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Targeting cancer cells by ROS-mediated mechanisms: a radical therapeutic approach?

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2205	Selenium: a double-edged sword for defense and offence in cancer. <b>2010</b> , 84, 919-38		238
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2029	Reactive oxygen species in cancer stem cells. <b>2012</b> , 16, 1215-28	221
2028	Novel oxidatively activated agents modify DNA and are enhanced by ercc1 silencing. <b>2012</b> , 25, 2542-52	15
2027	Curcumin targeting the thioredoxin system elevates oxidative stress in HeLa cells. <b>2012</b> , 262, 341-8	80
2026	D-Penicillamine targets metastatic melanoma cells with induction of the unfolded protein response (UPR) and Noxa (PMAIP1)-dependent mitochondrial apoptosis. <b>2012</b> , 17, 1079-94	23
2025	Silencing expression of ribosomal protein L26 and L29 by RNA interfering inhibits proliferation of human pancreatic cancer PANC-1 cells. <b>2012</b> , 370, 127-39	34
2024	A mitochondria-based method for the determination of antioxidant activities using 2',7'-dichlorofluorescein diacetate oxidation. <b>2012</b> , 48, 454-461	5
2023	Maintenance of higher H <sub>2</sub> O <sub>2</sub> levels, and its mechanism of action to induce growth in breast cancer cells: important roles of bioactive catalase and PP2A. <b>2012</b> , 53, 1541-51	36
2022	T63, a new 4-arylidene curcumin analogue, induces cell cycle arrest and apoptosis through activation of the reactive oxygen species-FOXO3a pathway in lung cancer cells. <b>2012</b> , 53, 2204-17	35
2021	Plasma cholinesterase and carboxylesterase activities and nuclear and mitochondrial lipid composition of human placenta associated with maternal exposure to pesticides. <b>2012</b> , 34, 402-7	21
2020	Synergistic effects of piperine and curcumin in modulating benzo(a)pyrene induced redox imbalance in mice lungs. <b>2012</b> , 22, 74-80	16
2019	Ischaemia reperfusion may be a new approach in cancer interventional therapy. <b>2012</b> , 6, 50-52	0
2018	Deubiquitinases as a signaling target of oxidative stress. <b>2012</b> , 2, 1475-84	123
2017	Targeting JAK2 in the therapy of myeloproliferative neoplasms. <b>2012</b> , 16, 313-24	16

2016	The coffee constituent chlorogenic acid induces cellular DNA damage and formation of topoisomerase I- and II-DNA complexes in cells. <b>2012</b> , 60, 7384-91	56
2015	Comparative Investigation on Radical Scavenging Activity and Protective Properties of Natural Isolated and Synthetic Antioxidants. <b>2012</b> , 26, 175-179	2
2014	Induction of oxidative stress in Trypanosoma brucei by the antitrypanosomal dihydroquinoline OSU-40. <b>2012</b> , 56, 2428-34	13
2013	Peptide isolated from Japanese flounder skin gelatin protects against cellular oxidative damage. <b>2012</b> , 60, 9112-9	52
2012	A novel disintegrin protein from Naja naja venom induces cytotoxicity and apoptosis in human cancer cell lines in vitro. <b>2012</b> , 47, 1243-1249	46
2011	ROS-activated anticancer prodrugs: a new strategy for tumor-specific damage. <b>2012</b> , 3, 823-33	104
2010	Pyruvate kinase M2 activators promote tetramer formation and suppress tumorigenesis. <b>2012</b> , 8, 839-47	476
2009	Synthetic oleanane triterpenoids: multifunctional drugs with a broad range of applications for prevention and treatment of chronic disease. <b>2012</b> , 64, 972-1003	288
2008	Gambogic acid deactivates cytosolic and mitochondrial thioredoxins by covalent binding to the functional domain. <b>2012</b> , 75, 1108-16	24
2007	Evaluation of chemopreventive and cytotoxic effect of lemon seed extracts on human breast cancer (MCF-7) cells. <b>2012</b> , 50, 423-30	37
2006	Enhancement of cisplatin cytotoxicity by benzyl isothiocyanate in HL-60 cells. <b>2012</b> , 50, 2397-406	18
2005	Live-attenuated measles virus vaccine confers cell contact loss and apoptosis of ovarian cancer cells via ROS-induced silencing of E-cadherin by methylation. <b>2012</b> , 318, 14-25	14
2004	Activation of reactive oxygen species/AMP activated protein kinase signaling mediates fisetin-induced apoptosis in multiple myeloma U266 cells. <b>2012</b> , 319, 197-202	53
2003	Targeting a cornerstone of radiation resistance: cancer stem cell. <b>2012</b> , 322, 139-47	113
2002	Advances in membrane proteomics and cancer biomarker discovery: current status and future perspective. <b>2012</b> , 12, 3085-104	37
2001	Tetrathiomolybdate sensitizes ovarian cancer cells to anticancer drugs doxorubicin, fenretinide, 5-fluorouracil and mitomycin C. <b>2012</b> , 12, 147	19
2000	Curcumin and synthetic analogs induce reactive oxygen species and decreases specificity protein (Sp) transcription factors by targeting microRNAs. <b>2012</b> , 12, 564	124
1999	Evidence-based Anticancer Materia Medica for Leukemia. <b>2012</b> , 229-259	

1998	Silica nanoparticles coencapsulating gadolinium oxide and horseradish peroxidase for imaging and therapeutic applications. <b>2012</b> , 7, 5491-500	13
1997	Respiratory Insufficiency, the Retrograde Response, and the Origin of Cancer. <b>2012</b> , 177-194	1
1996	Anti-proliferative and Apoptosis-Inducing Properties of Xanthohumol, a Prenylated Chalcone from Hops ( <i>Humulus lupulus</i> L.). <b>2012</b> , 69-93	6
1995	Long-term effects of systemic cancer treatment on DNA oxidative damage: the potential for targeted therapies. <b>2012</b> , 327, 134-41	18
1994	Pleiotrophic effects of natural products in ROS-induced carcinogenesis: the role of plant-derived natural products in oral cancer chemoprevention. <b>2012</b> , 327, 16-25	37
1993	Novel peptidomimetic compounds containing redox active chalcogens and quinones as potential anticancer agents. <b>2012</b> , 58, 192-205	46
1992	A novel chenodeoxycholic acid-verticinone ester induces apoptosis and cell cycle arrest in HepG2 cells. <b>2012</b> , 77, 1381-90	9
1991	Cadmium induces carcinogenesis in BEAS-2B cells through ROS-dependent activation of PI3K/AKT/GSK-3 $\beta$ /E-catenin signaling. <b>2012</b> , 264, 153-60	100
1990	Antiproliferative effects of lectins from <i>Canavalia ensiformis</i> and <i>Canavalia brasiliensis</i> in human leukemia cell lines. <b>2012</b> , 26, 1161-9	39
1989	Spatiotemporal autophagic degradation of oxidatively damaged organelles after photodynamic stress is amplified by mitochondrial reactive oxygen species. <b>2012</b> , 8, 1312-24	51
1988	Stem Cells and Stress Injury: Role of Arginine Decarboxylase. <b>2012</b> , 195-202	
1987	Cell-penetrating nitroxides as molecular sensors for imaging of cancer in vivo, based on tissue redox activity. <b>2012</b> , 8, 2733-40	20
1986	Cytocidal Effects of Polyphenolic Compounds, Alone or in Combination with, Anticancer Drugs Against Cancer Cells: Potential Future Application of the Combinatory Therapy. <b>2012</b> ,	3
1985	NRF2 and cancer: the good, the bad and the importance of context. <b>2012</b> , 12, 564-71	725
1984	Protection of CDC25 phosphatases against oxidative stress in breast cancer cells: evaluation of the implication of the thioredoxin system. <b>2012</b> , 46, 674-89	8
1983	Tumor growth inhibitory effect of juglone and its radiation sensitizing potential: in vivo and in vitro studies. <b>2012</b> , 11, 68-80	27
1982	Piperine as an adjuvant increases the efficacy of curcumin in mitigating benzo(a)pyrene toxicity. <b>2012</b> , 31, 473-82	28
1981	Downregulation of PRDX1 by promoter hypermethylation is frequent in 1p/19q-deleted oligodendroglial tumours and increases radio- and chemosensitivity of Hs683 glioma cells in vitro. <b>2012</b> , 31, 3409-18	32

1980	Upsides and downsides of reactive oxygen species for cancer: the roles of reactive oxygen species in tumorigenesis, prevention, and therapy. <b>2012</b> , 16, 1295-322	503
1979	Aminoferrocene-based prodrugs activated by reactive oxygen species. <b>2012</b> , 55, 924-34	178
1978	Anti-leukemia activity of chaetocin via death receptor-dependent apoptosis and dual modulation of the histone methyl-transferase SUV39H1. <b>2012</b> , 26, 662-74	65
1977	Deciphering intracellular targets of organochalcogen based redox catalysts. <b>2012</b> , 3, 784	15
1976	Malabaricone-A induces a redox imbalance that mediates apoptosis in U937 cell line. <b>2012</b> , 7, e36938	26
1975	Jacaranone induces apoptosis in melanoma cells via ROS-mediated downregulation of Akt and p38 MAPK activation and displays antitumor activity in vivo. <b>2012</b> , 7, e38698	40
1974	Peroxiredoxin 3 is a redox-dependent target of thiostrepton in malignant mesothelioma cells. <b>2012</b> , 7, e39404	39
1973	Hsp90 is cleaved by reactive oxygen species at a highly conserved N-terminal amino acid motif. <b>2012</b> , 7, e40795	46
1972	Ras/Raf/MEK/ERK and PI3K/PTEN/Akt/mTOR cascade inhibitors: how mutations can result in therapy resistance and how to overcome resistance. <b>2012</b> , 3, 1068-111	250
1971	Niclosamide, an old antihelminthic agent, demonstrates antitumor activity by blocking multiple signaling pathways of cancer stem cells. <b>2012</b> , 31, 178-84	96
1970	Dietary phenolic acids act as effective antioxidants in membrane models and in cultured cells, exhibiting proapoptotic effects in leukaemia cells. <b>2012</b> , 2012, 839298	35
1969	Synthesis, reactive oxygen species generation and copper-mediated nuclease activity profiles of 2-aryl-3-amino-1,4-naphthoquinones. <b>2012</b> , 22, 3766-9	12
1968	A redox-regulated SUMO/acetylation switch of HIPK2 controls the survival threshold to oxidative stress. <b>2012</b> , 46, 472-83	87
1967	Delivery to mitochondria: a narrower approach for broader therapeutics. <b>2012</b> , 9, 909-35	19
1966	In vivo demonstration of enhanced radiotherapy using rare earth doped titania nanoparticles. <b>2012</b> , 4, 5043-50	54
1965	β-Tocopheryloxyacetic acid is superior to β-tocopheryl succinate in suppressing HER2-high breast carcinomas due to its higher stability. <b>2012</b> , 131, 1052-8	18
1964	Pathological neoangiogenesis depends on oxidative stress regulation by ATM. <b>2012</b> , 18, 1208-16	118
1963	Short-term exposure to 50 Hz ELF-EMF alters the cisplatin-induced oxidative response in AT478 murine squamous cell carcinoma cells. <b>2012</b> , 33, 641-51	45

1962	ROS-inducible DNA cross-linking agent as a new anticancer prodrug building block. <b>2012</b> , 18, 3850-4	66
1961	Cu(II) ions and the stilbene-chroman hybrid with a catechol moiety synergistically induced DNA damage, and cell cycle arrest and apoptosis of HepG2 cells: an interesting acid/base-promoted prooxidant reaction. <b>2012</b> , 18, 11100-6	14
1960	CS055 (Chidamide/HBI-8000), a novel histone deacetylase inhibitor, induces G1 arrest, ROS-dependent apoptosis and differentiation in human leukaemia cells. <b>2012</b> , 443, 735-46	86
1959	Redox implications of AMPK-mediated signal transduction beyond energetic clues. <b>2012</b> , 125, 2115-25	154
1958	Structure-activity relationship and mode of action of N-(6-ferrocenyl-2-naphthoyl) dipeptide ethyl esters: novel organometallic anticancer compounds. <b>2012</b> , 55, 5455-66	31
1957	Aminopyrimidoisoquinolinequinone (APIQ) redox cycling is potentiated by ascorbate and induces oxidative stress leading to necrotic-like cancer cell death. <b>2012</b> , 30, 1003-11	12
1956	The redox antimalarial dihydroartemisinin targets human metastatic melanoma cells but not primary melanocytes with induction of NOXA-dependent apoptosis. <b>2012</b> , 30, 1289-301	58
1955	Description of the cytotoxic effect of a novel drug Abietyl-Isothiocyanate on endometrial cancer cell lines. <b>2012</b> , 30, 1460-70	7
1954	Targeting aerobic glycolysis: 3-bromopyruvate as a promising anticancer drug. <b>2012</b> , 44, 17-29	87
1953	NADPH oxidase-produced superoxide mediates EGFR transactivation by c-Src in arsenic trioxide-stimulated human keratinocytes. <b>2012</b> , 86, 935-45	26
1952	Prostaglandin E2 blocks menadione-induced apoptosis through the Ras/Raf/Erk signaling pathway in promonocytic leukemia cell lines. <b>2012</b> , 33, 371-8	13
1951	ICB3E induces iNOS expression by ROS-dependent JNK and ERK activation for apoptosis of leukemic cells. <b>2012</b> , 17, 612-26	19
1950	Antioxidant inhibitors potentiate the cytotoxicity of photodynamic therapy. <b>2012</b> , 88, 175-87	51
1949	Resveratrol induces gastric cancer cell apoptosis via reactive oxygen species, but independent of sirtuin1. <b>2012</b> , 39, 227-32	44
1948	Hydroxychavicol, a Piper betle leaf component, induces apoptosis of CML cells through mitochondrial reactive oxygen species-dependent JNK and endothelial nitric oxide synthase activation and overrides imatinib resistance. <b>2012</b> , 103, 88-99	39
1947	Cytotoxic properties of Adamantyl isothiocyanate and potential in vivo metabolite adamantyl-N-acetylcystein in gynecological cancer cells. <b>2012</b> , 79, 92-103	2
1946	Melatonin inhibits matrix metalloproteinase-9 (MMP-9) activation in the lipopolysaccharide (LPS)-stimulated RAW 264.7 and BV2 cells and a mouse model of meningitis. <b>2012</b> , 53, 188-97	23
1945	Reactive oxygen species-mediated mitochondrial pathway is involved in Baohuoside I-induced apoptosis in human non-small cell lung cancer. <b>2012</b> , 199, 9-17	43



1944	Reactive oxygen species (ROS) homeostasis and redox regulation in cellular signaling. <b>2012</b> , 24, 981-90	2596
1943	Effects of the commercial extract of aronia on oxidative stress in blood platelets isolated from breast cancer patients after the surgery and various phases of the chemotherapy. <b>2012</b> , 83, 310-7	35
1942	Overexpression of GRP94 in breast cancer cells resistant to oxidative stress promotes high levels of cancer cell proliferation and migration: implications for tumor recurrence. <b>2012</b> , 52, 993-1002	63
1941	The oncology drug elesclomol selectively transports copper to the mitochondria to induce oxidative stress in cancer cells. <b>2012</b> , 52, 2142-50	81
1940	Stem cells in squamous head and neck cancer. <b>2012</b> , 81, 224-40	45
1939	Reactive oxygen species: are they important for haematopoiesis?. <b>2012</b> , 81, 257-74	54
1938	Oxidized phospholipid based pH sensitive micelles for delivery of anthracyclines to resistant leukemia cells in vitro. <b>2012</b> , 422, 409-17	14
1937	Intracellular delivery of redox cyler-doxorubicin to the mitochondria of cancer cell by folate receptor targeted mitocancerotropic liposomes. <b>2012</b> , 432, 63-74	66
1936	Thiostrepton is an inducer of oxidative and proteotoxic stress that impairs viability of human melanoma cells but not primary melanocytes. <b>2012</b> , 83, 1229-40	36
1935	p38(MAPK) and ERK1/2 dictate cell death/survival response to different pro-oxidant stimuli via p53 and Nrf2 in neuroblastoma cells SH-SY5Y. <b>2012</b> , 83, 1349-57	50
1934	Increased singlet oxygen-induced secondary ROS production in the serum of cancer patients. <b>2012</b> , 107, 14-9	8
1933	Nanoparticle augmented radiation treatment decreases cancer cell proliferation. <b>2012</b> , 8, 526-36	30
1932	PTEN regulates apoptotic cell death through PI3-K/Akt/GSK3 $\beta$ signaling pathway in DMH induced early colon carcinogenesis in rat. <b>2012</b> , 93, 135-46	30
1931	Genetic determinants of oxidative stress-mediated sensitization of drug-resistant cancer cells. <b>2012</b> , 130, 1-9	46
1930	Regulation of reactive oxygen species in stem cells and cancer stem cells. <b>2012</b> , 227, 421-30	213
1929	ErbB1/2 tyrosine kinase inhibitor mediates oxidative stress-induced apoptosis in inflammatory breast cancer cells. <b>2012</b> , 132, 109-19	45
1928	The curcuminoid CLEFMA selectively induces cell death in H441 lung adenocarcinoma cells via oxidative stress. <b>2012</b> , 30, 558-67	16
1927	Design of Mn porphyrins for treating oxidative stress injuries and their redox-based regulation of cellular transcriptional activities. <b>2012</b> , 42, 95-113	91

1926	The oxidative stress-inducible cystine/glutamate antiporter, system x (c) (-) : cystine supplier and beyond. <b>2012</b> , 42, 231-46	290
1925	Mechanisms underlying reductant-induced reactive oxygen species formation by anticancer copper(II) compounds. <b>2012</b> , 17, 409-23	107
1924	Protein tyrosine phosphatase structure-function relationships in regulation and pathogenesis. <b>2013</b> , 280, 413-31	55
1923	Effects of polyunsaturated fatty acids on the growth of gastric cancer cells in vitro. <b>2013</b> , 12, 71	47
1922	Hirsutanol A, a novel sesquiterpene compound from fungus <i>Chondrostereum</i> sp., induces apoptosis and inhibits tumor growth through mitochondrial-independent ROS production: hirsutanol A inhibits tumor growth through ROS production. <b>2013</b> , 11, 32	25
1921	Curcumin improves expression of SCF/c-kit through attenuating oxidative stress and NF- $\kappa$ B activation in gastric tissues of diabetic gastroparesis rats. <b>2013</b> , 5, 12	32
1920	Boosting antioxidants by lipophilization: a strategy to increase cell uptake and target mitochondria. <b>2013</b> , 30, 1979-89	33
1919	Next-generation metal anticancer complexes: multitargeting via redox modulation. <b>2013</b> , 52, 12276-91	303
1918	CD133-targeted paclitaxel delivery inhibits local tumor recurrence in a mouse model of breast cancer. <b>2013</b> , 171, 280-7	132
1917	Antioxidant marine products in cancer chemoprevention. <b>2013</b> , 19, 115-38	36
1916	Deconvoluting the role of reactive oxygen species and autophagy in human diseases. <b>2013</b> , 65, 402-410	133
1915	The inclusion complex of 4-hydroxynonenal with a polymeric derivative of $\beta$ -cyclodextrin enhances the antitumoral efficacy of the aldehyde in several tumor cell lines and in a three-dimensional human melanoma model. <b>2013</b> , 65, 765-777	10
1914	Peroxiredoxin-3 is overexpressed in prostate cancer and promotes cancer cell survival by protecting cells from oxidative stress. <b>2013</b> , 109, 983-93	71
1913	Targeting tumour energy metabolism potentiates the cytotoxicity of 5-aminolevulinic acid photodynamic therapy. <b>2013</b> , 109, 976-82	36
1912	Gambogic acid sensitizes ovarian cancer cells to doxorubicin through ROS-mediated apoptosis. <b>2013</b> , 67, 199-206	40
1911	Apoptosis induced by benzyl isothiocyanate in gefitinib-resistant lung cancer cells is associated with Akt/MAPK pathways and generation of reactive oxygen species. <b>2013</b> , 66, 81-92	32
1910	Isoliquiritigenin enhances radiosensitivity of HepG2 cells via disturbance of redox status. <b>2013</b> , 65, 433-44	25
1909	Inhibition of GSH synthesis potentiates temozolomide-induced bystander effect in glioblastoma. <b>2013</b> , 331, 68-75	25

1908	A microfluidic systems biology approach for live single-cell mitochondrial ROS imaging. <b>2013</b> , 526, 219-30	6
1907	Effects of cigarette smoke extract on primary activated T cells. <b>2013</b> , 282, 38-43	29
1906	Aminoferrocene-based prodrugs and their effects on human normal and cancer cells as well as bacterial cells. <b>2013</b> , 56, 6935-44	78
1905	Electron transfer in proteins: theory, applications and future perspectives. <b>2013</b> , 15, 15271-85	27
1904	Linking vitamin B1 with cancer cell metabolism. <b>2013</b> , 1, 16	53
1903	Reactive oxygen species mediate Cr(VI)-induced carcinogenesis through PI3K/AKT-dependent activation of GSK-3 $\beta$ /catenin signaling. <b>2013</b> , 271, 239-48	33
1902	Tissue redox activity as a sensing platform for imaging of cancer based on nitroxide redox cycle. <b>2013</b> , 49, 1467-78	25
1901	Ruthenium-Arene-Carboline Complexes as Potent Inhibitors of Cyclin-Dependent Kinase 1: Synthesis, Characterization and Anticancer Mechanism Studies. <b>2013</b> , 19, 12152-60	57
1900	The synthesis, structural characterization and biological evaluation of N-(ferrocenylmethyl amino acid) fluorinated benzene-carboxamide derivatives as potential anticancer agents. <b>2013</b> , 27, 361-365	5
1899	Bisdemethoxycurcumin suppresses MCF-7 cells proliferation by inducing ROS accumulation and modulating senescence-related pathways. <b>2013</b> , 65, 700-9	47
1898	Cationic superparamagnetic nanoparticles for gene transfer and MR imaging. <b>2013</b> , 172, e98-e99	
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1896	Anti-colorectal cancer activity of macrostemonoside A mediated by reactive oxygen species. <b>2013</b> , 441, 825-30	17
1895	Chemotherapy modulates the biological activity of breast cancer patients plasma: the protective properties of black chokeberry extract. <b>2013</b> , 53, 126-32	10
1894	Fe-SOD cooperates with Nutlin3 to selectively inhibit cancer cells in vitro and in vivo. <b>2013</b> , 431, 169-75	4
1893	ROS inhibitor N-acetyl-L-cysteine antagonizes the activity of proteasome inhibitors. <b>2013</b> , 454, 201-8	188
1892	Infrared laser pulse triggers increased singlet oxygen production in tumour cells. <b>2013</b> , 3, 3484	36
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1890	Up-regulation of vitamin B1 homeostasis genes in breast cancer. <b>2013</b> , 24, 1616-24	22
1889	Ridaifen-SB8, a novel tamoxifen derivative, induces apoptosis via reactive oxygen species-dependent signaling pathway. <b>2013</b> , 86, 1272-84	11
1888	Iron-dependent cell death of hepatocellular carcinoma cells exposed to sorafenib. <b>2013</b> , 133, 1732-42	246
1887	Ortho-dihydroxychalcones as cupric ion-dependent prooxidants: activity and mechanisms. <b>2013</b> , 141, 1259-66	6
1886	A novel manganese complex, Mn(II) N-(2-hydroxy acetophenone) glycinate overcomes multidrug-resistance in cancer. <b>2013</b> , 49, 737-47	16
1885	ROS, autophagy, mitochondria and cancer: Ras, the hidden master?. <b>2013</b> , 13, 155-62	58
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1882	Development of a novel folic acid chitosan supported imidazole Schiff base for tumor targeted gene delivery system and drug therapy. <b>2013</b> , 172, e98	3
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1880	Tissue redox activity as a hallmark of carcinogenesis: from early to terminal stages of cancer. <b>2013</b> , 19, 2503-17	38
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1877	Synthesis of quinoidal molecules: strategies towards bioactive compounds with an emphasis on lapachones. <b>2013</b> , 69, 678-700	85
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1874	Alteration in apoptosis and cell cycle by celecoxib and/or fish oil in 7,12-dimethyl benzene (7,12-DMBA)-induced mammary carcinogenesis. <b>2013</b> , 34, 3753-64	9
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1854	The tumor microenvironment: characterization, redox considerations, and novel approaches for reactive oxygen species-targeted gene therapy. <b>2013</b> , 19, 854-95	79
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1847	Quantitative high-throughput efficacy profiling of approved oncology drugs in inflammatory breast cancer models of acquired drug resistance and re-sensitization. <b>2013</b> , 337, 77-89	22
1846	The copper chelator ATN-224 induces peroxynitrite-dependent cell death in hematological malignancies. <b>2013</b> , 60, 157-67	34
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1844	Activation of apoptotic pathway in normal, cancer ovarian cells by epothilone B. <b>2013</b> , 36, 600-610	12
1843	Oroxilin A sensitizes non-small cell lung cancer cells to anoikis via glucose-deprivation-like mechanisms: c-Src and hexokinase II. <b>2013</b> , 1830, 3835-45	27
1842	Loss of p53 in stromal fibroblasts promotes epithelial cell invasion through redox-mediated ICAM1 signal. <b>2013</b> , 58, 1-13	11
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1629	ROS and RNS induced apoptosis through p53 and iNOS mediated pathway by a dibasic hydroxamic acid molecule in leukemia cells. <b>2014</b> , 52, 146-64	17
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1616	The shape effect of mesoporous silica nanoparticles on intracellular reactive oxygen species in A375 cells. <b>2014</b> , 38, 4258	44
1615	An H <sub>2</sub> O <sub>2</sub> -responsive nanocarrier for dual-release of platinum anticancer drugs and controlled release and enhanced cytotoxicity against cisplatin resistant cancer cells. <b>2014</b> , 50, 9714-7	87
1614	An authentic imaging probe to track cell fate from beginning to end. <b>2014</b> , 5, 5216	19
1613	Bioactive dihydronaphthoquinone derivatives from <i>Fusarium solani</i> . <b>2014</b> , 77, 1992-6	24
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1611	Hydroxychavicol, a betel leaf component, inhibits prostate cancer through ROS-driven DNA damage and apoptosis. <b>2014</b> , 280, 86-96	48
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1608	Energy metabolism targeted drugs synergize with photodynamic therapy to potentiate breast cancer cell death. <b>2014</b> , 13, 1793-803	15
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1606	Oxidation-responsive polymers for biomedical applications. <b>2014</b> , 2, 3413-3426	135
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1595	Targeting bacterial central metabolism for drug development. <b>2014</b> , 21, 1423-32	99
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1458	Mitochondrial dysfunction rather than mtDNA sequence mutation is responsible for the multi-drug resistance of small cell lung cancer. <b>2015</b> , 34, 3238-46	12
1457	Downregulation of peroxiredoxin-1 by Eleemene enhances the radiosensitivity of lung adenocarcinoma xenografts. <b>2015</b> , 33, 1427-33	26
1456	CDK5RAP1 deficiency induces cell cycle arrest and apoptosis in human breast cancer cell line by the ROS/JNK signaling pathway. <b>2015</b> , 33, 1089-96	22
1455	Targeting mitochondrial complex I using BAY 87-2243 reduces melanoma tumor growth. <b>2015</b> , 3, 11	96
1454	Effect of formulation factors on the bioactivity of glucose oxidase encapsulated chitosan/alginate microspheres: In vitro investigation and mathematical model prediction. <b>2015</b> , 125, 4-12	12
1453	Polyethylenimine architecture-dependent metabolic imprints and perturbation of cellular redox homeostasis. <b>2015</b> , 1847, 328-342	26
1452	Adiponectin induces apoptosis in hepatocellular carcinoma through differential modulation of thioredoxin proteins. <b>2015</b> , 93, 221-31	27
1451	2-(Pro-1-ynyl)-5-(5,6-dihydroxypenta-1,3-dienyl) thiophene induces apoptosis through reactive oxygen species-mediated JNK activation in human colon cancer SW620 cells. <b>2015</b> , 298, 376-85	11
1450	Thioredoxin 1 upregulates FOXO1 transcriptional activity in drug resistance in ovarian cancer cells. <b>2015</b> , 1852, 395-405	27
1449	Thiol-based redox proteomics in cancer research. <b>2015</b> , 15, 287-99	16
1448	Knockout of mitochondrial thioredoxin reductase stabilizes prolyl hydroxylase 2 and inhibits tumor growth and tumor-derived angiogenesis. <b>2015</b> , 22, 938-50	39
1447	Selective killing of hepatocellular carcinoma HepG2 cells by three-dimensional nanographene nanoparticles based on triptycene. <b>2015</b> , 7, 5217-29	17
1446	Induction of an altered lipid phenotype by two cancer promoting treatments in rat liver. <b>2015</b> , 78, 96-104	15
1445	DNA mediated assembly of quantum dot-protoporphyrin IX FRET probes and the effect of FRET efficiency on ROS generation. <b>2015</b> , 17, 5973-81	9
1444	An $\alpha$ -acetoxy-tirucallic acid isomer inhibits Akt/mTOR signaling and induces oxidative stress in prostate cancer cells. <b>2015</b> , 352, 33-42	22
1443	Celastrol induces apoptosis and autophagy via the ROS/JNK signaling pathway in human osteosarcoma cells: an in vitro and in vivo study. <b>2015</b> , 6, e1604	188
1442	Copper-zinc superoxide dismutase-mediated redox regulation of bortezomib resistance in multiple myeloma. <b>2015</b> , 4, 23-33	35
1441	RETRACTED ARTICLE: Enhancement of doxorubicin efficacy through suppression of serine synthesis in triple-negative breast cancer. <b>2015</b> , 151, 477	

1440	Using hollow carbon nanospheres as a light-induced free radical generator to overcome chemotherapy resistance. <b>2015</b> , 137, 1947-55	164
1439	Synthesis of xanthohumol analogues and discovery of potent thioredoxin reductase inhibitor as potential anticancer agent. <b>2015</b> , 58, 1795-805	111
1438	Glutathione and thioredoxin antioxidant pathways synergize to drive cancer initiation and progression. <b>2015</b> , 27, 211-22	548
1437	Detection of cellular H <sub>2</sub> O <sub>2</sub> in living cells based on horseradish peroxidase at the interface of Au nanoparticles decorated graphene oxide. <b>2015</b> , 211, 17-24	41
1436	ROS and energy metabolism in cancer cells: alliance for fast growth. <b>2015</b> , 38, 338-45	62
1435	Overexpression of reactive oxygen species scavenger enzymes is associated with a good prognosis in triple-negative breast cancer. <b>2015</b> , 88, 9-17	10
1434	Understanding cancer development processes after HZE-particle exposure: roles of ROS, DNA damage repair and inflammation. <b>2015</b> , 183, 1-26	66
1433	Mitochondrial sirtuins and their relationships with metabolic disease and cancer. <b>2015</b> , 22, 1060-77	87
1432	Constitutive activation of epidermal growth factor receptor promotes tumorigenesis of Cr(VI)-transformed cells through decreased reactive oxygen species and apoptosis resistance development. <b>2015</b> , 290, 2213-24	36
1431	H <sub>2</sub> O <sub>2</sub> -activatable and O <sub>2</sub> -evolving nanoparticles for highly efficient and selective photodynamic therapy against hypoxic tumor cells. <b>2015</b> , 137, 1539-47	623
1430	The redox-active nanomaterial toolbox for cancer therapy. <b>2015</b> , 359, 9-19	43
1429	Role of 4-hydroxynonenal-protein adducts in human diseases. <b>2015</b> , 22, 1681-702	68
1428	LKB1 reduces ROS-mediated cell damage via activation of p38. <b>2015</b> , 34, 3848-59	29
1427	Synthesis and biological evaluation of novel 2-heteroarylimino-1,3-thiazolidin-4-ones as potential anti-tumor agents. <b>2015</b> , 94, 102-12	23
1426	Evaluation of respiration of mitochondria in cancer cells exposed to mitochondria-targeted agents. <b>2015</b> , 1265, 181-94	2
1425	Romo1 is associated with ROS production and cellular growth in human gliomas. <b>2015</b> , 121, 73-81	11
1424	Beyond Warburg effect--dual metabolic nature of cancer cells. <b>2014</b> , 4, 4927	116
1423	Interfacing materials science and biology for drug carrier design. <b>2015</b> , 27, 2278-97	141

1422	Responses of solid tumor cells in DMEM to reactive oxygen species generated by non-thermal plasma and chemically induced ROS systems. <b>2015</b> , 5, 8587	104
1421	Metabolic Regulation and Coordination of the Metabolism in Bacteria in Response to a Variety of Growth Conditions. <b>2016</b> , 155, 1-54	23
1420	Mitochondrially targeted vitamin E succinate modulates expression of mitochondrial DNA transcripts and mitochondrial biogenesis. <b>2015</b> , 22, 883-900	35
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1418	Signalling by Oxygen and Nitric Oxide. <b>2015</b> , 191-201	
1417	Silibinin combination with arsenic strongly inhibits survival and invasiveness of human prostate carcinoma cells. <b>2015</b> , 67, 647-58	17
1416	Synthesis of piperlongumine analogues and discovery of nuclear factor erythroid 2-related factor 2 (Nrf2) activators as potential neuroprotective agents. <b>2015</b> , 58, 5242-55	92
1415	Molecular mechanisms of pharmacological doses of ascorbate on cancer cells. <b>2015</b> , 165, 251-7	16
1414	The downregulation of thioredoxin accelerated Neuro2a cell apoptosis induced by advanced glycation end product via activating several pathways. <b>2015</b> , 87, 128-35	11
1413	Deregulation of NR2E3, an orphan nuclear receptor, by benzo(a)pyrene-induced oxidative stress is associated with histone modification status change of the estrogen receptor gene promoter. <b>2015</b> , 237, 228-36	10
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1411	Selective cancer-killing ability of metal-based nanoparticles: implications for cancer therapy. <b>2015</b> , 89, 1895-907	35
1410	Oxygen in human health from life to death--An approach to teaching redox biology and signaling to graduate and medical students. <b>2015</b> , 5, 124-139	21
1409	Regulation of catalase expression in healthy and cancerous cells. <b>2015</b> , 87, 84-97	144
1408	Mitochondrial targeted Elapachone induces mitochondrial dysfunction and catastrophic vacuolization in cancer cells. <b>2015</b> , 25, 4828-4833	21
1407	Reactive oxygen species and p21Waf1/Cip1 are both essential for p53-mediated senescence of head and neck cancer cells. <b>2015</b> , 6, e1678	57
1406	Photodynamic therapy (PDT) of cancer: from local to systemic treatment. <b>2015</b> , 14, 1765-80	272
1405	Acute Activation of Oxidative Pentose Phosphate Pathway as First-Line Response to Oxidative Stress in Human Skin Cells. <b>2015</b> , 59, 359-71	193

1404	Structure and Biophysical Characterization of the S-Adenosylmethionine-dependent O-Methyltransferase PaMTH1, a Putative Enzyme Accumulating during Senescence of <i>Podospora anserina</i> . <b>2015</b> , 290, 16415-30	13
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1402	Influence of reducing agents on the cytotoxic activity of platinum(IV) complexes: induction of G2/M arrest, apoptosis and oxidative stress in A2780 and cisplatin resistant A2780cis cell lines. <b>2015</b> , 7, 1078-90	31
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1398	Highly exposed Pt nanoparticles supported on porous graphene for electrochemical detection of hydrogen peroxide in living cells. <b>2015</b> , 74, 71-7	129
1397	Antioxidant inhibition of steady-state reactive oxygen species and cell growth in neuroblastoma. <b>2015</b> , 158, 827-36	5
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1388	Antiproliferative and Apoptosis Inducing Effects of Non-Polar Fractions from <i>Lawsonia inermis</i> L. in Cervical (HeLa) Cancer Cells. <b>2015</b> , 21, 249-60	12
1387	Reprint of "The mitochondrial permeability transition pore and its adaptive responses in tumor cells". <b>2015</b> , 58, 18-26	14

1386	Real-time monitoring of H <sub>2</sub> O <sub>2</sub> release from single cells using nanoporous gold microelectrodes decorated with platinum nanoparticles. <b>2015</b> , 140, 3753-8	35
1385	Intersections between mitochondrial sirtuin signaling and tumor cell metabolism. <b>2015</b> , 50, 242-55	14
1384	Identification of Novel ROS Inducers: Quinone Derivatives Tethered to Long Hydrocarbon Chains. <b>2015</b> , 58, 3739-50	25
1383	Oroxylin A inhibits glycolysis-dependent proliferation of human breast cancer via promoting SIRT3-mediated SOD2 transcription and HIF1 $\alpha$ destabilization. <b>2015</b> , 6, e1714	52
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1373	Exploiting replicative stress to treat cancer. <i>Nature Reviews Drug Discovery</i> , <b>2015</b> , 14, 405-23	64.1 188
1372	ent-Kaurane Diterpenoids from Chinese Liverworts and Their Antitumor Activities through Michael Addition As Detected in Situ by a Fluorescence Probe. <b>2015</b> , 58, 3944-56	54
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1370	Lactate dehydrogenase inhibitors sensitize lymphoma cells to cisplatin without enhancing the drug effects on immortalized normal lymphocytes. <b>2015</b> , 74, 95-102	25
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1368	In vivo selective imaging and inhibition of leukemia stem-like cells using the fluorescent carbocyanine derivative, DiOC5(3). <b>2015</b> , 52, 14-25	8
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1108	2-Methoxy-6-acetyl-7-methyljuglone (MAM), a natural naphthoquinone, induces NO-dependent apoptosis and necroptosis by H2O2-dependent JNK activation in cancer cells. <b>2016</b> , 92, 61-77	48
1107	Rapid and accurate tumor-target bio-imaging through specific in vivo biosynthesis of a fluorescent europium complex. <b>2016</b> , 4, 652-60	17
1106	Depletion of SAM50 Specifically Targets BCR-ABL-Expressing Leukemic Stem and Progenitor Cells by Interfering with Mitochondrial Functions. <b>2016</b> , 25, 427-37	6
1105	Opposing effects of TIGAR- and RAC1-derived ROS on Wnt-driven proliferation in the mouse intestine. <b>2016</b> , 30, 52-63	62
1104	Sensitization of acute lymphoblastic leukemia cells for LCL161-induced cell death by targeting redox homeostasis. <b>2016</b> , 105, 14-22	22
1103	NADPH Oxidase 1 Activity and ROS Generation Are Regulated by Grb2/Cbl-Mediated Proteasomal Degradation of NoxO1 in Colon Cancer Cells. <b>2016</b> , 76, 855-65	31
1102	Stimuli-responsive colorimetric and NIR fluorescence combination probe for selective reporting of cellular hydrogen peroxide. <b>2016</b> , 7, 2832-2841	78
1101	Transient generation of hydrogen peroxide is responsible for carcinostatic effects of hydrogen combined with platinum nanocolloid, together with increases intracellular ROS, DNA cleavages, and proportion of G2/M-phase. <b>2016</b> , 50, 385-95	8
1100	Damage to dopaminergic neurons is mediated by proliferating cell nuclear antigen through the p53 pathway under conditions of oxidative stress in a cell model of Parkinson's disease. <b>2016</b> , 37, 429-35	16
1099	Self-sufficing H2O2-responsive nanocarriers through tumor-specific H2O2 production for synergistic oxidation-chemotherapy. <b>2016</b> , 225, 64-74	78

1098	Mitochondrial electron transport chain identified as a novel molecular target of SPIO nanoparticles mediated cancer-specific cytotoxicity. <b>2016</b> , 83, 102-14	59
1097	Blocking c-Met-mediated PARP1 phosphorylation enhances anti-tumor effects of PARP inhibitors. <b>2016</b> , 22, 194-201	141
1096	Characterization of a c-Rel Inhibitor That Mediates Anticancer Properties in Hematologic Malignancies by Blocking NF- $\kappa$ B-Controlled Oxidative Stress Responses. <b>2016</b> , 76, 377-89	27
1095	Polymeric micellar nanoplatfoms for Fenton reaction as a new class of antibacterial agents. <b>2016</b> , 221, 37-47	40
1094	Hemagglutinin protease secreted by V. cholerae induced apoptosis in breast cancer cells by ROS mediated intrinsic pathway and regresses tumor growth in mice model. <b>2016</b> , 21, 143-54	15
1093	Synthesis of Eboswellic acid derivatives as cytotoxic and apoptotic agents. <b>2016</b> , 26, 76-81	19
1092	Peroxiredoxin II promotes hepatic tumorigenesis through cooperation with Ras/Forkhead box M1 signaling pathway. <b>2016</b> , 35, 3503-13	18
1091	Targeting Tyrosine Kinase Inhibitor-Resistant Non-Small Cell Lung Cancer by Inducing Epidermal Growth Factor Receptor Degradation via Methionine 790 Oxidation. <b>2016</b> , 24, 263-79	51
1090	Identification of gallic acid based glycoconjugates as a novel tubulin polymerization inhibitors. <b>2016</b> , 14, 1338-58	22
1089	Textile industrial effluent induces mutagenicity and oxidative DNA damage and exploits oxidative stress biomarkers in rats. <b>2016</b> , 41, 180-6	37
1088	Oxidative stress response in canine in vitro liver, kidney and intestinal models with seven potential dietary ingredients. <b>2016</b> , 241, 49-59	11
1087	Metabolism pathways in chronic lymphocytic leukemia. <b>2016</b> , 57, 758-65	32
1086	Renewable and Ultralong Nanoelectrochemical Sensor: Nanoskiving Fabrication and Application for Monitoring Cell Release. <b>2016</b> , 88, 1117-22	26
1085	Fluorescent gold nanoclusters for in vivo target imaging of Alzheimer's disease. <b>2016</b> , 6, 30081-30088	26
1084	Nitric oxide and reactive oxygen species: Clues to target oxidative damage repair defective breast cancers. <b>2016</b> , 101, 184-92	16
1083	TP53 mutation, mitochondria and cancer. <b>2016</b> , 38, 16-22	35
1082	The Cu/ligand stoichiometry effect on the coordination behavior of aroyl hydrazone with copper(II): Structure, anticancer activity and anticancer mechanism. <b>2016</b> , 24, 2190-8	28
1081	The EGF Receptor Promotes the Malignant Potential of Glioma by Regulating Amino Acid Transport System xc(-). <b>2016</b> , 76, 2954-63	54



1080	Mechanisms of growth inhibition of primary prostate epithelial cells following gamma irradiation or photodynamic therapy include senescence, necrosis, and autophagy, but not apoptosis. <b>2016</b> , 5, 61-73	15
1079	Role of Autophagy in Cancer Development via Mitochondrial Reactive Oxygen Species. <b>2016</b> , 215-229	1
1078	2-(3,4-Dimethoxybenzylidene)tetralone induces anti-breast cancer activity through microtubule stabilization and activation of reactive oxygen species. <b>2016</b> , 6, 33369-33379	13
1077	Eupalitin induces apoptosis in prostate carcinoma cells through ROS generation and increase of caspase-3 activity. <b>2016</b> , 40, 196-203	21
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1075	Dissecting the role of redox signaling in neuronal development. <b>2016</b> , 137, 506-17	43
1074	Piperlongumine as a direct TrxR1 inhibitor with suppressive activity against gastric cancer. <b>2016</b> , 375, 114-126	90
1073	Platinum anti-cancer drugs: Free radical mechanism of Pt-DNA adduct formation and anti-neoplastic effect. <b>2016</b> , 95, 216-29	35
1072	Sulfiredoxin inhibitor induces preferential death of cancer cells through reactive oxygen species-mediated mitochondrial damage. <b>2016</b> , 91, 264-74	31
1071	Cryptotanshinone inhibits proliferation and induces apoptosis via mitochondria-derived reactive oxygen species involving FOXO1 in estrogen receptor-negative breast cancer Bcap37 cells. <b>2016</b> , 6, 22232-22243	43
1070	Pristimerin inhibits proliferation, migration and invasion, and induces apoptosis in HCT-116 colorectal cancer cells. <b>2016</b> , 79, 112-9	27
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1063	Synergistic Application of Black Tea Extracts and Lactic Acid Bacteria in Protecting Human Colonocytes against Oxidative Damage. <b>2016</b> , 64, 2238-46	11

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1029	NAMPT suppresses glucose deprivation-induced oxidative stress by increasing NADPH levels in breast cancer. <b>2016</b> , 35, 3544-54	38
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1027	Therapeutic Uses of Atmospheric Pressure Plasma: Cancer and Wound. <b>2016</b> , 357-385	5

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1025	Biomedical Engineering: Frontier Research and Converging Technologies. <b>2016</b> ,	
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