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## Cardiovascular fitness, cortical plasticity, and aging

DOI: 10.1073/pnas.0400266101

Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3316-21.

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435	Relations Between Exercise Habit and Visual Attentional Ability in Older Adult Community Dwellers: Evidences From the Yakumo Study. <b>2018</b> , 7, 117957271877307		2
434	The Multidisciplinary Approach to Alzheimer's Disease and Dementia. A Narrative Review of Non-Pharmacological Treatment. <b>2018</b> , 9, 1058		81
433	Does Meditation Alter Brain Responses to Negative Stimuli? A Systematic Review. <i>Frontiers in Human Neuroscience</i> , <b>2018</b> , 12, 448	3-3	9
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429	Promoting Physical Activity Behavior: Interventions and Mediators. <b>2018</b> , 807-834		
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427	Cognitive Involvement in Balance, Gait and Dual-Tasking in Aging: A Focused Review From a Neuroscience of Aging Perspective. <b>2018</b> , 9, 913		80
426	Task-Switching Performance Improvements After Tai Chi Chuan Training Are Associated With Greater Prefrontal Activation in Older Adults. <b>2018</b> , 10, 280		29
425	Exercise-induced brain-derived neurotrophic factor expression: Therapeutic implications for Alzheimer's dementia. <b>2018</b> , 48, 109-121		60
424	A post-exercise facilitation of executive function is independent of aerobically supported metabolic costs. <i>Neuropsychologia</i> , <b>2018</b> , 120, 65-74	3.2	9
423	Physical Exercise Enhances Neuroplasticity and Delays Alzheimer's Disease. <b>2018</b> , 4, 95-110		22
422	Improvements in cognition and associations with measures of aerobic fitness and muscular power following structured exercise. <b>2018</b> , 112, 76-87		10
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417	Different neural activities support auditory working memory in musicians and bilinguals. <b>2018</b> , 1423, 435		16
416	The Impact of Blood Pressure Dipping Status on Cognition, Mobility, and Cardiovascular Health in Older Adults Following an Exercise Program. <b>2018</b> , 4, 2333721418770333		2
415	Commentary on: "Effects of Regular Physical Activity on the Cognitive Performance of Type 2 Diabetic Patients: A Systematic Review" by Podolski et al. ( <i>Metab Syndr Relat Disord</i> 2017;15:481-493). <b>2018</b> , 16, 255-261		
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413	Cognitive changes following multiple-modality exercise and mind-motor training in older adults with subjective cognitive complaints: The M4 study. <i>PLoS ONE</i> , <b>2018</b> , 13, e0196356	3-7	11
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410	Structural Brain Benefits of Maintained Fitness. <b>2018</b> , 17-24		
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407	Development of Serious Game and Integrated Management Service Model for the Cognitive Rehabilitation. <b>2018</b> , 81-88		
406	Does physical exercise improve perceptual skills and visuospatial attention in older adults? A review. <b>2018</b> , 15,		12
405	Basal ganglia and beyond: The interplay between motor and cognitive aspects in Parkinson's disease rehabilitation. <b>2018</b> , 90, 294-308		37
404	Aerobic training modulates salience network and default mode network metabolism in subjects with mild cognitive impairment. <b>2018</b> , 19, 616-624		2
403	Exercise or physical activity and cognitive function in adults with type 2 diabetes, insulin resistance or impaired glucose tolerance: a systematic review. <b>2018</b> , 15, 1		27
402	The effects of an 8-week computerized cognitive training program in older adults: a study protocol for a randomized controlled trial. <b>2018</b> , 18, 31		12
401	Randomized control trial of computer-based training targeting alertness in older adults: the ALERT trial protocol. <b>2018</b> , 6, 22		1
400	Cardiac rehabilitation and its effects on cognition in patients with coronary artery disease and heart failure. <b>2018</b> , 16, 645-652		11
399	Mechanisms and modulators of cognitive training gain transfer in cognitively healthy aging: study protocol of the AgeGain study. <b>2018</b> , 19, 337		6
398	Neuroimaging, neuromodulation, and population health: the neuroscience of chronic disease prevention. <b>2018</b> , 1428, 240-256		12
397	The Dog as a Model for Aging Research. <b>2018</b> , 167-176		1
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395	The effects of exercise on the structure of cognitive related brain regions: a meta-analysis of functional neuroimaging data. <b>2019</b> , 129, 406-415		12
394	Efeitos do exercício físico no sistema nervoso do indivíduo idoso e suas consequências funcionais. <b>2019</b> , 41, 81-95		1
393	Moderate-Intensity Exercise Induces Neurogenesis and Improves Cognition in Old Mice by Upregulating Hippocampal Hippocalcin, Otub1, and Spectrin- $\alpha$ <b>2019</b> , 56, 3069-3078		8
392	Editorial. <i>International Journal of Sport and Exercise Psychology</i> , <b>2019</b> , 17, 85-88	2.5	0
391	Cerebral changes improved by physical activity during cognitive decline: A systematic review on MRI studies. <b>2019</b> , 23, 101933		36
390	Enhanced decision-making through multimodal training. <b>2019</b> , 4, 11		9
389	Fitness-Dependent Effect of Acute Aerobic Exercise on Executive Function. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 902	4.6	12
388	Functional and/or structural brain changes in response to resistance exercises and resistance training lead to cognitive improvements - a systematic review. <b>2019</b> , 16, 10		90
387	Physical performance is more strongly associated with cognition in schizophrenia than psychiatric symptoms. <b>2019</b> , 61, 72-78		3
386	Higher striatal D2-receptor availability in aerobically fit older adults but non-selective intervention effects after aerobic versus resistance training. <b>2019</b> , 202, 116044		7
385	Brain activity associated with Dual-task performance of Ankle motor control during cognitive challenge. <b>2019</b> , 9, e01349		4
384	Predicting domain-specific actions in expert table tennis players activates the semantic brain network. <b>2019</b> , 200, 482-489		4
383	Epigenetic impact of the social and physical environment on brain and body. <b>2019</b> , 100S, 153941		10
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381	Aging of the frontal lobe. <b>2019</b> , 163, 369-389		22
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379	Brain activation during executive control after acute exercise in older adults. <b>2019</b> , 146, 240-248		6
378	The effects of cardiorespiratory fitness on executive function and prefrontal oxygenation in older adults. <b>2019</b> , 41, 681-690		19

377	Lifestyle Choices and Brain Health. <b>2019</b> , 6, 204		15
376	Modulation of Distinct Intrinsic Resting State Brain Networks by Acute Exercise Bouts of Differing Intensity. <b>2019</b> , 5, 39-55		20
375	A Combined EEG-fNIRS Study Investigating Mechanisms Underlying the Association between Aerobic Fitness and Inhibitory Control in Young Adults. <b>2019</b> , 419, 23-33		19
374	Perception of memory decline in physically active elderly: comparison between practitioners of systematized and non-systematized physical exercises. <b>2019</b> , 25,		1
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372	Aging-related changes in fluid intelligence, muscle and adipose mass, and sex-specific immunologic mediation: A longitudinal UK Biobank study. <b>2019</b> , 82, 396-405		8
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370	Effects of Exercise Modes on Neural Processing of Working Memory in Late Middle-Aged Adults: An fMRI Study. <b>2019</b> , 11, 224		7
369	The Effect of Traditional Chinese Mind-Body Exercise (Baduanjin) and Brisk Walking on the Dorsal Attention Network in Older Adults With Mild Cognitive Impairment. <i>Frontiers in Psychology</i> , <b>2019</b> , 10, 2075	3-4	18
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362	Comparison between physical and cognitive treatment in patients with MCI and Alzheimer's disease. <b>2019</b> , 11, 3138-3155		12
361	Mind-body exercise improves cognitive function and modulates the function and structure of the hippocampus and anterior cingulate cortex in patients with mild cognitive impairment. <b>2019</b> , 23, 101834		43
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358	Associations between cardiorespiratory fitness, physical activity, intraindividual variability in behavior, and cingulate cortex in younger adults. <b>2019</b> , 8, 315-324		14
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355	Editorial. <i>International Journal of Sport and Exercise Psychology</i> , <b>2019</b> , 1-4	2-5	1
354	Combining lifestyle risks to disentangle brain structure and functional connectivity differences in older adults. <b>2019</b> , 10, 621		23
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351	Sleep health and its association with performance and motivation in tactical athletes enrolled in the Reserve Officers’ Training Corps. <b>2019</b> , 5, 309-314		11
350	Higher Cardiorespiratory Fitness is Associated with Reduced Functional Brain Connectivity During Performance of the Stroop Task. <b>2019</b> , 5, 57-67		5
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345	Dynamics of Executive Functions, Basic Psychological Needs, Impulsivity, and Depressive Symptoms in American Football Players. <i>Frontiers in Psychology</i> , <b>2019</b> , 10, 2409	3-4	3
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339	Resting Cerebral Blood Flow After Exercise Training in Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , <b>2019</b> , 67, 671-684	4.3	43
338	Measuring Treatment Response in Pharmacological and Lifestyle Interventions Using Electroencephalography in ADHD: A Review. <b>2019</b> , 50, 256-266		9
337	Ten years younger: Practice of chronic aerobic exercise improves attention and spatial memory functions in ageing. <b>2019</b> , 117, 53-60		5
336	Nutritional supplementation boosts aerobic exercise effects on functional brain systems. <b>2019</b> , 126, 77-87		14
335	On mindful and mindless physical activity and executive function: A response to Diamond and Ling (2016). <b>2019</b> , 37, 100529		20
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333	Using resting-state fMRI to assess the effect of aerobic exercise on functional connectivity of the DLPFC in older overweight adults. <b>2019</b> , 131, 34-44		19
332	The impact of physical activity and sex differences on intraindividual variability in inhibitory performance in older adults. <b>2019</b> , 26, 1-23		14
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330	Exercise-Induced Neuroplasticity: A Mechanistic Model and Prospects for Promoting Plasticity. <b>2019</b> , 25, 65-85		75
329	Aerobic Exercise Sustains Performance of Instrumental Activities of Daily Living in Early-Stage Alzheimer Disease. <b>2019</b> , 42, E129-E134		17
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326	The effects of aerobic exercise intensity on memory in older adults. <b>2020</b> , 45, 591-600		33
325	Cardiorespiratory fitness and hippocampal volume predict faster episodic associative learning in older adults. <b>2020</b> , 30, 143-155		4
324	Efficacy of RehaCom cognitive rehabilitation software in activities of daily living, attention and response control in chronic stroke patients. <b>2020</b> , 71, 101-107		10

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322	Stroop task performance across the lifespan: High cognitive reserve in older age is associated with enhanced proactive and reactive interference control. <b>2020</b> , 207, 116430		13
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319	Influence of Multiple Cardiovascular Risk Factors on Task-Switching in Older Adults: An fMRI Study. <i>Frontiers in Human Neuroscience</i> , <b>2020</b> , 14, 561877	3-3	3
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316	Approach to Cognitive Impairment in Parkinson's Disease. <b>2020</b> , 17, 1495-1510		10
315	A single bout of moderate intensity exercise improves cognitive flexibility: evidence from task-switching. <b>2020</b> , 238, 2333-2346		2
314	A Scoping Review of Multiple-modality Exercise and Cognition in Older Adults: Limitations and Future Directions. <b>2020</b> , 19, 298-325		1
313	A social dancing pilot intervention for older adults at high risk for Alzheimer's disease and related dementias. <b>2020</b> , 10, 183-194		2
312	Increased cerebral blood flow supports a single-bout postexercise benefit to executive function: evidence from hypercapnia. <b>2020</b> , 124, 930-940		7
311	Synergistic Effects of Cognitive Training and Physical Exercise on Dual-Task Performance in Older Adults. <b>2021</b> , 76, 1533-1541		9
310	Short- and long-term changes in cognitive function after exercise-based rehabilitation in people with COPD: A pilot study. <b>2020</b> , 1-10		1
309	Exercise-Based Cardiac Rehabilitation Improves Cognitive Function Among Patients With Cardiovascular Disease. <b>2020</b> , 40, 407-413		3
308	Methods and strategies of tDCS for the treatment of pain: current status and future directions. <b>2020</b> , 17, 879-898		8
307	Behavioural and cognitive changes in aged pet dogs: No effects of an enriched diet and lifelong training. <i>PLoS ONE</i> , <b>2020</b> , 15, e0238517	3-7	4
306	Feasibility of Music-Assisted Treadmill Training in Parkinson's Disease Patients With and Without Deep Brain Stimulation: Insights From an Ongoing Pilot Randomized Controlled Trial. <b>2020</b> , 11, 790		6

305	Cognitive Gains of Aerobic Exercise in Patients With Ischemic Cerebrovascular Disorder: A Systematic Review and Meta-Analysis. <b>2020</b> , 8, 582380		3
304	Relationship of regular physical activity with neuroelectric indices of interference processing in young adults. <b>2020</b> , 57, e13674		1
303	Does Cardiorespiratory Fitness Influence the Effect of Acute Aerobic Exercise on Executive Function?. <i>Frontiers in Human Neuroscience</i> , <b>2020</b> , 14, 569010	3.3	3
302	The Important Role of Adiponectin and Orexin-A, Two Key Proteins Improving Healthy Status: Focus on Physical Activity. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 356	4.6	9
301	Aerobic exercise improves cognition and cerebrovascular regulation in older adults. <b>2020</b> , 94, e2245-e2257		29
300	Systematic Review on Exercise Training as a Neuroplasticity-Inducing Behavior in Multiple Sclerosis. <b>2020</b> , 34, 575-588		13
299	The effect of physical activity on cognition relative to APOE genotype (PAAD-2): study protocol for a phase II randomized control trial. <b>2020</b> , 20, 231		4
298	Brain Changes in Response to Exercise. <b>2020</b> , 815-831		
297	Effects of Exercise on Cognitive Performance in Older Adults: A Narrative Review of the Evidence, Possible Biological Mechanisms, and Recommendations for Exercise Prescription. <b>2020</b> , 2020, 1407896		15
296	Chronic Exercise and Cognitive Function. <b>2020</b> , 795-814		1
295	The Unique Contribution of Physical Activity to Successful Cognitive Aging. <b>2020</b> , 832-856		2
294	The oscillatory mechanisms associated with syntactic binding in healthy ageing. <i>Neuropsychologia</i> , <b>2020</b> , 146, 107523	3.2	3
293	Healthy Lifestyle and Cognition: Interaction between Diet and Physical Activity. <b>2020</b> , 9, 64-74		5
292	Shall We Dance? Dancing Modulates Executive Functions and Spatial Memory. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	3
291	Physical fitness components in relation to attention capacity in Latin American youth with overweight and obesity. <b>2020</b> , 30, 1188-1193		7
290	Better Executive Function Is Associated With Faster On-Transition Aerobic Metabolism Among Older Adults. <b>2020</b> , 127, 823-840		
289	Effect of High Intensity Interval Training Compared to Continuous Training on Cognitive Performance in Young Healthy Adults: A Pilot Study. <i>Brain Sciences</i> , <b>2020</b> , 10,	3.4	13
288	Neuroergonomics. <b>2020</b> ,		2



287	Recent Advances of Sarcopenia and Frailty in CKD. <b>2020</b> ,		
286	The Effect of Exercise on Cancer-Related Cognitive Impairment and Applications for Physical Therapy: Systematic Review of Randomized Controlled Trials. <b>2020</b> , 100, 523-542		29
285	Effects of an 8-week training cessation period on cognition and functional capacity in older adults. <b>2020</b> , 134, 110890		4
284	[Effects of physical activity on cognitive function in older adults]. <b>2020</b> , 161, 163-168		1
283	Potential Indirect Mechanisms of Cognitive Enhancement After Long-Term Resistance Training in Older Adults. <b>2020</b> , 100, 907-916		4
282	Variability in Executive Control Performance Is Predicted by Physical Activity. <i>Frontiers in Human Neuroscience</i> , <b>2019</b> , 13, 463	3.3	1
281	The Association between Energy Balance-Related Behavior and Burn-Out in Adults: A Systematic Review. <b>2020</b> , 12,		4
280	The fitness versus body fat hypothesis in relation to hippocampal structure. <b>2021</b> , 58, e13591		2
279	Physical Activity Modulates the Effect of Cognitive Control on Episodic Memory. <i>Frontiers in Psychology</i> , <b>2020</b> , 11, 696	3.4	1
278	The Effect of Exercise Training on Brain Structure and Function in Older Adults: A Systematic Review Based on Evidence from Randomized Control Trials. <b>2020</b> , 9,		17
277	Fitness, physical activity, sedentary time, inhibitory control, and neuroelectric activity in children with overweight or obesity: The ActiveBrains project. <b>2020</b> , 57, e13579		14
276	Activity-Dependent Neuroplastic Changes in Autonomic Circuitry Modulating Cardiovascular Control: The Essential Role of Baroreceptors and Chemoreceptors Signaling. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 309	4.6	5
275	Brain Perfusion Change in Patients with Mild Cognitive Impairment After 12 Months of Aerobic Exercise Training. <i>Journal of Alzheimer's Disease</i> , <b>2020</b> , 75, 617-631	4.3	24
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273	. <b>2021</b> , 22, 3214-3233		13
272	Physical fitness mediates the association between age and cognition in healthy adults. <i>Aging Clinical and Experimental Research</i> , <b>2021</b> , 33, 1359-1366	4.8	2
271	Non-pharmacological interventions for cognitive impairment in women with breast cancer post-chemotherapy: A systematic review. <b>2021</b> , 12, 173-181		3
270	Physical Exercise Training Effect and Mediation Through Cardiorespiratory Fitness on Dual-Task Performances Differ in Younger-Old and Older-Old Adults. <b>2021</b> , 76, 219-228		18

269	A Coordinated Multi-study Analysis of the Longitudinal Association Between Handgrip Strength and Cognitive Function in Older Adults. <b>2021</b> , 76, 229-241			21
268	The Impact of the BAILAMOS Dance Program on Brain Functional Connectivity and Cognition in Older Latino Adults: A Pilot Study. <b>2021</b> , 5, 1-14			2
267	Acute exercise increases circulating IGF-1 in Alzheimer's disease patients, but not in older adults without dementia. <b>2021</b> , 396, 112903			2
266	Examining the obesity paradox: A moderating effect of fitness on adipose endocrine function in older adults. <b>2021</b> , 193, 111406			2
265	Hemodynamic Changes in Response to Aerobic Exercise: Near-infrared Spectroscopy Study. <b>2021</b> , 42, 377-385			0
264	Age at illness onset and physical activity are associated with cognitive impairment in patients with current diagnosis of major depressive disorder. <b>2021</b> , 279, 343-352			6
263	Olfactory-cognitive index distinguishes involvement of frontal lobe shrinkage, as in sarcopenia from shrinkage of medial temporal areas, and global brain, as in Kihon Checklist frailty/dependence, in older adults with progression of normal cognition to Alzheimer's disease. <i>Geriatrics and Gerontology International</i> , <b>2021</b> , 21, 291-298	2.9		1
262	Effect of aerobic exercise on amyloid accumulation in preclinical Alzheimer's: A 1-year randomized controlled trial. <i>PLoS ONE</i> , <b>2021</b> , 16, e0244893	3.7		14
261	Computerized physical and cognitive training improves the functional architecture of the brain in adults with Down syndrome: A network science EEG study. <b>2021</b> , 5, 274-294			0
260	Acting Before; A Combined Strategy to Counteract the Onset and Progression of Dementia. <b>2020</b> , 17, 790-804			1
259	When your brain looks older than expected: combined lifestyle risk and BrainAGE. <b>2021</b> , 226, 621-645			16
258	Exercise training reduces sympathetic nerve activity and improves executive performance in individuals with obstructive sleep apnea. <b>2021</b> , 76, e2786			0
257	Aerobic Exercise Mediates Neural Inefficiency Among Adolescents At Risk for Suicide. <b>2021</b> , 128, 1130-1149			
256	Randomized Controlled Trial on the Effects of a Combined Intervention of Computerized Cognitive Training Preceded by Physical Exercise for Improving Frailty Status and Cognitive Function in Older Adults. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6		3
255	The Effects of Aerobic Versus Cognitively Demanding Exercise Interventions on Executive Functioning in School-Aged Children: A Cluster-Randomized Controlled Trial. <b>2020</b> , 43, 1-13			7
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