

Curriculum Vitae

Anne Brunet, PhD

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Education

1992	BS, Biology, <i>summa cum laude</i> , Ecole Normale Supérieure (France)
1992–1997	PhD, Biology, University of Nice (France)
1998–2003	Post-doctoral training, Harvard Medical School

Professional Experience

09/1992–12/1997	Graduate student, Jacques Pouysségur's laboratory, University of Nice (France)
01/1998–12/2003	Post-doctoral fellow, Michael Greenberg's laboratory, Harvard Medical School
02/2004–02/2011	Assistant Professor of Genetics, Stanford University
02/2011–12/2014	Associate Professor of Genetics, Stanford University
12/2014–present	Professor of Genetics, Stanford University
01/2011–01/2023	co-Director of the Glenn Center for the Biology of Aging at Stanford
2023–present	Director of the Glenn Center for the Biology of Aging at Stanford
2015–present	Michele and Timothy Barakett Professor of Genetics, Stanford University

Honors and Awards

1992	<i>Summa cum laude</i> , Ecole Normale Supérieure
1993–1997	Pre-doctoral fellowship, Ecole Normale Supérieure
1993	EMBO Short-Term Fellowship
1997	EMBO Long-Term Post-Doctoral Fellowship
1998–2000	Human Frontier Science Program Post-Doctoral Fellowship
2000	Medical Foundation Post-Doctoral Fellowship
2000–2002	Goldenson-Berenberg Post-Doctoral Fellowship, Harvard Medical School
2003	Radcliffe Institute for Advanced Studies Fellowship
2003	Lacaze-Policart Lacassagne Prize (French Academy of Science)
2005	Pfizer/AFAR Innovation in Aging Research Award
2005	Klingenstein Award in the Neurosciences
2005	Ellison Medical Foundation New Scholar Award (awarded)
2005	Damon Runyon Scholar Award (awarded)
2006	Sloan Research Fellowship
2006	Brain Tumor Foundation Award
2007	Glenn Award for Research in Biological Mechanisms of Aging
2007	McCormick Award for Women in Science
2008	California Institute of Regenerative Medicine New Faculty Award
2009	NARSAD Young Investigator Award
2009	Ellison Medical Foundation Senior Scholar Award

2010	Mentoring Award from the Stanford University Post-doctoral Association
2012	Vincent Cristofalo Rising Star Award in Aging Research
2012	NIH Director Pioneer Award
2014	Bennett J. Cohen Award for Research in Aging
2015	Michele and Timothy Barakett Endowed Professorship
2018	NIH Director Transformative Research Award
2022	Chan Zuckerberg Biohub Investigator
2022	FNIH Lurie Prize in Biomedical Sciences
2023	NOMIS Distinguished Scientist and Scholar Award
2025	Elected member, the American Academy of Arts and Sciences
2025	NIH Director Pioneer Award

Keynote and Named Lectures

2013	Koshland Lecture, UC Berkeley
2014	Bennett J. Cohen Lecture – University of Michigan
2015	World Economic Forum, Davos, Switzerland
2017	Keynote Lecture - Strategic Conference of Zebrafish Investigators, Pacific Grove
2017	Keynote Lecture - EMBO Conference - Advances in Stem Cells and Regenerative Medicine, Heidelberg, Germany
2017	Sager Lecture - Marine Biological Laboratory Friday Evening Lecture, Woods Hole
2018	Keynote Lecture - University of Wisconsin-Madison – Aging, Metabolism, Stress, Pathogenesis and Small RNAs in <i>C. elegans</i>
2018	Keynote Lecture - Society for the Study of Reproductions – Pathways to Discovery: Signals for Reproduction, Development and Longevity, New Orleans
2018	Keynote Lecture – Biology of Time – Exciting Biologies, Phoenix
2021	Keynote Lecture – Harvard Stem Cell Institute, Cambridge, MA
2021	Named Lecture – NIH Florence Mahoney Lecture on Aging, Bethesda, MD
2021	Keynote Lecture – EMBO EMBL Symposium – Metabolism Meets Epigenetics, Heidelberg, Germany
2022	Keynote Lecture – UCSF Developmental and Stem Cell Biology Retreat, Santa Cruz, CA
2023	Keynote Lecture – Keystone Symposia Joint Meetings - Mitochondrial Dysfunction: From Ultra-Rare Diseases to Aging; and Molecular Basis of Healthy Aging, Breckenridge, CO
2023	Keynote Lecture - Gordon Research Conference – Evolving Concepts of Organismal Aging, Barcelona, Spain
2023	Keynote Lecture – Kern Lipid Conference – Lipids in Aging, Lifespan and Aging-associated Diseases, Vail, CO
2023	Keynote Lecture – Yale University – Yale Center for Research on Aging Symposium, New Haven, CT
2024	Named Lecture – Harvard Joslin Diabetes Center – Ray and Robert Kroc Lectureship on Diabetes, Boston, MA
2024	Keynote Lecture – (Virtual) University of Washington Nathan Shock Center of Excellence in Basic Biology of Aging, Seattle, WA

2024	Keynote Lecture – FASEB Science Research Conference – Transcription, Chromatin, Epigenetics in Aging, Melbourne, FL
2024	Keynote Lecture – Chan Zuckerberg Biohub SF Inter-lab Confab, San Francisco, CA
2025	Keynote Lecture – Keystone Symposia – Aging: New Frontiers in Rejuvenation and Gerotherapeutics, Breckenridge, CO
2025	Keynote Lecture – Fox Chase Cancer Center – Cancer Epigenetics Institute Symposium, Philadelphia, PA
2025	Keynote Lecture – Gordon Research Conference – Stress Proteins in Growth, Development and Disease, Newry, ME
2025	Keynote Lecture - Côte d’Azur University – 50 th Anniversary Symposium, Nice, France

Advisory Panels and Boards

2007-present	American Federation for Aging Research (AFAR) Reviewing Committee
2011-2013	Ellison Medical Foundation Reviewing Committee
2010-2012	NIH Program Project Ad Hoc Reviewer
2012-2015	NIH Study Section (CMAD) - Permanent Member
2015-2016	NIH Study Section (CMAD) - Chair
2011-2016	Member of <i>Faculty of 1000</i>
2020-2021	External Advisory Board, T32 UC Berkeley
2011-2022	Editorial Board, <i>Longevity & Healthspan</i>
2012-2022	Editorial Board, <i>Aging Cell</i>
2015-2023	Editorial Board, <i>Cell Reports</i>
2009-present	Editorial Board, <i>Aging</i>
2017-present	Editorial Board, <i>Genes & Development</i>
2020-2023	Editorial Board, <i>Cell Stem Cell</i>
2020-present	External Advisory Board, Nathan Shock Center, University of Washington
2020-present	External Advisory Board (<u>Chair</u>), Salk’s AHA/Allen Center for Aging and Alzheimer’s Disease
2022-present	Scientific Advisory Board, Calico Life Sciences
2023-present	Scientific Advisory Board, IHU HealthAge
2023-present	Scientific Advisory Board, MBL Biology of Aging Course
2024	NIH Study Section Special Emphasis Panel
2025	NIH DP2 Review Panel

National and International Meeting Organization

2013-2023	Bay Area Aging Meeting at Stanford
2013	NIH Geroscience Summit – Epigenetics and aging session
2014	Cold Spring Harbor Laboratory Meeting – PTEN Pathway and Targets
2015	Les Treilles Foundation – Aging and metabolism
2015	International Society for Stem Cell Research committee
2016	Keystone Symposium – Epigenetics and Metabolic Regulation of Aging
2016	Cell Symposium – Metabolism and Aging
2016	Cold Spring Harbor Laboratory Meeting – PI3K/mTOR/PTEN Network
2018	Keystone Symposium – Cancer Epigenetics: New Mechanisms, New Therapies
2018	FASEB – Transcription, Chromatin, and Epigenetics
2018	Cell Symposia – Aging and Metabolism
2018	Cold Spring Harbor Laboratory Meeting – Nutrient Signaling

2022	FASEB – Transcription, Chromatin and Epigenetics in Aging Meeting
2026	Keystone Symposia – Immune Function and Organ Health
2026	Monte Verità Conference – Neurogenesis from development to adulthood in health and disease

Invited Lectures

2004

2004	Upstate Cell Signaling Symposium. Dundee, Scotland
2004	Cell Press Symposium, Aging and Human Disease Meeting. Italy
2004	Stowers Institute for Medical Research. Kansas City, MO

2005

2005	Kavli Institute for Theoretical Physics Symposium, Networks in Growth, Death, and Aging. Santa Barbara, CA
2005	University of Texas South Western. Dallas, TX

2006

2006	Cold Spring Harbor Meeting, PTEN pathways. Cold Spring Harbor, NY
2006	ASBMB meeting. San Francisco, CA
2006	CNIO Cancer Conference, PTEN and the AKT route. Madrid, Spain
2006	Gordon Conference, Phosphorylation and G-protein mediated signaling networks. Biddeford, Me
2006	20 th IUBMB International Congress of Biochemistry and Molecular Biology and 11 th FAOBMB Congress. Kyoto, Japan
2006	Steiner Foundation Meeting. Brunnen, Switzerland
2006	Cold Spring Harbor Laboratory. Cold Spring Harbor, NY
2006	University of California Irvine. Irvine, CA
2006	University of California, San Diego. San Diego, CA

2007

2007	Keystone Symposium, Cell Signaling and Proteomics. Steamboat Spring, CA
2007	American Association for Cancer Research Annual Meeting. Los Angeles, CA
2007	Xth International Symposium on Insulin Receptors and Insulin Action. Stockholm, Sweden
2007	The New York Academy of Science, The PI3K-PTEN-AKT-TOR Signaling Pathway in Cancer, Metabolism, and Aging. New-York, NY
2007	FASEB Summer Research Conference, Obesity, Energy Balance and Disease. Indian Wells, CA
2007	The 4 th Key Symposium, The Biology of Ageing. Stockholm, Sweden
2007	Buck Institute Symposium, Nutrient Signaling and Aging. Novato, CA

2008

2008	Keystone Symposium, Metabolic Pathways of Longevity. Copper Mountain, CO
2008	American Diabetes Association. San Francisco, CA
2008	International Symposium on Olfaction and Taste. San Francisco, CA
2008	California Institute of Regenerative Medicine Annual Meeting. San Francisco, CA

2008 Cold Spring Harbor Meeting on the Genetics of Aging. Cold Spring Harbor, NY

2008 Harvard/California meeting on Stem Cell Biology. Los Angeles, CA

2008 San Antonio Nathan Shock Aging Center Conference on Aging. Bandera, TX

2008 University of Utah. Salt Lake City, UT

2008 Buck Institute for Age Research. Novato, CA

2008 Massachusetts General Hospital, Harvard Medical School. Boston, 2009

Gordon Research Conference, Biology of Aging. Ventura, CA

2009

2009 Gordon Research Conference, Signal Transduction within the Nucleus. Ventura, CA

2009 Keystone Symposium, PI3-kinase signaling in disease. Olympic Valley, CA

2009 Banbury Meeting, Molecular Biology of Sirtuins. The Banbury Center, NY

2009 Brown University '09 Colloquium. Brown University, RI

2009 American Aging Association, 38th Annual Meeting. Scottsdale, AZ

2009 CNIO Cancer Conference, The Energy of Cancer. Madrid, Spain

2009 Buck Institute Symposium, Systems Biology of Aging. Novato, CA

2008 Rockefeller Institute. New-York City, NY

2009 Gladstone Institute. San Francisco, CA

2009 Harvard Medical School, Department of Pathology. Boston, MA

2009 Duke University. Durham, NC

2009 University of Cologne, Germany

2010

2010 Cellular Stress and Aging Symposium. University of North Carolina, NC

2010 Keystone Symposium, New Insights into Healthspan and Diseases of Aging. Tahoe City, CA

2010 Cold Spring Harbor Meeting, PTEN Pathways and Targets. Cold Spring Harbor, NY

2010 Signaling and Cellular Regulation Symposium, University of Boulder, CO

2010 Paul Glenn Symposium, Biology of Aging, Santa Barbara, CA

2010 Keynote Speaker, Signaling Quebec 2010, Canada

2010 Ellison Medical Foundation Annual Meeting, Woods Hole, MA

2010 Gordon Conference on Aging, Les Diablerets, Switzerland

2010 AMPK: Central Regulatory System in Metabolism & Growth, FASEB Conference, Kyoto, Japan

2010 Cancer Metabolism, Barcelona Biomed Conference, Spain

2010 Symposium Nijmegen, The Netherlands

2010 Glenn Symposium, Salk Institute

2010 University of Strasbourg, France

2010 University of Utrecht, The Netherlands

2010 National Cancer Institute. Amsterdam, The Netherlands

2010 UC Irvine, CA

2010 Burnham Institute, CA

2010 Curie Institute, Paris, France

2010 University of Pennsylvania, Philadelphia, PA

2011

2011	Genome, Cancer & Ageing Symposium, 3 rd Monaco Age Oncology
2011	The forefront of therapeutic approaches to Neurodegeneration: Age modifiers, proteostasis, and stem cells, The Bahamas
2011	Gordon Conference, Oxidative Stress & Disease, Ventura, CA
2011	Gordon Conference, Signal Transduction within the nucleus, Ventura, CA
2011	Keynote Speaker at the Retreat for MD Anderson, TX
2011	French American Biotechnology Symposium, Approaches of Aging, San Francisco, CA
2011	3 rd Else Kröner-Fresenius Symposium on Molecular Mechanisms of Stem Cell Aging, Germany
2011	The 24 th Sigrid Juselius Symposium on post-translational modification networks as survival determinant, Espoo, Finland
2011	The Paul F. Glenn Symposium on Aging, Boston, MA
2011	FASEB Summer Research Conference, Epigenetics, Chromatin & Transcription, Snowmass, CO
2011	Gordon Conference, Epigenetics, Easton, MA
2011	Stem Cells in Development and Disease, Berlin, Germany
2011	Rostock Symposium on System Biology and Bioinformatics in Ageing Research, Rostock, Germany
2011	Symposium on Genetics of Aging and Life History, Pohang, Korea
2011	EMBO Molecular Medicine Conference on Molecular Insights for innovative therapies, Heidelberg, Germany
2011	Gladstone, UCSF, San Francisco, CA
2011	Stowers Institute for Medical Research, Kansas City, MO
2011	Washington University, St-Louis, MO
2011	University of Washington, Seattle, WA
2011	Harvard Medical School, Childrens Hospital, Boston, MA
2011	University of California, Berkeley, CA
2011	University of California, San Francisco, CA
2011	University of Southern California, Los Angeles, CA
2011	University of San Antonio, San Antonio, TX

2012

2012	Keystone Symposium, Stem Cells, Squaw Valley, CA
2012	Keystone Symposium, Organ Regeneration, Breckenridge, CO
2012	Spector Prize lecture Symposium, Columbia University, NY
2012	Cell Press LabLinks meeting on Neural Stem Cells, San Francisco, CA
2012	ASBMB meeting, San Diego, CA
2012	AGE meeting, Fort Worth, TX
2012	Meeting Fondation Les Treilles, France
2012	Wilsede Meeting, Wildsede, Germany
2012	Cold Spring Harbor Meeting on the Genetic and Molecular mechanisms of aging, Cold Spring Harbor, NY
2012	9th Nestlé International Nutrition Symposium, Lausanne, Switzerland
2012	Keystone Symposia Aging and Disease of Aging, Tokyo, Japan
2012	Stem Cells and Metabolism Abcam, La Jolla, CA
2012	Weill Cornell Medical School, New-York, NY
2012	Sloan Kettering, New-York, NY
2012	Gurdon Institute, Cambridge, UK
2012	Babraham Institute, Cambridge, UK
2012	Joslin Diabetes Center, Boston, MA

2013

2013 Council Meeting, NIA, Washington, DC
2013 Epigenetic Symposium, University of Pennsylvania, Philadelphia, PA
2013 Miami 2013 Winter Symposium, Miami, FL
2013 Keystone Symposia Stem Cell Regulation in Homeostasis and Disease, Banff, Canada
2013 Keystone Symposia Epigenetic Marks and Cancer, Santa Fe, NM
2013 NCI Symposium Epigenetics in Development, Bethesda, MD
2013 First Cologne Aging Conference, Cologne, Germany
2013 V Else Kröner-Fresenius Symposium Adult Stem Cell in Aging, Wartburg, Germany
2013 25th Pezcoller Symposium, Metabolism and Tumorigenesis, Trento, Italy
2013 Gordon Conference Developmental Biology, Lucca, Italy
2013 Ellison Medical Foundation Symposium, Woods Hole, MA
2013 Gordon Conference on Aging, Lucca, Italy
2013 14th Annual Skirball Symposium, Metabolism – from molecules to behavior, New-York, NY
2013 JB Little Symposium – Harvard School of Public Health, Boston, MA
2013 Advances in Geroscience: Impact on healthspan and chronic diseases, NIH, Bethesda, MD
2013 Abcam meeting – Chromatin Structure and function, Grand Cayman Island
2013 Cold Spring Harbor Laboratories, Cold Spring Harbor, NY
2013 Columbia University, NY
2013 MIT, Boston, MA
2013 Brandeis, Boston, MA
2013 Pasteur Institute, Paris, France
2013 Koshland Lecture, UC Berkeley, CA
2013 Albert Einstein College of Medicine, NY

2014

2014 Keystone Meeting – Tumor metabolism, Whistler, Canada
2014 Cold Spring Harbor Meeting PTEN, Cold Spring Harbor, NY
2014 Keystone Meeting – Epigenetic Programming and Inheritance, MA
2014 Yale University, New Haven, CT
2014 Cornell University, Ithaca, NY
2014 Gordon Conference Meeting – Phosphorylation and G-protein mediated signaling network, Biddeford, ME
2014 Beatson International Cancer Conference, Scotland
2014 EMBL meeting metabolism, Heidelberg, Germany
2014 University of Michigan, Ann Arbor, MI
2014 University of California at San Diego, San Diego, CA
2014 University of Utah, Salt Lake City, UT

2015

2015 Aging Symposium, Burnham Institute, San Diego, CA
2015 World Economic Forum, Davos, Switzerland
2015 Fusion Conference – Intervention in Aging, Cancun, Mexico
2015 Gordon Conference – Stem Cells and Cancer, Ventura, CA
2015 Les Treilles Symposium – Physiology, Les Treilles, France

2015 EMBO Workshop on Developmental Circuits in Aging, Heraklion, Crete
 2015 Cold Spring Harbor Meeting, 21st Century Genetics – Genes at Work, NY
 2015 Les Treilles Symposium – The Role of Metabolism in Ageing and Ageing
 Related Disease, Les Treilles, France
 2015 Gordon Conference - Developmental Biology, South Hadley, MA
 2015 FASEB–Transcription, Chromatin, and Epigenetics, West Palm Beach, FL
 2015 Gordon Conference - Biology of Aging, Newry, ME
 2015 Cold Spring Harbor Meeting - Mitochondria and Cancer, NY
 2015 Cold Spring Harbor Asia - Molecular Basis of Aging and Disease, China
 2015 Janelia Conference – Behavioral Epigenetics, Ashburn, VA
 2015 Stanford Neuroscience Institute Symposium, Stanford, CA
 2015 ABCAM – Epigenetics, Obesity and Metabolism, Cambridge, UK
 2015 Jacques Monod Conference – Comparative Biology of Aging, France
 2015 UCSF, San Francisco, CA
 2015 University of Colorado, Aurora, CO
 2015 ABCAM – Chromatin: Structure and Function 2015, Grand Cayman
 Island

2016

2016 Stem Cell Symposium - Seattle, WA
 2016 Keystone Symposium – Noncoding RNAs in Health and Disease, NM
 2016 Keystone Symposium – Chromatin regulation in cancer, Whistler, Canada
 2016 Development Symposium – Chicago, IL
 2016 Baylor College of Medicine, Houston, TX
 2016 Rockefeller University, New-York, NY
 2016 Princeton University, Newark, NJ
 2016 UT Southwestern, Dallas, TX
 2016 Stowers Institute for Medical Research, Kansas City, MO
 2016 Keystone Symposium – Epigenetic and Metabolic Regulation of Aging
 and Aging-related Diseases, Santa Fe, NM
 2016 Department of Cell Biology, Harvard Medical School, Boston, MA
 2016 ISSCR Stem Cell meeting, San Francisco, CA
 2016 Cell Symposium – Transcriptional Regulation in Development and
 Disease, Chicago, IL
 2016 University of Wisconsin-Madison – Aging, Metabolism, Stress,
 Pathogenesis and Small RNAs in *C. elegans*, Madison, WI
 2016 SDB-ISD International Conference, Boston, MA
 2016 EMBL Conference – Transcription and Chromatin, Heidelberg,
 Germany
 2016 Cold Spring Harbor Laboratory – Mechanisms of Aging, NY
 2016 Cold Spring Harbor Laboratory – Germ Cells, NY
 2016 ITMAT International Symposium, Philadelphia, PA
 2016 University of Dundee - Cell Signaling Lecture, Scotland, UK
 2016 GSA Pre-Conference Session - A Phylogenetic View of Interventions
 in Aging, New Orleans, LA
 2016 Miami Epigenetics and Cancer Symposium, Miami Beach, FL
 2016 NIH Common Fund High-Risk, High-Reward Research Symposium,
 Bethesda, MD

2017

2017 **Keynote Lecture** - Strategic Conference of Zebrafish Investigators, Pacific Grove, CA

2017 Scripps Florida Symposium – The Biology of Aging, Jupiter, FL

2017 Gordon Research Conference – Stem Cells & Cancer, Lucca, Italy

2017 Fusion Conference – Interventions in Aging, Cancun, Mexico

2017 Sloan Kettering Institute, New York, NY

2017 Yale University School of Medicine, New Haven, Connecticut

2017 Harvard University, T.H. Chan School of Public Health, Boston, MA

2017 Harvard University, Department of Molecular & Cellular Biology, Cambridge, MA

2017 ASBMB Annual Meeting, Chicago, IL

2017 **Keynote Lecture** - EMBO Conference - Advances in Stem Cells and Regenerative Medicine, Heidelberg, Germany

2017 UCSF – DSCB Symposium, San Francisco, CA

2017 Pasteur Institute – Developmental & Stem Cell Biology, Paris, France

2017 Cold Spring Harbor Laboratory – Genome Engineering: The CRISPR/Cas Revolution, Cold Spring Harbor, NY

2017 Marine Biological Laboratory Friday Evening Lecture, Woods Hole, MA

2017 FASEB – Reversible Acetylation on Health and Disease, Big Sky, MT

2017 QB3 Berkeley – Rewriting Genomes, Berkeley, CA

2017 EMBO Meeting – Gene regulatory mechanisms in neural fate decisions, San Juan de Alicante, Spain

2017 Foresight Institute – Atomic Precision for Healthspan and Longevity, Palo Alto, CA

2017 Scripps Research Institute – The TSRI Distinguished Cell and Molecular Biology Lecture Series, La Jolla, CA

2017 Molecular Biology of Ageing Meeting, Groningen, The Netherlands

2017 Chan Zuckerberg Biohub, San Francisco, CA

2017 Broad Institute – Cell Circuit and Epigenomics Seminar, Cambridge, MA

2017 Whitehead Institute Seminar Series, Cambridge, MA

2017 Stanford University – Inflammation, Aging and Chronic Disease Conference, Stanford, CA

2018

2018 Wellcome Genome Campus – Healthy Ageing: From Molecules to Organisms, Hinxton, Cambridge, UK

2018 Keystone Conference – Cancer Epigenetics: New Mechanisms, New Therapies, Breckenridge, CO

2018 Fusion Conference – Neuroepigenetics and Neuroepitranscriptomics, Cancun, Mexico

2018 Genentech, South San Francisco, CA

2018 University of Southern California – Regenerative Medicine and Stem Cell Research, Los Angeles, CA

2018 Buck Student Aging Symposium, Novato, CA

2018 University of Washington – Basic Biology of Aging Seminar, Seattle, WA

2018 Columbia University – Genetics and Development Departmental Seminar, New York, NY

2018 CNIO “La Caixa” Foundation Frontiers Meeting - Molecular, Cellular and Organismal Hallmarks of Aging, Madrid, Spain

2018 Max Planck Institute for Biology of Ageing, Nothobranchius Symposium, Cologne, Germany

2018 **Keynote Lecture** - University of Wisconsin-Madison – Aging, Metabolism, Stress, Pathogenesis and Small RNAs in *C. elegans*, Madison, WI

2018 RAND Summer Institute, Santa Monica, CA

2018 **Keynote Lecture** - Society for the Study of Reproductions – Pathways to Discovery: Signals for Reproduction, Development and Longevity, New Orleans, LA

2018 FASEB – Protein Phosphorylation Networks in Health and Disease, Snowmass, CO

2018 University of Basel – Stem Cell Dynamics Throughout Life: From Development to the Adult, Basel, Switzerland

2018 Max Planck Institute for Biology of Ageing – 10th Anniversary Symposium, Cologne, Germany

2018 FASEB – Transcription, Chromatin, and Epigenetics, Florence, Italy

2018 Cell Symposia – Aging and Metabolism, Sitges, Spain

2018 **Keynote Lecture** – Biology of Time – Exciting Biologies, Phoenix, AZ

2018 Cold Spring Harbor Laboratory – Nutrient Signaling, Cold Spring Harbor, NY

2018 Sanford Burnham Prebys Medical Discovery Institute – Epigenetics of development, aging and disease, La Jolla, CA

2018 Sylvester Comprehensive Cancer Center – Miami Epigenetics and Cancer Symposium, Miami Beach, FL

2018 Gerontological Society of America Meeting, Boston, MA

2018 Northwestern University – SQE Epigenetics, Chromatin, and Human Disease, Chicago, IL

2018 Buck Institute – 30th Anniversary Symposium, Novato, CA

2018 American Society for Cell Biology – Beyond Homeostasis: Stem Cells Under Stress, San Diego, CA

2018 NASA Ames Research Center – XO Seminar, Mountain View, CA

2019

2019 University of California, San Francisco – Basic Science Seminar, San Francisco, CA

2019 UCSF Gladstone Institutes – GICD/CVRI Seminar, San Francisco, CA

2019 Fusion Neurogenesis Conference, Nassau, Bahamas

2019 University of Washington, Seattle, WA

2019 Keystone Symposia – Epigenetics and Human Disease, Banff, Alberta, Canada

2019 McGill University – Molecular Seminar, Montréal, Canada

2019 Harvard Medical School – Department of Genetics Seminar, Boston, MA

2019 Brown University – Biology of Aging Seminar, Providence, Rhode Island

2019 University of Oregon – Institute of Molecular Biology Seminar, Eugene, OR

2019	Les Treilles Symposium – Nutrient Sensing and the Metabolic Control of Cell Growth, Les Treilles, France
2019	Eurogenesis Meeting 2019 - Bordeaux, France
2019	Marabou Symposium – Nutrition and Stem Cell Integrity in Ageing, Stockholm, Sweden
2019	Erasmus University Medical Center – Ageing, Health and Rejuvenation, Rotterdam, The Netherlands
2019	Gordon Research Conference – Molecular, Cellular and Physiological Determinants of Lifespan and Healthspan, Sunday River, Newry, Maine
2019	Morgridge Metabolism Symposium – Frontiers in Metabolism - Mechanism of Metabolic Disease, Madison, WI
2019	Foundation des Treilles – Stem Cells, Aging and Stress Response Mechanisms, Tourtour, France
2019	University of Michigan – Department of Molecular and Integrative Physiology, Ann Arbor, MI
2019	Yale School of Medicine – Genetics Department Seminar Series, New Haven, CT
2019	University of California, San Francisco – Hillblom Aging Symposium, San Francisco, CA
2019	Gerontological Society of America Scientific Meeting – Strength in Age: Harnessing the Power of Networks, Austin, TX
2019	Barcelona BioMed Conference – Immunotherapy beyond cancer. A cure for age-related diseases, Barcelona, Spain
2019	Harvard University – Department of Molecular and Cellular Biology, Cambridge, MA
 <u>2020</u>	
2020	Albert Einstein College of Medicine – Stem Cell Symposium – Gene Editing and RNA Biology in Stem Cells, Bronx, NY
2020	Keystone Symposia – Gene Regulation: From Mechanisms to Disease, joint meeting with Cancer Epigenetics: New Mechanisms and Therapeutic Opportunities, Keystone, CO
2020	Keystone Symposia – Intra- and Intercellular Mechanisms of Aging, Vancouver, Canada
2020	(Virtual) Northwestern University - Proteostasis Consortium Seminar Series – Working to solve aging and neurodegenerative disease, Evanston, IL
2020	(Virtual) Aging Science Talks – The African killifish – a vertebrate model to study aging and ‘suspended animation’
2020	(Virtual) Baylor College of Medicine – MCB Seminar Series, Houston, TX
2020	(Virtual) MIT Aging Brain Symposium – Cellular & Molecular Mechanisms of Neurodegeneration, Cambridge, MA
2020	(Virtual) Cold Spring Harbor Laboratory – Mechanisms of Aging, Cold Spring Harbor, NY
2020	Los Altos Hills Conference – Tackling Biology's Final Frontier, Los Altos Hills, CA
2020	(Virtual) Oregon Health and Science University – Epigenetics Symposium, Portland, OR

- 2020 (Virtual) Cedars-Sinai – Center for Neural Science and Medicine Seminar, Los Angeles, CA
- 2020 (Virtual) MRC Laboratory of Molecular Biology – LMB Seminar, Cambridge, England, UK
- 2020 (Virtual) GSA Annual Scientific Meeting – Turning 75: Why Age Matters, Philadelphia, Pennsylvania
- 2020 (Virtual) Genentech – Neuroscience Department, South San Francisco, CA

2021

- 2021 (Virtual) UCSF Biomedical Sciences Seminar, San Francisco, CA
- 2021 (Virtual) Inserm Conference, Paris, France
- 2021 (Virtual) NYU School of Medicine, Kimmel Center of Stem Cell Biology, New York, NY
- 2021 (Virtual) Northeastern Biology Colloquium, Boston, MA
- 2021 (Virtual) UCSD – Biomedical Sciences Program, San Diego, CA
- 2021 (Virtual) Calico Life Sciences, South San Francisco, CA
- 2021 (Virtual) Memorial Sloan Kettering Cancer Center – MSK Kravis Women in Science Symposium, New York, NY
- 2021 (Virtual) University of Wisconsin-Madison – Molecular and Cellular Pharmacology Seminar, Madison, WI
- 2021 (Virtual) University of Massachusetts, Worcester, MA
- 2021 **Named Lecture** - (Virtual) NIH Florence Mahoney Lecture on Aging, Bethesda, MD
- 2021 (Virtual) Stanford Distinguished Careers Institute Colloquium, Stanford, CA
- 2021 **Keynote Lecture** - (Virtual) Harvard Stem Cell Institute, Cambridge, MA
- 2021 (Virtual) Cold Spring Harbor Laboratory – Cellular Dynamics and Models, Cold Spring Harbor, NY
- 2021 (Virtual) Cold Spring Harbor Laboratory – Biological Time Keeping, Cold Spring Harbor, NY
- 2021 (Virtual) Keystone Symposia - Molecular and Cellular Biology, Denver, CO
- 2021 (Virtual) Pezcoller Symposium – Aging and Cancer, Trento, Italy
- 2021 (Virtual) International Society for Stem Cell Research, Hamburg, Germany
- 2021 Aging Research and Drug Discovery Conference (ARDD), Copenhagen, Denmark
- 2021 (Virtual) Center for Molecular Medicine Cologne Symposium (CMMC) – 25 Years of Progress in Molecular Medicine: From Basic Research to Clinical Application, Cologne, Germany
- 2021 (Virtual) Genentech – Journeys in Science Seminar, South San Francisco, CA
- 2021 (Virtual) Cold Spring Harbor Laboratory – Mechanisms of Metabolic Signaling, Cold Spring Harbor, NY
- 2021 (Virtual) University of Pennsylvania – Institute for Regenerative Medicine Symposium, Philadelphia, PA
- 2021 (Virtual) University of Cambridge – Department of Physiology, Development and Neuroscience Seminar, Cambridge, United Kingdom

- 2021 **Keynote Lecture** - (Virtual) EMBO|EMBL Symposium – Metabolism Meets Epigenetics, Heidelberg, Germany
- 2021 (Virtual) University of Pennsylvania – Developmental, Stem Cell, and Regenerative Biology, Philadelphia, PA
- 2021 (Virtual) Fritz Lipmann Institute Seminar, Jena, Germany

2022

- 2022 (Virtual) University of Washington, Seattle, WA
- 2022 Harvard Medical School – Cell Biology Seminar Series, Boston, MA
- 2022 (Virtual) University of Toronto – Medicine by Design Global Speaker Series, Toronto, Canada
- 2022 Monte Verità Conference – Neurogenesis from Development to Adulthood in Health and Disease, Monte Verità, Ascona, Switzerland
- 2022 Euro-Geroscience Conference, Toulouse, France
- 2022 (Virtual) Keystone Symposia – Cancer: Aging in the Driver's Seat, Snowbird, UT
- 2022 Cell Symposia – Metabolites in Signaling and Disease, Lisbon, Portugal
- 2022 Fusion Conference – Epigenetics: From Mechanisms to Disease, Cancun, Mexico
- 2022 EMBO Workshop – Developmental Circuits in Aging, Heraklion, Greece
- 2022 Keystone Symposia – Tissue Fibrosis and Repair: Mechanisms, Human Disease and Therapies, Keystone, CO
- 2022 University of Wisconsin-Madison – Metabolism, Aging, Pathogenesis, and Stress in *C. elegans*, Madison, WI
- 2022 FASEB Meeting – Transcription, Chromatin and Epigenetics in Aging, Sicily, Italy
- 2022 Nobel Minisymposium No. 59 – From models towards regenerative therapies – Nobel Forum, Stockholm, Sweden
- 2022 2nd StratRegen Conference – Stem cells, regeneration biology and regenerative medicine, Stockholm, Sweden
- 2022 **Keynote Lecture** – UCSF Developmental and Stem Cell Biology Retreat –Santa Cruz, CA
- 2022 (Virtual) St. Jude Children's Research Hospital – Danny Thomas Lecture Series, Memphis, TN 38105
- 2022 Miami Epigenetics and Cancer Symposium, Miami Beach, FL
- 2022 (Virtual) Institute of Molecular Biology Seminar, Mainz, Germany

2023

- 2023 The Rockefeller University – Harvey Society Lecture, New York City, NY
- 2023 UCLA Stem Cell Symposium – Back to Basics: Understanding Tissue Stem Cells, Los Angeles, CA
- 2023 Keystone Symposia – Stem Cells: Advances in the Application of Stem Cells and Their Role in vivo, Keystone, CO
- 2023 University of Southern California – Multidisciplinary Research in Gerontology Colloquium, Los Angeles, CA
- 2023 UCSF Gladstone Institute of Neurological Disease – Neuroscience Seminar, San Francisco, CA

2023	Keynote Lecture – Keystone Symposia Joint Meetings - Mitochondrial Dysfunction: From Ultra-Rare Disease to Aging; and Molecular Basis of Healthy Aging, Breckenridge, CO
2023	Princeton University – Butler Seminar, Princeton, NJ
2023	(Virtual) Foundation for National Institutes of Health (FNIH) – The New York Academy of Sciences, New York, NY
2023	Federation of European Neuroscience Societies (FENS) – Establishment and Maintenance of Brain Cell States, Rungstedgaard, Denmark
2023	Pfizer Frontiers in Human Disease Symposium – Biology of Aging and Age-Related Human Disease, La Jolla, CA
2023	Gordon Research Conference – Stem Cells and Cancer - Strategies for Controlling Development, Tissue Homeostasis and Cancer, Tuscany, Italy
2023	The Paul F. Glenn/AFAR Conference on the Biology of Aging, Santa Barbara, CA
2023	EMBO EMBL Symposium – The Ageing genome: from mechanisms to disease, Heidelberg, Germany
2023	Keynote Lecture - Gordon Research Conference – Evolving Concepts of Organismal Aging, Barcelona, Spain
2023	Marine Biological Laboratory – Biology of Aging Course Lecture, Woods Hole, MA
2023	Keynote Lecture - Kern Lipid Conference – Lipids in aging, lifespan and age-related diseases, Vail, CO
2023	Aging Research and Drug Discovery Meeting (ARDD), Copenhagen, Denmark
2023	Max Planck Institute for Biology of Ageing – Farewell Symposium for Linda Partridge, Cologne, Germany
2023	Keynote Lecture - Yale University – Yale Center for Research on Aging Symposium, New Haven, CT
2023	UC San Diego – Division of Regenerative Medicine Seminar, La Jolla, CA
2024	
2024	Fusion Conference – 3 rd Neurogenesis Conference, Cancun, Mexico
2024	Named Lecture - Harvard Joslin Diabetes Center – Ray and Robert Kroc Lectureship on Diabetes, Boston, MA
2024	UCSF – The Basic Science Seminar in Biochemistry, San Francisco, CA
2024	UT Southwestern Medical Center – University Lecture Series, Dallas, TX
2024	Washington University in St. Louis – Brain Immunology and Glia Seminar, St. Louis, MO
2024	MIT – Biology Colloquium Series, Cambridge, MA
2024	EMBO Workshop – Developmental Circuits in Aging, Nice, France
2024	École Normale Supérieure – Biology Department, Paris, France
2024	Collège de France – Interdisciplinary Center for Biology Research, Paris, France
2024	Institut Curie – Tumor Biology and Immunology, Paris, France
2024	Keynote Lecture – (Virtual) University of Washington Nathan Shock Center of Excellence in Basic Biology of Aging, Seattle, WA

2024 Gordon Research Conference – Systems Aging, Barcelona, Spain
 2024 University of Wisconsin-Madison – Metabolism, Aging, Pathogenesis, Stress and Small RNAs in *C. elegans*, Madison, WI
 2024 Simons Foundation – SCPAB Workshop, New York, NY
 2024 Calico Life Sciences – Women’s Forum Fireside Chat, South San Francisco, CA
 2024 FASEB Science Research Conference – Cellular and Molecular Mechanisms of Brain Aging”, Niagara Falls, NY
 2024 **Keynote Lecture** - FASEB Science Research Conference – Transcription, Chromatin, and Epigenetics in Aging, Melbourne, FL
 2024 Washington University in St. Louis – 2024 ReThink Neuroimmunology Symposium, St. Louis, MO
 2024 Fusion Conference – From Mechanisms to Disease, St. Julians, Malta
 2024 **Keynote Lecture** - Chan Zuckerberg Biohub SF Inter-lab Confab, San Francisco, CA
 2024 Simons Collaboration on Plasticity and the Aging Brain Annual Meeting, New York, NY
 2024 Salk Institute – AHA-Allen External Advisory Board Meeting, La Jolla, CA

2025

2025 Baylor College of Medicine – Molecular and Human Genetics Seminar Series, Houston, TX
 2025 **Keynote Lecture** – Keystone Symposia – Aging: New Frontiers in Rejuvenation and Gerotherapeutics, Breckenridge, CO
 2025 NYU Langone Health – Laura and Isaac Perlmutter Cancer Center Research Seminar, New York, NY
 2025 **Keynote Lecture** – Fox Chase Cancer Center – Cancer Epigenetics Institute Symposium, Philadelphia, PA
 2025 Ecole Polytechnique Fédérale de Lausanne (EPFL) – BMI Distinguished Seminar, Lausanne, Switzerland
 2025 EMBO Workshop – Developmental timing across species: From mechanisms to evolutionary insights, Paris, France
 2025 89th Cold Spring Harbor Laboratory Symposium on Quantitative Biology – Senescence & Aging, Cold Spring Harbor, NY
 2025 The Annual Harvard/Paul F. Glenn Symposium on Aging, Boston, MA
 2025 UCLA – Department of Biological Chemistry, Los Angeles, CA
 2025 **Keynote Lecture** – Gordon Research Conference – Stress Proteins in Growth, Development and Disease, Newry, ME
 2025 Buck Institute for Research on Aging – Summer Training Course in Experimental Aging Research, Novato, CA
 2025 Fusion Conference – Neuroepigenetics and Neuroepitranscriptomics, St. Julian’s, Malta
 2025 Fusion Conference – Interventions in Aging, St. Julian’s, Malta
 2025 Stanford University – Center for Neural Data Science Inaugural Symposium, Stanford, CA
 2025 Yale University – Neuroscience Seminar, New Haven, CT
 2025 **Keynote Lecture** - Côte d’Azur University – 50th Anniversary Symposium, Nice, France

2026

2026	(Virtual) Northwestern University – Proteostasis Consortium Seminar, Evanston, IL
2026	Stanford University – Silicon Valley Applied Longevity Translation Symposium (SALTS), Stanford, CA
2026	University of Pennsylvania – Ralph L. Brinster Symposium and Elaine Redding Brinster Prize Ceremony, Philadelphia, PA
2026	Keystone Symposia – Immune Function and Organ Health, Banff, AB, Canada
2026	Monte Verità Conference – Neurogenesis from Development to Adulthood in Health and Disease, Monte Verità, Ascona, Switzerland
2026	Columbia University – Neuroscience Seminar, New York, NY
2026	EMBO Workshop – Brain (epi)genome, Heidelberg, Germany
2026	Knight Initiative Spring Symposium, Stanford, CA
2026	IHU HealthAge Workshop, Paris, France
2026	Paris Summit on Healthy Longevity, Paris, France
2026	Curie Institute, Research Center - Seminar Series, Paris, France
2026	The Paul F. Glenn/AFAR Conference on the Biology of Aging and Glenn Workshop, Santa Barbara, CA
2026	Stanford University – Regenerative Medicine Seminar Series (ReMS), Stanford, CA
2026	Chan Zuckerberg Biohub, San Francisco, CA
2026	Prague Metabolism and Signaling Symposium, Prague, Czech Republic

Research Support**Current Research Support**

2020-2026	Simons Foundation Title: Conserved regulatory pathways in age-related loss of plasticity and cognitive function Role: PI
2020-2026	Simons Foundation Title: Glial mechanisms by which sleep preserves cognitive function and plasticity in aging Role: PI
2021-2026	NIH R01 Sponsor: NIH Title: T cells in the aging brain Role: PI
2022-2027	Chan Zuckerberg Biohub Investigator Title: Develop the killifish as a platform to study complex organisms through life at scale Role: PI
2023-2028	NOMIS Foundation

	Title: Organ Synchronization in Aging and Suspended Animation Role: PI
2025-2026	Glenn Foundation for Medical Research The Paul F. Glenn Center for Biology of Aging Research at Stanford Title: Mechanisms of Damage Prevention and Repair for Longevity Role: Director
2024-2029	NIH P01 Sponsor: University of California, Los Angeles/NIH Title: Metabolic and epigenomic regulation of aging neural stem cells Role: PI
2024-2026	Wu Tsai Neurosciences Institute Title: Machine learning to model and boost brain repair and resilience during aging Role: Co-PI
2025-2027	Wu Tsai Human Performance Alliance Title: Aging-related impairments in bone healing and enhancing recovery in aged models Role: Collaborator
2023-2027	Wu Tsai Neurosciences Institute Title: Predicting and promoting resilient brain aging trajectories Role: PI
2025-2027	Chan Zuckerberg Initiative Title: Spatial Brain Aging Role: PI
2025-2030	NIH DP1 Sponsor: NIH Title: Peripheral nervous system aging Role: PI
2026-2030	NIH R01 Sponsor: NIH Title: The brain as a control center for other organs during aging Role: PI

Past Research Support

2005-2007	Pfizer/AFAR Innovation in Aging Research Award Sponsor: Pfizer/American Foundation for Aging Research Title: Role of FOXO Transcription Factors In Mammalian Longevity Role: PI
2005-2008	Klingenstein Fellowship Award in Neuroscience Sponsor: Klingenstein Fund

	Title: Role of the FOXO Family of Forkhead Transcription Factors In the Nervous System Role: PI
2006-2008	Fellowship Award Brain Tumor Society Sponsor: Brain Tumor Society Title: Defining the role of Foxo transcription factors and Sirt1 deacetylase in suppressing glioblastoma Role: PI
2006-2008	Sloan Research Fellowship Sponsor: Alfred P. Sloan Foundation Title: Does the Nervous System Regulate Overall Longevity? Role: PI
2006-2008	Investigator-initiated Research Grant Sponsor: American Institute for Cancer Research Title: AMPK: a mediator of caloric restriction's ability to suppress cancer Role: PI
2007-2009	Paul Glenn Foundation Award Sponsor: Paul Glenn Foundation Role: PI
2007-2009	McCormick Award Sponsor: McCormick Foundation Title: Defining the interaction between FOXO and the tumor suppressor p53 in cells and in mice Role: PI
2008-2010	NIH R21 AG030464 Sponsor: NIH (NIA) Title: An unbiased search for genes underlying longevity in a short-lived fish model Role: PI
2005-2010	NIH R01 AG026648 Sponsor: NIH (NIA) Title: Forkhead transcription factors in the stress response Role: PI
2009-2011	Investigator Award Sponsor: NARSAD Title: Role of FOXO6 in cognitive function and mood regulation during aging Role: PI
2012-2013	SINTN Seed Grant Funding Title: Circuit-level understanding of age-dependent decline in

	hippocampal memory Role: Co-Investigator with Mark Schnitzer
2009-2013	Ellison Senior Scholar Award Sponsor: Ellison Medical Foundation Title: Role of Longevity Genes in Reprogramming Somatic Cells into Pluripotent Stem Cells Role: PI
2008-2013	California Institute of Regenerative Medicine New Faculty Award Sponsor: CIRM Title: Molecular mechanisms involved in adult neural stem cell maintenance Role: PI
2011-2016	NIH P01 Sponsor: NIH (NIA) Title of project: Mechanisms of neural stem cell regulation during aging Title of core: Genomics and ultra high throughput sequencing Role: Co-Investigator (PI: Tom Rando)
2011-2016	NIH P01 Sponsor: NIH Title: Effect of age and longevity genes on epigenomic mechanisms of reprogramming Role: Co-Investigator with Joseph Wu (PI: Mike Snyder)
2013-2016	Basic Biology Award Sponsor: CIRM Title: Energy metabolism and aging pathways in human stem cell reprogramming and differentiation Role: PI
2011-2017	NIH P01 Sponsor: NIH Title: Molecular Regulation of Stem Cell Aging Role: Co-PI
2009-2017	NIH R56 Sponsor: NIH Title: Molecular Mechanisms Underlying Lifespan Extension by Environmental Stimuli Role: PI
2012-2017	Pioneer Award Sponsor: NIH Director's Fund Title: Transgenerational epigenetic inheritance of longevity Role: PI
2017-2019	Zaffaroni Alzheimer's Research Fund Title: Developing the African killifish as a new system to model the age-

dependency, genetics, and spread of Alzheimer's disease.
Role: Co-PI

2017-2022	NIH P01 Sponsor: NIH Title: Molecular Regulation of Stem Cell Aging Role: Co-PI
2021-2022	Wu Tsai Neurosciences Institute Stanford University Research Award Role: PI
2016-2022	NIH R01 Sponsor: NIH Title: Link between epigenetic modifiers and fat metabolism for healthy aging Role: PI
2017-2022	Stanford Neurosciences Institute (SNI) University Research Award Stanford Brain Rejuvenation Project Phase II Role: Co-I
2017-2022	NIH RF1 Sponsor: NIH Title: Discovery of protein aggregates during vertebrate aging and neurodegeneration Role: PI
2017-2023	NIH R01 Sponsor: NIH Title: Proteostasis in the aging brain Role: PI
2020-2022	Chan Zuckerberg Initiative Title: Single cell analysis of aging brain and microbiome Role: PI
2021-2023	Stanford ChEM-H Title: Drug discovery for aggregate prevention in multi-tissue aging and age-related diseases Role: Co-I
2020-2023	Silicon Valley Community Foundation (Chan Zuckerberg) Title: Single cell analysis of aging brain and microbiome Role: PI
2018-2024	NIH TR01 Sponsor: NIH Title: Brain-wide screen for a neural pacemaker of aging Role: Co-PI

2022-2024	NIH P01 Sponsor: NIH Title: Molecular Regulation of Stem Cell Aging Role: Project Lead
2021-2025	Milky Way Research Foundation Title: Reprogramming of aging Role: PI
2023-2025	Knight Initiative for Brain Resilience, Wu Tsai Neurosciences Institute Title: Manipulating inflammation in the aging brain to promote brain resilience Role: Co-PI
2024-2025	Chan Zuckerberg Institute Title: Quantifying spatial brain aging and rejuvenation at single-cell resolution Role: PI
2023-2026	Wu Tsai Neurosciences Institute Title: Manipulating inflammation in the aging brain to promote brain resilience Role: Co-PI

Training and Mentoring

Students

Eric Greer (Cancer Biology) – PhD – Present position: **Associate Professor**, Washington University, USA

Daniel Calnan (Cancer Biology) – PhD – Present position: Neurosurgeon, Co-Director of the Stroke Center. The Stroke and Brain Aneurysm Center of Long Island, USA

Victoria Rafalski (Neurosciences) – PhD – Present position: Principal Research Scientist, AbbVie, USA

Max Banko (Genetics) – PhD – Present position: Associate, Patent Prosecution, Morrison & Foerster LLP, USA

Elizabeth Pollina (Cancer Biology) – PhD – Present position: **Assistant Professor**, Washington University, USA

Dena Leeman (Cancer Biology) – PhD – Present position: Principal Scientist and Group Leader, Scribe Therapeutics, USA

Shuo Han (Genetics) – PhD – Present position: **Assistant Professor**, Duke University School of Medicine, USA

Bethany Schaffer (Cancer Biology) – PhD – Present position: Scientist II at Volestra Therapeutics, USA

Jana Lim (Neurosciences) – PhD – Present position: Director of Global Strategy & Business Services at UCLA Health, USA

Aaron Daugherty (Genetics) – PhD – Present position: Director Computational Biology, BridgeBio, USA

Ben Dulken (MSTP), Stem Cell Biology & Regenerative Medicine) – PhD – Present position: **Assistant Professor**, University of Washington, Seattle

Andrew McKay (Biology) – PhD – Present position: Principal Computational Researcher, Genentech, USA
Robin Yeo (Genetics) – PhD – Present position: Head of Biological Data Science, Epic Bio, USA
Matthew Buckley (Genetics) – PhD – Present position: Co-founder, Stealth Mode Biotech, USA
Adam Reeves (Genetics) – PhD – Present position: Bioinformatician Scientist/Senior Scientist, Juniper Genomics
Lucy Xu (Biology) – PhD – Present position: Postdoctoral Fellow, Greenberg Lab, Harvard Medical School
Olivia Zhou (MSTP) – PhD – Present position: Resident, Stanford Medical School
Eric Sun (BMI) – PhD – Present position: **Assistant Professor**, MIT, USA
Rahul Nagvekar (Genetics) – Present position: Postdoctoral fellow, Brunet Lab, Stanford University

Angela Pogson (Developmental Biology) – in training
Jeeyoon Na (Stem Cell) – in training
Brandon Ameglio (BioPhysics) – in training
Jason Yang (Genetics) – in training
Oswaldo Martinez (Genetics) – in training
Jacob Fyda (Genetics) – in training

Post-doctoral fellows

Dervis Salih – PhD – Present position: **Senior Research Associate UK**, Dementia Research Institute, University College London, UK
Valérie Renault – PhD – Present position: Research Scientist, Research Institute on Cancer and Aging, France (deceased)
Dario Valenzano – PhD – Present position: **Senior Group Leader, Director**, Leibniz Institute on Aging, Jena, Germany
Ashley Webb – PhD – Present position: **Associate Professor**, Buck Institute, USA
Travis Maures – PhD – Present position: Co-founder and Chief Scientific Officer, EditCo Bio, USA
Duygu Ucar – PhD – Present position: **Professor**, JAX Genomics, USA
Elena Mancini – PhD – Present position: Project Manager, Geistlich Pharma AG, Switzerland
Elizabeth Schroeder (Noblin) – PhD – Present position: Senior Science Officer, California Institute of Regenerative Medicine, USA
Katja Hebestreit – PhD – Present position: Head of Discovery Genomics, BioMarin Pharmaceuticals Inc., USA
Bérénice Benayoun – PhD – Present position: **Associate Professor**, University of Southern California, USA
Itamar Harel – PhD – Present position: **Associate Professor**, University of Jerusalem, Israel
Salah Mahmoudi – PhD – Present position: Co-founder and CEO, ReneuBio, USA
Brittany Demmitt – PhD – Present position: **Tenure Track Faculty**, Santa Rosa Junior College, USA
Chi-Kuo Hu – PhD – Present position: **Assistant Professor**, Stony Brook University, New York, USA
Lauren Booth – PhD – Present position: Principal Scientist, Calico Life Sciences, USA
Param Priya Singh – PhD – Present position: **Assistant Professor**, UCSF, USA
Tyson Ruetz – PhD – Present position: Senior Scientist, AbCellera, Canada, Co-founder ReneuBio, USA
Xiaoai Zhao – PhD – Present position: **Assistant Professor**, Yale University, USA

Katharina Papsdorf – PhD – Present position: **Group Leader**, Institute for Molecular Biology, Mainz, Germany

Paloma Navarro – PhD – **Assistant Professor**, EPFL, Switzerland

Blake Laham – PhD – Founder at CiteNote, Philadelphia, PA, USA

Claire Bedbrook – PhD – Upcoming position: **Assistant Professor**, Princeton University, USA

Ravi Nath – PhD – Upcoming position: **Assistant Professor**, Princeton University, USA

Jason Miklas – PhD – Upcoming position: **Assistant Professor**, University of Sydney, Australia

Jingxun Chen – PhD – in training

Felix Boos – PhD – in training

Daniel Heinzer – PhD – in training

Daniel Richard – PhD – in training

Nimrod Rappoport – PhD – in training

Giulia Notarangelo – PhD – in training

Gina Wade – PhD – in training

Publications

Peer-Reviewed Journal Articles

1. Lenormand P, Sardet C, Pagès G, L'Allemain G, **Brunet A** and Pouyssegur J (1994) Growth factors induce nuclear translocation of MAP kinases (p42mapk and p44mapk) but not their activator MAP kinase kinase (p45mapkk) in fibroblasts. *J Cell Biol*, 122: 1079-1088.
2. Pagès G*, **Brunet A***, L'Allemain G and Pouyssegur J (1994) Constitutive mutant and putative regulatory serine phosphorylation site of mammalian MAP kinase kinase (MEK1). *EMBO J*, 13: 3003-3010. *: both authors have contributed equally to the work.
3. **Brunet A**, Pagès G and Pouyssegur J (1994) Constitutively active mutants of MAP kinase kinase (MEK1) induce growth factor-relaxation and oncogenicity when expressed in fibroblasts. *Oncogene*, 9: 3379-3387.
4. **Brunet A***, Pagès G* and Pouyssegur J (1994) Growth factor-stimulated MAP kinase induces rapid retrophosphorylation and inhibition of MAP kinase kinase (MEK1). *FEBS Lett*, 346: 299-303. *: both authors have contributed equally to the work.
5. Papin C, Eychène A, **Brunet A**, Pagès G, Pouyssegur J, Calothy G and Barnier JV (1995) B-Raf protein isoforms interact with and phosphorylate MEK-1 on serine residues 218 and 222. *Oncogene*, 10: 1647-1651.
6. Pagès G, Stanley ER, Le Gall M, **Brunet A** and Pouyssegur J (1995) The mouse p44 mitogen-activated protein kinase (extracellular signal-regulated kinase 1) gene. *J Biol Chem*, 270: 26986-26992.
7. **Brunet A** and Pouyssegur J (1996) Identification of MAP kinase domains by re-directing stress signals into growth factor responses. *Science*, 272: 1652-1655.
8. Lavoie JN, L'Allemain G, **Brunet A**, Müller R and Pouyssegur J (1996) Cyclin D1 expression is regulated positively by the p42/p44MAPK and negatively by the p38/HOG MAPK pathway. *J Biol Chem*, 271: 20608-20616.
9. Brondello JM, **Brunet A**, Pouyssegur J and McKenzie FR (1997) The dual specificity Mitogen-activated protein kinase phosphatase-1 and -2 are induced by the p42/p44MAPK cascade. *J Biol Chem*, 272: 1368-1376.
10. Briant L, Robert-Hebmann V, Sivan V, **Brunet A**, Pouyssegur J and Devaux C (1998) Involvement of extracellular signal-regulated kinase module in HIV-mediated CD4 signals

controlling activation of nuclear factor-kappa B and AP-1 transcription factors. *J Immunol*, 160: 1875-1885.

11. Englaro W, Bertolotto C, Busca R, **Brunet A**, Pagès G, Ortonne J-P and Ballotti R (1998) Inhibition of the mitogen-activated protein kinase pathway triggers B16 melanoma cell differentiation. *J Biol Chem*, 273: 9966-9970.
12. Lenormand P, Brondello J-M, **Brunet A** and Pouyssegur J (1998) Growth factor-induced p42/p44 MAPK nuclear translocation and retention requires both MAPK activation and neosynthesis of nuclear anchored proteins. *J Cell Biol*, 142: 625-633.
13. **Brunet A**, Roux D, Lenormand P, Dowd S, Keyse S and Pouyssegur J (1999) Nuclear translocation of p42/p44 mitogen-activated protein kinase is required for growth factor-induced gene expression and cell cycle entry. *EMBO J*, 18: 664-674.
14. **Brunet A**, Bonni A, Zigmond MJ, Lin MZ, Juo P, Hu LS, Anderson MJ, Arden KC, Blenis J, Greenberg ME (1999) Akt promotes cell survival by phosphorylating and inhibiting a Forkhead transcription factor. *Cell*, 96: 857-868.
15. Bonni A, **Brunet A**, West AE, Datta SR, Takasu MA, Greenberg ME (1999) Cell survival promoted by the Ras-MAPK signaling pathway by transcription-dependent and transcription-independent mechanisms. *Science*, 286: 1358-1362.
16. Nichols A, Camps M, Gillieron C, Chabert C, **Brunet A**, Wilsbacher J, Cobb M, Pouyssegur J, Shaw JP, Arkinstall S (2000) Substrate recognition domains within extracellular signal-regulated kinase mediate binding and catalytic activation of mitogen-activated protein kinase phosphatase-3. *J Biol Chem*, 275: 24613-24621.
17. **Brunet A**, Park J, Tran H, Hu LS, Hemmings BA, Greenberg ME (2001) The protein kinase SGK mediates survival signals by phosphorylating the Forkhead transcription factor FKHRL1/FOXO3a. *Mol Cell Biol*, 21: 952-965.
18. Shin I, Bakin AV, Rodeck U, **Brunet A**, Arteaga CL (2001) Transforming growth factor beta enhances epithelial cell survival via Akt-dependent regulation of FKHRL1. *Mol Biol Cell*, 12: 3328-3339.
19. **Brunet A***, Kanai F*, Stehn J, Xu J, Sarbassova D, Frangioni D, Dala JV, DeCaprio JA, Greenberg ME and Yaffe MB (2002) 14-3-3 Transits to the Nucleus and Actively Participates in Dynamic Nucleo-Cytoplasmic Transport. *J Cell Biol*, 156: 817-828 *: both authors have contributed equally to the work.
20. Tran H*, **Brunet A***, Grenier JM, Datta SR, Fornace Jr AJ, DiStefano PS, Chiang LW and Greenberg ME (2002). DNA repair pathway stimulated by the Forkhead transcription factor FOXO3a (FKHRL1) through the GADD45 protein. *Science*, 296: 530-534. *both authors have contributed equally to the work.
21. Chou FL, Hill JM, Hsieh JC, Pouyssegur J, **Brunet A**, Glading A, Uberall F, Ramos JW, Werner MH and Ginsberg MH (2003) PEA-15 binding to ERK1/2 MAP kinases is required for its modulation of integrin activation. *J Biol Chem*, 278: 52587-52597.
22. **Brunet A**, Sweeney LB, Sturgill FJ, Chua KF, Greer PL, Lin Y, Tran H, Ross SE, Mostoslavsky R, Cohen H, Hu LS, Cheng H-L, Jedrychowsky M, Gygi SP, Sinclair DA, Alt FW, Greenberg ME (2004) Stress-Dependent Regulation of FOXO transcription factors by the SIRT1 Deacetylase. *Science*, 303: 2011-2015.
23. Greer EL, Dowlatabadi D, Banko MR, Hoang K, Blanchard D, and **Brunet A** (2007) An AMPK FOXO pathway mediates the extension of lifespan induced by a novel method of dietary restriction in *C. elegans*. *Curr Biol*, 17: 1646-1656.
24. Greer EL, Oskoui PR, Banko MR, Maniar JM, Gygi MP, Gygi SP, and **Brunet A** (2007) The energy sensor AMP-activated protein kinase directly regulates the mammalian FOXO3 transcription factor. *J Biol Chem*, 282: 30107-30119.

25. Greer EL and **Brunet A** (2009) Different dietary restriction regimens extend lifespan by both independent and overlapping genetic pathways in *C. elegans*. **Aging Cell**, 8: 113-127.
26. Renault VM, Rafalski VA, Morgan AA, Salih DAM, Brett JO, Webb AE, Villeda SA, Thekkat PU, Guillerey C, Denko NC, Palmer TD, Butte AJ, and **Brunet A** (2009) FoxO3 regulates neural stem cell homeostasis. **Cell Stem Cell**, 5: 527-539.
27. Valenzano DR, Kirschner J, Kamber RA, Zhang E, Weber D, Cellerino A, Englert C, Platzer M, Reichwald K and **Brunet A** (2009) Mapping loci associated with tail color and sex determination in the short-lived fish *Nothobranchius furzeri*. **Genetics**, 183: 1385-1395.
28. de la Torre-Ubieta L, Gaudillière B, Yang Y, Ikeuchi Y, Yamada T, DiBacco S, Stegmüller J, Schüller U, Salih DA, Rowitch D, **Brunet A** and Bonni A (2010) A FOXO-Pak1 transcriptional pathway controls neuronal polarity. **Genes & Dev**, 8: 799-813.
29. Greer EL, Maures TJ, Hauswirth AG, Green EM, Leeman DS, Maro, GS, Han S, Banko MR, Gozani O and **Brunet A** (2010) Members of the H3K4 trimethylation complex regulate lifespan in a germline-dependent manner in *C. elegans*. **Nature**, 466: 383-387.
30. Renault VM, Thekkat PU, Hoang KL, White JL, Brady CA, Kenzelmann Broz D, Venturelli OS, Johnson TM, Oskoui PR, Xuan Z, Santo EE, Zhang MQ, Vogel H, Attardi LD, **Brunet A** (2011) The pro-longevity gene FoxO3 is a target of the p53 tumor suppressor. **Oncogene**, 30: 3207-3221.
31. Brett JO, Renault VM, Rafalski VA, Webb AE and **Brunet A** (2011) The microRNA cluster miR-106b~25 regulates adult neural stem and progenitor cell proliferation and neuronal differentiation. **Aging**, 3: 108-124.
32. Arnold CP, Tan R, Zhou B, Yue SB, Schaffert S, Biggs JR, Doyonnas R, Lo MC, Perry JM, Renault VM, Sacco A, Somervaille T, Viatour P, **Brunet A**, Cleary ML, Li L, Sage J, Zhang DE, Blau HM, Chen C, and Chen CZ. (2011) MicroRNA programs in normal and aberrant stem and progenitor cells. **Genome Res**, 21: 798-810.
33. Maures TJ, Greer EL, Hauswirth AG, and **Brunet A** (2011) H3K27 demethylase UTX-1 regulates *C. elegans* lifespan in a germline-independent, insulin-dependent, manner. **Aging Cell**, 10: 980-990.
34. Greer EL, Maures TJ, Ucar D, Hauswirth AG, Mancini E, Lim JP, Benayoun BA, Shi Y and **Brunet A** (2011) Transgenerational epigenetic inheritance of longevity in *Caenorhabditis elegans*. **Nature**, 479: 365-371. **Full article**.
35. Banko MR, Allen JJ, Schaffer BE, Wilker EW, Tsou P, White JL, Villen J, Wang B, Kim SR, Sakamoto K, Gygi SP, Cantley LC, Yaffe MB, Shokat KM and **Brunet A** (2011) Chemical genetic screen for AMPK α 2 substrates uncovers a network of proteins involved in mitosis. **Mol Cell**, 44:878-892.
36. Valenzano DR, Sharp S and **Brunet A** (2011) Transposon-mediated transgenesis in the short-lived African killifish *Nothobranchius furzeri*, a vertebrate model for aging. **G3, Genes Genome Genetics**, 1: 531-538. **Cover article**.
37. Calnan DR, Webb AE, White JL, Stowe TR, Goswami T, Shi X, Espejo A, Bedford MT, Gozani O, Gygi SP, and **Brunet A** (2012) Methylation by Set9 modulates FoxO3 stability and transcriptional activity. **Aging**, 4: 462-79.
38. Salih DA, Rashid AJ, Colas D, de la Torre-Ubieta L, Zhu RP, Morgan, AA, Santo EE, Cole CJ, Madison DV, Shamloo M, Butte AJ, Bonni A, Josselyn SA and **Brunet A** (2012) FoxO6 regulates memory consolidation and synaptic function. **Genes & Dev**, 26: 2780-801.
39. Rafalski VA, Ho PO, Brett JO, Ucar D, Dugas JC, Pollina EA, Chow LML, Ibrahim A, Baker SJ, Barres BA, Steinman L, and **Brunet A** (2013) Expansion of oligodendrocyte progenitor cells upon SIRT1 inactivation in the adult brain. **Nat Cell Biol**, 15: 614-624. **Full article**.

40. Liu L, Cheung TH, Charville GW, Hurgu BM, Leavitt T, Shih J, **Brunet A**, and Rando TA (2013) Chromatin Modifications as Determinants of Muscle Stem Cell Quiescence and Chronological Aging. **Cell Rep**, 4: 189-204.
41. Webb AE, Pollina EA, Vierbuchen T, Urban N, Ucar D, Leeman D, Sewak M, Rando TA, Guillemot F, Wernig M, and **Brunet A** (2013) Genome-wide interaction between the pro-longevity factor FOXO3 and the neuronal determinant ASCL1 in adult neural stem/progenitor cells. **Cell Rep**, 4: 477-491.
42. Wapinski OL, Vierbuchen T, Qu K, Lee QY, Chanda S, Fuentes DR, Giresi PG, Ng YH, Marro S, Neff NF, Drechsel D, Martynoga B, Castro DS, Webb AE, Südhof TC, **Brunet A**, Guillemot F, Chang HY, Wernig M (2013) Hierarchical mechanisms for direct reprogramming of fibroblasts to neurons. **Cell**, 155: 621-635.
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