

# Matthew J Laye

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35  
papers

3,281  
citations

22  
h-index

37  
g-index

37  
ext. papers

3,880  
ext. citations

4.3  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
35	Lack of exercise is a major cause of chronic diseases. <i>Comprehensive Physiology</i> , <b>2012</b> , 2, 1143-211	7.7	1116
34	Mitochondrial dysfunction precedes insulin resistance and hepatic steatosis and contributes to the natural history of non-alcoholic fatty liver disease in an obese rodent model. <i>Journal of Hepatology</i> , <b>2010</b> , 52, 727-36	13.4	317
33	Daily exercise increases hepatic fatty acid oxidation and prevents steatosis in Otsuka Long-Evans Tokushima Fatty rats. <i>American Journal of Physiology - Renal Physiology</i> , <b>2008</b> , 294, G619-26	5.1	207
32	Muscle specific microRNAs are regulated by endurance exercise in human skeletal muscle. <i>Journal of Physiology</i> , <b>2010</b> , 588, 4029-37	3.9	206
31	The miRNA plasma signature in response to acute aerobic exercise and endurance training. <i>PLoS ONE</i> , <b>2014</b> , 9, e87308	3.7	190
30	Reduced physical activity and risk of chronic disease: the biology behind the consequences. <i>European Journal of Applied Physiology</i> , <b>2008</b> , 102, 381-90	3.4	133
29	Rats selectively bred for low aerobic capacity have reduced hepatic mitochondrial oxidative capacity and susceptibility to hepatic steatosis and injury. <i>Journal of Physiology</i> , <b>2009</b> , 587, 1805-16	3.9	120
28	Lifetime sedentary living accelerates some aspects of secondary aging. <i>Journal of Applied Physiology</i> , <b>2011</b> , 111, 1497-504	3.7	111
27	LIF is a contraction-induced myokine stimulating human myocyte proliferation. <i>Journal of Applied Physiology</i> , <b>2011</b> , 111, 251-9	3.7	93
26	Cessation of daily exercise dramatically alters precursors of hepatic steatosis in Otsuka Long-Evans Tokushima Fatty (OLETF) rats. <i>Journal of Physiology</i> , <b>2008</b> , 586, 4241-9	3.9	78
25	Lack of adequate appreciation of physical exercise's complexities can pre-empt appropriate design and interpretation in scientific discovery. <i>Journal of Physiology</i> , <b>2009</b> , 587, 5527-39	3.9	69
24	Changes in visceral adipose tissue mitochondrial content with type 2 diabetes and daily voluntary wheel running in OLETF rats. <i>Journal of Physiology</i> , <b>2009</b> , 587, 3729-39	3.9	61
23	Cessation of daily wheel running differentially alters fat oxidation capacity in liver, muscle, and adipose tissue. <i>Journal of Applied Physiology</i> , <b>2009</b> , 106, 161-8	3.7	55
22	Inactivity induces increases in abdominal fat. <i>Journal of Applied Physiology</i> , <b>2007</b> , 102, 1341-7	3.7	55
21	The effects of age and dietary restriction on the tissue-specific metabolome of <i>Drosophila</i> . <i>Aging Cell</i> , <b>2015</b> , 14, 797-808	9.9	50
20	Changes in skeletal muscle mitochondria in response to the development of type 2 diabetes or prevention by daily wheel running in hyperphagic OLETF rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2010</b> , 298, E1179-87	6	42
19	The future: genes, physical activity and health. <i>Acta Physiologica</i> , <b>2010</b> , 199, 549-56	5.6	41

18	Exercise-induced attenuation of obesity, hyperinsulinemia, and skeletal muscle lipid peroxidation in the OLETF rat. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 708-15	3.7	38
17	Gold standards for scientists who are conducting animal-based exercise studies. <i>Journal of Applied Physiology</i> , <b>2010</b> , 108, 219-21	3.7	37
16	Association between cardiorespiratory fitness and the determinants of glycemic control across the entire glucose tolerance continuum. <i>Diabetes Care</i> , <b>2015</b> , 38, 921-9	14.6	36
15	Physical activity opposes coronary vascular dysfunction induced during high fat feeding in mice. <i>Journal of Physiology</i> , <b>2012</b> , 590, 4255-68	3.9	33
14	Increased shelterin mRNA expression in peripheral blood mononuclear cells and skeletal muscle following an ultra-long-distance running event. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 773-81	3.7	32
13	Muscle specific miRNAs are induced by testosterone and independently upregulated by age. <i>Frontiers in Physiology</i> , <b>2013</b> , 4, 394	4.6	21
12	Skeletal Muscle to Pancreatic $\beta$ Cell Cross-talk: The Effect of Humoral Mediators Liberated by Muscle Contraction and Acute Exercise on $\beta$ Cell Apoptosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2015</b> , 100, E1289-98	5.6	20
11	Determining pancreatic $\beta$ cell compensation for changing insulin sensitivity using an oral glucose tolerance test. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2014</b> , 307, E822-9	6	20
10	Increased mitochondrial glycerol-3-phosphate acyltransferase protein and enzyme activity in rat epididymal fat upon cessation of wheel running. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2006</b> , 290, E480-9	6	19
9	Impaired thymic output in patients with chronic hepatitis C virus infection. <i>Scandinavian Journal of Immunology</i> , <b>2013</b> , 78, 378-86	3.4	18
8	Targeting Postprandial Hyperglycemia With Physical Activity May Reduce Cardiovascular Disease Risk. But What Should We Do, and When Is the Right Time to Move?. <i>Frontiers in Cardiovascular Medicine</i> , <b>2018</b> , 5, 99	5.4	16
7	Different immunological phenotypes associated with preserved CD4+ T cell counts in HIV-infected controllers and viremic long term non-progressors. <i>PLoS ONE</i> , <b>2013</b> , 8, e63744	3.7	14
6	Immediate post-breakfast physical activity improves interstitial postprandial glycemia: a comparison of different activity-meal timings. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2020</b> , 472, 271-280	4.6	12
5	Daily marathon running for a week--the biochemical and body compositional effects of participation. <i>Journal of Strength and Conditioning Research</i> , <b>2013</b> , 27, 2927-33	3.2	10
4	Novel epigenetic regulation of skeletal muscle myosin heavy chain genes. Focus on "Differential epigenetic modifications of histones at the myosin heavy chain genes in fast and slow skeletal muscle fibers and in response to muscle unloading". <i>American Journal of Physiology - Cell Physiology</i> , <b>2009</b> , 297, C1-3	5.4	10
3	Multi-Institutional Survey of Faculty Experiences Teaching Capstones. <i>College Teaching</i> , <b>2020</b> , 68, 201-213	3.7	1
2	Last Word on Viewpoint: Gold standards for scientists who are conducting animal-based exercise studies. <i>Journal of Applied Physiology</i> , <b>2010</b> , 108, 226-226	3.7	
1	Effect of moderate fat/high sucrose diet on glycogen synthesis rates in rat skeletal muscle upon the cessation of voluntary wheel running. <i>FASEB Journal</i> , <b>2007</b> , 21, A691	0.9	

