

细胞脂质过氧化检测文献整理

Liperfluo										
序号	细胞种类	诱导剂	抑制剂	Liperfluo终浓度和培养时间	检测仪器	期刊名	出版年	影响因子	论文题目(含原文链接)	开放获取
1	B16细胞(小鼠黑色素瘤细胞); HT-1080(人纤维肉瘤细胞)	Erastin; RSL3; IFN $\gamma$	Ferrostatin-1; Lipoxstatin-1	10 $\mu$ M; 37°C 30 min or 1h	流式细胞仪	Nature	2019	42.778	<a href="#">CD8+ T cells regulate tumour ferroptosis during cancer immunotherapy</a>	N
2	-	-	-	37°C 15 min	流式细胞仪	Cell Metabolism	2021	21.567	<a href="#">Functional Genomics Identifies Metabolic Vulnerabilities in Pancreatic Cancer</a>	N
3	RAW 264.7(小鼠单核巨噬细胞白血病细胞)	RSL3	Ferrostatin-1; Lipoxstatin-1	-	流式细胞仪	Nano Today	2020	16.907	<a href="#">Nano-decocted ferrous polysulfide coordinates ferroptosis-like death in bacteria</a>	Y
4	HeLa(人宫颈癌细胞)	Erastin;RSL3	POR敲除;Lipoxstatin-1	1 $\mu$ M; 37°C 30 min	流式细胞仪	Molecular Cell	2021	15.584	<a href="#">Membrane Damage during Ferroptosis Is Caused by Oxidation of Phospholipids Catalyzed by the Oxidoreductases POR and Redox lipid reprogramming commands susceptibility of macrophages and microglia to ferroptotic death</a>	Y
5	RAW 264.7(小鼠单核巨噬细胞白血病细胞)	RSL3	Ferrostatin-1	10 $\mu$ M; 30 min	荧光显微镜	Nature Chemical Biology	2020	12.587	<a href="#">Oxidized arachidonic and adrenic PEs navigate cells to ferroptosis</a>	N
6	MEF(小鼠胚胎成纤维细胞)	RSL3	Lipoxstatin-1	10 $\mu$ M; 30 min	荧光显微镜	Nature Chemical Biology	2016	12.587	<a href="#">Neutrophil-induced ferroptosis promotes tumor necrosis in glioblastoma progression</a>	N
7	Brain slices from LN229 <sup>TAZi(45A)</sup> (人脑胶质瘤切片)	CD45-	-	10 $\mu$ M; 37°C 4 h	荧光显微镜	Nature Communications	2020	12.121	<a href="#">Pseudomonas aeruginosa utilizes host polyunsaturated phosphatidylethanolamines</a>	Y
8	HBE(人支气管上皮样细胞)	RSL3	Ferrostatin-1	10 $\mu$ M; 30 min	荧光显微镜	The Journal of Clinical Investigation	2018	11.864	<a href="#">Oxygenated phosphatidylethanolamine navigates phagocytosis of ferroptotic cells by triggered ferroptotic polymer micelles for reversing multidrug resistance to chemotherapy</a>	Y
9	HL-60(人骨髓细胞白血病细胞)	RSL3	-	10 $\mu$ M; 1 h	荧光显微镜	Cell Death and Differentiation	2020	10.717	<a href="#">PLA2G6 guards placental trophoblasts against ferroptotic injury</a>	Y
10	NCI-ADR/Res (NAR) 人卵巢腺癌细胞	RSL3; Arachidonic Acid	-	10 $\mu$ M; 30 min	荧光显微镜	Biomaterials	2019	10.317	<a href="#">Boosting the Ferroptotic Antitumor Efficacy via Site-Specific Amplification of Tailored Lipid Peroxidation</a>	N
11	BeWo(人胎盘绒毛膜癌细胞)	PLA2G6敲除; GPX4敲除	-	10 $\mu$ M; 37°C 30 min	荧光显微镜	Proceedings of the National Academy of Sciences of the United States of America	2020	9.412	<a href="#">SiO<sub>2</sub> and TiO<sub>2</sub> nanoparticles synergistically trigger macrophage inflammatory responses</a>	N
12	4T1细胞(小鼠乳腺癌细胞)	RSL3	-	10 $\mu$ M	荧光显微镜	ACS Applied Materials & Interfaces	2019	8.758	<a href="#">Induction of ferroptosis in response to graphene quantum dots through mitochondrial oxidative stress in microglia</a>	N
13	BMDM(小鼠骨髓来源的巨噬细胞)	SiO <sub>2</sub> & TiO <sub>2</sub> nanoparticles	-	20 $\mu$ M	流式细胞仪	Particle and Fibre Toxicology	2017	7.546	<a href="#">Osteocalcin triggers Fas/FasL-mediated necroptosis in adipocytes via activation of p300</a>	Y
14	BV2 Microglial(小鼠小胶质细胞)	GQDs(石墨烯量子点)	DFO; Lipoxstatin-1; Ferrostatin-1	10 $\mu$ M; 37°C 30 min	荧光显微镜	Particle and Fibre Toxicology	2020	7.546	<a href="#">Assessment of zero-valent iron-based nanotherapeutics for ferroptosis induction and resensitization strategy in cancer cells</a>	Y
15	3T3-L1 adipocytes(小鼠脂肪细胞)	GluOC(未羧基化的骨钙素)	-	-	荧光显微镜	Cell Death and Disease	2018	6.304	<a href="#">Blue light-induced oxidative stress in live skin</a>	N
16	OEC-M1(人口腔上皮细胞)	Erastin; RSL3; 零价铁(ZVI)纳米颗粒	Lipoxstatin, Ferrostatin-1,10-phenanthroline; DFO	10 $\mu$ M; 30 min	荧光显微镜	Biomaterials Science	2018	6.183	<a href="#">New aspects of 24(S)-hydroxycholesterol in modulating neuronal cell death</a>	N
17	Hacat(人永生角质形成细胞)	长波紫外线(UVA)照射	-	5 $\mu$ M in PBS; 37°C 30 min	荧光显微镜	Free Radical Biology and Medicine	2017	6.170	<a href="#">Mitochondrial dysfunction promotes aquaporin expression that controls hydrogen</a>	N
18	SH-SY5Y(人神经母细胞瘤细胞)	24S-OHC(人24s羟基胆固醇)	-	-	流式细胞仪	Free Radical Biology and Medicine	2015	6.170	<a href="#">Lipoxstatin-1 Protects Hair Cell-Like HEI-OC1 Cells and Cochlear Hair Cells against Murine T Cell Maturation Entails Protection from MBL2, but Complement Proteins Do Not Drive Clearance of Cells That Fail Maturation</a>	N
19	HeLa(人宫颈癌细胞); SAS(人舌鳞状细胞癌细胞)	过氧化氢	-	10 $\mu$ M; RT; 20 min	荧光显微镜/流式细胞仪	Free Radical Biology and Medicine	2020	6.170	<a href="#">Activation of p62-Keap1-Nrf2 Pathway Protects 6-Hydroxydopamine-Induced Ferroptosis in Dopaminergic Cells</a>	N
20	HEI-OC1(耳蜗毛细胞);鼠新生耳蜗毛细胞	RSL3	Lipoxstatin-1	5 $\mu$ M; 37°C 30 min	荧光显微镜	Oxidative Medicine and Cellular Longevity	2020	5.076	<a href="#">Inhibition of ferroptosis protects House Ear Institute-Organ of Corti 1 cells and cochlear hair cells from cisplatin-induced ototoxicity</a>	Y
21	Murine T cells(鼠T细胞)	NKAP-deficient(NF- $\kappa$ B激活蛋白缺乏)	Ferrostatin-1	10 $\mu$ M in HBSS; 37°C 30 min	流式细胞仪	The Journal of Immunology	2019	4.886		Y
22	SH-SY5Y(人神经母细胞瘤细胞)	6-OHDA	Ferrostatin-1	5 $\mu$ M; 37°C 30 min	荧光显微镜	Molecular Neurobiology	2020	4.500		Y
23	HEI-OC1(耳蜗毛细胞)	RSL3	DFO; Lipoxstatin-1; Ferrostatin-1	5 $\mu$ M; 37°C 30 min	荧光显微镜	Journal of Cellular and Molecular Medicine	2020	4.486		Y

24	B16-F10(小鼠皮肤黑色素瘤细胞)	Erastin	-	10 μM; 37°C 30 min	流式细胞仪	iScience	2020	4.447	<a href="#">Chemically Programmed Vaccines: Iron Catalysis in Nanoparticles Enhances Combination</a>	Y
25	PMVECs(肺微血管内皮细胞)	LPS(脂多糖)	Prdx6-D140A-knock-in mice	10 μM; 30 min	荧光显微镜	Lung Cellular and Molecular Physiology	2019	4.406	<a href="#">Genetic inactivation of the phospholipase A2 activity of peroxiredoxin 6 in mice protects against LPS-induced acute lung injury</a>	Y
26	HepG2(人肝癌细胞)	AAPH(2,2'-偶氮二异丁基脒二盐酸盐)	-	10 μM; 30 min	荧光显微镜	Journal of Agricultural and Food Chemistry	2019	4.192	<a href="#">Novel Fluorescence-Based Method To Characterize the Antioxidative Effects of Food Metabolites on Lipid Droplets in Cultured</a>	N
27	HeLa(人宫颈癌细胞)	BFA, Erastin	Ferrostatin-1; Liproxstatin-1	5 μM	荧光显微镜	Communications Biology	2018	4.165	<a href="#">Golgi stress mediates redox imbalance and ferroptosis in human cells</a>	Y
28	THP-1(人髓系白血病单核细胞)(1 × 10 <sup>5</sup> cells/mL)	AAPH(2,2'-偶氮二异丁基脒二盐酸盐)	H <sub>2</sub> gas(氢气)	5 μM; 30 min	流式细胞仪	Scientific Reports	2016	3.998	<a href="#">Molecular hydrogen regulates gene expression by modifying the free radical chain reaction-dependent generation of</a>	Y
29	-	-	H <sub>2</sub> gas(氢气)	-	-	Life Sciences	2021	3.657	<a href="#">Hydrogen influences HDL-associated enzymes and reduces oxidized phospholipids levels in rats fed with a high-fat diet</a>	N
30	4T1细胞(小鼠乳腺癌细胞); HT1080(人纤维肉瘤细胞)	WO <sub>3</sub> /Pt nanoparticles	-	20 μM; 37°C 30 min	荧光显微镜	Nanotechnology	2016	3.551	<a href="#">WO<sub>3</sub>/Pt nanoparticles promote light-induced lipid peroxidation and lysosomal instability within tumor cells</a>	N
31	SH-SY5Y(人神经母细胞瘤细胞)	AAPH(2,2'-偶氮二异丁基脒二盐酸盐)	-	20 μM; 37°C 15 min	荧光显微镜/流式细胞仪	RSC Advances	2012	3.119	<a href="#">A novel fluorescent probe with high sensitivity and selective detection of lipid hydroperoxides in cells</a>	N
32	Burkitt's Lymphoma(Burkitt淋巴瘤细胞)	Artesunate(青蒿琥酯); Erastin	DFO; Liproxstatin-1; Ferrostatin-1	5 μM in PBS; 37°C 30 min	流式细胞仪	Biochemical and Biophysical Research Communications	2019	2.985	<a href="#">Artesunate activates the ATF4-CHOP-CHAC1 pathway and affects ferroptosis in Burkitt's Lymphoma</a>	N
33	THP-1(人髓系白血病单核细胞)	TBHB(叔丁基过氧化氢)	H <sub>2</sub> gas(氢气)	5 μM; 30 min	流式细胞仪	Canadian Journal of Physiology and Pharmacology	2019	1.946	<a href="#">Molecular hydrogen suppresses free radical-induced cell death by mitigating fatty acid peroxidation and mitochondrial dysfunction</a>	N
34	Horse breed stallions(种马精子)	UV light; Fe	-	1 μM; 37°C 30 min	流式细胞仪	Animal Reproduction Science	2019	1.660	<a href="#">Effects of media and promoters on different lipid peroxidation assays in stallion sperm</a>	N
35	Human hair(人头发)	UV radiation	-	-	荧光显微镜	Cosmetics	2018	-	<a href="#">Mechanism of Cuticle Hole Development in Human Hair Due to UV-Radiation Exposure</a>	Y