

# Anna E Thalacker-Mercer

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

2,261  
citations

304701

22  
h-index

243610

44  
g-index

55  
all docs

55  
docs citations

55  
times ranked

4414  
citing authors

#	ARTICLE	IF	CITATIONS
1	Histone Methylation Dynamics and Gene Regulation Occur through the Sensing of One-Carbon Metabolism. <i>Cell Metabolism</i> , 2015, 22, 861-873.	16.2	481
2	Differential DNA methylation with age displays both common and dynamic features across human tissues that are influenced by CpG landscape. <i>Genome Biology</i> , 2013, 14, R102.	9.6	291
3	Production and supply of high-quality food protein for human consumption: sustainability, challenges, and innovations. <i>Annals of the New York Academy of Sciences</i> , 2014, 1321, 1-19.	3.8	184
4	Heightened muscle inflammation susceptibility may impair regenerative capacity in aging humans. <i>Journal of Applied Physiology</i> , 2013, 115, 937-948.	2.5	107
5	Simvastatin impairs ADP-stimulated respiration and increases mitochondrial oxidative stress in primary human skeletal myotubes. <i>Free Radical Biology and Medicine</i> , 2012, 52, 198-207.	2.9	104
6	Cluster analysis reveals differential transcript profiles associated with resistance training-induced human skeletal muscle hypertrophy. <i>Physiological Genomics</i> , 2013, 45, 499-507.	2.3	91
7	Differential genomic responses in old vs. young humans despite similar levels of modest muscle damage after resistance loading. <i>Physiological Genomics</i> , 2010, 40, 141-149.	2.3	89
8	BMI, RQ, Diabetes, and Sex Affect the Relationships Between Amino Acids and Clamp Measures of Insulin Action in Humans. <i>Diabetes</i> , 2014, 63, 791-800.	0.6	76
9	Understanding Age-Related Changes in Skeletal Muscle Metabolism: Differences Between Females and Males. <i>Annual Review of Nutrition</i> , 2016, 36, 129-156.	10.1	64
10	Human neuromuscular aging: Sex differences revealed at the myocellular level. <i>Experimental Gerontology</i> , 2018, 106, 116-124.	2.8	64
11	Inadequate protein intake affects skeletal muscle transcript profiles in older humans. <i>American Journal of Clinical Nutrition</i> , 2007, 85, 1344-1352.	4.7	63
12	Liquid and Solid Meal Replacement Products Differentially Affect Postprandial Appetite and Food Intake in Older Adults. <i>Journal of the American Dietetic Association</i> , 2008, 108, 1226-1230.	1.1	63
13	Randomized, four-arm, dose-response clinical trial to optimize resistance exercise training for older adults with age-related muscle atrophy. <i>Experimental Gerontology</i> , 2017, 99, 98-109.	2.8	62
14	The metabolic fate of isotopically labeled trimethylamine- N -oxide (TMAO) in humans. <i>Journal of Nutritional Biochemistry</i> , 2017, 45, 77-82.	4.2	43
15	A defined N6-methyladenosine (m6A) profile conferred by METTL3 regulates muscle stem cell/myoblast state transitions. <i>Cell Death Discovery</i> , 2020, 6, 95.	4.7	41
16	Benefits and Adverse Effects of Histidine Supplementation. <i>Journal of Nutrition</i> , 2020, 150, 2588S-2592S.	2.9	34
17	Nutrient Ingestion, Protein Intake, and Sex, but Not Age, Affect the Albumin Synthesis Rate in Humans <sup>3</sup> . <i>Journal of Nutrition</i> , 2007, 137, 1734-1740.	2.9	33
18	Extracellular serine and glycine are required for mouse and human skeletal muscle stem and progenitor cell function. <i>Molecular Metabolism</i> , 2021, 43, 101106.	6.5	31

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19	Whole Blueberry and Isolated Polyphenol-Rich Fractions Modulate Specific Gut Microbes in an In Vitro Colon Model and in a Pilot Study in Human Consumers. <i>Nutrients</i> , 2020, 12, 2800.	4.1	30
20	Increased Expression of Atrogenes and TWEAK Family Members after Severe Burn Injury in Nonburned Human Skeletal Muscle. <i>Journal of Burn Care and Research</i> , 2013, 34, e297-e304.	0.4	28
21	Dietary protein intake affects albumin fractional synthesis rate in younger and older adults equally. <i>Nutrition Reviews</i> , 2008, 66, 91-95.	5.8	27
22	Does habitual dietary intake influence myofiber hypertrophy in response to resistance training? A cluster analysis. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009, 34, 632-639.	1.9	27
23	NaCT/SLC13A5 facilitates citrate import and metabolism under nutrient-limited conditions. <i>Cell Reports</i> , 2021, 36, 109701.	6.4	23
24	Expansion capacity of human muscle progenitor cells differs by age, sex, and metabolic fuel preference. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C643-C652.	4.6	21
25	Mechanisms of exercise as a preventative measure to muscle wasting. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C40-C57.	4.6	21
26	The importance of dietary protein for muscle health in inactive, hospitalized older adults. <i>Annals of the New York Academy of Sciences</i> , 2014, 1328, 1-9.	3.8	17
27	The skeletal muscle transcript profile reflects accommodative responses to inadequate protein intake in younger and older males. <i>Journal of Nutritional Biochemistry</i> , 2010, 21, 1076-1082.	4.2	16
28	Osteosarcopenia in Reproductive-Aged Women with Polycystic Ovary Syndrome: A Multicenter Case-Control Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, e3400-e3414.	3.6	15
29	Lifelong Ulk1-Mediated Autophagy Deficiency in Muscle Induces Mitochondrial Dysfunction and Contractile Weakness. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1937.	4.1	14
30	Protein and amino acids for skeletal muscle health in aging. <i>Advances in Food and Nutrition Research</i> , 2020, 91, 29-64.	3.0	13
31	Transcript profile distinguishes variability in human myogenic progenitor cell expansion capacity. <i>Physiological Genomics</i> , 2018, 50, 817-827.	2.3	11
32	Isolation, Culture, Characterization, and Differentiation of Human Muscle Progenitor Cells from the Skeletal Muscle Biopsy Procedure. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	11
33	Dietary Protein Intake Is Positively Associated with Appendicular Lean Mass and Handgrip Strength among Middle-Aged US Adults. <i>Journal of Nutrition</i> , 2021, 151, 3755-3763.	2.9	11
34	Genetic variation in genes regulating skeletal muscle regeneration and tissue remodelling associated with weight loss in chronic obstructive pulmonary disease. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021, 12, 1803-1817.	7.3	11
35	Peptide YY (PYY) Is Expressed in Human Skeletal Muscle Tissue and Expanding Human Muscle Progenitor Cells. <i>Frontiers in Physiology</i> , 2019, 10, 188.	2.8	8
36	Tolerance to graded dosages of histidine supplementation in healthy human adults. <i>American Journal of Clinical Nutrition</i> , 2020, 112, 1358-1367.	4.7	8

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37	Reduced Shmt2 Expression Impairs Mitochondrial Folate Accumulation and Respiration, and Leads to Uracil Accumulation in Mouse Mitochondrial DNA. <i>Journal of Nutrition</i> , 2021, 151, 2882-2893.	2.9	8
38	Consumption of a Blueberry-Enriched Diet by Women for 6 Weeks Alters Determinants of Human Muscle Progenitor Cell Function. <i>Journal of Nutrition</i> , 2020, 150, 2412-2418.	2.9	4
39	Amino acids in healthy aging skeletal muscle. <i>Frontiers in Bioscience - Elite</i> , 2016, 8, 326-350.	1.8	4
40	Safety of Graded-doses of Histidine in Healthy Adults (P08-062-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz044.P08-062-19.	0.3	3
41	Insulin-Like Growth Factor System in Different Ethnic Groups and Relationship with Growth and Health. , 2012, , 1471-1490.		2
42	Glycolytic and Mitochondrial Metabolism Are Essential for Muscle Progenitor Cell Proliferation and Impacted by Pyruvate Kinase M2 (P08-135-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz044.P08-135-19.	0.3	1
43	Response to Letter to the Editor from Smith et al: "Osteosarcopenia in Reproductive-Aged Women With Polycystic Ovary Syndrome: A Multicenter Case-Control Study" <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e1500-e1501.	3.6	1
44	Impact of the Whole Genome Duplication Event on PYK Activity and Effects of a PYK1 Mutation on Metabolism in <i>S. cerevisiae</i> . <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 656461.	3.5	1
45	The Essentiality of Serine and Glycine for Skeletal Muscle Regeneration. <i>FASEB Journal</i> , 2019, 33, 590.5.	0.5	1
46	Higher Protein Diets Oppose Changes in Skeletal Muscle Transcriptome with Age (OR18-03-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz028.OR18-03-19.	0.3	0
47	Effects of Arginine and Inflammation on Protein Metabolism in Human Skeletal Muscle Cells (P01-034-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz028.P01-034-19.	0.3	0
48	Serine and Glycine Are Essential for Human Muscle Progenitor Cell Proliferation (P08-063-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz044.P08-063-19.	0.3	0
49	Serine and Glycine Are Essential for Skeletal Muscle Regeneration Following Injury. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa040_081.	0.3	0
50	Discovery and application of dietary compounds to optimize human health, a focus on skeletal muscle regeneration. <i>Current Opinion in Biotechnology</i> , 2021, 70, 131-135.	6.6	0
51	Editorial overview: Food biotechnology. <i>Current Opinion in Biotechnology</i> , 2021, 70, iii-v.	6.6	0