

# Maria ngeles Martin

## List of Publications by Citations

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101  
papers

3,545  
citations

36  
h-index

55  
g-index

105  
ext. papers

4,044  
ext. citations

5.2  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
101	Quercetin induces apoptosis via caspase activation, regulation of Bcl-2, and inhibition of PI-3-kinase/Akt and ERK pathways in a human hepatoma cell line (HepG2). <i>Journal of Nutrition</i> , <b>2006</b> , 136, 2715-21	4.1	242
100	Quercetin modulates Nrf2 and glutathione-related defenses in HepG2 cells: Involvement of p38. <i>Chemico-Biological Interactions</i> , <b>2012</b> , 195, 154-64	5	119
99	Cocoa flavonoids up-regulate antioxidant enzyme activity via the ERK1/2 pathway to protect against oxidative stress-induced apoptosis in HepG2 cells. <i>Journal of Nutritional Biochemistry</i> , <b>2010</b> , 21, 196-205	6.3	112
98	Cocoa flavonoids attenuate high glucose-induced insulin signalling blockade and modulate glucose uptake and production in human HepG2 cells. <i>Food and Chemical Toxicology</i> , <b>2014</b> , 64, 10-9	4.7	107
97	Cocoa flavonoids improve insulin signalling and modulate glucose production via AKT and AMPK in HepG2 cells. <i>Molecular Nutrition and Food Research</i> , <b>2013</b> , 57, 974-85	5.9	105
96	Hydroxytyrosol induces antioxidant/detoxicant enzymes and Nrf2 translocation via extracellular regulated kinases and phosphatidylinositol-3-kinase/protein kinase B pathways in HepG2 cells. <i>Molecular Nutrition and Food Research</i> , <b>2010</b> , 54, 956-66	5.9	102
95	Molecular mechanisms of (-)-epicatechin and chlorogenic acid on the regulation of the apoptotic and survival/proliferation pathways in a human hepatoma cell line. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 2020-7	5.7	101
94	Procyanidin B2 and a cocoa polyphenolic extract inhibit acrylamide-induced apoptosis in human Caco-2 cells by preventing oxidative stress and activation of JNK pathway. <i>Journal of Nutritional Biochemistry</i> , <b>2011</b> , 22, 1186-94	6.3	98
93	Procyanidin B2 induces Nrf2 translocation and glutathione S-transferase P1 expression via ERKs and p38-MAPK pathways and protect human colonic cells against oxidative stress. <i>European Journal of Nutrition</i> , <b>2012</b> , 51, 881-92	5.2	96
92	Epicatechin induces NF-kappaB, activator protein-1 (AP-1) and nuclear transcription factor erythroid 2p45-related factor-2 (Nrf2) via phosphatidylinositol-3-kinase/protein kinase B (PI3K/AKT) and extracellular regulated kinase (ERK) signalling in HepG2 cells. <i>British Journal of Nutrition</i> , <b>2010</b> , 103, 168-79	3.6	94
91	Protection of human HepG2 cells against oxidative stress by cocoa phenolic extract. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 7765-72	5.7	92
90	Quercetin modulates NF-kappa B and AP-1/JNK pathways to induce cell death in human hepatoma cells. <i>Nutrition and Cancer</i> , <b>2010</b> , 62, 390-401	2.8	78
89	Cocoa flavonoid epicatechin protects pancreatic beta cell viability and function against oxidative stress. <i>Molecular Nutrition and Food Research</i> , <b>2014</b> , 58, 447-56	5.9	77
88	Potential for preventive effects of cocoa and cocoa polyphenols in cancer. <i>Food and Chemical Toxicology</i> , <b>2013</b> , 56, 336-51	4.7	71
87	Cocoa flavonoids protect hepatic cells against high-glucose-induced oxidative stress: relevance of MAPKs. <i>Molecular Nutrition and Food Research</i> , <b>2015</b> , 59, 597-609	5.9	70
86	Comparative effects of dietary flavanols on antioxidant defences and their response to oxidant-induced stress on Caco2 cells. <i>European Journal of Nutrition</i> , <b>2011</b> , 50, 313-22	5.2	65
85	Protein tyrosine phosphatase 1B modulates GSK3 $\beta$ /Nrf2 and IGF1R signaling pathways in acetaminophen-induced hepatotoxicity. <i>Cell Death and Disease</i> , <b>2013</b> , 4, e626	9.8	63

84	Antidiabetic actions of cocoa flavanols. <i>Molecular Nutrition and Food Research</i> , <b>2016</b> , 60, 1756-69	5.9	60
83	Effect of Cocoa and Its Flavonoids on Biomarkers of Inflammation: Studies of Cell Culture, Animals and Humans. <i>Nutrients</i> , <b>2016</b> , 8, 212	6.7	59
82	Cocoa polyphenols prevent inflammation in the colon of azoxymethane-treated rats and in TNF- $\beta$ -stimulated Caco-2 cells. <i>British Journal of Nutrition</i> , <b>2013</b> , 110, 206-15	3.6	56
81	Microbial phenolic metabolites improve glucose-stimulated insulin secretion and protect pancreatic beta cells against tert-butyl hydroperoxide-induced toxicity via ERKs and PKC pathways. <i>Food and Chemical Toxicology</i> , <b>2014</b> , 66, 245-53	4.7	55
80	Quercetin attenuates TNF-induced inflammation in hepatic cells by inhibiting the NF- $\kappa$ B pathway. <i>Nutrition and Cancer</i> , <b>2012</b> , 64, 588-98	2.8	52
79	Phloroglucinol: antioxidant properties and effects on cellular oxidative markers in human HepG2 cell line. <i>Food and Chemical Toxicology</i> , <b>2012</b> , 50, 2886-93	4.7	51
78	Olive oil hydroxytyrosol reduces toxicity evoked by acrylamide in human Caco-2 cells by preventing oxidative stress. <i>Toxicology</i> , <b>2011</b> , 288, 43-8	4.4	50
77	Protection of human HepG2 cells against oxidative stress by the flavonoid epicatechin. <i>Phytotherapy Research</i> , <b>2010</b> , 24, 503-9	6.7	46
76	Cocoa-rich diet attenuates beta cell mass loss and function in young Zucker diabetic fatty rats by preventing oxidative stress and beta cell apoptosis. <i>Molecular Nutrition and Food Research</i> , <b>2015</b> , 59, 820-4	5.9	45
75	Dietary flavanols exert different effects on antioxidant defenses and apoptosis/proliferation in Caco-2 and SW480 colon cancer cells. <i>Toxicology in Vitro</i> , <b>2011</b> , 25, 1771-81	3.6	44
74	Selenium methylselenocysteine protects human hepatoma HepG2 cells against oxidative stress induced by tert-butyl hydroperoxide. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 389, 2167-78	4.4	43
73	Cocoa-rich diet ameliorates hepatic insulin resistance by modulating insulin signaling and glucose homeostasis in Zucker diabetic fatty rats. <i>Journal of Nutritional Biochemistry</i> , <b>2015</b> , 26, 704-12	6.3	42
72	A Superior All-Natural Antioxidant Biomaterial from Spent Coffee Grounds for Polymer Stabilization, Cell Protection, and Food Lipid Preservation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1169-1179	8.3	42
71	Cocoa polyphenols in oxidative stress: Potential health implications. <i>Journal of Functional Foods</i> , <b>2016</b> , 27, 570-588	5.1	40
70	Cocoa phenolic extract protects pancreatic beta cells against oxidative stress. <i>Nutrients</i> , <b>2013</b> , 5, 2955-68.	6.7	40
69	Biscuit melanoidins of different molecular masses protect human HepG2 cells against oxidative stress. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 7250-8	5.7	39
68	A diet rich in cocoa attenuates N-nitrosodiethylamine-induced liver injury in rats. <i>Food and Chemical Toxicology</i> , <b>2009</b> , 47, 2499-506	4.7	39
67	Protective effects of tea, red wine and cocoa in diabetes. Evidences from human studies. <i>Food and Chemical Toxicology</i> , <b>2017</b> , 109, 302-314	4.7	36

66	Cocoa-rich diet prevents azoxymethane-induced colonic preneoplastic lesions in rats by restraining oxidative stress and cell proliferation and inducing apoptosis. <i>Molecular Nutrition and Food Research</i> , <b>2011</b> , 55, 1895-9	5.9	36
65	Insights on the health benefits of the bioactive compounds of coffee silverskin extract. <i>Journal of Functional Foods</i> , <b>2016</b> , 25, 197-207	5.1	33
64	Type 2 diabetes - a matter of failing beta-cell neogenesis? Clues from the GK rat model. <i>Diabetes, Obesity and Metabolism</i> , <b>2007</b> , 9 Suppl 2, 187-95	6.7	33
63	Chemical characterization and chemo-protective activity of cranberry phenolic powders in a model cell culture. Response of the antioxidant defenses and regulation of signaling pathways. <i>Food Research International</i> , <b>2015</b> , 71, 68-82	7	32
62	Colonic metabolites from flavanols stimulate nitric oxide production in human endothelial cells and protect against oxidative stress-induced toxicity and endothelial dysfunction. <i>Food and Chemical Toxicology</i> , <b>2018</b> , 115, 88-97	4.7	32
61	Time-course regulation of survival pathways by epicatechin on HepG2 cells. <i>Journal of Nutritional Biochemistry</i> , <b>2009</b> , 20, 115-24	6.3	32
60	A Cell Culture Model for the Assessment of the Chemopreventive Potential of Dietary Compounds.. <i>Current Nutrition and Food Science</i> , <b>2009</b> , 5, 56-64	0.7	29
59	Time-course regulation of quercetin on cell survival/proliferation pathways in human hepatoma cells. <i>Molecular Nutrition and Food Research</i> , <b>2008</b> , 52, 457-64	5.9	28
58	Glucagon-like peptide-1 improves beta-cell antioxidant capacity via extracellular regulated kinases pathway and Nrf2 translocation. <i>Free Radical Biology and Medicine</i> , <b>2016</b> , 95, 16-26	7.8	27
57	Effect of phlorotannin-rich extracts of <i>Ascophyllum nodosum</i> and <i>Himantalia elongata</i> (Phaeophyceae) on cellular oxidative markers in human HepG2 cells. <i>Journal of Applied Phycology</i> , <b>2013</b> , 25, 1-11	3.2	27
56	Effects of Cocoa Antioxidants in Type 2 Diabetes Mellitus. <i>Antioxidants</i> , <b>2017</b> , 6,	7.1	27
55	Cocoa intake ameliorates hepatic oxidative stress in young Zucker diabetic fatty rats. <i>Food Research International</i> , <b>2015</b> , 69, 194-201	7	27
54	Epicatechin gallate induces cell death via p53 activation and stimulation of p38 and JNK in human colon cancer SW480 cells. <i>Nutrition and Cancer</i> , <b>2013</b> , 65, 718-28	2.8	26
53	Regulation of IGF-I and -II by insulin in primary cultures of fetal rat hepatocytes. <i>Endocrinology</i> , <b>2001</b> , 142, 5089-96	4.8	26
52	High Antioxidant Action and Prebiotic Activity of Hydrolyzed Spent Coffee Grounds (HSCG) in a Simulated Digestion-Fermentation Model: Toward the Development of a Novel Food Supplement. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 6452-6459	5.7	25
51	Cocoa diet modulates gut microbiota composition and improves intestinal health in Zucker diabetic rats. <i>Food Research International</i> , <b>2020</b> , 132, 109058	7	25
50	(-)-Epicatechin and the Colonic 2,3-Dihydroxybenzoic Acid Metabolite Regulate Glucose Uptake, Glucose Production, and Improve Insulin Signaling in Renal NRK-52E Cells. <i>Molecular Nutrition and Food Research</i> , <b>2018</b> , 62, 1700470	5.9	25
49	Coffee silverskin extract improves glucose-stimulated insulin secretion and protects against streptozotocin-induced damage in pancreatic INS-1E beta cells. <i>Food Research International</i> , <b>2016</b> , 89, 1015-1022	7	24

48	Preventive Effects of Cocoa and Cocoa Antioxidants in Colon Cancer. <i>Diseases (Basel, Switzerland)</i> , <b>2016</b> , 4,	4.4	24
47	Protein-caloric food restriction affects insulin-like growth factor system in fetal Wistar rat. <i>Endocrinology</i> , <b>2005</b> , 146, 1364-71	4.8	22
46	Maternal food restriction enhances insulin-induced GLUT-4 translocation and insulin signaling pathway in skeletal muscle from suckling rats. <i>Endocrinology</i> , <b>2005</b> , 146, 3368-78	4.8	21
45	Regulation of insulin-like growth factor-I and -II by glucose in primary cultures of fetal rat hepatocytes. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 24633-40	5.4	21
44	Health beneficial effects of cocoa phenolic compounds: a mini-review. <i>Current Opinion in Food Science</i> , <b>2017</b> , 14, 20-25	9.8	20
43	Effect of thyroxine administration on the IGF/IGF binding protein system in neonatal and adult thyroidectomized rats. <i>Journal of Endocrinology</i> , <b>2001</b> , 169, 111-22	4.7	19
42	Cocoa Flavanols Protect Human Endothelial Cells from Oxidative Stress. <i>Plant Foods for Human Nutrition</i> , <b>2020</b> , 75, 161-168	3.9	18
41	Effects of chronic undernutrition on glucose uptake and glucose transporter proteins in rat heart. <i>Endocrinology</i> , <b>2002</b> , 143, 4295-303	4.8	18
40	Protein calorie restriction has opposite effects on glucose metabolism and insulin gene expression in fetal and adult rat endocrine pancreas. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2004</b> , 286, E542-50	6	16
39	Cocoa and cocoa flavanol epicatechin improve hepatic lipid metabolism in in vivo and in vitro models. Role of PKC $\beta$ . <i>Journal of Functional Foods</i> , <b>2015</b> , 17, 761-773	5.1	15
38	Protective effects of (-)-epicatechin and the colonic metabolite 3,4-dihydroxyphenylacetic acid against glucotoxicity-induced insulin signalling blockade and altered glucose uptake and production in renal tubular NRK-52E cells. <i>Food and Chemical Toxicology</i> , <b>2018</b> , 120, 119-128	4.7	15
37	Nitroderivatives of olive oil phenols protect HepG2 cells against oxidative stress. <i>Food and Chemical Toxicology</i> , <b>2012</b> , 50, 3752-8	4.7	15
36	Impact of Dietary Flavanols on Microbiota, Immunity and Inflammation in Metabolic Diseases. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	15
35	Impact of diet on gut microbiota. <i>Current Opinion in Food Science</i> , <b>2021</b> , 37, 83-90	9.8	14
34	(-)-Epicatechin and the colonic metabolite 3,4-dihydroxyphenylacetic acid protect renal proximal tubular cell against high glucose-induced oxidative stress by modulating NOX-4/SIRT-1 signalling. <i>Journal of Functional Foods</i> , <b>2018</b> , 46, 19-28	5.1	13
33	Cocoa flavanols show beneficial effects in cultured pancreatic beta cells and liver cells to prevent the onset of type 2 diabetes. <i>Food Research International</i> , <b>2014</b> , 63, 400-408	7	13
32	Insulin secretion in adult rats that had experienced different underfeeding patterns during their development. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1997</b> , 272, E634-40	6	13
31	Increased IRS-2 content and activation of IGF-I pathway contribute to enhance beta-cell mass in fetuses from undernourished pregnant rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 292, E187-95	6	13

30	Impact of cocoa flavanols on human health. <i>Food and Chemical Toxicology</i> , <b>2021</b> , 151, 112121	4.7	13
29	Cocoa intake attenuates renal injury in Zucker Diabetic fatty rats by improving glucose homeostasis. <i>Food and Chemical Toxicology</i> , <b>2019</b> , 127, 101-109	4.7	12
28	Protective Effect of Silybum marianum and Silibinin on Endothelial Cells Submitted to High Glucose Concentration. <i>Planta Medica</i> , <b>2017</b> , 83, 97-103	3.1	12
27	Synthesis and bioactivity profile of 5-s-lipoylhydroxytyrosol-based multidefense antioxidants with a sizeable (poly)sulfide chain. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 1710-7	5.7	12
26	Interaction between malnutrition and ovarian hormones on the systemic IGF-I axis. <i>European Journal of Endocrinology</i> , <b>2002</b> , 147, 417-24	6.5	12
25	Effect of Cocoa and Cocoa Products on Cognitive Performance in Young Adults. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	11
24	Contrasted Impact of Maternal Rat Food Restriction on the Fetal Endocrine Pancreas		11
23	Influence of hypothyroidism on circulating concentrations and liver expression of IGF-binding proteins mRNA from neonatal and adult rats. <i>Journal of Endocrinology</i> , <b>2002</b> , 172, 363-73	4.7	10
22	Cocoa ameliorates renal injury in Zucker diabetic fatty rats by preventing oxidative stress, apoptosis and inactivation of autophagy. <i>Food and Function</i> , <b>2019</b> , 10, 7926-7939	6.1	10
21	Elevated pulmonary arterial pressure in Zucker diabetic fatty rats. <i>PLoS ONE</i> , <b>2019</b> , 14, e0211281	3.7	9
20	Undernutrition does not alter the activation of beta-cell neogenesis and replication in adult rats after partial pancreatectomy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2006</b> , 291, E913-21	6	8
19	Effects of refeeding of undernourished and insulin treatment of diabetic neonatal rats on IGF and IGFBP. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1996</b> , 271, E223-31	6	8
18	Regulation of IGF-I and -II by Insulin in Primary Cultures of Fetal Rat Hepatocytes		8
17	Dietary Flavonoids and Insulin Signaling in Diabetes and Obesity. <i>Cells</i> , <b>2021</b> , 10,	7.9	8
16	Maternal undernutrition increases pancreatic IGF-2 and partially suppresses the physiological wave of {beta}-cell apoptosis during the neonatal period. <i>Journal of Molecular Endocrinology</i> , <b>2010</b> , 44, 25-36	4.5	7
15	Vochysia rufa Stem Bark Extract Protects Endothelial Cells against High Glucose Damage. <i>Medicines (Basel, Switzerland)</i> , <b>2017</b> , 4,	4.1	6
14	Protective effects of papaya extracts on tert-butyl hydroperoxide mediated oxidative injury to human liver cells (An in-vitro study). <i>Free Radicals and Antioxidants</i> , <b>2012</b> , 2, 10-19	1.7	6
13	Influence of type II 5Sdeiodinase on TSH content in diabetic rats. <i>Journal of Physiology and Biochemistry</i> , <b>2001</b> , 57, 221-30	5	6

12	Effects of experimental diabetes on renal IGF/IGFBP system during neonatal period in the rat. <i>American Journal of Physiology - Renal Physiology</i> , <b>2000</b> , 279, F1067-76	4.3	6
11	Different role of insulin in GLUT-1 and -4 regulation in heart and skeletal muscle during perinatal hypothyroidism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2001</b> , 281, E1073-81	6	6
10	Liver mRNA expression of IGF-I and IGFBPs in adult undernourished diabetic rats. <i>Life Sciences</i> , <b>1999</b> , 64, 2255-71	6.8	5
9	(-)-Epicatechin and the colonic metabolite 2,3-dihydroxybenzoic acid protect against high glucose and lipopolysaccharide-induced inflammation in renal proximal tubular cells through NOX-4/p38 signalling. <i>Food and Function</i> , <b>2020</b> , 11, 8811-8824	6.1	4
8	Dietary Cocoa Prevents Aortic Remodeling and Vascular Oxidative Stress in Diabetic Rats. <i>Molecular Nutrition and Food Research</i> , <b>2019</b> , 63, e1900044	5.9	3
7	Cytoprotective Effect of Coffee Melanoidins <b>2015</b> , 921-929		1
6	Preventive effect of cocoa flavanols against glucotoxicity-induced vascular inflammation in the arteria of diabetic rats and on the inflammatory process in TNF- $\beta$ stimulated endothelial cells. <i>Food and Chemical Toxicology</i> , <b>2020</b> , 146, 111824	4.7	1
5	Signal Transduction Pathways Involved in the Chemo-Preventive Effect of Dietary Antioxidants: Study in HepG2 as a Cell Culture Model. <i>Current Nutrition and Food Science</i> , <b>2012</b> , 8, 112-121	0.7	0
4	A new cyanine from oxidative coupling of chlorogenic acid with tryptophan: Assessment of the potential as red dye for food coloring. <i>Food Chemistry</i> , <b>2021</b> , 348, 129152	8.5	0
3	Antioxidative Stress Actions of Cocoa in Colonic Cancer <b>2014</b> , 211-221		
2	Cocoa Flavonoids and Insulin Signaling <b>2016</b> , 183-196		
1	Antioxidative stress actions of cocoa in colonic cancer: Revisited <b>2021</b> , 337-348		