Fernanda Amicarelli

List of Publications by Year
in descending order

63 papers	2,752 citations	218381 26 h-index	182168 51 g-index
64 all docs	64 docs citations	64 times ranked	3674 citing authors

#	Article	IF	Citations
1	Cellular and molecular aspects of ovarian follicle ageing. Human Reproduction Update, 2008, 14, 131-142.	5.2	342
2	Sirtuins in gamete biology and reproductive physiology: emerging roles and therapeutic potential in female and male infertility. Human Reproduction Update, 2018, 24, 267-289.	5.2	170
3	SIRT1 signalling protects mouse oocytes against oxidative stress and is deregulated during aging. Human Reproduction, 2014, 29, 2006-2017.	0.4	143
4	The aging ovaryâ€”the poor granulosa cells. Fertility and Sterility, 2013, 99, 12-17.	0.5	128
5	Cerium Oxide Nanoparticles Trigger Neuronal Survival in a Human Alzheimer Disease Model By Modulating BDNF Pathway. Current Nanoscience, 2009, 5, 167-176.	0.7	126
6	Sirtuin Functions in Female Fertility: Possible Role in Oxidative Stress and Aging. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-11.	1.9	110
7	Scavenging system efficiency is crucial for cell resistance to ROS-mediated methylglyoxal injury. Free Radical Biology and Medicine, 2003, 35, 856-871.	1.3	101
8	Fifty hertz extremely lowâ€frequency magnetic field exposure elicits redox and trophic response in ratâ€cortical neurons. Journal of Cellular Physiology, 2009, 219, 334-343.	2.0	95
9	Methylglyoxal causes strong weakening of detoxifying capacity and apoptotic cell death in rat hippocampal neurons. International Journal of Biochemistry and Cell Biology, 2008, 40, 245-257.	1.2	94
10	Age-Associated Changes in Mouse Oocytes During Postovulatory In Vitro Culture: Possible Role for Meiotic Kinases and Survival Factor BCL21. Biology of Reproduction, 2006, 74, 395-402.	1.2	93
11	Fifty hertz extremely low-frequency electromagnetic field causes changes in redox and differentiative status in neuroblastoma cells. International Journal of Biochemistry and Cell Biology, 2007, 39, 2093-2106.	1.2	87
12	Role of Mitochondria in the Oxidative Stress Induced by Electromagnetic Fields: Focus on Reproductive Systems. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-18.	1.9	85
13	Chronic exposure to 50Hz magnetic fields causes a significant weakening of antioxidant defence systems in aged rat brain. International Journal of Biochemistry and Cell Biology, 2008, 40, 2762-2770.	1.2	81
14	Methylglyoxal induces oxidative stress-dependent cell injury and up-regulation of interleukin-1Î² and nerve growth factor in cultured hippocampal neuronal cells. Brain Research, 2004, 1006, 157-167.	1.1	79
15	Evidence that carbonyl stress by methylglyoxal exposure induces DNA damage and spindle aberrations, affects mitochondrial integrity in mammalian oocytes and contributes to oocyte ageing. Human Reproduction, 2011, 26, 1843-1859.	0.4	73
16	Developmental Aspects of Detoxifying Enzymes in Fish (<i>Salmo Iridaeus</i>). Free Radical Research, 1994, 21, 285-294.	1.5	58
17	Early Biochemical and Morphological Modifications in the Brain of a Transgenic Mouse Model of Alzheimer's Disease: A Role for Peroxisomes. Journal of Alzheimer's Disease, 2009, 18, 935-952.	1.2	56
18	PPARÎ³-dependent effects of conjugated linoleic acid on the human glioblastoma cell line (ADF). International Journal of Cancer, 2005, 117, 923-933.	2.3	54

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19	Molecular basis underlying the biological effects elicited by extremely low-frequency magnetic field (ELF-MF) on neuroblastoma cells. Journal of Cellular Biochemistry, 2011, 112, 3797-3806.	1.2	44
20	Preâ€exposure of neuroblastoma cell line to pulsed electromagnetic field prevents H₂O₂â€induced ROS production by increasing MnSOD activity. Bioelectromagnetics, 2015, 36, 219-232.	0.9	44
21	SIRT1 participates in the response to methylglyoxal-dependent glycative stress in mouse oocytes and ovary. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1389-1401.	1.8	39
22	Long Term Running Biphasically Improves Methylglyoxal-Related Metabolism, Redox Homeostasis and Neurotrophic Support within Adult Mouse Brain Cortex. PLoS ONE, 2012, 7, e31401.	1.1	38
23	Dicarbonyl stress and glyoxalases in ovarian function. Biochemical Society Transactions, 2014, 42, 433-438.	1.6	35
24	The Natural Carotenoid Crocetin and the Synthetic Tellurium Compound AS101 Protect the Ovary against Cyclophosphamide by Modulating SIRT1 and Mitochondrial Markers. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-14.	1.9	35
25	Mitochondrial Sirtuins in Reproduction. Antioxidants, 2021, 10, 1047.	2.2	32
26	Aging and detoxifying enzymes responses to hypoxic or hyperoxic treatment. Mechanisms of Ageing and Development, 1997, 97, 215-226.	2.2	30
27	ACE and AGTR1 Polymorphisms and Left Ventricular Hypertrophy in Endurance Athletes. Medicine and Science in Sports and Exercise, 2010, 42, 915-921.	0.2	27
28	Regular and moderate exercise initiated in middle age prevents age-related amyloidogenesis and preserves synaptic and neuroprotective signaling in mouse brain cortex. Experimental Gerontology, 2014, 57, 57-65.	1.2	27
29	Melanogenesis, Tyrosinase Expression, and Reproductive Differentiation in Black and White Truffles (Ascomycotina). Pigment Cell & Melanoma Research, 1997, 10, 46-53.	4.0	26
30	Late-Onset Running Biphasically Improves Redox Balance, Energy- and Methylglyoxal-Related Status, as well as SIRT1 Expression in Mouse Hippocampus. PLoS ONE, 2012, 7, e48334.	1.1	26
31	Peripheral Blood Lymphocytes: A Model for Monitoring Physiological Adaptation to High Altitude. High Altitude Medicine and Biology, 2010, 11, 333-342.	0.5	21
32	Improved Mitochondrial and Methylglyoxalâ€Related Metabolisms Support Hyperproliferation Induced by 50â€‰Hz Magnetic Field in Neuroblastoma Cells. Journal of Cellular Physiology, 2016, 231, 2014-2025.	2.0	21
33	Liposome-entrapped tyrosinase: a tool to investigate the regulation of the Raper-Mason pathway. Biochimica Et Biophysica Acta - General Subjects, 1988, 966, 276-286.	1.1	20
34	Amphibian transition to the oxidant terrestrial environment affects the expression of glutathione S-transferases isoenzymatic pattern. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1691, 181-192.	1.9	20
35	Extremely Low-Frequency Magnetic Fields and Redox-Responsive Pathways Linked to Cancer Drug Resistance: Insights from Co-Exposure-Based In Vitro Studies. Frontiers in Public Health, 2018, 6, 33.	1.3	20
36	Methylglyoxal-Dependent Glycative Stress and Deregulation of SIRT1 Functional Network in the Ovary of PCOS Mice. Cells, 2020, 9, 209.	1.8	20

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37	Antioxidant and GSH-related enzyme response to a single teratogenic exposure to the anticonvulsant phenytoin: Temporospatial evaluation. Teratology, 2000, 62, 100-107.	1.8	18
38	Glutathione transferase isoenzymes from frog (Xenopus laevis) liver and embryo. Biochimica Et Biophysica Acta - General Subjects, 2002, 1569, 81-85.	1.1	18
39	Truffle thio-flavours reversibly inhibit truffle tyrosinase. FEMS Microbiology Letters, 2003, 220, 81-88.	0.7	18
40	Protective effect of 1950 MHz electromagnetic field in human neuroblastoma cells challenged with menadione. Scientific Reports, 2018, 8, 13234.	1.6	18
41	Endothelial cells from umbilical cord of women affected by gestational diabetes: A suitable in vitro model to study mechanisms of early vascular senescence in diabetes. FASEB Journal, 2021, 35, e21662.	0.2	18
42	Developmental aspects of Bufo bufo embryo glutathione transferases. Mechanisms of Ageing and Development, 1993, 68, 59-70.	2.2	15
43	Human glioblastoma ADF cells express tyrosinase,L-tyrosine hydroxylase and melanosomes and are sensitive toL-tyrosine and phenylthiourea. Journal of Cellular Physiology, 2006, 207, 675-682.	2.0	14
44	SIRT1-Dependent Upregulation of Antiglycative Defense in HUVECs Is Essential for Resveratrol Protection against High Glucose Stress. Antioxidants, 2019, 8, 346.	2.2	14
45	Multiple Unfolded States of Glutathione Transferase bbGSTP1-1 by Guanidinium Chloride. Archives of Biochemistry and Biophysics, 1999, 369, 100-106.	1.4	13
46	Activation of the immune system and sperm DNA fragmentation are associated with idiopathic oligoasthenoteratospermia in men with couple subfertility. Fertility and Sterility, 2011, 95, 2676-2679.e3.	0.5	13
47	Regular and Moderate Exercise Counteracts the Decline of Antioxidant Protection but Not Methylglyoxal-Dependent Glycative Burden in the Ovary of Reproductively Aging Mice. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-13.	1.9	13
48	Amphibian embryo glutathione transferase: amino acid sequence and structural properties. Biochemical Journal, 1997, 322, 679-680.	1.7	11
49	Spatial distribution of glutathione, glutathione-related and antioxidant enzymes in cultured mouse embryos. Archives of Toxicology, 1997, 72, 38-44.	1.9	10
50	Developmental expression and distribution of amphibian glutathione transferases. Biochimica Et Biophysica Acta - General Subjects, 2001, 1526, 77-85.	1.1	10
51	Antiglycative Activity and RAGE Expression in Rett Syndrome. Cells, 2019, 8, 161.	1.8	8
52	Alteration of glutathione transferase subunits composition in the liver of young and aged rats submitted to hypoxic and hyperoxic conditions. Biochimica Et Biophysica Acta - Molecular Cell Research, 1996, 1312, 125-131.	1.9	7
53	Tadalafil treatment had a modest effect on endothelial cell damage and repair ability markers in men with erectile dysfunction and vascular risk. Asian Journal of Andrology, 2014, 16, 290.	0.8	7
54	TRANSIENT MAINTENANCE IN BIOREACTOR IMPROVES HEALTH OF NEURONAL CELLS. In Vitro Cellular and Developmental Biology - Animal, 2006, 42, 134.	0.7	6

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55	The complexity of Rett syndrome models: Primary fibroblasts as a disease-in-a-dish reliable approach. Drug Discovery Today: Disease Models, 2020, 31, 11-19.	1.2	5
56	NAD+-linked malic enzyme in mitochondria of amphibian oocytes. International Journal of Biochemistry & Cell Biology, 1977, 8, 149-157.	0.8	4
57	Glyoxalases activity during Bufo bufo embryo development. Mechanisms of Ageing and Development, 1998, 100, 261-267.	2.2	4
58	Amino acid sequence of the major form of toad liver glutathione transferase. International Journal of Biochemistry and Cell Biology, 2002, 34, 1286-1290.	1.2	4
59	Molecular approach to the nucleo-melanosomal interaction in human melanoma cells. Journal of Neuro-Oncology, 1997, 31, 185-193.	1.4	1
60	Biochemical and Ultrastructural Alaterations is Rat After Hyperoxic Treatment: Effect of Taurine and Hypotaurine. Advances in Experimental Medicine and Biology, 2002, 483, 149-156.	0.8	1
61	Regulation of glutamate oxidation in mitochondria of Xenopus laevis oocytes. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1980, 66, 1-11.	0.2	0
62	DETOXIFYING ENZYMES AND APOPTOSIS IN TRUFFLES. Biochemical Society Transactions, 1996, 24, 531S-531S.	1.6	0
63	Effects of glutathione on kinetics and structural properties of amphibian BbGSTP1-1. International Journal of Biochemistry and Cell Biology, 2003, 35, 415-421.	1.2	0