodier, CT and **Burtner, CR.** *Generation of a CRISPR-activating System to Evaluate the Effect of Gene Overexpression on Yeast Life Span.* Rhode Island Summer Undergraduate Research Fellows Conference, July 26, 2019. Kingston, RI.

Faria, CE, Larson, AA, **Burtner, CR**. *Investigating the Life Span and Motility of Neurodegenerative Models of Caenorhabditis elegans*. Rhode Island Summer Undergraduate Research Fellows Conference, July 26, 2019. Kingston, RI.
Burtner, CR, Ricci-Tam, C, Van Vactor, D. *A Discovery-based Summer Research Laboratory for High-school Students in the Genetics of Aging.* American Society of Microbiology Conference for Undergraduate Educators, July 27 - 30, 2017. Denver, CO.

Adair, JE, **Burtner, CR**, Kiem, HP. *Maintenance of Leukocyte Telomere Length after Transplant and Chemoselection in Macaques with Polyclonal Gene Modified Cell Engraftment.* American Society of Hematology, December 5 - 8, 2015. Orlando, FL.

Burtner, CR, Humbert, O, O'Donnell, P, Hubbard, N, Humphrys, D, Adair, JE, Trobridge, GD, Torgerson, TR, Scharenberg, AM, Rawlings, DJ, Felsburg, PJ, Kiem, HP. *Direct comparison of EF1α and PGK promoters reveals superior performance of the PGK promoter for expression of the common gamma chain in a canine model of in vivo foamy virus gene therapy for severe combined immunodeficiency.* American Society of Gene and Cell Therapy, May 13 - 16, 2015. New Orleans, LA.

Burtner, CR, Kibui, J, Kiem, HP, Adair, JE. *Leukocyte telomere length is maintained following transplant and chemoselection in macaques with polyclonal engraftment of gene modified blood cells.* American Society of Gene and Cell Therapy, May 13 - 16, 2015. New Orleans, LA.

Burtner, CR, Humbert, O, O'Donnell, P, Hubbard, N, Humphrys, D, Adair, JE, Trobridge, GD, Torgerson, TR, Scharenberg, AM, Rawlings, DJ, Felsberg, PJ, and Kiem, HP. *Robust therapeutic expression of the common gamma chain with the human PGK promoter using foamy virus in vivo gene therapy in a canine model of severe combined immunodeficiency.* American Society of Hematology, December 6 - 9, 2014. San Francisco, CA.

Kiem, HP, Arumugam, P*****, **Burtner, CR***, Adair, JE, Beard, BC, Fox, C, and Malik, P. *Safety of a gamma globin expressing lentivirus vector in a non-human primate model for gene therapy of sickle cell diseases*. American Society of Hematology, December 7 - 10, 2013. New Orleans, LA.

Burtner, CR, Chandrasekaran, D, Beard, BC, Kiem, HP, and Adair, JE. *Leukocyte telomere maintenance after transplantation and in vivo chemoselection of mutant MGMTp140K gene-modified hematopoietic cells*. America Society of Gene and Cell Therapy, May 15 - 18, 2013. Salt Lake City, UT.

Burtner, CR, Tan, Z, Choi, E, Ing, B, Jiang, Z, Zheng, H, Liu, X, Zhou, Z, and Kennedy, BK *A role for LMNA-COMMD1 interaction in the regulation of NF-κB activity. Gordon Research Conference on Intermediate Filaments.* June 20 - 25, 2010. Tilton, NH.

Burtner, CR, Murakami, CJ, Olsen, B, Kennedy, BK, and Kaeberlein, M. *Chronological longevity in yeast is associated with organic acid metabolism.* 38th Annual Meeting of the American Aging Association, May 29 - June 1, 2009. Scottsdale, AZ.

Cooper, JL, Till, BJ, Laport, R, Bowers, E, Codomo, C, **Burtner, C**, Young, K, Holm, A, Greene, EA, Zerr, T, Kwong, S, Comai, L, and Henikoff, S. *TILLING and Ecotilling in Plants.* American Society of Plant Biologists, Plant Biology, July 16 - 20, 2005. Seattle, WA.

* Denotes equal contribution.

Record of Publication

Publications in Refereed Journals

Hollenhorst, MA, Braun, DA, **Burtner, CR**, Cajigas, I, Cunningham-Bussel, AC, Eser, PO, Nabel, CS, Tsai, FD, Michel, T, and Yialamas, MA. *Bridging the Divide: Development of a Student Grand Rounds at the Interface of Basic Science and Clinical Medicine.* Acad Med. 2020 April;95(4): 548 - 552.

Humbert, O, Chan, F, Rajawat, YS, Torgerson, T, **Burtner, C**, Hubbard, N, Humphrys, D, Nogaard, ZK, O'Donnell, P, Adair, JE, Trobridge, GD, Scharenberg, AM, Felsburg, PJ, Rawlings, DJ, Kiem, HP. *Rapid Immune Reconstitution of SCID-X1 Canines After G-CSF/AMD3100 Mobilization and In Vivo Gene Therapy.* Blood Adv. 2018 May 8;2(9): 987 - 999.

Burtner, CR*, Chandrasekaran, D*, Santos, EB, Beard, BC, Adair, JE, Sandmaier, BM, and Kiem, H-P. *^{211}Astatine-conjugated monoclonal CD45 antibody-based nonmyeloablative conditioning for stem cell gene therapy*. Hum Gene Ther. 2015 Jun;26(6):399 - 406.

Felsburg, P, Ravin, S, Malech, H, Sorrentino, B, **Burtner, C**, Kiem, H-P. *Gene Therapy Studies in a Canine Model of X-linked Severe Combined Immunodeficiency.* Hum Gene Ther Clin Dev. 2015 Mar;26(1):50 - 56.

Burtner, CR, Beard, BC, Kennedy, DR, Wohlfahrt, ME, Adair, JE, Trobridge, GD, Scharenberg, AM, Torgerson, TR, Rawlings, DJ, Felsburg, PJ, and Kiem, H-P. *Intravenous injection of a foamy virus vector to correct canine SCID-X1.* Blood. 2014 Jun 5;123(23): 3578 - 3584.

Kiem, H-P, Arumugam, PI*, **Burtner, CR***, Fox, C, Beard, BC, Dexheimer, P, Adair, JE, and Malik, P. *Pigtailed macaques as a model to study safety and efficacy of lentivirus vector-mediated gene therapy for hemoglobinopathies.* Mol Ther Methods Clin Dev. 2014 Dec 17;1:14055.

Burtner, CR, Murakami, CJ, Olsen, B, Kennedy, BK, and Kaeberlein, M. *A genomic analysis of chronological longevity factors in budding yeast.* Cell Cycle. 2011 May 1;10(9): 1385 - 1396.

Burtner, CR and Kennedy, BK. *Progeria syndromes and ageing: what is the connection?* Nat Rev Mol Cell Biol. 2010 Aug;11(8): 567 - 578.

Burtner, CR, Murakami, CJ, Kennedy, BK, and Kaeberlein, M. *A molecular mechanism of chronological aging in yeast.* Cell Cycle. 2009 Apr 15;8(8): 1256 - 1270.

Kudlow, BA, Stanfel, MN, **Burtner, CR**, Johnston, ED, and Kennedy, BK. *Suppression of proliferative defects associated with processing-defective lamin A mutants by hTERT or inactivation of p53.* Mol Biol Cell. 2008 Dec;19(12): 5238 - 5248.

Murakami, CJ*, **Burtner, CR***, Kennedy, BK, and Kaeberlein, M. *A method for high-throughput quantitative analysis of yeast chronological lifespan.* J Gernotol A Biol Sci Med Sci. 2008 Feb;63(2): 113 - 121.

Kaeberlein, M, **Burtner, CR**, and Kennedy, BK. *Recent developments in yeast aging*. PLoS Genet. 2007 May 25;3(5):e84.

Till, BJ, Reynolds, SH, Weil, C, Springer, N, **Burtner, C**, Young, K, Bowers, E, Codomo, CA, Enns, LC, Odden, AR, and Henikoff, S. *Discovery of induced point mutations in maize genes by TILLING.* BMC Plant Biol. 2004 Jul 28; 4:12.

Till, BJ, **Burtner, C**, Comai, L, and Henikoff, S. *Mismatch cleavage by single-strand specific nucleases.* Nucleic Acids Res. 2004 May 11;32(8): 2632 - 2641.

Comai, L, Young, K, Till, BJ, Reynolds, SH, Greene, EA, Codomo, CA, Enns, LC, Johnson, JE, **Burtner, C**, Odden, AR, and Henikoff, S. *Efficient discovery of DNA polymorphisms in natural populations by ecotilling.* Plant J. 2004 Mar;37(5): 778 - 786.

Greene, EA, Codomo, CA, Taylor, NE, Henikoff, JG, Till, BJ, Reynolds, SH, Enns, LC, **Burtner, C**, Johnson, JE, Odden, AR, Comai, L, and Henikoff, S. *Spectrum of chemically induced mutations from a large-scale reverse-genetic screen in Arabidopsis.* Genetics. 2003 Jun;164(2): 731 - 740.

Till, BJ, Reynolds, SH, Greene, EA, Codomo, CA, Enns, LC, Johnson, JE, **Burtner, C**, Odden, AR, Young, K, Taylor, NE, Henikoff, JG, Comai, L, and Henikoff, S. *Large-scale discovery of induced point mutations with high-throughput TILLING.* Genome Res. 2003 Mar;13(3): 524 - 530.

Book Chapters

Burtner, CR, Murakami, CJ, and Kaeberlein, M. *A genomic approach to yeast chronological aging.* Methods Mol Biol. 2009;548: 101 - 114.

Dissertation

Burtner, CR. *Using model systems and human disease to investigate the molecular causes of aging.* (Doctoral Dissertation, 2010).

* Denotes equal contribution