Monica Montagnani

List of Publications by Citations

74 papers	6,093 citations	30 h-index	78 g-index
80 ext. papers	6,625 ext. citations	5.4 avg, IF	5.54 L-index

#	Paper	IF	Citations
74	Reciprocal relationships between insulin resistance and endothelial dysfunction: molecular and pathophysiological mechanisms. *Circulation*, **2006**, 113, 1888-904	16.7	1189
73	Adiponectin stimulates production of nitric oxide in vascular endothelial cells. *Journal of Biological Chemistry*, **2003**, 278, 45021-6	5.4	746
72	Cardiovascular actions of insulin. *Endocrine Reviews*, **2007**, 28, 463-91	27.2	591
71	Insulin-stimulated activation of eNOS is independent of Ca2+ but requires phosphorylation by Akt at Ser(1179). *Journal of Biological Chemistry*, **2001**, 276, 30392-8	5.4	414
70	EGCG, a green tea polyphenol, improves endothelial function and insulin sensitivity, reduces blood pressure, and protects against myocardial I/R injury in SHR. *American Journal of Physiology - Endocrinology and Metabolism*, **2007**, 292, E1378-87	6	262
69	Inhibition of phosphatidylinositol 3-kinase enhances mitogenic actions of insulin in endothelial cells. *Journal of Biological Chemistry*, **2002**, 277, 1794-9	5.4	242
68	Insulin resistance in spontaneously hypertensive rats is associated with endothelial dysfunction characterized by imbalance between NO and ET-1 production. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 289, H813-22	5.2	236
67	Endothelial dysfunction in diabetes: from mechanisms to therapeutic targets. *Current Medicinal Chemistry*, **2009**, 16, 94-112	4.3	204
66	Insulin receptor substrate-1 and phosphoinositide-dependent kinase-1 are required for insulin-stimulated production of nitric oxide in endothelial cells. *Molecular Endocrinology*, **2002**, 16, 1931-42		187
65	Molecular and physiologic actions of insulin related to production of nitric oxide in vascular endothelium. *Current Diabetes Reports*, **2003**, 3, 279-88	5.6	176
64	Epigallocatechin gallate, a green tea polyphenol, mediates NO-dependent vasodilation using signaling pathways in vascular endothelium requiring reactive oxygen species and Fyn. *Journal of Biological Chemistry*, **2007**, 282, 13736-45	5.4	174
63	Mitochondria and reactive oxygen species. *Hypertension*, **2009**, 53, 885-92	8.5	158
62	Endothelin-1: the yin and yang on vascular function. *Current Medicinal Chemistry*, **2006**, 13, 1655-65	4.3	132
61	Vascular actions of insulin with implications for endothelial dysfunction. *American Journal of Physiology - Endocrinology and Metabolism*, **2009**, 297, E568-77	6	101
60	Insulin action in vascular endothelium: potential mechanisms linking insulin resistance with hypertension. *Diabetes, Obesity and Metabolism*, **2000**, 2, 285-92	6.7	89
59	Dehydroepiandrosterone mimics acute actions of insulin to stimulate production of both nitric oxide and endothelin 1 via distinct phosphatidylinositol 3-kinase- and mitogen-activated protein kinase-dependent pathways in vascular endothelium. *Molecular Endocrinology*, **2006**, 20, 1153-63		85
58	Treatment of spontaneously hypertensive rats with rosiglitazone and/or enalapril restores balance between vasodilator and vasoconstrictor actions of insulin with simultaneous improvement in hypertension and insulin resistance. *Diabetes*, **2006**, 55, 3594-603	0.9	81

57	Role of lipotoxicity in endothelial dysfunction. *Heart Failure Clinics*, **2012**, 8, 589-607	3.3	73
56	Multiple pathological events in exercised dystrophic mdx mice are targeted by pentoxifylline: outcome of a large array of in vivo and ex vivo tests. *Journal of Applied Physiology*, **2009**, 106, 1311-24	3.7	69
55	Enalapril treatment discloses an early role of angiotensin II in inflammation- and oxidative stress-related muscle damage in dystrophic mdx mice. *Pharmacological Research*, **2011**, 64, 482-92	10.2	52
54	Endothelial dysfunction in mice with streptozotocin-induced type 1 diabetes is opposed by compensatory overexpression of cyclooxygenase-2 in the vasculature. *Endocrinology*, **2009**, 150, 849-61	4.8	52
53	Activation of AMPK/SIRT1 axis is required for adiponectin-mediated preconditioning on myocardial ischemia-reperfusion (I/R) injury in rats. *PLoS ONE*, **2019**, 14, e0210654	3.7	37
52	Treatment of spontaneously hypertensive rats with rosiglitazone ameliorates cardiovascular pathophysiology via antioxidant mechanisms in the vasculature. *American Journal of Physiology - Endocrinology and Metabolism*, **2009**, 297, E685-94	6	36
51	Globular adiponectin counteracts VCAM-1-mediated monocyte adhesion via AdipoR1/NF-B/COX-2 signaling in human aortic endothelial cells. *American Journal of Physiology - Endocrinology and Metabolism*, **2011**, 301, E1143-54	6	35
50	Cholinergic stimulation and nonadrenergic, noncholinergic relaxation of human colonic circular muscle in idiopathic chronic constipation. *Digestive Diseases and Sciences*, **1998**, 43, 2719-26	4	34
49	Functional characterization of endothelin receptors in hypertensive resistance vessels. *Journal of Hypertension*, **1999**, 17, 45-52	1.9	33
48	Hyporeactivity of mesenteric vascular bed in endotoxin-treated rats. *European Journal of Pharmacology*, **1996**, 309, 175-82	5.3	32
47	Molecular and clinical aspects of endothelial dysfunction in diabetes. *Internal and Emergency Medicine*, **2009**, 4, 107-16	3.7	31
46	Dehydroepiandrosterone decreases the age-related decline of the in vitro fertilization outcome in women younger than 40 years old. *Reproductive Biology and Endocrinology*, **2015**, 13, 18	5	30
45	Potential beneficial role of probiotics on the outcome of COVID-19 patients: An evolving perspective. *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*, **2021**, 15, 295-301	8.9	30
44	Idiopathic chronic constipation: tachykinins as cotransmitters in colonic contraction. *European Journal of Clinical Investigation*, **2001**, 31, 349-55	4.6	29
43	Cardiovascular complications in diabetes: lessons from animal models. *Current Medicinal Chemistry*, **2011**, 18, 1806-19	4.3	27
42	Increased antioxidant defense mechanism in human adventitia-derived progenitor cells is associated with therapeutic benefit in ischemia. *Antioxidants and Redox Signaling*, **2014**, 21, 1591-604	8.4	26
41	Assessment of resveratrol, apocynin and taurine on mechanical-metabolic uncoupling and oxidative stress in a mouse model of duchenne muscular dystrophy: A comparison with the gold standard, methyl prednisolone. *Pharmacological Research*, **2016**, 106, 101-113	10.2	24
40	Selective Acetamidine-Based Nitric Oxide Synthase Inhibitors: Synthesis, Docking, and Biological Studies. *ACS Medicinal Chemistry Letters*, **2015**, 6, 635-40	4.3	22

39	Intermittent low-dose finasteride administration is effective for treatment of hirsutism in adolescent girls: a pilot study. *Journal of Pediatric and Adolescent Gynecology*, **2014**, 27, 161-5	2	22
38	In-vivo administration of CLC-K kidney chloride channels inhibitors increases water diuresis in rats: a new drug target for hypertension?. *Journal of Hypertension*, **2012**, 30, 153-67	1.9	22
37	Endothelial dysfunction due to selective insulin resistance in vascular endothelium: insights from mechanistic modeling. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 319, E629-E646	6	21
36	Males with low serum levels of vitamin D have lower pregnancy rates when ovulation induction and timed intercourse are used as a treatment for infertile couples: results from a pilot study. *Reproductive Biology and Endocrinology*, **2015**, 13, 127	5	20
35	Diabetic cardiomyopathy: how much does it depend on AGE?. *British Journal of Pharmacology*, **2008**, 154, 725-6	8.6	20
34	Can Epigenetics of Endothelial Dysfunction Represent the Key to Precision Medicine in Type 2 Diabetes Mellitus?. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	18
33	Augmenter of liver regeneration, a protective factor against ROS-induced oxidative damage in muscle tissue of mitochondrial myopathy affected patients. *International Journal of Biochemistry and Cell Biology*, **2013**, 45, 2410-9	5.6	17
32	Elevated endothelin-1 (ET-1) levels may contribute to hypoadiponectinemia in childhood obesity. *Journal of Clinical Endocrinology and Metabolism*, **2013**, 98, E683-93	5.6	17
31	Targeting endothelial metaflammation to counteract diabesity cardiovascular risk: Current and perspective therapeutic options. *Pharmacological Research*, **2017**, 120, 226-241	10.2	16
30	Vitamin D Supplementation for Premenstrual Syndrome-Related Mood Disorders in Adolescents with Severe Hypovitaminosis D. *Journal of Pediatric and Adolescent Gynecology*, **2016**, 29, 357-61	2	16
29	The putative metabolic role of d-chiro inositol phosphoglycan in human pregnancy and preeclampsia. *Journal of Reproductive Immunology*, **2014**, 101-102, 140-147	4.2	14
28	Discovery of N-{3-[(ethanimidoylamino)methyl]benzyl}-l-prolinamide dihydrochloride: A new potent and selective inhibitor of the inducible nitric oxide synthase as a promising agent for the therapy of malignant glioma. *European Journal of Medicinal Chemistry*, **2018**, 152, 53-64	6.8	13
27	Endothelial and Metabolic Function Interactions in Overweight/Obese Children. *Journal of Atherosclerosis and Thrombosis*, **2016**, 23, 950-9	4	13
26	Determinants of evolving metabolic and cardiovascular benefit/risk profiles of rosiglitazone therapy during the natural history of diabetes: molecular mechanisms in the context of integrated pathophysiology. *American Journal of Physiology - Endocrinology and Metabolism*, **2012**, 302, E1171-82	6	11
25	The Intrinsic Virtues of EGCG, an , on Prevention and Treatment of Diabesity Complications. *Molecules*, **2020**, 25,	4.8	10
24	Infliximab therapy restores adiponectin expression in perivascular adipose tissue and improves endothelial nitric oxide-mediated vasodilation in mice with type 1 diabetes. *Vascular Pharmacology*, **2016**, 87, 83-91	5.9	10
23	Abnormal insulin signaling: early detection of silent coronary artery disease-erectile dysfunction?. *Current Pharmaceutical Design*, **2008**, 14, 3737-48	3.3	8
22	Endothelin-1-receptor-mediated responses in resistance vessels of young and adult spontaneously hypertensive rats. *Journal of Hypertension*, **2000**, 18, 893-900	1.9	8

21	Effects of erythromycin on human colonic circular muscle in idiopathic chronic constipation. *European Journal of Clinical Investigation*, **2000**, 30, 66-71	4.6	8
20	Vasodilatation induced by capsaicin in rat mesenteric vessels is probably independent of nitric oxide synthesis. *Pharmacological Research*, **1994**, 30, 253-61	10.2	8
19	Diabetes and Alzheimer's Disease: Might Mitochondrial Dysfunction Help Deciphering the Common Path?. *Antioxidants*, **2021**, 10,	7.1	6
18	Prenatal exposure to carbon monoxide and vascular responsiveness of rat resistance vessels. *Life Sciences*, **1996**, 59, 1553-61	6.8	5
17	The Connection Between Physical Exercise and Gut Microbiota: Implications for Competitive Sports Athletes. *Sports Medicine*,	10.6	5
16	Chronic treatment with epigallocatechin gallate reduces motor hyperactivity and affects in vitro tested intestinal motility of spontaneously hypertensive rats. *Food and Nutrition Research*, **2016**, 60, 28373	3.1	4
15	Calcimimetic R-568 vasodilatory effect on mesenteric vascular beds from normotensive (WKY) and spontaneously hypertensive (SHR) rats. Potential involvement of vascular smooth muscle cells (vSMCs). *PLoS ONE*, **2018**, 13, e0202354	3.7	4
14	Intermittent losartan administration triggers cardiac post-conditioning in isolated rat hearts: role of BK2 receptors. *PLoS ONE*, **2014**, 9, e88542	3.7	4
13	Cardiac Involvement in COVID-19 Patients: A Contemporary Review. *Infectious Disease Reports*, **2021**, 13, 494-517	0.6	4
12	MicroRNAs as a Potential New Preventive Approach in the Transition from Asymptomatic to Symptomatic Multiple Myeloma Disease. *Cancers*, **2021**, 13,	6.6	4
11	Endothelial Dysfunction May Link Interatrial Septal Abnormalities and MTHFR-Inherited Defects to Cryptogenic Stroke Predisposition. *Biomolecules*, **2020**, 10,	5.9	3
10	Galloyl benzamide-based compounds modulating tumour necrosis factor-stimulated c-Jun N-terminal kinase and p38 mitogen-activated protein kinase signalling pathways. *Journal of Pharmacy and Pharmacology*, **2015**, 67, 1380-92	4.8	3
9	Antineoplastic dosing in overweight and obese cancer patients: an Associazione Italiana Oncologia Medica (AIOM)/Associazione Medici Diabetologi (AMD)/Societ Italiana Endocrinologia (SIE)/Societ Italiana Farmacologia (SIF) multidisciplinary consensus position paper. *ESMO Open*, **2021**, 6, 100153	6	3
8	Early prediction of pancreatic cancer from new-onset diabetes: an Associazione Italiana Oncologia Medica (AIOM)/Associazione Medici Diabetologi (AMD)/Societ Italiana Endocrinologia (SIE)/Societ Italiana Farmacologia (SIF) multidisciplinary consensus position paper. *ESMO Open*, **2021**, 6, 100155	6	3
7	Carbon monoxide contributes to the constipating effects of granisetron in rat colon. *World Journal of Gastroenterology*, **2016**, 22, 9333-9345	5.6	2
6	Management of metabolic adverse events of targeted therapies and immune checkpoint inhibitors in cancer patients: an Associazione Italiana Oncologia Medica (AIOM)/Associazione Medici Diabetologi (AMD)/Societ Italiana Farmacologia (SIF) multidisciplinary consensus position paper. *Critical Reviews in Oncology/Hematology*, **2020**, 154, 103066	7	2
5	Rosiglitazone reverses increased duodenal inhibitory response in spontaneously hypertensive rats. *Neurogastroenterology and Motility*, **2012**, 24, e56-66	4	1
4	Hemin and Zinc Protoporphyrin IX Affect Granisetron Constipating Effects In Vitro and In Vivo. *ISRN Gastroenterology*, **2013**, 2013, 612037		1

3	Metabolic disorders and gastroenteropancreatic-neuroendocrine tumors (GEP-NETs): How do they influence each other? An Italian Association of Medical Oncology (AIOM)/ Italian Association of Medical Diabetologists (AMD)/ Italian Society of Endocrinology (SIE)/ Italian Society of Pharmacology (SIF) multidisciplinary consensus position paper.. *Critical Reviews in*	7	1
2	Botulinum Neurotoxins (BoNTs) and Their Biological, Pharmacological, and Toxicological Issues: A Scoping Review. *Applied Sciences (Switzerland)*, **2021**, 11, 8849	2.6	0
1	Pulsatile antagonism on bradykinin 2-receptor (BK2R) by icatibant triggers the most effective kinin-dependent post-conditioning on rat hearts. *European Review for Medical and Pharmacological Sciences*, **2019**, 23, 4439-4447	2.9	