

# M Luisa Bonet

## List of Publications by Citations

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84  
papers

3,763  
citations

35  
h-index

60  
g-index

85  
ext. papers

4,293  
ext. citations

5.2  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
84	A global perspective on carotenoids: Metabolism, biotechnology, and benefits for nutrition and health. <i>Progress in Lipid Research</i> , <b>2018</b> , 70, 62-93	14.3	363
83	Pharmacological and nutritional agents promoting browning of white adipose tissue. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2013</b> , 1831, 969-85	5	189
82	Remodeling of white adipose tissue after retinoic acid administration in mice. <i>Endocrinology</i> , <b>2006</b> , 147, 5325-32	4.8	185
81	UCP1 induction during recruitment of brown adipocytes in white adipose tissue is dependent on cyclooxygenase activity. <i>PLoS ONE</i> , <b>2010</b> , 5, e11391	3.7	155
80	Vitamin A and the regulation of fat reserves. <i>Cellular and Molecular Life Sciences</i> , <b>2003</b> , 60, 1311-21	10.3	142
79	Lipid metabolism in mammalian tissues and its control by retinoic acid. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2012</b> , 1821, 177-89	5	131
78	Carotenoids and their conversion products in the control of adipocyte function, adiposity and obesity. <i>Archives of Biochemistry and Biophysics</i> , <b>2015</b> , 572, 112-125	4.1	122
77	Beta-carotene reduces body adiposity of mice via BCMO1. <i>PLoS ONE</i> , <b>2011</b> , 6, e20644	3.7	111
76	Changes of adiposity in response to vitamin A status correlate with changes of PPAR gamma 2 expression. <i>Obesity</i> , <b>2001</b> , 9, 500-9		109
75	In vitro and in vivo induction of brown adipocyte uncoupling protein (thermogenin) by retinoic acid. <i>Biochemical Journal</i> , <b>1996</b> , 317 ( Pt 3), 827-33	3.8	109
74	Modulation of resistin expression by retinoic acid and vitamin A status. <i>Diabetes</i> , <b>2004</b> , 53, 882-9	0.9	106
73	Beta,beta-carotene decreases peroxisome proliferator receptor gamma activity and reduces lipid storage capacity of adipocytes in a beta,beta-carotene oxygenase 1-dependent manner. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 27891-9	5.4	103
72	The uncoupling protein, thermogenin. <i>International Journal of Biochemistry and Cell Biology</i> , <b>1998</b> , 30, 7-11	5.6	103
71	Opposite effects of feeding a vitamin A-deficient diet and retinoic acid treatment on brown adipose tissue uncoupling protein 1 (UCP1), UCP2 and leptin expression. <i>Journal of Endocrinology</i> , <b>2000</b> , 166, 511-7	4.7	91
70	Estimated acid dissociation constants of the Schiff base, Asp-85, and Arg-82 during the bacteriorhodopsin photocycle. <i>Biophysical Journal</i> , <b>1993</b> , 65, 124-30	2.9	91
69	Resveratrol enhances fatty acid oxidation capacity and reduces resistin and Retinol-Binding Protein 4 expression in white adipocytes. <i>Journal of Nutritional Biochemistry</i> , <b>2011</b> , 22, 828-34	6.3	74
68	Retinoic acid treatment enhances lipid oxidation and inhibits lipid biosynthesis capacities in the liver of mice. <i>Cellular Physiology and Biochemistry</i> , <b>2010</b> , 25, 657-66	3.9	74

67	Obesity: molecular bases of a multifactorial problem. <i>European Journal of Nutrition</i> , <b>2000</b> , 39, 127-44	5.2	68
66	All-trans retinoic acid increases oxidative metabolism in mature adipocytes. <i>Cellular Physiology and Biochemistry</i> , <b>2007</b> , 20, 1061-72	3.9	63
65	Retinoic acid treatment increases lipid oxidation capacity in skeletal muscle of mice. <i>Obesity</i> , <b>2008</b> , 16, 585-91	8	57
64	Brown adipose tissue response to cafeteria diet-feeding involves induction of the UCP2 gene and is impaired in female rats as compared to males. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1999</b> , 438, 628-634	4.6	55
63	All-trans retinoic acid induces oxidative phosphorylation and mitochondria biogenesis in adipocytes. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 1100-9	6.3	54
62	beta-Carotene conversion products and their effects on adipose tissue. <i>Genes and Nutrition</i> , <b>2009</b> , 4, 179-87	4.3	54
61	Up-regulation of muscle uncoupling protein 3 gene expression in mice following high fat diet, dietary vitamin A supplementation and acute retinoic acid-treatment. <i>International Journal of Obesity</i> , <b>2003</b> , 27, 60-9	5.5	54
60	Effects of retinoic acid administration and dietary vitamin A supplementation on leptin expression in mice: lack of correlation with changes of adipose tissue mass and food intake. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2005</b> , 1740, 258-65	6.9	50
59	Induction of uncoupling protein-1 in mouse embryonic fibroblast-derived adipocytes by retinoic acid. <i>Obesity</i> , <b>2010</b> , 18, 655-62	8	49
58	All-trans retinoic acid decreases murine adipose retinol binding protein 4 production. <i>Cellular Physiology and Biochemistry</i> , <b>2008</b> , 22, 363-72	3.9	46
57	Stimulation of uncoupling protein 1 expression in brown adipocytes by naturally occurring carotenoids. <i>International Journal of Obesity</i> , <b>1999</b> , 23, 650-5	5.5	46
56	Induction of carnitine palmitoyl transferase 1 and fatty acid oxidation by retinoic acid in HepG2 cells. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2012</b> , 44, 2019-27	5.6	41
55	Involvement of the retinoblastoma protein in brown and white adipocyte cell differentiation: functional and physical association with the adipogenic transcription factor C/EBPalpha. <i>European Journal of Cell Biology</i> , <b>1998</b> , 77, 117-23	6.1	41
54	A nutritional perspective on UCP1-dependent thermogenesis. <i>Biochimie</i> , <b>2017</b> , 134, 99-117	4.6	40
53	Haploinsufficiency of the retinoblastoma protein gene reduces diet-induced obesity, insulin resistance, and hepatosteatosis in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 297, E184-93	6	36
52	Effects of genetic replacements of charged and H-bonding residues in the retinal pocket on Ca <sup>2+</sup> binding to deionized bacteriorhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1993</b> , 90, 1445-9	11.5	36
51	Carotenoids in Adipose Tissue Biology and Obesity. <i>Sub-Cellular Biochemistry</i> , <b>2016</b> , 79, 377-414	5.5	36
50	Distinct effects of oleic acid and its trans-isomer elaidic acid on the expression of myokines and adipokines in cell models. <i>British Journal of Nutrition</i> , <b>2011</b> , 105, 1226-34	3.6	35

49	Retinol-binding protein 4 and nicotinamide phosphoribosyltransferase/visfatin in rat obesity models. <i>Hormone and Metabolic Research</i> , <b>2008</b> , 40, 467-72	3.1	32
48	Retinoic Acid Increases Fatty Acid Oxidation and Irisin Expression in Skeletal Muscle Cells and Impacts Irisin In Vivo. <i>Cellular Physiology and Biochemistry</i> , <b>2018</b> , 46, 187-202	3.9	28
47	Decreased RB1 mRNA, protein, and activity reflect obesity-induced altered adipogenic capacity in human adipose tissue. <i>Diabetes</i> , <b>2013</b> , 62, 1923-31	0.9	28
46	Identification of Mest/Peg1 gene expression as a predictive biomarker of adipose tissue expansion sensitive to dietary anti-obesity interventions. <i>Genes and Nutrition</i> , <b>2015</b> , 10, 27	4.3	26
45	Vitamin A supplementation in early life affects later response to an obesogenic diet in rats. <i>International Journal of Obesity</i> , <b>2013</b> , 37, 1169-76	5.5	25
44	Retinoic acid modulates retinoid X receptor alpha and retinoic acid receptor alpha levels of cultured brown adipocytes. <i>FEBS Letters</i> , <b>1997</b> , 406, 196-200	3.8	25
43	Knockout of the Bcmo1 gene results in an inflammatory response in female lung, which is suppressed by dietary beta-carotene. <i>Cellular and Molecular Life Sciences</i> , <b>2010</b> , 67, 2039-56	10.3	24
42	Positive correlation of skeletal muscle UCP3 mRNA levels with overweight in male, but not in female, rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2003</b> , 285, R880-8	3.2	22
41	A Lipophilic Fucoxanthin-Rich Extract Ameliorates Effects of Diet-Induced Obesity in C57BL/6J Mice. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	21
40	Carotenoids and carotenoid conversion products in adipose tissue biology and obesity: Pre-clinical and human studies. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2020</b> , 1865, 158676	5	19
39	Programming of the Beige Phenotype in White Adipose Tissue of Adult Mice by Mild Resveratrol and Nicotinamide Riboside Supplementations in Early Postnatal Life. <i>Molecular Nutrition and Food Research</i> , <b>2018</b> , 62, e1800463	5.9	19
38	Stimulation of uncoupling protein synthesis in white adipose tissue of mice treated with the beta 3-adrenergic agonist CGP-12177. <i>Cellular and Molecular Life Sciences</i> , <b>1998</b> , 54, 191-5	10.3	18
37	Improved metabolic regulation is associated with retinoblastoma protein gene haploinsufficiency in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2015</b> , 308, E172-83	6	17
36	Nutritional potential of metabolic remodelling of white adipose tissue. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2013</b> , 16, 650-6	3.8	17
35	Summary and general conclusions/outcomes on the role and fate of sugars in human nutrition and health. <i>Obesity Reviews</i> , <b>2009</b> , 10 Suppl 1, 55-8	10.6	17
34	Bioethics in human nutrigenomics research: European Nutrigenomics Organisation workshop report. <i>British Journal of Nutrition</i> , <b>2006</b> , 95, 1024-7	3.6	17
33	Retinoic acid administration and vitamin A status modulate retinoid X receptor alpha and retinoic acid receptor alpha levels in mouse brown adipose tissue. <i>Molecular and Cellular Biochemistry</i> , <b>2004</b> , 266, 25-30	4.2	17
32	Blood cells transcriptomics as source of potential biomarkers of articular health improvement: effects of oral intake of a rooster combs extract rich in hyaluronic acid. <i>Genes and Nutrition</i> , <b>2014</b> , 9, 4174-3	4.3	15

31	Molecular players at the intersection of obesity and osteoarthritis. <i>Current Drug Targets</i> , <b>2011</b> , 12, 2103-38	15
30	Food safety and functional foods in the European Union: obesity as a paradigmatic example for novel food development. <i>Nutrition Reviews</i> , <b>2004</b> , 62, S169-81	6.4 15
29	Dietary vitamin A impacts DNA methylation patterns of adipogenesis-related genes in suckling rats. <i>Archives of Biochemistry and Biophysics</i> , <b>2018</b> , 650, 75-84	4.1 15
28	Antihyperlipidemic effect of a Rhamnus alaternus leaf extract in Triton-induced hyperlipidemic rats and human HepG2 cells. <i>Biomedicine and Pharmacotherapy</i> , <b>2018</b> , 101, 501-509	7.5 14
27	β-Carotene during the suckling period is absorbed intact and induces retinoic acid dependent responses similar to preformed vitamin A in intestine and liver, but not adipose tissue of young rats. <i>Molecular Nutrition and Food Research</i> , <b>2014</b> , 58, 2157-65	5.9 14
26	On the role and fate of sugars in human nutrition and health. Introduction. <i>Obesity Reviews</i> , <b>2009</b> , 10 Suppl 1, 1-8	10.6 14
25	Mechanistic aspects of carotenoid health benefits - where are we now?. <i>Nutrition Research Reviews</i> , <b>2021</b> , 34, 276-302	7 14
24	Gene expression response of mouse lung, liver and white adipose tissue to β-carotene supplementation, knockout of Bcmo1 and sex. <i>Molecular Nutrition and Food Research</i> , <b>2011</b> , 55, 1466-74	5.9 13
23	Downregulation of Fzd6 and Cthrc1 and upregulation of olfactory receptors and protocadherins by dietary beta-carotene in lungs of Bcmo1 <sup>-/-</sup> mice. <i>Carcinogenesis</i> , <b>2010</b> , 31, 1329-37	4.6 13
22	In vivo effects of CGP-12177 on the expression of leptin and uncoupling protein genes in mouse brown and white adipose tissues. <i>International Journal of Obesity</i> , <b>2000</b> , 24, 423-8	5.5 13
21	Purification and some properties of an atypical alkaline p-nitrophenylphosphate phosphatase activity from Halobacterium halobium. <i>International Journal of Biochemistry &amp; Cell Biology</i> , <b>1991</b> , 23, 1445-1451 <sup>13</sup>	
20	DNA Methylation Changes are Associated with the Programming of White Adipose Tissue Browning Features by Resveratrol and Nicotinamide Riboside Neonatal Supplementations in Mice. <i>Nutrients</i> , <b>2020</b> , 12,	6.7 12
19	Whole Blood RNA as a Source of Transcript-Based Nutrition- and Metabolic Health-Related Biomarkers. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155361	3.7 11
18	Synergistic Effects of a Mixture of Glycosaminoglycans to Inhibit Adipogenesis and Enhance Chondrocyte Features in Multipotent Cells. <i>Cellular Physiology and Biochemistry</i> , <b>2015</b> , 37, 1792-806	3.9 10
17	Selective loss of the uncoupling protein from light versus heavy mitochondria of brown adipocytes after a decrease in noradrenergic stimulation in vivo and in vitro. <i>Biochemical Journal</i> , <b>1995</b> , 311 ( Pt 1), 327-31	3.8 10
16	Neonatal Resveratrol and Nicotinamide Riboside Supplementations Sex-Dependently Affect Beige Transcriptional Programming of Preadipocytes in Mouse Adipose Tissue. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 83	4.6 9
15	Retinoblastoma Protein Knockdown Favors Oxidative Metabolism and Glucose and Fatty Acid Disposal in Muscle Cells. <i>Journal of Cellular Physiology</i> , <b>2016</b> , 231, 708-18	7 9
14	Cell-Autonomous Brown-Like Adipogenesis of Preadipocytes From Retinoblastoma Haploinsufficient Mice. <i>Journal of Cellular Physiology</i> , <b>2016</b> , 231, 1941-52	7 9

13	White adipose tissue reference network: a knowledge resource for exploring health-relevant relations. <i>Genes and Nutrition</i> , <b>2015</b> , 10, 439	4.3	8
12	Controlling lipogenesis and thermogenesis and the use of ergogenic aids for weight control <b>2007</b> , 58-103		5
11	Anti-obesity and insulin-sensitising effects of a glycosaminoglycan mix. <i>Journal of Functional Foods</i> , <b>2016</b> , 26, 350-362	5.1	4
10	Long-term programming of skeletal muscle and liver lipid and energy metabolism by resveratrol supplementation to suckling mice. <i>Journal of Nutritional Biochemistry</i> , <b>2021</b> , 95, 108770	6.3	4
9	Genetics and Nutrigenomics of Obesity <b>2011</b> , 253-290		3
8	The catalytic site is located on subunit I of the ATPase from <i>Halobacterium saccharovorum</i> . A direct photoaffinity labeling study. <i>FEBS Journal</i> , <b>1992</b> , 207, 369-76		3
7	Evidence that the alkaline P-nitrophenylphosphate phosphatase from <i>Halobacterium halobium</i> is a manganese-containing enzyme. <i>International Journal of Biochemistry &amp; Cell Biology</i> , <b>1993</b> , 25, 7-12		3
6	Novel Markers of the Metabolic Impact of Exogenous Retinoic Acid with A Focus on Acylcarnitines and Amino Acids. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	2
5	Nicotinamide Riboside Supplementation to Suckling Male Mice Improves Lipid and Energy Metabolism in Skeletal Muscle and Liver in Adulthood. <i>Nutrients</i> , <b>2022</b> , 14, 2259	6.7	0
4	Diminished response to food deprivation of the rat brown adipose tissue mitochondrial uncoupling system with age. <i>IUBMB Life</i> , <b>1997</b> , 42, 1151-61	4.7	
3	Mouse Models to Study Antiobesogenic Effects of Carotenoids. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2083, 403-417	1.4	
2	Muscle Hormones <b>2020</b> , 585-605		
1	Regulation of Gene Expression <b>2020</b> , 17-25		