



Anne Brunet

Michele and Timothy Barakett Endowed Professor
Genetics

 Curriculum Vitae available Online

Bio

BIO

Dr. Brunet is interested in the molecular mechanisms of aging and longevity, with a particular emphasis on the nervous system. Her lab is interested in identifying pathways involved in delaying aging in response to external stimuli such as availability of nutrients and mates. She also seeks to understand the mechanisms that influence the rejuvenation of old stem cells. Finally, her lab has pioneered the naturally short-lived African killifish as a new model to explore the regulation of aging and age-related diseases.

ACADEMIC APPOINTMENTS

- Professor, Genetics
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Innovation in Aging Research Award, Pfizer/American Association for Aging Research (2005)
- Klingenstein Fellow, The Esther A. & Joseph Klingenstein Fund (2005)
- Alfred P. Sloan Fellow, Sloan Foundation (2006)
- Glenn Award, The Glenn Foundation for Medical Research (2007)
- Junior Investigator Award, California Institute for Regenerative Medicine (CIRM) (2008)
- New Investigator Award, NARSAD (2009)
- Senior Scholar Award, Ellison Medical Foundation (2009)
- Mentoring Award, Stanford University Post-doc Association (2010)
- Pioneer Award, NIH Director's Fund (2012)
- Vincent Cristofalo 'Rising Star in Aging Research' Award, American Federation for Aging Research (2012)
- Bennett J. Cohen Award for Research in Aging, University of Michigan (2014)

PROFESSIONAL EDUCATION

- B.Sc., Ecole Normale Supérieure, Paris, Molecular Biology (1992)
- Ph.D., University of Nice, France, Cell Biology (1997)
- Postdoctoral fellow, Harvard Medical School, Neuroscience (2003)

LINKS

- Brunet Lab Home Page: <http://www.stanford.edu/group/brunet/>
- Paul F. Glenn Laboratories for the Biology of Aging: <http://glennlaboratories.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The overarching goal of our lab is to understand the genetic mechanisms of aging and longevity. Aging is a highly plastic process regulated by a combination of genetic and environmental factors.

We have a long-standing interest in the genetic pathway that connects insulin to FOXO transcription factors, a central pathway to regulate lifespan from worms to humans. We use a combination of genetic, molecular, and cellular approaches to analyze the regulation and importance of FOXO transcription factors, and more generally 'longevity genes' in mammals. We are particularly interested in the role of longevity genes in the maintenance of the pool of adult neural stem cells and intact cognitive function during aging. We also use ultra-high throughput sequencing technologies to study epigenetic changes and transcriptional networks during aging.

In parallel, our goal is to identify novel 'longevity genes' using short-lived animal models. Our lab uses unbiased approaches in the nematode *C. elegans* to identify novel pathways that control organismal longevity, particularly in response to dietary restriction. We are particularly interested in the role of chromatin modifiers in the regulation of lifespan and metabolism.

Finally, we are developing the extremely short-lived African killifish *N. furzeri* as a new vertebrate model for aging studies. We are taking advantage of this fish to explore the genetic architecture of longevity in vertebrates.

Teaching

COURSES

2017-18

- Current Issues in Aging: GENE 221 (Spr)

2016-17

- Current Issues in Aging: GENE 221 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Edgar Campbell, Alex Colville, Zachary Harvey, Christopher Murray

Postdoctoral Faculty Sponsor

Brittany Demmitt, Jason Miklas, Ravi Nath, Paloma Navarro Negredo, Katharina Papsdorf, Tyson Ruetz

Doctoral Dissertation Advisor (AC)

Matthew Buckley, Benjamin Dulken, Andrew McKay, Adam Reeves, Lucy Xu, Robin Yeo

Orals Evaluator

Zachary Harvey

Doctoral (Program)

Andrew McKay, Lucy Xu

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Genetics (Phd Program)
- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **The Genetics of Aging: A Vertebrate Perspective.** *Cell*
Singh, P. P., Demmitt, B. A., Nath, R. D., Brunet, A.
2019; 177 (1): 200–220
- **Heterogeneity in old fibroblasts is linked to variability in reprogramming and wound healing.** *Nature*
Mahmoudi, S., Mancini, E., Xu, L., Moore, A., Jahanbani, F., Hebestreit, K., Srinivasan, R., Li, X., Devarajan, K., Prélot, L., Ang, C. E., Shibuya, Y., Benayoun, et al
2019; 574 (7779): 553–58
- **Turning back time with emerging rejuvenation strategies.** *Nature cell biology*
Mahmoudi, S., Xu, L., Brunet, A.
2019; 21 (1): 32–43
- **Single-cell analysis reveals T cell infiltration in old neurogenic niches.** *Nature*
Dulken, B. W., Buckley, M. T., Navarro Negredo, P., Saligrama, N., Cayrol, R., Leeman, D. S., George, B. M., Boutet, S. C., Hebestreit, K., Pluvinage, J. V., Wyss-Coray, T., Weissman, I. L., Vogel, et al
2019
- **The African turquoise killifish: A research organism to study vertebrate aging and diapause** *AGING CELL*
Hu, C., Brunet, A.
2018; 17 (3): e12757
- **Self-sperm induce resistance to the detrimental effects of sexual encounters with males in hermaphroditic nematodes.** *eLife*
Booth, L. N., Maures, T. J., Yeo, R. W., Tantilert, C., Brunet, A.
2019; 8
- **Remodeling of epigenome and transcriptome landscapes with aging in mice reveals widespread induction of inflammatory responses** *GENOME RESEARCH*
Benayoun, B. A., Pollina, E. A., Singh, P., Mahmoudi, S., Harel, I., Casey, K. M., Dulken, B. W., Kundaje, A., Brunet, A.
2019; 29 (4): 697–709
- **Cross-Platform Comparison of Untargeted and Targeted Lipidomics Approaches on Aging Mouse Plasma.** *Scientific reports*
Contrepois, K., Mahmoudi, S., Ubhi, B. K., Papsdorf, K., Hornburg, D., Brunet, A., Snyder, M.
2018; 8 (1): 17747
- **Linking Lipid Metabolism to Chromatin Regulation in Aging.** *Trends in cell biology*
Papsdorf, K., Brunet, A.
2018
- **Loss of CaMKI function disrupts salt aversive learning in C. elegans.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Lim, J. P., Fehlauer, H., Das, A., Saro, G., Glauser, D. A., Brunet, A., Goodman, M. B.
2018
- **Lysosome activation clears aggregates and enhances quiescent neural stem cell activation during aging** *SCIENCE*
Leeman, D. S., Hebestreit, K., Ruetz, T., Webb, A. E., McKay, A., Pollina, E. A., Dulken, B. W., Zhao, X., Yeo, R. W., Ho, T. T., Mahmoudi, S., Devarajan, K., Passegue, et al
2018; 359 (6381): 1277–82
- **The genome of Austrofundulus limnaeus offers insights into extreme vertebrate stress tolerance and embryonic development** *BMC GENOMICS*

- Wagner, J. T., Singh, P., Romney, A. L., Riggs, C. L., Minx, P., Woll, S. C., Roush, J., Warren, W. C., Brunet, A., Podrabsky, J. E.
2018; 19: 155
- **Same path, different beginnings** *NATURE NEUROSCIENCE*
Dulken, B. W., Brunet, A.
2018; 21 (2): 159–60
 - **Lysosome activation clears aggregates and enhances quiescent neural stem cell activation during aging** *Science*
Leeman, D. S., Hebestreit, K., Ruetz, T., Webb, A. E., McKay, A., Pollina, E. A., Dulken, B. W., Zhao, X., Yeo, R. W., Ho, T. T., Mahmoudi, S., Devarajan, K., Passequé, et al
2018: 1277-1283
 - **Chromatin accessibility dynamics reveal novel functional enhancers in *C. elegans*** *GENOME RESEARCH*
Daugherty, A. C., Yeo, R. W., Buenrostro, J. D., Greenleaf, W. J., Kundaje, A., Brunet, A.
2017; 27 (12): 2096–2107
 - **Progranulin, lysosomal regulation and neurodegenerative disease** *NATURE REVIEWS NEUROSCIENCE*
Kao, A. W., McKay, A., Singh, P. P., Brunet, A., Huang, E. J.
2017; 18 (6): 325-333
 - **AMPK α 1-LDH pathway regulates muscle stem cell self-renewal by controlling metabolic homeostasis.** *EMBO journal*
Theret, M., Gsaier, L., Schaffer, B., Juban, G., Ben Larbi, S., Weiss-Gayet, M., Bultot, L., Caterina, C., Foretz, M., Desplanches, D., Sanz, P., Zang, Z., Yang, et al
2017
 - **Mono-unsaturated fatty acids link H3K4me3 modifiers to *C. elegans* lifespan** *NATURE*
Han, S., Schroeder, E. A., Silva-Garica, C. G., Hebestreit, K., Mair, W. B., Brunet, A.
2017; 544 (7649): 185-?
 - **Understanding and modeling aging**
Brunet, A.
FEDERATION AMER SOC EXP BIOL.2017
 - **Interaction between epigenetic and metabolism in aging stem cells.** *Current opinion in cell biology*
Brunet, A., Rando, T. A.
2017; 45: 1-7
 - **Single-Cell Transcriptomic Analysis Defines Heterogeneity and Transcriptional Dynamics in the Adult Neural Stem Cell Lineage.** *Cell reports*
Dulken, B. W., Leeman, D. S., Boutet, S. C., Hebestreit, K., Brunet, A.
2017; 18 (3): 777-790
 - **Non-model model organisms.** *BMC biology*
Russell, J. J., Theriot, J. A., Sood, P., Marshall, W. F., Landweber, L. F., Fritz-Laylin, L., Polka, J. K., Oliferenko, S., Gerbich, T., Gladfelder, A., Umen, J., Bezanilla, M., Lancaster, et al
2017; 15 (1): 55
 - **Dynamic landscape and regulation of RNA editing in mammals.** *Nature*
Tan, M. H., Li, Q., Shanmugam, R., Piskol, R., Kohler, J., Young, A. N., Liu, K. I., Zhang, R., Ramaswami, G., Ariyoshi, K., Gupte, A., Keegan, L. P., George, et al
2017; 550 (7675): 249–54
 - **Bursts of Reprogramming: A Path to Extend Lifespan?** *CELL*
Mahmoudi, S., Brunet, A.
2016; 167 (7): 1672-1674
 - **Efficient genome engineering approaches for the short-lived African turquoise killifish.** *Nature protocols*
Harel, I., Valenzano, D. R., Brunet, A.
2016; 11 (10): 2010-2028
 - **Characterization of the direct targets of FOXO transcription factors throughout evolution.** *Aging cell*
Webb, A. E., Kundaje, A., Brunet, A.
2016; 15 (4): 673-685

- **FoxO3 regulates neuronal reprogramming of cells from postnatal and aging mice** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ahlenius, H., Chanda, S., Webb, A. E., Yousif, I., Karmazin, J., Prusiner, S. B., Brunet, A., Suedhof, T. C., Wernig, M.
2016; 113 (30): 8514-8519
- **The Aging Epigenome** *MOLECULAR CELL*
Booth, L. N., Brunet, A.
2016; 62 (5): 728-744
- **Deconstructing Dietary Restriction: A Case for Systems Approaches in Aging.** *Cell metabolism*
Yeo, R., Brunet, A.
2016; 23 (3): 395-396
- **AMPK: An Energy-Sensing Pathway with Multiple Inputs and Outputs** *TRENDS IN CELL BIOLOGY*
Hardie, D. G., Schaffer, B. E., Brunet, A.
2016; 26 (3): 190-201
- **The African Turquoise Killifish Genome Provides Insights into Evolution and Genetic Architecture of Lifespan** *CELL*
Valenzano, D. R., Benayoun, B. A., Singh, P. P., Zhang, E., Etter, P. D., Hu, C., Clement-Ziza, M., Willemsen, D., Cui, R., Harel, I., Machado, B. E., Yee, M., Sharp, et al
2015; 163 (6): 1539-1554
- **High telomerase is a hallmark of undifferentiated spermatogonia and is required for maintenance of male germline stem cells.** *Genes & development*
Pech, M. F., Garbuzov, A., Hasegawa, K., Sukhwani, M., Zhang, R. J., Benayoun, B. A., Brockman, S. A., Lin, S., Brunet, A., Orwig, K. E., Artandi, S. E.
2015; 29 (23): 2420-2434
- **Identification of AMPK Phosphorylation Sites Reveals a Network of Proteins Involved in Cell Invasion and Facilitates Large-Scale Substrate Prediction.** *Cell metabolism*
Schaffer, B. E., Levin, R. S., Hertz, N. T., Maures, T. J., Schoof, M. L., Hollstein, P. E., Benayoun, B. A., Banko, M. R., Shaw, R. J., Shokat, K. M., Brunet, A.
2015; 22 (5): 907-921
- **Lipid Profiles and Signals for Long Life** *TRENDS IN ENDOCRINOLOGY AND METABOLISM*
Schroeder, E. A., Brunet, A.
2015; 26 (11): 589-92
- **Epigenetic regulation of ageing: linking environmental inputs to genomic stability.** *Nature reviews. Molecular cell biology*
Benayoun, B. A., Pollina, E. A., Brunet, A.
2015; 16 (10): 593-610
- **A Fish in the Fountain of Youth** *CELL*
Brunet, A.
2015; 163 (1): 20
- **Shockingly Early: Chromatin-Mediated Loss of the Heat Shock Response.** *Molecular cell*
Booth, L. N., Brunet, A.
2015; 59 (4): 515-516
- **Encoding immortality: Transcriptional control of telomerase in stem cells in vivo**
Pech, M., Garbuzov, A., Sukhwani, M., Benayoun, B., Lin, S., Brunet, A., Orwig, K., Artandi, S. E.
AMER ASSOC CANCER RESEARCH.2015
- **AMP-Activated Protein Kinase Directly Phosphorylates and Destabilizes Hedgehog Pathway Transcription Factor GLI1 in Medulloblastoma.** *Cell reports*
Li, Y., Luo, J., Mosley, Y. C., Hedrick, V. E., Paul, L. N., Chang, J., Zhang, G., Wang, Y., Banko, M. R., Brunet, A., Kuang, S., Wu, J., Chang, et al
2015; 12 (4): 599-609
- **Stem Cell Aging and Sex: Are We Missing Something?** *Cell stem cell*
Dulken, B., Brunet, A.
2015; 16 (6): 588-590
- **A platform for rapid exploration of aging and diseases in a naturally short-lived vertebrate.** *Cell*

- Harel, I., Benayoun, B. A., Machado, B., Singh, P. P., Hu, C., Pech, M. F., Valenzano, D. R., Zhang, E., Sharp, S. C., Artandi, S. E., Brunet, A.
2015; 160 (5): 1013-1026
- **Inhibition of pluripotency networks by the rb tumor suppressor restricts reprogramming and tumorigenesis.** *Cell stem cell*
Kareta, M. S., Gorges, L. L., Hafeez, S., Benayoun, B. A., Marro, S., Zmoos, A., Cecchini, M. J., Spacek, D., Batista, L. F., O'Brien, M., Ng, Y., Ang, C. E., Vaka, et al
2015; 16 (1): 39-50
 - **Cell biology. Lysosomal lipid lengthens life span.** *Science*
Han, S., Brunet, A.
2015; 347 (6217): 32-33
 - **The African Turquoise Killifish: A Model for Exploring Vertebrate Aging and Diseases in the Fast Lane.** *Cold Spring Harbor symposia on quantitative biology*
Harel, I., Brunet, A.
2015; 80: 275-279
 - **Geroscience: Linking Aging to Chronic Disease** *CELL*
Kennedy, B. K., Berger, S. L., Brunet, A., Campisi, J., Cuervo, A., Epel, E. S., Franceschi, C., Lithgow, G. J., Morimoto, R. I., Pessin, J. E., Rando, T. A., Richardson, A., Schadt, et al
2014; 159 (4): 708-12
 - **H3K4me3 Breadth Is Linked to Cell Identity and Transcriptional Consistency.** *Cell*
Benayoun, B. A., Pollina, E. A., Ucar, D., Mahmoudi, S., Karra, K., Wong, E. D., Devarajan, K., Daugherty, A. C., Kundaje, A. B., Mancini, E., Hitz, B. C., Gupta, R., Rando, et al
2014; 158 (3): 673-688
 - **Epigenetics of Aging and Aging-related Disease** *JOURNALS OF GERONTOLOGY SERIES A-BIOLOGICAL SCIENCES AND MEDICAL SCIENCES*
Brunet, A., Berger, S. L.
2014; 69: S17-S20
 - **FOXO3 Promotes Quiescence in Adult Muscle Stem Cells during the Process of Self-Renewal.** *Stem cell reports*
Gopinath, S. D., Webb, A. E., Brunet, A., Rando, T. A.
2014; 2 (4): 414-426
 - **FOXO transcription factors: key regulators of cellular quality control** *TRENDS IN BIOCHEMICAL SCIENCES*
Webb, A. E., Brunet, A.
2014; 39 (4): 159-169
 - **Males Shorten the Life Span of C. elegans Hermaphrodites via Secreted Compounds** *SCIENCE*
Maures, T. J., Booth, L. N., Benayoun, B. A., Izrayelit, Y., Schroeder, F. C., Brunet, A.
2014; 343 (6170): 541-544
 - **Stem cells: Sex specificity in the blood.** *Nature*
Leeman, D. S., Brunet, A.
2014; 505 (7484): 488-490
 - **Longevity Pathways in Mammalian Stem Cells** *ANNUAL REVIEW OF GERONTOLOGY AND GERIATRICS, VOL 34: GENETICS*
Brunet, A., Mahmoudi, S., Mancini, E., Rafalski, V. A., Webb, A. E., Spratt, R. L.
2014; 34: 1-39
 - **Hierarchical Mechanisms for Direct Reprogramming of Fibroblasts to Neurons** *CELL*
Wapinski, O. L., Vierbuchen, T., Qu, K., Lee, Q. Y., Chanda, S., Fuentes, D. R., Giresi, P. G., Ng, Y. H., Marro, S., Neff, N. F., Drechsel, D., Martynoga, B., Castro, et al
2013; 155 (3): 621-635
 - **FOXO3 Shares Common Targets with ASCL1 Genome-wide and Inhibits ASCL1-Dependent Neurogenesis.** *Cell reports*
Webb, A. E., Pollina, E. A., Vierbuchen, T., Urbán, N., Ucar, D., Leeman, D. S., Martynoga, B., Sewak, M., Rando, T. A., Guillemot, F., Wernig, M., Brunet, A.
2013; 4 (3): 477-491
 - **Chromatin Modifications as Determinants of Muscle Stem Cell Quiescence and Chronological Aging** *CELL REPORTS*

- Liu, L., Cheung, T. H., Charville, G. W., Hurgo, B. M., Leavitt, T., Shih, J., Brunet, A., Rando, T. A.
2013; 4 (1): 189-204
- **Expansion of oligodendrocyte progenitor cells following SIRT1 inactivation in the adult brain.** *Nature cell biology*
Rafalski, V. A., Ho, P. P., Brett, J. O., Ucar, D., Dugas, J. C., Pollina, E. A., Chow, L. M., Ibrahim, A., Baker, S. J., Barres, B. A., Steinman, L., Brunet, A.
2013; 15 (6): 614-624
 - **FOXO flips the longevity SWItch.** *Nature cell biology*
Webb, A. E., Brunet, A.
2013; 15 (5): 444-446
 - **Bridging the transgenerational gap with epigenetic memory** *TRENDS IN GENETICS*
Lim, J. P., Brunet, A.
2013; 29 (3): 176-186
 - **FoxO6 regulates memory consolidation and synaptic function** *GENES & DEVELOPMENT*
Salih, D. A., Rashid, A. J., Colas, D., de la Torre-Ubieta, L., Zhu, R. P., Morgan, A. A., Santo, E. E., Ucar, D., Devarajan, K., Cole, C. J., Madison, D. V., Shamloo, M., Butte, et al
2012; 26 (24): 2780-2801
 - **Energy metabolism and energy-sensing pathways in mammalian embryonic and adult stem cell fate** *JOURNAL OF CELL SCIENCE*
Rafalski, V. A., Mancini, E., Brunet, A.
2012; 125 (23): 5597-5608
 - **Aging and reprogramming: a two-way street** *CURRENT OPINION IN CELL BIOLOGY*
Mahmoudi, S., Brunet, A.
2012; 24 (6): 744-756
 - **Methylation by Set9 modulates FoxO3 stability and transcriptional activity** *AGING-US*
Calnan, D. R., Webb, A. E., White, J. L., Stowe, T. R., Goswami, T., Shi, X., Espejo, A., Bedford, M. T., Gozani, O., Gygi, S. P., Brunet, A.
2012; 4 (7): 462-479
 - **Unbiased identification of novel AMPK substrates by chemical genetics**
Brunet, A.
FEDERATION AMER SOC EXP BIOL.2012
 - **Aging and the control of the insulin-FOXO signaling pathway** *M S-MEDECINE SCIENCES*
Brunet, A.
2012; 28 (3): 316-320
 - **Histone methylation makes its mark on longevity** *TRENDS IN CELL BIOLOGY*
Han, S., Brunet, A.
2012; 22 (1): 42-49
 - **Epigenetic memory of longevity in Caenorhabditis elegans.** *Worm*
Benayoun, B. A., Brunet, A.
2012; 1 (1): 77-81
 - **Chemical Genetic Screen for AMPK alpha 2 Substrates Uncovers a Network of Proteins Involved in Mitosis** *MOLECULAR CELL*
Banko, M. R., Allen, J. J., Schaffer, B. E., Wilker, E. W., Tsou, P., White, J. L., Villen, J., Wang, B., Kim, S. R., Sakamoto, K., Gygi, S. P., Cantley, L. C., Yaffe, et al
2011; 44 (6): 878-892
 - **Transposon-Mediated Transgenesis in the Short-Lived African Killifish *Nothobranchius furzeri*, a Vertebrate Model for Aging.** *G3 (Bethesda, Md.)*
Valenzano, D. R., Sharp, S., Brunet, A.
2011; 1 (7): 531-538
 - **Transposon-Mediated Transgenesis in the Short-Lived African Killifish *Nothobranchius furzeri*, a Vertebrate Model for Aging** *G3-GENES GENOMES GENETICS*
Valenzano, D. R., Sharp, S., Brunet, A.
2011; 1 (7): 531-538

- **The H3K27 demethylase UTX-1 regulates C. elegans lifespan in a germline-independent, insulin-dependent manner** *AGING CELL*
Maures, T. J., Greer, E. L., Hauswirth, A. G., Brunet, A.
2011; 10 (6): 980-990
- **Transgenerational epigenetic inheritance of longevity in Caenorhabditis elegans** *NATURE*
Greer, E. L., Maures, T. J., Ucar, D., Hauswirth, A. G., Mancini, E., Lim, J. P., Benayoun, B. A., Shi, Y., Brunet, A.
2011; 479 (7373): 365-U204
- **The pro-longevity gene FoxO3 is a direct target of the p53 tumor suppressor** *ONCOGENE*
Renault, V. M., Thekkat, P. U., Hoang, K. L., WHITE, J. L., Brady, C. A., Broz, D. K., Venturelli, O. S., Johnson, T. M., Oskoui, P. R., Xuan, Z., Santo, E. E., Zhang, M. Q., Vogel, et al
2011; 30 (29): 3207-3221
- **Epigenetic regulation of aging stem cells** *ONCOGENE*
Pollina, E. A., Brunet, A.
2011; 30 (28): 3105-3126
- **MicroRNA programs in normal and aberrant stem and progenitor cells** *GENOME RESEARCH*
Arnold, C. P., Tan, R., Zhou, B., Yue, S., Schaffert, S., Biggs, J. R., Doyonnas, R., Lo, M., Perry, J. M., Renault, V. M., Sacco, A., Somerville, T., Viatour, et al
2011; 21 (5): 798-810
- **A CRTCal Link between Energy and Life Span** *CELL METABOLISM*
Brunet, A.
2011; 13 (4): 358-360
- **Energy metabolism in adult neural stem cell fate** *PROGRESS IN NEUROBIOLOGY*
Rafalski, V. A., Brunet, A.
2011; 93 (2): 182-203
- **The MicroRNA Cluster miR-106b similar to 25 Regulates Adult Neural Stem/Progenitor Cell Proliferation and Neuronal Differentiation** *AGING-US*
Brett, J. O., Renault, V. M., Rafalski, V. A., Webb, A. E., Brunet, A.
2011; 3 (2): 108-124
- **Members of the H3K4 trimethylation complex regulate lifespan in a germline-dependent manner in C. elegans** *NATURE*
Greer, E. L., Maures, T. J., Hauswirth, A. G., Green, E. M., Leeman, D. S., Maro, G. S., Han, S., Banko, M. R., Gozani, O., Brunet, A.
2010; 466 (7304): 383-U137
- **A FOXO-Pak1 transcriptional pathway controls neuronal polarity** *GENES & DEVELOPMENT*
de la Torre-Ubieta, L., Gaudilliere, B., Yang, Y., Ikeuchi, Y., Yamada, T., DiBacco, S., Stegmuller, J., Schueller, U., Salih, D. A., Rowitch, D., Brunet, A., Bonni, A.
2010; 24 (8): 799-813
- **Mapping Loci Associated With Tail Color and Sex Determination in the Short-Lived Fish Nothobranchius furzeri** *GENETICS*
Valenzano, D. R., Kirschner, J., Kamber, R. A., Zhang, E., Weber, D., Cellerino, A., Englert, C., Platzer, M., Reichwald, K., Brunet, A.
2009; 183 (4): 1385-1395
- **FoxO3 Regulates Neural Stem Cell Homeostasis** *CELL STEM CELL*
Renault, V. M., Rafalski, V. A., Morgan, A. A., Salih, D. A., Brett, J. O., Webb, A. E., Villeda, S. A., Thekkat, P. U., Guillerey, C., Denko, N. C., Palmer, T. D., Bufta, A. J., Brunet, et al
2009; 5 (5): 527-539
- **CANCER When restriction is good** *NATURE*
Brunet, A.
2009; 458 (7239): 713-714
- **Different dietary restriction regimens extend lifespan by both independent and overlapping genetic pathways in C-elegans** *AGING CELL*
Greer, E. L., Brunet, A.
2009; 8 (2): 113-127
- **AMP-activated Protein Kinase and FoxO Transcription Factors in Dietary Restriction-induced Longevity** *15th International Symposium on Olfaction and Taste*

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- Greer, E. L., Banko, M. R., Brunet, A.
WILEY-BLACKWELL.2009: 688–692
- **Foxo Transcription Factors: Central Sensors of Environmental Stimuli that Regulate Longevity** *15th International Symposium on Olfaction and Taste*
Brunet, A., Greer, E. L., Banko, M. R.
OXFORD UNIV PRESS.2008: S20–S20
 - **The FoxO code** *ONCOGENE*
Calnan, D. R., Brunet, A.
2008; 27 (16): 2276-2288
 - **FoxO transcription factors in the maintenance of cellular homeostasis during aging** *CURRENT OPINION IN CELL BIOLOGY*
Salih, D. A., Brunet, A.
2008; 20 (2): 126-136
 - **Signaling networks in aging** *JOURNAL OF CELL SCIENCE*
Greer, E. L., Brunet, A.
2008; 121 (4): 407-412
 - **FOXO transcription factors in ageing and cancer** *10th International Symposium on Insulin Receptors and Insulin Action*
Greer, E. L., Brunet, A.
WILEY-BLACKWELL.2008: 19–28
 - **Ageing and cancer: killing two birds with one worm** *NATURE GENETICS*
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