

# Ian R Lanza

## List of Publications by Citations

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104  
papers

4,312  
citations

35  
h-index

65  
g-index

119  
ext. papers

5,245  
ext. citations

6.4  
avg, IF

5.5  
L-index

#	Paper	IF	Citations
104	A PGC-1 $\beta$ isoform induced by resistance training regulates skeletal muscle hypertrophy. <i>Cell</i> , <b>2012</b> , 151, 1319-31	56.2	431
103	Endurance exercise as a countermeasure for aging. <i>Diabetes</i> , <b>2008</b> , 57, 2933-42	0.9	398
102	Enhanced Protein Translation Underlies Improved Metabolic and Physical Adaptations to Different Exercise Training Modes in Young and Old Humans. <i>Cell Metabolism</i> , <b>2017</b> , 25, 581-592	24.6	239
101	Quantitative metabolomics by H-NMR and LC-MS/MS confirms altered metabolic pathways in diabetes. <i>PLoS ONE</i> , <b>2010</b> , 5, e10538	3.7	188
100	Cystathionine beta-synthase (CBS) contributes to advanced ovarian cancer progression and drug resistance. <i>PLoS ONE</i> , <b>2013</b> , 8, e79167	3.7	156
99	Functional assessment of isolated mitochondria in vitro. <i>Methods in Enzymology</i> , <b>2009</b> , 457, 349-72	1.7	152
98	Chronic caloric restriction preserves mitochondrial function in senescence without increasing mitochondrial biogenesis. <i>Cell Metabolism</i> , <b>2012</b> , 16, 777-88	24.6	143
97	Age-related changes in ATP-producing pathways in human skeletal muscle in vivo. <i>Journal of Applied Physiology</i> , <b>2005</b> , 99, 1736-44	3.7	137
96	Adipocyte mitochondrial function is reduced in human obesity independent of fat cell size. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2014</b> , 99, E209-16	5.6	125
95	Age-related enhancement of fatigue resistance is evident in men during both isometric and dynamic tasks. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 967-75	3.7	124
94	Methods for assessing mitochondrial function in diabetes. <i>Diabetes</i> , <b>2013</b> , 62, 1041-53	0.9	116
93	1 $\alpha$ ,25-Dihydroxyvitamin D3 Regulates Mitochondrial Oxygen Consumption and Dynamics in Human Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 1514-28	5.4	105
92	Mitochondrial function as a determinant of life span. <i>Pflügers Archiv European Journal of Physiology</i> , <b>2010</b> , 459, 277-89	4.6	104
91	Muscle mitochondrial changes with aging and exercise. <i>American Journal of Clinical Nutrition</i> , <b>2009</b> , 89, 467S-71S	7	95
90	Influence of fish oil on skeletal muscle mitochondrial energetics and lipid metabolites during high-fat diet. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2013</b> , 304, E1391-403	6	91
89	Effects of old age on human skeletal muscle energetics during fatiguing contractions with and without blood flow. <i>Journal of Physiology</i> , <b>2007</b> , 583, 1093-105	3.9	81
88	Influence of omega-3 fatty acids on skeletal muscle protein metabolism and mitochondrial bioenergetics in older adults. <i>Aging</i> , <b>2017</b> , 9, 1096-1129	5.6	79

87	Insulin-Sensitizing Effects of Omega-3 Fatty Acids: Lost in Translation?. <i>Nutrients</i> , <b>2016</b> , 8,	6.7	74
86	Sex differences in glycolysis during brief, intense isometric contractions. <i>Muscle and Nerve</i> , <b>2005</b> , 32, 647-55	3.4	71
85	Combined training enhances skeletal muscle mitochondrial oxidative capacity independent of age. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2015</b> , 100, 1654-63	5.6	70
84	Mechanism by Which Caloric Restriction Improves Insulin Sensitivity in Sedentary Obese Adults. <i>Diabetes</i> , <b>2016</b> , 65, 74-84	0.9	67
83	Defects in mitochondrial efficiency and H2O2 emissions in obese women are restored to a lean phenotype with aerobic exercise training. <i>Diabetes</i> , <b>2015</b> , 64, 2104-15	0.9	67
82	Measurement of human skeletal muscle oxidative capacity by 31P-MR spectroscopy: a cross-validation with in vitro measurements. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 34, 1143-50	5.6	66
81	In vivo ATP production during free-flow and ischaemic muscle contractions in humans. <i>Journal of Physiology</i> , <b>2006</b> , 577, 353-67	3.9	66
80	Mitochondrial DNA alterations and reduced mitochondrial function in aging. <i>Mechanisms of Ageing and Development</i> , <b>2010</b> , 131, 451-62	5.6	59
79	Mitochondrial metabolic function assessed in vivo and in vitro. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2010</b> , 13, 511-7	3.8	52
78	Differential Effect of Endurance Training on Mitochondrial Protein Damage, Degradation, and Acetylation in the Context of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2015</b> , 70, 1386-93	6.4	48
77	Effects of Dietary n-3 Fatty Acids on Hepatic and Peripheral Insulin Sensitivity in Insulin-Resistant Humans. <i>Diabetes Care</i> , <b>2015</b> , 38, 1228-37	14.6	46
76	Eicosapentaenoic acid but not docosahexaenoic acid restores skeletal muscle mitochondrial oxidative capacity in old mice. <i>Aging Cell</i> , <b>2015</b> , 14, 734-43	9.9	43
75	Interdependence of signal processing and analysis of urine 1H NMR spectra for metabolic profiling. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 6080-8	7.8	43
74	Unique cellular and mitochondrial defects mediate FK506-induced islet Ecell dysfunction. <i>Transplantation</i> , <b>2011</b> , 91, 615-23	1.8	42
73	Predictors of Whole-Body Insulin Sensitivity Across Ages and Adiposity in Adult Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2016</b> , 101, 626-34	5.6	39
72	Lower energy cost of skeletal muscle contractions in older humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2010</b> , 298, R729-39	3.2	37
71	Mitochondrial Aging and Physical Decline: Insights From Three Generations of Women. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2015</b> , 70, 1409-17	6.4	36
70	Altered Skeletal Muscle Mitochondrial Proteome As the Basis of Disruption of Mitochondrial Function in Diabetic Mice. <i>Diabetes</i> , <b>2016</b> , 65, 561-73	0.9	36

69	A longitudinal study of whole body, tissue, and cellular physiology in a mouse model of fibrosing NASH with high fidelity to the human condition. <i>American Journal of Physiology - Renal Physiology</i> , <b>2017</b> , 312, G666-G680	5.1	31
68	Contrasting influences of age and sex on muscle fatigue. <i>Medicine and Science in Sports and Exercise</i> , <b>2008</b> , 40, 234-41	1.2	31
67	Hyperglucagonemia Mitigates the Effect of Metformin on Glucose Production in Prediabetes. <i>Cell Reports</i> , <b>2016</b> , 15, 1394-1400	10.6	31
66	Lysosomal Storage and Albinism Due to Effects of a De Novo CLCN7 Variant on Lysosomal Acidification. <i>American Journal of Human Genetics</i> , <b>2019</b> , 104, 1127-1138	11	30
65	Meteorin-like facilitates skeletal muscle repair through a Stat3/IGF-1 mechanism. <i>Nature Metabolism</i> , <b>2020</b> , 2, 278-289	14.6	28
64	TFAM Enhances Fat Oxidation and Attenuates High-Fat Diet-Induced Insulin Resistance in Skeletal Muscle. <i>Diabetes</i> , <b>2019</b> , 68, 1552-1564	0.9	26
63	Insulin deficiency and intranasal insulin alter brain mitochondrial function: a potential factor for dementia in diabetes. <i>FASEB Journal</i> , <b>2019</b> , 33, 4458-4472	0.9	25
62	The clinical impact and biological mechanisms of skeletal muscle aging. <i>Bone</i> , <b>2019</b> , 127, 26-36	4.7	22
61	Impact of insulin deprivation and treatment on sphingolipid distribution in different muscle subcellular compartments of streptozotocin-diabetic C57Bl/6 mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2014</b> , 306, E529-42	6	20
60	The impact of old age on skeletal muscle energetics: supply and demand. <i>Current Aging Science</i> , <b>2011</b> , 4, 234-47	2.2	20
59	De Novo Variants in WDR37 Are Associated with Epilepsy, Colobomas, Dysmorphism, Developmental Delay, Intellectual Disability, and Cerebellar Hypoplasia. <i>American Journal of Human Genetics</i> , <b>2019</b> , 105, 413-424	11	19
58	Partial Loss of USP9X Function Leads to a Male Neurodevelopmental and Behavioral Disorder Converging on Transforming Growth Factor $\beta$ Signaling. <i>Biological Psychiatry</i> , <b>2020</b> , 87, 100-112	7.9	19
57	De Novo Pathogenic Variants in N-cadherin Cause a Syndromic Neurodevelopmental Disorder with Corpus Collosum, Axon, Cardiac, Ocular, and Genital Defects. <i>American Journal of Human Genetics</i> , <b>2019</b> , 105, 854-868	11	17
56	Exerkines in health, resilience and disease.. <i>Nature Reviews Endocrinology</i> , <b>2022</b> ,	15.2	17
55	Urinary Metabolites Associated with Blood Pressure on a Low- or High-Sodium Diet. <i>Theranostics</i> , <b>2018</b> , 8, 1468-1480	12.1	15
54	Very-long-chain -3 fatty acid supplements and adipose tissue functions: a randomized controlled trial. <i>American Journal of Clinical Nutrition</i> , <b>2017</b> , 105, 1552-1558	7	14
53	Intracellular energetics and critical PO <sub>2</sub> in resting ischemic human skeletal muscle in vivo. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2010</b> , 299, R1415-22	3.2	14
52	EPA and DHA elicit distinct transcriptional responses to high-fat feeding in skeletal muscle and liver. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2019</b> , 317, E460-E472	6	12

51	Chronically endurance-trained individuals preserve skeletal muscle mitochondrial gene expression with age but differences within age groups remain. <i>Physiological Reports</i> , <b>2014</b> , 2, e12239	2.6	12
50	High fat diet consumption results in mitochondrial dysfunction, oxidative stress, and oligodendrocyte loss in the central nervous system. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2020</b> , 1866, 165630	6.9	12
49	Metabo- and mechanoreceptor expression in human heart failure: Relationships with the locomotor muscle afferent influence on exercise responses. <i>Experimental Physiology</i> , <b>2020</b> , 105, 809-818	2.4	11
48	1[25-dihydroxyvitamin D mitigates cancer cell mediated mitochondrial dysfunction in human skeletal muscle cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 496, 746-752	3.4	11
47	Extramyocellular interleukin-6 influences skeletal muscle mitochondrial physiology through canonical JAK/STAT signaling pathways. <i>FASEB Journal</i> , <b>2020</b> , 34, 14458-14472	0.9	11
46	A comprehensive protocol for multiplatform metabolomics analysis in patient-derived skin fibroblasts. <i>Metabolomics</i> , <b>2019</b> , 15, 83	4.7	9
45	Application of high-resolution mass spectrometry to measure low abundance isotope enrichment in individual muscle proteins. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 4045-52	4.4	9
44	A Western diet impairs CNS energy homeostasis and recovery after spinal cord injury: Link to astrocyte metabolism. <i>Neurobiology of Disease</i> , <b>2020</b> , 141, 104934	7.5	8
43	Can dietary nitrates enhance the efficiency of mitochondria?. <i>Cell Metabolism</i> , <b>2011</b> , 13, 117-8	24.6	8
42	Attenuated activation of the unfolded protein response following exercise in skeletal muscle of older adults. <i>Aging</i> , <b>2019</b> , 11, 7587-7604	5.6	8
41	Intramyocellular oxygenation during ischemic muscle contractions in vivo. <i>European Journal of Applied Physiology</i> , <b>2009</b> , 106, 333-43	3.4	7
40	Pro-inflammatory T cell small extracellular vesicles induce T cell failure through activation of the CXCL10/CXCR3 axis in diabetes. <i>Cell Reports</i> , <b>2021</b> , 36, 109613	10.6	7
39	Methylarginine metabolites are associated with attenuated muscle protein synthesis in cancer-associated muscle wasting. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 17441-17459	5.4	6
38	Adipose tissue macrophage populations and inflammation are associated with systemic inflammation and insulin resistance in obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2021</b> , 321, E105-E121	6	6
37	Noninvasive Monitoring of the Mitochondrial Function in Mesenchymal Stromal Cells. <i>Molecular Imaging and Biology</i> , <b>2016</b> , 18, 510-8	3.8	5
36	Association of UCP-3 rs1626521 with obesity and stomach functions in humans. <i>Obesity</i> , <b>2015</b> , 23, 898-906		5
35	Contraction frequency modulates muscle fatigue and the rate of myoglobin desaturation during incremental contractions in humans. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2008</b> , 33, 915-21	3	5
34	A size-exclusion-based approach for purifying extracellular vesicles from human plasma. <i>Cell Reports Methods</i> , <b>2021</b> , 1, 100055-100055		5

33	Distinct Influence of Omega-3 Fatty Acids on the Plasma Metabolome of Healthy Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2020</b> , 75, 875-884	6.4	5
32	Metabolic Flux Analysis: Moving beyond Static Metabolomics. <i>Trends in Biochemical Sciences</i> , <b>2020</b> , 45, 545-546	10.3	4
31	Magnetic Resonance Imaging characteristics in case of TOR1AIP1 muscular dystrophy. <i>Clinical Imaging</i> , <b>2019</b> , 58, 108-113	2.7	4
30	The secretome of senescent preadipocytes influences the phenotype and function of cells of the vascular wall. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2021</b> , 1867, 165983	6.9	4
29	Impaired Muscle Mitochondrial Function in Familial Partial Lipodystrophy. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2021</b> ,	5.6	3
28	Impaired cardiac performance, protein synthesis, and mitochondrial function in tumor-bearing mice. <i>PLoS ONE</i> , <b>2019</b> , 14, e0226440	3.7	3
27	Mitochondrial ADP Sensitivity and Transport: New Insights Into Diet-Induced Mitochondrial Impairments. <i>Diabetes</i> , <b>2018</b> , 67, 2152-2153	0.9	3
26	A preliminary study of the association of increased anterior cingulate gamma-aminobutyric acid with remission of depression after ketamine administration. <i>Psychiatry Research</i> , <b>2021</b> , 301, 113953	9.9	3
25	Enhancing the Metabolic Benefits of Bariatric Surgery: Tipping the Scales With Exercise. <i>Diabetes</i> , <b>2015</b> , 64, 3656-8	0.9	2
24	Cerebellar and multi-system metabolic reprogramming associated with trauma exposure and post-traumatic stress disorder (PTSD)-like behavior in mice. <i>Neurobiology of Stress</i> , <b>2021</b> , 14, 100300	7.6	2
23	Senolytic agents lessen the severity of abdominal aortic aneurysm in aged mice. <i>Experimental Gerontology</i> , <b>2021</b> , 151, 111416	4.5	2
22	Assessment of proteins of the immune system <b>2013</b> , 1145-1159		1
21	Skeletal muscle mitochondrial dysfunction and muscle and whole-body functional deficits in cancer patients with weight loss.. <i>Journal of Applied Physiology</i> , <b>2021</b> ,	3.7	1
20	Aging metabolism: Evitable or inevitable?. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 324ec19-324ec19	17.5	1
19	Effects of local Interleukin-6 on Skeletal Muscle Mitochondrial Physiology. <i>FASEB Journal</i> , <b>2018</b> , 32, 603.0.9		1
18	Influence of Fish Oil on Skeletal Muscle Mitochondrial Energetics and Lipid Metabolites during High-Fat Diet. <i>FASEB Journal</i> , <b>2013</b> , 27, 1154.8	0.9	1
17	Preserved skeletal muscle oxidative capacity in older adults despite decreased cardiorespiratory fitness with ageing. <i>Journal of Physiology</i> , <b>2021</b> , 599, 3581-3592	3.9	1
16	Impact of obesity on the molecular response to a single bout of exercise in a preliminary human cohort.. <i>Obesity</i> , <b>2022</b> , 30, 1091-1104	8	1

- 15 Reply to SN Thornton and K Hess. *American Journal of Clinical Nutrition*, **2009**, 89, 1476-1477 7 0
- 14 Intracellular Critical PO<sub>2</sub> Measured in Human Skeletal Muscle In Vivo. *FASEB Journal*, **2008**, 22, 962.24 0.9
- 13 Intracellular Oxygenation During Ischemic Muscle Contractions. *FASEB Journal*, **2008**, 22, 962.20 0.9
- 12 In vivo mitochondrial function varies with muscle and training status in young adults. *FASEB Journal*, **2008**, 22, 958.13 0.9
- 11 The Impact of Long-Term Physical Activity on Age-Related Changes in Protein and Gene Expression. *FASEB Journal*, **2008**, 22, 1163.21 0.9
- 10 Association between high fat consumption, myelin loss, and mitochondrial dynamics. *FASEB Journal*, **2018**, 32, 543.15 0.9
- 9 Caloric Restriction Attenuates Many Age-Related Changes in Skeletal Muscle Mitochondrial Physiology. *FASEB Journal*, **2010**, 24, 621.1 0.9
- 8 Effect of exercise training modality on skeletal muscle mitochondrial biogenesis in young and older adults. *FASEB Journal*, **2011**, 25, 1107.20 0.9
- 7 Fish oil protects against diet-induced insulin resistance and modifies ceramide composition and mitochondrial physiology in skeletal muscle. *FASEB Journal*, **2011**, 25, 1095.8 0.9
- 6 Impaired cardiac performance, protein synthesis, and mitochondrial function in tumor-bearing mice **2019**, 14, e0226440
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- 1 Impaired cardiac performance, protein synthesis, and mitochondrial function in tumor-bearing mice **2019**, 14, e0226440