Maria Ã¡ngeles Martin

List of Publications by Year
in descending order

105 papers	4,523 citations	81889 39 h-index	114455 63 g-index
105 all docs	105 docs citations	105 times ranked	6277 citing authors

#	Article	IF	Citations
1	Supplementation with a Cocoaâ€"Carob Blend, Alone or in Combination with Metformin, Attenuates Diabetic Cardiomyopathy, Cardiac Oxidative Stress and Inflammation in Zucker Diabetic Rats. Antioxidants, 2022, 11, 432.	5.1	12
2	Metabolic regulation of (âˆ')-epicatechin and the colonic metabolite 2,3-dihydroxybenzoic acid on the glucose uptake, lipid accumulation and insulin signalling in cardiac H9c2 cells. Food and Function, 2022, 13, 5602-5615.	4.6	4
3	Exploring a cocoaâ€"carob blend as a functional food with decreased bitterness: Characterization and sensory analysis. LWT - Food Science and Technology, 2022, 165, 113708.	5.2	5
4	Impact of diet on gut microbiota. Current Opinion in Food Science, 2021, 37, 83-90.	8.0	36
5	Antioxidative stress actions of cocoa in colonic cancer: Revisited. , 2021, , 337-348.		1
6	Impact of Dietary Flavanols on Microbiota, Immunity and Inflammation in Metabolic Diseases. Nutrients, 2021, 13, 850.	4.1	35
7	Impact of cocoa flavanols on human health. Food and Chemical Toxicology, 2021, 151, 112121.	3.6	39
8	A new cyanine from oxidative coupling of chlorogenic acid with tryptophan: Assessment of the potential as red dye for food coloring. Food Chemistry, 2021, 348, 129152.	8.2	9
9	Dietary Flavonoids and Insulin Signaling in Diabetes and Obesity. Cells, 2021, 10, 1474.	4.1	36
10	Cocoa diet modulates gut microbiota composition and improves intestinal health in Zucker diabetic rats. Food Research International, 2020, 132, 109058.	6.2	43
11	Preventive effect of cocoa flavanols against glucotoxicity-induced vascular inflammation in the arteria of diabetic rats and on the inflammatory process in TNF-Î±-stimulated endothelial cells. Food and Chemical Toxicology, 2020, 146, 111824.	3.6	6
12	(âˆ')-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. Food and Function, 2020, 11, 8811-8824.	4.6	21
13	Effect of Cocoa and Cocoa Products on Cognitive Performance in Young Adults. Nutrients, 2020, 12, 3691.	4.1	36
14	Cocoa Flavanols Protect Human Endothelial Cells from Oxidative Stress. Plant Foods for Human Nutrition, 2020, 75, 161-168.	3.2	26
15	Elevated pulmonary arterial pressure in Zucker diabetic fatty rats. PLoS ONE, 2019, 14, e0211281.	2.5	13
16	Dietary Cocoa Prevents Aortic Remodeling and Vascular Oxidative Stress in Diabetic Rats. Molecular Nutrition and Food Research, 2019, 63, e1900044.	3.3	8
17	Cocoa intake attenuates renal injury in Zucker Diabetic fatty rats by improving glucose homeostasis. Food and Chemical Toxicology, 2019, 127, 101-109.	3.6	20
18	Cocoa ameliorates renal injury in Zucker diabetic fatty rats by preventing oxidative stress, apoptosis and inactivation of autophagy. Food and Function, 2019, 10, 7926-7939.	4.6	15

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19	(â^')-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. Journal of Functional Foods, 2018, 46, 19-28.	3.4	20
20	Colonic metabolites from flavanols stimulate nitric oxide production in human endothelial cells and protect against oxidative stress-induced toxicity and endothelial dysfunction. Food and Chemical Toxicology, 2018, 115, 88-97.	3.6	44
21	(â€)â€Epicatechin and the Colonic 2,3â€Dihydroxybenzoic Acid Metabolite Regulate Glucose Uptake, Glucose Production, and Improve Insulin Signaling in Renal NRKâ€52E Cells. Molecular Nutrition and Food Research, 2018, 62, 1700470.	3.3	40
22	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. Food and Chemical Toxicology, 2018, 120, 119-128.	3.6	22
23	Health beneficial effects of cocoa phenolic compounds: a mini-review. Current Opinion in Food Science, 2017, 14, 20-25.	8.0	31
24	Protective effects of tea, red wine and cocoa in diabetes. Evidences from human studies. Food and Chemical Toxicology, 2017, 109, 302-314.	3.6	55
25	High Antioxidant Action and Prebiotic Activity of Hydrolyzed Spent Coffee Grounds (HSCG) in a Simulated Digestionâ€“Fermentation Model: Toward the Development of a Novel Food Supplement. Journal of Agricultural and Food Chemistry, 2017, 65, 6452-6459.	5.2	33
26	Protective Effect of Silybum marianum and Silibinin on Endothelial Cells Submitted to High Glucose Concentration. Planta Medica, 2017, 83, 97-103.	1.3	15
27	Vochysia rufa Stem Bark Extract Protects Endothelial Cells against High Glucose Damage. Medicines (Basel, Switzerland), 2017, 4, 9.	1.4	7
28	Effects of Cocoa Antioxidants in Type 2 Diabetes Mellitus. Antioxidants, 2017, 6, 84.	5.1	45
29	Cocoa Flavonoids and Insulin Signaling. , 2016, , 183-196.		0
30	Effect of Cocoa and Its Flavonoids on Biomarkers of Inflammation: Studies of Cell Culture, Animals and Humans. Nutrients, 2016, 8, 212.	4.1	81
31	Preventive Effects of Cocoa and Cocoa Antioxidants in Colon Cancer. Diseases (Basel, Switzerland), 2016, 4, 6.	2.5	33
32	Antidiabetic actions of cocoa flavanols. Molecular Nutrition and Food Research, 2016, 60, 1756-1769.	3.3	74
33	Front cover: Antidiabetic actions of cocoa flavanols. Molecular Nutrition and Food Research, 2016, 60, NA-NA.	3.3	0
34	Cocoa polyphenols in oxidative stress: Potential health implications. Journal of Functional Foods, 2016, 27, 570-588.	3.4	53
35	Insights on the health benefits of the bioactive compounds of coffee silverskin extract. Journal of Functional Foods, 2016, 25, 197-207.	3.4	42
36	A Superior All-Natural Antioxidant Biomaterial from Spent Coffee Grounds for Polymer Stabilization, Cell Protection, and Food Lipid Preservation. ACS Sustainable Chemistry and Engineering, 2016, 4, 1169-1179.	6.7	50

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37	Coffee silverskin extract improves glucose-stimulated insulin secretion and protects against streptozotocin-induced damage in pancreatic INS-1E beta cells. Food Research International, 2016, 89, 1015-1022.	6.2	35
38	Glucagon-like peptide-1 improves beta-cell antioxidant capacity via extracellular regulated kinases pathway and Nrf2 translocation. Free Radical Biology and Medicine, 2016, 95, 16-26.	2.9	41
39	Cocoa intake ameliorates hepatic oxidative stress in young Zucker diabetic fatty rats. Food Research International, 2015, 69, 194-201.	6.2	30
40	Cocoa flavonoids protect hepatic cells against highâ€glucoseâ€induced oxidative stress: Relevance of MAPKs. Molecular Nutrition and Food Research, 2015, 59, 597-609.	3.3	84
41	Cytoprotective Effect of Coffee Melanoidins. , 2015, , 921-929.		1
42	Cocoaâ€rich diet attenuates beta cell mass loss and function in young Zucker diabetic fatty rats by preventing oxidative stress and beta cell apoptosis. Molecular Nutrition and Food Research, 2015, 59, 820-824.	3.3	57
43	Cocoa and cocoa flavanol epicatechin improve hepatic lipid metabolism in in vivo and in vitro models. Role of PKCÎ¶. Journal of Functional Foods, 2015, 17, 761-773.	3.4	18
44	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. Food Research International, 2015, 71, 68-82.	6.2	41
45	Cocoa-rich diet ameliorates hepatic insulin resistance by modulating insulin signaling and glucose homeostasis in Zucker diabetic fatty rats. Journal of Nutritional Biochemistry, 2015, 26, 704-712.	4.2	48
46	Cocoa flavonoid epicatechin protects pancreatic beta cell viability and function against oxidative stress. Molecular Nutrition and Food Research, 2014, 58, 447-456.	3.3	92
47	Antioxidative Stress Actions of Cocoa in Colonic Cancer. , 2014, , 211-221.		0
48	Microbial phenolic metabolites improve glucose-stimulated insulin secretion and protect pancreatic beta cells against tert-butyl hydroperoxide-induced toxicity via ERKs and PKC pathways. Food and Chemical Toxicology, 2014, 66, 245-253.	3.6	73
49	Cocoa flavonoids attenuate high glucose-induced insulin signalling blockade and modulate glucose uptake and production in human HepG2 cells. Food and Chemical Toxicology, 2014, 64, 10-19.	3.6	124
50	Cocoa flavanols show beneficial effects in cultured pancreatic beta cells and liver cells to prevent the onset of type 2 diabetes. Food Research International, 2014, 63, 400-408.	6.2	16
51	Potential for preventive effects of cocoa and cocoa polyphenols in cancer. Food and Chemical Toxicology, 2013, 56, 336-351.	3.6	90
52	Effect of phlorotannin-rich extracts of Ascophyllum nodosum and Himanthalia elongata (Phaeophyceae) on cellular oxidative markers in human HepG2 cells. Journal of Applied Phycology, 2013, 25, 1-11.	2.8	32
53	Protein tyrosine phosphatase 1B modulates GSK3Î²/Nrf2 and IGFIR signaling pathways in acetaminophen-induced hepatotoxicity. Cell Death and Disease, 2013, 4, e626-e626.	6.3	75
54	Cocoa flavonoids improve insulin signalling and modulate glucose production via <scp>AKT</scp> and <scp>AMPK</scp> in <scp>H</scp>ep<scp>G</scp>2 cells. Molecular Nutrition and Food Research, 2013, 57, 974-985.	3.3	126

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55	Synthesis and Bioactivity Profile of 5-<i>S</i>-Lipoylhydroxytyrosol-Based Multidefense Antioxidants with a Sizeable (Poly)sulfide Chain. Journal of Agricultural and Food Chemistry, 2013, 61, 1710-1717.	5.2	14
56	Epicatechin Gallate Induces Cell Death via p53 Activation and Stimulation of p38 and JNK in Human Colon Cancer SW480 Cells. Nutrition and Cancer, 2013, 65, 718-728.	2.0	48
57	Cocoa polyphenols prevent inflammation in the colon of azoxymethane-treated rats and in TNF-Î±-stimulated Caco-2 cells. British Journal of Nutrition, 2013, 110, 206-215.	2.3	69
58	Cocoa Phenolic Extract Protects Pancreatic Beta Cells against Oxidative Stress. Nutrients, 2013, 5, 2955-2968.	4.1	50
59	Signal Transduction Pathways Involved in the Chemo-Preventive Effect of Dietary Antioxidants: Study in HepG2 as a Cell Culture Model. Current Nutrition and Food Science, 2012, 8, 112-121.	0.6	1
60	Nitroderivatives of olive oil phenols protect HepG2 cells against oxidative stress. Food and Chemical Toxicology, 2012, 50, 3752-3758.	3.6	16
61	Protective effects of papaya extracts on tert-butyl hydroperoxide mediated oxidative injury to human liver cells (An in-vitro study). Free Radicals and Antioxidants, 2012, 2, 10-19.	0.3	10
62	Phloroglucinol: Antioxidant properties and effects on cellular oxidative markers in human HepG2 cell line. Food and Chemical Toxicology, 2012, 50, 2886-2893.	3.6	59
63	Quercetin Attenuates TNF-Induced Inflammation in Hepatic Cells by Inhibiting the NF-ÎºB Pathway. Nutrition and Cancer, 2012, 64, 588-598.	2.0	61
64	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. European Journal of Nutrition, 2012, 51, 881-892.	3.9	121
65	Quercetin modulates Nrf2 and glutathione-related defenses in HepG2 cells: Involvement of p38. Chemico-Biological Interactions, 2012, 195, 154-164.	4.0	155
66	Dietary flavanols exert different effects on antioxidant defenses and apoptosis/proliferation in Caco-2 and SW480 colon cancer cells. Toxicology in Vitro, 2011, 25, 1771-1781.	2.4	49
67	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. Journal of Nutritional Biochemistry, 2011, 22, 1186-1194.	4.2	123
68	Comparative effects of dietary flavanols on antioxidant defences and their response to oxidant-induced stress on Caco2 cells. European Journal of Nutrition, 2011, 50, 313-322.	3.9	77
69	Cocoaâ€rich diet prevents azoxymethaneâ€induced colonic preneoplastic lesions in rats by restraining oxidative stress and cell proliferation and inducing apoptosis. Molecular Nutrition and Food Research, 2011, 55, 1895-1899.	3.3	37
70	Olive oil hydroxytyrosol reduces toxicity evoked by acrylamide in human Caco-2 cells by preventing oxidative stress. Toxicology, 2011, 288, 43-48.	4.2	58
71	Epicatechin induces NF-ÎºB, 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. British Journal of Nutrition, 2010, 103, 168-179.	2.3	105
72	Hydroxytyrosol induces antioxidant/detoxificant enzymes and Nrf2 translocation<i>via</i>extracellular regulated kinases and phosphatidylinositol-3-kinase/protein kinase B pathways in HepG2 cells. Molecular Nutrition and Food Research, 2010, 54, 956-966.	3.3	114

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73	Cocoa flavonoids up-regulate antioxidant enzyme activity via the ERK1/2 pathway to protect against oxidative stress-induced apoptosis in HepG2 cells. Journal of Nutritional Biochemistry, 2010, 21, 196-205.	4.2	126
74	Protection of human HepG2 cells against oxidative stress by the flavonoid epicatechin. Phytotherapy Research, 2010, 24, 503-509.	5.8	51
75	Quercetin Modulates NF-Îº B and AP-1/JNK Pathways to Induce Cell Death in Human Hepatoma Cells. Nutrition and Cancer, 2010, 62, 390-401.	2.0	87
76	Maternal undernutrition increases pancreatic IGF-2 and partially suppresses the physiological wave of Î²-cell apoptosis during the neonatal period. Journal of Molecular Endocrinology, 2010, 44, 25-36.	2.5	7
77	Time-course regulation of survival pathways by epicatechin on HepG2 cells. Journal of Nutritional Biochemistry, 2009, 20, 115-124.	4.2	38
78	Biscuit Melanoidins of Different Molecular Masses Protect Human HepG2 Cells against Oxidative Stress. Journal of Agricultural and Food Chemistry, 2009, 57, 7250-7258.	5.2	46
79	A diet rich in cocoa attenuates N-nitrosodiethylamine-induced liver injury in rats. Food and Chemical Toxicology, 2009, 47, 2499-2506.	3.6	39
80	A Cell Culture Model for the Assessment of the Chemopreventive Potential of Dietary Compounds.. Current Nutrition and Food Science, 2009, 5, 56-64.	0.6	36
81	Timeâ€course regulation of quercetin on cell survival/proliferation pathways in human hepatoma cells. Molecular Nutrition and Food Research, 2008, 52, 457-464.	3.3	28
82	Protection of Human HepG2 Cells against Oxidative Stress by Cocoa Phenolic Extract. Journal of Agricultural and Food Chemistry, 2008, 56, 7765-7772.	5.2	102
83	Increased IRS-2 content and activation of IGF-I pathway contribute to enhance Î²-cell mass in fetuses from undernourished pregnant rats. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E187-E195.	3.5	16
84	Molecular Mechanisms of (â^')-Epicatechin and Chlorogenic Acid on the Regulation of the Apoptotic and Survival/Proliferation Pathways in a Human Hepatoma Cell Line. Journal of Agricultural and Food Chemistry, 2007, 55, 2020-2027.	5.2	115
85	Type 2 diabetes â€“ a matter of failing Î²â€cell neogenesis? Clues from the GK rat model. Diabetes, Obesity and Metabolism, 2007, 9, 187-195.	4.4	41
86	Selenium methylselenocysteine protects human hepatoma HepG2 cells against oxidative stress induced by tert-butyl hydroperoxide. Analytical and Bioanalytical Chemistry, 2007, 389, 2167-2178.	3.7	48
87	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). Journal of Nutrition, 2006, 136, 2715-2721.	2.9	295
88	Undernutrition does not alter the activation of Î²-cell neogenesis and replication in adult rats after partial pancreatectomy. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E913-E921.	3.5	9
89	Maternal Food Restriction Enhances Insulin-Induced GLUT-4 Translocation and Insulin Signaling Pathway in Skeletal Muscle from Suckling Rats. Endocrinology, 2005, 146, 3368-3378.	2.8	28
90	Protein-Caloric Food Restriction Affects Insulin-Like Growth Factor System in Fetal Wistar Rat. Endocrinology, 2005, 146, 1364-1371.	2.8	24

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91	Protein calorie restriction has opposite effects on glucose metabolism and insulin gene expression in fetal and adult rat endocrine pancreas. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E542-E550.	3.5	19
92	Effects of Chronic Undernutrition on Glucose Uptake and Glucose Transporter Proteins in Rat Heart. Endocrinology, 2002, 143, 4295-4303.	2.8	20
93	Influence of hypothyroidism on circulating concentrations and liver expression of IGF-binding proteins mRNA from neonatal and adult rats. Journal of Endocrinology, 2002, 172, 363-373.	2.6	11
94	Interaction between malnutrition and ovarian hormones on the systemic IGF-I axis. European Journal of Endocrinology, 2002, 147, 417-424.	3.7	13
95	Different role of insulin in GLUT-1 and -4 regulation in heart and skeletal muscle during perinatal hypothyroidism. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E1073-E1081.	3.5	10
96	Influence of type II 5â€² deiodinase on TSH content in diabetic rats. Journal of Physiology and Biochemistry, 2001, 57, 221-230.	3.0	6
97	Effect of thyroxine administration on the IGF/IGF binding protein system in neonatal and adult thyroidectomized rats. Journal of Endocrinology, 2001, 169, 111-122.	2.6	22
98	Regulation of IGF-I and -II by Insulin in Primary Cultures of Fetal Rat Hepatocytes. Endocrinology, 2001, 142, 5089-5096.	2.8	32
99	Regulation of IGF-I and -II by Insulin in Primary Cultures of Fetal Rat Hepatocytes. Endocrinology, 2001, 142, 5089-5096.	2.8	8
100	Effects of experimental diabetes on renal IGF/IGFBP system during neonatal period in the rat. American Journal of Physiology - Renal Physiology, 2000, 279, F1067-F1076.	2.7	8
101	Regulation of Insulin-like Growth Factor-I and -II by Glucose in Primary Cultures of Fetal Rat Hepatocytes. Journal of Biological Chemistry, 1999, 274, 24633-24640.	3.4	24
102	Liver mRNA expression of IGF-I and IGFBPs in adult undernourished diabetic rats. Life Sciences, 1999, 64, 2255-2271.	4.3	7
103	Insulin secretion in adult rats that had experienced different underfeeding patterns during their development. American Journal of Physiology - Endocrinology and Metabolism, 1997, 272, E634-E640.	3.5	20
104	Contrasted Impact of Maternal Rat Food Restriction on the Fetal Endocrine Pancreas. Endocrinology, 1997, 138, 2267-2273.	2.8	11
105	Effects of refeeding of undernourished and insulin treatment of diabetic neonatal rats on IGF and IGFBP. American Journal of Physiology - Endocrinology and Metabolism, 1996, 271, E223-E231.	3.5	16