Murat Bilgel

List of Publications by Citations

65 papers	1,574 citations	18 h-index	39 g-index
88 ext. papers	2,052 ext. citations	5.3 avg, IF	4.53 L-index

#	Paper	IF	Citations
65	Total synthesis of a functional designer eukaryotic chromosome. *Science*, **2014**, 344, 55-8	33.3	360
64	Self-reported sleep and βamyloid deposition in community-dwelling older adults. *JAMA Neurology*, **2013**, 70, 1537-43	17.2	304
63	Midlife adiposity predicts earlier onset of Alzheimer's dementia, neuropathology and presymptomatic cerebral amyloid accumulation. *Molecular Psychiatry*, **2016**, 21, 910-5	15.1	78
62	Medial Temporal Tau Pathology Is Associated With Verbal Memory. *Innovation in Aging*, **2020**, 4, 767-767	0.1	78
61	Bile Acids in Dementia: Brain Amyloid, White Matter Lesions, and Atrophy. *Innovation in Aging*, **2020**, 4, 767-768	0.1	78
60	Effects of amyloid pathology and neurodegeneration on cognitive change in cognitively normal adults. *Brain*, **2018**, 141, 2475-2485	11.2	54
59	Changes in Aβ biomarkers and associations with APOE genotype in 2 longitudinal cohorts. *Neurobiology of Aging*, **2015**, 36, 2333-9	5.6	49
58	Individual estimates of age at detectable amyloid onset for risk factor assessment. *Alzheimer's and Dementia*, **2016**, 12, 373-9	1.2	49
57	A multivariate nonlinear mixed effects model for longitudinal image analysis: Application to amyloid imaging. *NeuroImage*, **2016**, 134, 658-670	7.9	48
56	Trajectories of Alzheimer disease-related cognitive measures in a longitudinal sample. *Alzheimer's and Dementia*, **2014**, 10, 735-742.e4	1.2	47
55	Extreme deep white matter hyperintensity volumes are associated with African American race. *Cerebrovascular Diseases*, **2014**, 37, 244-50	3.2	35
54	The Brain Chart of Aging: Machine-learning analytics reveals links between brain aging, white matter disease, amyloid burden, and cognition in the iSTAGING consortium of 10,216 harmonized MR scans. *Alzheimer's and Dementia*, **2021**, 17, 89-102	1.2	30
53	Age differences in periventricular and deep white matter lesions. *Neurobiology of Aging*, **2015**, 36, 1653-1658	5.6	29
52	Associations between Performance on an Abbreviated CogState Battery, Other Measures of Cognitive Function, and Biomarkers in People at Risk for Alzheimer's Disease. *Journal of Alzheimer's Disease*, **2016**, 54, 1395-1408	4.3	29
51	Excessive daytime sleepiness and napping in cognitively normal adults: associations with subsequent amyloid deposition measured by PiB PET. *Sleep*, **2018**, 41,	1.1	27
50	Metabolic Syndrome and Amyloid Accumulation in the Aging Brain. *Journal of Alzheimer's Disease*, **2018**, 65, 629-639	4.3	26
49	Tau pathology in cognitively normal older adults. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2019**, 11, 637-645	5.2	21

48	Early affective changes and increased connectivity in preclinical Alzheimer's disease. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2018**, 10, 471-479	5.2	19
47	Association Between Common Variants in RBFOX1, an RNA-Binding Protein, and Brain Amyloidosis in Early and Preclinical Alzheimer Disease. *JAMA Neurology*, **2020**, 77, 1288-1298	17.2	17
46	Amyloid Burden Predicts Lower Extremity Performance Decline in Cognitively Unimpaired Older Adults. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2017**, 72, 716-723	6.4	16
45	Longitudinal evaluation of surrogates of regional cerebral blood flow computed from dynamic amyloid PET imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2020**, 40, 288-297	7.3	16
44	Sex differences in the association between amyloid and longitudinal brain volume change in cognitively normal older adults. *NeuroImage: Clinical*, **2019**, 22, 101769	5.3	14
43	Effect of white matter lesions on manual dexterity in healthy middle-aged persons. *Neurology*, **2015**, 84, 1920-6	6.5	13
42	Voxelwise Relationships Between Distribution Volume Ratio and Cerebral Blood Flow: Implications for Analysis of Amyloid Images. *Journal of Nuclear Medicine*, **2015**, 56, 1042-7	8.9	10
41	The effect of rare variants in TREM2 and PLD3 on longitudinal cognitive function in the Wisconsin Registry for Alzheimer's Prevention. *Neurobiology of Aging*, **2018**, 66, 177.e1-177.e5	5.6	10
40	Bile acid synthesis, modulation, and dementia: A metabolomic, transcriptomic, and pharmacoepidemiologic study. *PLoS Medicine*, **2021**, 18, e1003615	11.6	10
39	Brain Oxygen Extraction by Using MRI in Older Individuals: Relationship to Apolipoprotein E Genotype and Amyloid Burden. *Radiology*, **2019**, 292, 140-148	20.5	9
38	Amyloid deposition is associated with gait variability in usual aging. *Gait and Posture*, **2018**, 61, 346-352	2.6	9
37	Association of peripheral inflammatory markers with connectivity in large-scale functional brain networks of non-demented older adults. *Brain, Behavior, and Immunity*, **2020**, 87, 388-396	16.6	8
36	AUTOMATED ANATOMICAL LABELING OF THE CEREBRAL ARTERIES USING BELIEF PROPAGATION. *Proceedings of SPIE*, **2013**, 866918,	1.7	8
35	Temporal Trajectory and Progression Score Estimation from Voxelwise Longitudinal Imaging Measures: Application to Amyloid Imaging. *Lecture Notes in Computer Science*, **2015**, 24, 424-36	0.9	8
34	Predicting time to dementia using a quantitative template of disease progression. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2019**, 11, 205-215	5.2	6
33	Prediction of rapid amyloid and phosphorylated-Tau accumulation in cognitively healthy individuals. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2020**, 12, e12019	5.2	6
32	Cross-Sectional and Longitudinal Effects of Genotypes on Individual Differences in Memory and Executive Function: Findings from the BLSA. *Frontiers in Aging Neuroscience*, **2017**, 9, 142	5.3	6
31	Temporal Order of Alzheimer's Disease-Related Cognitive Marker Changes in BLSA and WRAP Longitudinal Studies. *Journal of Alzheimer's Disease*, **2017**, 59, 1335-1347	4.3	6

30	Deformation field correction for spatial normalization of PET images. *NeuroImage*, **2015**, 119, 152-63	7.9	4
29	Extended multimodal whole-brain anatomical covariance analysis: detection of disrupted correlation networks related to amyloid deposition. *Heliyon*, **2019**, 5, e02074	3.6	4
28	Lasting consequences of concussion on the aging brain: Findings from the Baltimore Longitudinal Study of Aging. *NeuroImage*, **2020**, 221, 117182	7.9	4
27	Temporal filtering of longitudinal brain magnetic resonance images for consistent segmentation. *NeuroImage: Clinical*, **2016**, 11, 264-275	5.3	3
26	Personality Associations With Amyloid and Tau: Results From the Baltimore Longitudinal Study of Aging and Meta-analysis. *Biological Psychiatry*, **2021**,	7.9	3
25	Deformation field correction for spatial normalization of PET images using a population-derived partial least squares model. *Lecture Notes in Computer Science*, **2014**, 8679, 198-206	0.9	2
24	Association of Lifestyle Activities with Functional Brain Connectivity and Relationship to Cognitive Decline among Older Adults. *Cerebral Cortex*, **2021**, 31, 5637-5651	5.1	2
23	Disease Burden Affects Aging Brain Function. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2021**,	6.4	2
22	P4-187: Midlife adiposity predicts earlier onset of Alzheimer's dementia, neuropathology, and presymptomatic cerebral amyloid accumulation **2015**, 11, P851-P852		1
21	Vascular risk is not associated with PET measures of Alzheimer's disease neuropathology among cognitively normal older adults.. *NeuroImage Reports*, **2021**, 1, 100068-100068		1
20	Amyloid Positivity as a Risk Factor for Memory Decline and Lower Memory Performance as an Indicator of Conversion to Amyloid Positivity: Chicken and Egg. *Biological Psychiatry*, **2020**, 87, 782-784	7.9	1
19	IC-P-021: MULTIVARIATE PATTERN ANALYSIS ON A LONGITUDINAL COHORT OF COGNITIVELY NORMAL ELDERLY REVEALS DISTINCT STAGES OF REGIONAL AMYLOID DEPOSITION **2018**, 14, P26-P28		1
18	**2018**,		1
17	Vestibular Function and Beta-Amyloid Deposition in the Baltimore Longitudinal Study of Aging. *Frontiers in Aging Neuroscience*, **2018**, 10, 408	5.3	1
16	Voxel-based partial volume correction of PET images via subtle MRI guided non-local means regularization. *Physica Medica*, **2021**, 89, 129-139	2.7	1
15	Association of walking energetics with amyloid beta status: Findings from the Baltimore Longitudinal Study of Aging. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2021**, 13, e12228	5.2	1
14	Computerized paired associate learning performance and imaging biomarkers in older adults without dementia. *Brain Imaging and Behavior*, **2021**, 1	4.1	0
13	Olfaction, Cognitive Impairment, and PET Biomarkers in Community-Dwelling Older Adults.. *Journal of Alzheimer's Disease*, **2022**, 86, 1275-1285	4.3	0

List of Publications

12	Modeling the early accumulation of amyloid using differential equations in WRAP and BLSA. *Alzheimer's and Dementia*, **2020**, 16, e039536	1.2
11	Genetic associations with brain amyloidosis. *Alzheimer's and Dementia*, **2020**, 16, e042191	1.2
10	A predictive, modeling-based screening tool to enrich amyloid beta positivity in a cognitively normal sample. *Alzheimer's and Dementia*, **2020**, 16, e045242	1.2
9	Multimodal genome-wide meta-analysis of brain amyloidosis reveals heterogeneity across CSF, PET, and pathological amyloid measures. *Alzheimer's and Dementia*, **2020**, 16, e046009	1.2
8	1141 EXCESSIVE DAYTIME SLEEPINESS, NAPPING, AND BRAIN AMYLOID IN OLDER ADULTS. *Sleep*, **2017**, 40, A426-A426	1.1
7	O2-09-04: Age at onset of amyloid accumulation in relation to ApoE genotype **2015**, 11, P195-P196	
6	P3-273: Disease Burden Affects Aging Brain Function **2016**, 12, P938-P939	
5	P3-372: Longitudinal Effects of Creb1 Genotypes on Cognitive Function During Aging **2016**, 12, P991-P992	
4	O3-03-02: MCI STATUS, AMYLOID AND TAU BIOMARKERS, AND COMPOSITE COGNITIVE IMPAIRMENT SCORES ARE ASSOCIATED WITH COGSTATE PERFORMANCE IN THE WISCONSIN REGISTRY FOR ALZHEIMER'S PREVENTION **2016**, 12, P285-P286	
3	IC-P-108: WHITE MATTER HYPERINTENSITIES IN RELATION TO PATTERNS OF ACCELERATED BRAIN AGING, AD-LIKE ATROPHY AND AMYLOID BURDEN: RESULTS FROM THE ISTAGING CONSORTIUM ON MACHINE LEARNING AND LARGE-SCALE IMAGING ANALYTICS **2019**, 15, P92-P93	
2	P3-423: INDEPENDENT AND SYNERGISTIC EFFECTS OF AMYLOID PATHOLOGY AND HIPPOCAMPAL NEURODEGENERATION ON COGNITIVE CHANGE IN COGNITIVELY NORMAL OLDER ADULTS **2018**, 14, P1271-P1271	
1	IC-P-001: SURROGATES OF REGIONAL CEREBRAL BLOOD FLOW COMPUTED FROM DYNAMIC AMYLOID PET IMAGING **2018**, 14, P14-P15	