# Marc Tatar

List of Publications by Year
in descending order



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|---|---|---|---|
| 104 papers | 18,050 citations | 38742 50 h-index | 30087 103 g-index |
| 113 all docs | 113 docs citations | 113 times ranked | 22735 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222. | 9.1 | 4,701 |
| 2 | Sirtuin activators mimic caloric restriction and delay ageing in metazoans. Nature, 2004, 430, 686-689. | 27.8 | 1,742 |
| 3 | A Mutant Drosophila Insulin Receptor Homolog That Extends Life-Span and Impairs Neuroendocrine Function. Science, 2001, 292, 107-110. | 12.6 | 1,500 |
| 4 | The Endocrine Regulation of Aging by Insulin-like Signals. Science, 2003, 299, 1346-1351. | 12.6 | 1,204 |
| 5 | Drosophila dFOXO controls lifespan and regulates insulin signalling in brain and fat body. Nature, 2004, 429, 562-566. | 27.8 | 873 |
| 6 | Hormonal pleiotropy and the juvenile hormone regulation ofDrosophila development and life history. BioEssays, 2005, 27, 999-1010. | 2.5 | 422 |
| 7 | Reproductive cessation in female mammals. Nature, 1998, 392, 807-811. | 27.8 | 367 |
| 8 | Chaperoning extended life. Nature, 1997, 390, 30-30. | 27.8 | 316 |
| 9 | Slow aging during insect reproductive diapause: why butterflies, grasshoppers and flies are like worms. Experimental Gerontology, 2001, 36, 723-738. | 2.8 | 298 |
| 10 | Insulin regulation of heart function in aging fruit flies. Nature Genetics, 2004, 36, 1275-1281. | 21.4 | 295 |
| 11 | Drosophila germ-line modulation of insulin signaling and lifespan. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6368-6373. | 7.1 | 260 |
| 12 | Drosophila insulinâ€like peptideâ€6 (dilp6) expression from fat body extends lifespan and represses secretion of Drosophila insulinâ€like peptideâ€2 from the brain. Aging Cell, 2012, 11, 978-985. | 6.7 | 225 |
| 13 | Hormonal regulation of the humoral innate immune response inDrosophila melanogaster. Journal of Experimental Biology, 2008, 211, 2712-2724. | 1.7 | 216 |
| 14 | Mutations in insulin signaling pathway alter juvenile hormone synthesis in Drosophila melanogaster. General and Comparative Endocrinology, 2005, 142, 347-356. | 1.8 | 215 |
| 15 | Drosophila short neuropeptide F signalling regulates growth by ERK-mediated insulin signalling. Nature Cell Biology, 2008, 10, 468-475. | 10.3 | 198 |
| 16 | Aging of the innate immune response in Drosophila melanogaster. Aging Cell, 2005, 4, 103-108. | 6.7 | 192 |
| 17 | The aging baboon: Comparative demography in a non-human primate. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9591-9595. | 7.1 | 181 |
| 18 | Drosophila lifespan control by dietary restriction independent of insulinâ€like signaling. Aging Cell, 2008, 7, 199-206. | 6.7 | 179 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Activin Signaling Targeted by Insulin/dFOXO Regulates Aging and Muscle Proteostasis in Drosophila. PLoS Genetics, 2013, 9, e1003941. | 3.5 | 172 |
| 20 | Age-Specific Patterns of Genetic Variance in Drosophila melanogaster. I. Mortality. Genetics, 1996, 143, 839-848. | 2.9 | 167 |
| 21 | Juvenile diet restriction and the aging and reproduction of adult Drosophila melanogaster. Aging Cell, 2003, 2, 327-333. | 6.7 | 161 |
| 22 | High-resolution dynamics of the transcriptional response to nutrition in Drosophila: a key role for dFOXO. Physiological Genomics, 2007, 29, 24-34. | 2.3 | 156 |
| 23 | Negligible Senescence during Reproductive Dormancy inDrosophila melanogaster. American Naturalist, 2001, 158, 248-258. | 2.1 | 145 |
| 24 | REPRODUCTIVE COSTS OF HEAT SHOCK PROTEIN IN TRANSGENIC DROSOPHILA MELANOGASTER. Evolution; International Journal of Organic Evolution, 2000, 54, 2038-2045. | 2.3 | 144 |
| 25 | Nutrition Mediates Reproductive Trade-Offs with Age-Specific Mortality in the Beetle Callosobruchus Maculatus. Ecology, 1995, 76, 2066-2073. | 3.2 | 131 |
| 26 | Restriction of amino acids extends lifespan in Drosophila melanogaster. Mechanisms of Ageing and Development, 2006, 127, 643-646. | 4.6 | 128 |
| 27 | Ecdysone triggered PGRP-LC expression controls Drosophila innate immunity. EMBO Journal, 2013, 32, 1626-1638. | 7.8 | 127 |
| 28 | Impaired ovarian ecdysone synthesis of Drosophila melanogaster insulin receptor mutants. Aging Cell, 2002, 1, 158-160. | 6.7 | 126 |
| 29 | Nutrient control of Drosophila longevity. Trends in Endocrinology and Metabolism, 2014, 25, 509-517. | 7.1 | 123 |
| 30 | Juvenile hormone regulation of Drosophila aging. BMC Biology, 2013, 11, 85. | 3.8 | 114 |
| 31 | Genetic Variation and Aging. Annual Review of Genetics, 1995, 29, 553-575. | 7.6 | 111 |
| 32 | Juvenile hormone regulation of longevity in the migratory monarch butterfly. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 2509-2514. | 2.6 | 111 |
| 33 | Age-Specific Patterns of Genetic Variance in Drosophila melanogaster. II. Fecundity and Its Genetic Covariance With Age-Specific Mortality. Genetics, 1996, 143, 849-858. | 2.9 | 109 |
| 34 | Minibrain/Dyrk1a Regulates Food Intake through the Sir2-FOXO-sNPF/NPY Pathway in Drosophila and Mammals. PLoS Genetics, 2012, 8, e1002857. | 3.5 | 107 |
| 35 | Mutation and senescence: where genetics and demography meet. Genetica, 1998, 102/103, 299-314. | 1.1 | 106 |
| 36 | LONG-TERM COST OF REPRODUCTION WITH AND WITHOUT ACCELERATED SENESCENCE INCALLOSOBRUCHUS MACULATUS:ANALYSIS OF AGE-SPECIFIC MORTALITY. Evolution; International Journal of Organic Evolution, 1993, 47, 1302-1312. | 2.3 | 102 |

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|---|---|---|---|
| 37 | The demography of slow aging in male and femaleDrosophilamutant for the insulinâ€receptor substrate homologuechico. Aging Cell, 2002, 1, 75-80. | 6.7 | 102 |
| 38 | Counting calories in Drosophila diet restriction. Experimental Gerontology, 2007, 42, 247-251. | 2.8 | 88 |
| 39 | Hormonal regulation of Drosophila microRNA let-7 and miR-125 that target innate immunity. Fly, 2010, 4, 306-311. | 1.7 | 87 |
| 40 | Quantitative Trait Loci Affecting Phenotypic Plasticity and the Allometric Relationship of Ovariole Number and Thorax Length in Drosophila melanogaster. Genetics, 2008, 180, 567-582. | 2.9 | 82 |
| 41 | Altitudinal variation for senescence in Melanoplus grasshoppers. Oecologia, 1997, 111, 357-364. | 2.0 | 78 |
| 42 | The plate half-full: Status of research on the mechanisms of dietary restriction in Drosophila melanogaster. Experimental Gerontology, 2011, 46, 363-368. | 2.8 | 75 |
| 43 | Use of stable isotopes to examine how dietary restriction extends Drosophila lifespan. Current Biology, 2008, 18, R155-R156. | 3.9 | 73 |
| 44 | Drosophila diet restriction in practice: Do flies consume fewer nutrients?. Mechanisms of Ageing and Development, 2006, 127, 93-96. | 4.6 | 72 |
| 45 | Drosophila Insulin-Like Peptides DILP2 and DILP5 Differentially Stimulate Cell Signaling and Glycogen Phosphorylase to Regulate Longevity. Frontiers in Endocrinology, 2018, 9, 245. | 3.5 | 72 |
| 46 | Reduced Polymorphism in the Chimpanzee Semen Coagulating Protein, Semenogelin I. Journal of Molecular Evolution, 2003, 57, 159-169. | 1.8 | 66 |
| 47 | Dietary Restriction: Standing Up for Sirtuins. Science, 2010, 329, 1012-1013. | 12.6 | 63 |
| 48 | Insulin receptor substrate chico acts with the transcription factor FOXO to extend Drosophila lifespan. Aging Cell, 2011, 10, 729-732. | 6.7 | 63 |
| 49 | Structural and Biological Properties of the Drosophila Insulin-like Peptide 5 Show Evolutionary Conservation. Journal of Biological Chemistry, 2011, 286, 661-673. | 3.4 | 61 |
| 50 | Nutritional Geometric Profiles of Insulin/IGF Expression in Drosophila melanogaster. PLoS ONE, 2016, 11, e0155628. | 2.5 | 60 |
| 51 | Misexpression screen delineates novel genes controlling Drosophila lifespan. Mechanisms of Ageing and Development, 2012, 133, 234-245. | 4.6 | 53 |
| 52 | Comparing thyroid and insect hormone signaling. Integrative and Comparative Biology, 2006, 46, 777-794. | 2.0 | 51 |
| 53 | Drosophila insulinâ€like peptide dilp1 increases lifespan and glucagonâ€like Akh expression epistatic to dilp2. Aging Cell, 2019, 18, e12863. | 6.7 | 51 |
| 54 | Toward Reconciling Inferences Concerning Genetic Variation in Senescence in Drosophila melanogaster. Genetics, 1999, 152, 553-566. | 2.9 | 49 |

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|---|---|---|---|
| 55 | The neuroendocrine regulation of Drosophila aging. Experimental Gerontology, 2004, 39, 1745-1750. | 2.8 | 48 |
| 56 | What are the effects of maternal and pre-adult environments on ageing in humans, and are there lessons from animal models?. Mechanisms of Ageing and Development, 2005, 126, 431-438. | 4.6 | 48 |
| 57 | Resource allocation to reproduction and soma in Drosophila: A stable isotope analysis of carbon from dietary sugar. Journal of Insect Physiology, 2006, 52, 763-770. | 2.0 | 48 |
| 58 | Diet Restriction in Drosophila melanogaster. , 2006, 35, 115-136. | | 48 |
| 59 | Can We Develop Genetically Tractable Models to Assess Healthspan (Rather Than Life Span) in Animal Models?. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2009, 64A, 161-163. | 3.6 | 48 |
| 60 | Transgenes in the Analysis of Life Span and Fitness. American Naturalist, 1999, 154, S67-S81. | 2.1 | 47 |
| 61 | Dietary switch reveals fast coordinated gene expression changes in Drosophila melanogaster. Aging, 2014, 6, 355-368. | 3.1 | 47 |
| 62 | The hidden costs of dietary restriction: Implications for its evolutionary and mechanistic origins. Science Advances, 2020, 6, eaay3047. | 10.3 | 41 |
| 63 | Drosophila Kruppel homolog 1 represses lipolysis through interaction with dFOXO. Scientific Reports, 2017, 7, 16369. | 3.3 | 39 |
| 64 | Reproductive aging in invertebrate genetic models. Annals of the New York Academy of Sciences, 2010, 1204, 149-155. | 3.8 | 38 |
| 65 | Dehydration triggers ecdysone-mediated recognition-protein priming and elevated anti-bacterial immune responses in Drosophila Malpighian tubule renal cells. BMC Biology, 2018, 16, 60. | 3.8 | 37 |
| 66 | Age-Dependent Changes in Transcription Factor FOXO Targeting in Female Drosophila. Frontiers in Genetics, 2019, 10, 312. | 2.3 | 37 |
| 67 | Fine-Scale Mapping of Natural Variation in Fly Fecundity Identifies Neuronal Domain of Expression and Function of an Aquaporin. PLoS Genetics, 2012, 8, e1002631. | 3.5 | 36 |
| 68 | Clutch size in the swallowtail butterfly, Battus philenor: the role of host quality and egg load within and among seasonal flights in California. Behavioral Ecology and Sociobiology, 1991, 28, 337-344. | 1.4 | 34 |
| 69 | Sex Mortality Differentials in the Bean Beetle: Reframing the Question. American Naturalist, 1994, 144, 165-175. | 2.1 | 24 |
| 70 | Tequila Regulates Insulin-Like Signaling and Extends Life Span inDrosophila melanogaster. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1461-1469. | 3.6 | 23 |
| 71 | Drosophila Longevity Assurance Conferred by Reduced Insulin Receptor Substrate Chico Partially Requires d4eBP. PLoS ONE, 2015, 10, e0134415. | 2.5 | 22 |
| 72 | Resveratrol Inhibits Protein Translation in Hepatic Cells. PLoS ONE, 2011, 6, e29513. | 2.5 | 21 |

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| 73 | Reproduction regulates Drosophila nutrient intake through independent effects of egg production and sex peptide: Implications for aging. Nutrition and Healthy Aging, 2016, 4, 55-61. | 1.1 | 21 |
| 74 | The effects of a longâ€term psychosocial stress on reproductive indicators in the baboon. American Journal of Physical Anthropology, 2011, 145, 629-638. | 2.1 | 20 |
| 75 | GENETICS OF MORTALITY IN THE BEAN BEETLECALLOSOBRUCHUS MACULATUS. Evolution; International Journal of Organic Evolution, 1994, 48, 1371-1376. | 2.3 | 19 |
| 76 | Transgenic organisms in evolutionary ecology. Trends in Ecology and Evolution, 2000, 15, 207-211. | 8.7 | 19 |
| 77 | Mitochondria: Masters of Epigenetics. Cell, 2016, 165, 1052-1054. | 28.9 | 19 |
| 78 | Total Solid-Phase Synthesis of Biologically Active Drosophila Insulin-Like Peptide 2 (DILP2). Australian Journal of Chemistry, 2017, 70, 208. | 0.9 | 18 |
| 79 | Unraveling the Molecular Mechanism of Immunosenescence in Drosophila. International Journal of Molecular Sciences, 2018, 19, 2472. | 4.1 | 18 |
| 80 | Evolution of Senescence: Longevity and the Expression of Heat Shock Proteins. American Zoologist, 1999, 39, 920-927. | 0.7 | 17 |
| 81 | FITNESS COSTS OF FEMALE REPRODUCTION. Evolution; International Journal of Organic Evolution, 1997, 51, 1323-1326. | 2.3 | 16 |
| 82 | Transcriptional response to dietary restriction in Drosophila melanogaster. Journal of Insect Physiology, 2014, 69, 101-106. | 2.0 | 16 |
| 83 | Oviposition substrate affects adult mortality, independent of reproduction, in the seed beetle Callosobruchus maculatus. Ecological Entomology, 1994, 19, 108-110. | 2.2 | 15 |
| 84 | A Role for Drosophila dFoxO and dFoxO 5â€²UTR Internal Ribosomal Entry Sites during Fasting. PLoS ONE, 2010, 5, e11521. | 2.5 | 15 |
| 85 | Genetic analysis of extended life span in Drosophila melanogaster. II. Replication of the backcross test and molecular characterization of the N14 locus. Genetica, 1998, 104, 33-39. | 1.1 | 14 |
| 86 | Regulatory Roles of Drosophila Insulin-Like Peptide 1 (DILP1) in Metabolism Differ in Pupal and Adult Stages. Frontiers in Endocrinology, 2020, 11, 180. | 3.5 | 11 |
| 87 | Aging modulated by theDrosophilainsulin receptor through distinct structure-defined mechanisms. Genetics, 2021, 217, . | 2.9 | 11 |
| 88 | Germ-line stem cells call the shots. Trends in Ecology and Evolution, 2002, 17, 297-298. | 8.7 | 9 |
| 89 | Response to Comment on "Long-Lived Drosophila with Overexpressed dFOXO in Adult Fat Body". Science, 2005, 307, 675b-675b. | 12.6 | 9 |
| 90 | Metabolism by Remote Control. Cell Metabolism, 2009, 10, 164-166. | 16.2 | 9 |

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| 91 | Swallowtail Clutch Size Reconsidered. Oikos, 1989, 55, 135. | 2.7 | 8 |
| 92 | Juvenile and Steroid Hormones in Drosophila melanogaster Longevity. , 2005, , 415-448. | | 8 |
| 93 | SIR2 calls upon the ER. Cell Metabolism, 2005, 2, 281-282. | 16.2 | 8 |
| 94 | AGING: Dietary Advice on Q. Science, 2002, 295, 54-55. | 12.6 | 7 |
| 95 | Correlation analysis reveals the emergence of coherence in the gene expression dynamics following system perturbation. BMC Bioinformatics, 2007, 8, S16. | 2.6 | 6 |
| 96 | Ecdysone Elicits Chronic Renal Impairment via Mineralocorticoid-Like Pathogenic Activities. Cellular Physiology and Biochemistry, 2018, 49, 1633-1645. | 1.6 | 6 |
| 97 | Extra-cellular matrix induced by steroids and aging through a G-protein coupled receptor in a Drosophila model of renal fibrosis. DMM Disease Models and Mechanisms, 2020, 13, . | 2.4 | 5 |
| 98 | Aging Regulated Through a Stability Model of Insulin/Insulin Growth Factor Receptor Function. Frontiers in Endocrinology, 2021, 12, 649880. | 3.5 | 5 |
| 99 | Regulation of Aging by Germline Stem Cells. Science of Aging Knowledge Environment: SAGE KE, 2002, 2002, 2pe-2. | 0.8 | 4 |
| 100 | Unearthing Loci That Influence Life Span. Science of Aging Knowledge Environment: SAGE KE, 2003, 2003, 5pe-5. | 0.8 | 3 |
| 101 | Aging Cell- the Cowen era: looking back downstream from calmer waters. Aging Cell, 2008, 7, 1-1. | 6.7 | 2 |
| 102 | Welcome to the new section of the Editorial Board of Aging Cell: Stem Cells in Aging. Aging Cell, 2005, 4, 165-165. | 6.7 | 1 |
| 103 | Mutation and senescence: where genetics and demography meet. Contemporary Issues in Genetics and Evolution, 1998, , 299-314. | 0.9 | 1 |
| 104 | A Smell to Die for. Developmental Cell, 2007, 12, 322-324. | 7.0 | 0 |