

**Supplementary table 2.** Ferroptosis-inhibitors/suppressors.

| Associated disease/condition                         | miRNA         | Target        | Effect in ferroptosis-mechanisms   | Reference |
|--|---------------|---------------|--|-----------|
| Acute myeloid leukemia                               | miR-let-7b-5p | P53           | Decreases lipid ROS  | (1)       |
| Cervical cancer                                      | miR-4291      | ACSL4         | Increases GSH. Decreases MDA, ROS  | (2)       |
| Colorectal cancer                                    | miR-19a       | IREB2         | Decreases ROS. Probably decreases iron accumulation                          | (3)       |
| Colorectal cancer                                    | miR-545       | TF            | Decreases MDA, ROS, and Fe2+   | (4)       |
| Esophageal cancer                                    | miR-27a-3p    | TNPO1         | Increases GPX4   | (5)       |
| Esophageal cancer                                    | miR-372-3p    | ADAM23        | Decreases ROS and lipid peroxidation   | (6)       |
| Gastric Cancer                                       | miR-522       | ALOX15        | Decreases lipid ROS accumulation   | (7)       |
| Glioblastoma   | miR-18a       | ALOXE3        | Decreases lipid peroxides  | (8)       |
| Glioblastoma   | miR-670-3p    | ACSL4         | Decreases lipid peroxidation   | (9)       |
| Head and neck cancer                                 | miR-200       | SIRT1, ZEB1   | Decreases lipid peroxidation, ROS, total iron and Fe2+                       | (10)      |
| Hepatocellular carcinoma                             | mir-23a-3p    | ACSL4         | Decreases lipid peroxidation   | (11)      |
| Hepatocellular carcinoma                             | miR-362-3p    | MIOX          | Decreases MDA, lipid ROS, and Fe2+   | (12)      |
| Lung adenocarcinoma                                  | miR-17-5p     | HOXA7         | Probably decreases ferroptosis   | (13)      |
| Lung adenocarcinoma                                  | miR-6077      | CDKN1A, KEAP1 | Increases NRF2, SLC7A11, NQ01 expression. Decreases lipid peroxidation       | (14)      |
| Lung cancer  | miR-19b-3p    | FTH1          | Increases Fe2+   | (15)      |
| Lung cancer  | miR-27a-3p    | SLC7A11       | Decreases MDA, and Fe2+  | (16)      |
| Lung cancer  | miR-367-3p    | TFRC          |  | (17)      |
| Lung carcinoma                                       | miR-4443      | METTL3        | Decreases ROS and Fe2+   | (18)      |
| Melanoma   | miR-9         | GOT1          | Decreases lipid ROS. Inhibits glutaminolysis process                         | (19)      |
| Melanoma   | miR-130b-3p   | DKK1          | Decreases lipid peroxidation and Fe2+ due to activation of NRF2/HO-1 pathway | (20)      |
| Melanoma   | miR-137       | SLC1A5        | Decreases of glutamine uptake, iron, MDA, lipid peroxidation                 | (21)      |
| Ovarian cancer                                       | miR-424-5p    | ACSL4         | Decreases lipid peroxidation   | (22)      |
| Radioresistant cervical cancer                       | miR-7-5p      | ALOX12        | Decreases Fe2+, ROS, lipid peroxidation                                      | (23)      |
| Radioresistant cervical/oral squamous cell carcinoma | miR-7-5p      | SLC25A37      | Decreases intracellular Fe2+, mitochondrial Fe2+, ROS                        | (24)      |
| Acute cerebral infarction                            | miR-3098-3p   | ACSL4         | Decreases Fe2+, MDA, TFR1. Increases GPX4, GSH                               | (25)      |
| Acute ischemic stroke                                | miR-214       | TP53, TFR1    | Decreases p53 levels increases SLC7A11 levels. Through TFR1 decreases iron   | (26)      |
| Acute liver injury                                   | miR-15a       | ALOX12        | Decreases lipid peroxidation probably through GPX4 axis                      | (27)      |
| Congenital heart disease                             | miR-193a-3p   | TGF-β2        | Decreases lipid ROS, MDA, Fe2+   | (28)      |
| Diabetic retinopathy                                 | miR-7-5p      | ACSL4         | Decreases ACSL4 expression   | (29)      |
| Diabetic retinopathy                                 | miR-200b-3p   | CFL2          | Increases GSH, decreases MDA and iron  | (30)      |
| Doxorubicin-induced cardiac injury                   | miR-7-5p      | TFRC          | Decreases iron import and ROS generation                                     | (31)      |
| Exposure to benzene                                  | miR-142-5p    | CUL4B         | Increases expression of GPX4   | (32)      |
| Ferroptosis in endothelial cells                     | miR-30e-5p    | SP1           | Increases GSH. Decreases lipid ROS, MDA, iron                                | (33)      |
| Hypoxia  | miR-6862-5p   | NCOA4         | Decreases NCOA4. Increases FTMT promoting iron store                         | (34)      |
| Intervertebral disc degeneration                     | miR-10a-5p    | IL-6R         | Decreases ROS and iron promoting GPX4 and ferroportin-1                      | (35)      |
| Intervertebral disc degeneration                     | miR-874-3p    | ATF3          | Decreases ROS  | (36)      |
| Intracerebral hemorrhage                             | miR-106b-5p   | ACSL4         | Decreases iron, MDA, lipid peroxidation. Increased GSH                       | (37)      |
| Ischemia diseases                                    | miR-17-92     | A20, ACSL4    | Decreases lipid peroxidation   | (38)      |
| Ischemic stroke, hemorrhagic stroke                  | miR-137       | COX2          | Decreases ROS, increases GPX4 and GSH  | (39)      |

|   |             |         |   |      |
|---|-------------|---------|---|------|
| Liver fibrosis  | miR-222     | TFRC    | Decreases TFRC receptor, iron, ROS                          | (36) |
| Parkinson's disease   | miR-150-5p  | BAP1    | Decreases ROS, MDA and Fe <sup>2+</sup>                     | (40) |
| Periodontitis   | miR-370     | TFRC    | Decreases TFRC expression                                   | (41) |
| Preeclampsia  | miR-2115-3p | GOT1    | Increases expression of GPX4 and SCL7A11                    | (42) |
| Pulmonary fibrosis  | miR-150-5p  | SLC38A1 | Increases GPX4 expression. Decreases MDA, lipid peroxidatin | (43) |
| Vascular adventitial fibroblasts in cardiovascular remodeling | miR-124     | SERTAD4 | Decreases ROS, MDA and Fe <sup>2+</sup>                     | (44) |

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| Associated disease/condition    | miRNA                           | Target       | Effect in ferroptosis-mechanisms   | Reference |
|---------------------------------|---------------------------------|--------------|--|-----------|
| Acute lymphoblastic leukemia    | miR-494-3p                      | NET1         | Promoted Erastin-induced elevation of iron concentration and lipid ROS                   | (1)       |
| Bladder cancer                  | miR-129-5p                      | PROM2        | Probably restores normal iron metabolism promoting ferroptosis in cancer cells           | (2)       |
| Breast cancer                   | miR-106a-5p                     | STAT3        | Increases the levels of ROS, total iron and Fe2+   | (3)       |
| Breast cancer                   | miR-5096                        | SLC7A11      | Increases iron, ROS, lipid ROS. Decreases GSH and mitochondrial membrane potential       | (4)       |
| Breast cancer                   | miR-324-3p                      | GPX4         | Increases Fe2+, lipid ROS, lipid peroxidation  | (5)       |
| Breast cancer                   | miR-410-3p                      | EMC2         | Probably increases ferroptosis   | (6)       |
| Breast cancer                   | miR-1228                        | AIFM2        | Decreases GSH/GSSG ratio and GPX4  | (7)       |
| Cervical cancer                 | miR-375, miR-409-3p, miR-515-5p | SLC7A11      | Inhibition of system xc-. Increases lipid peroxidation                                   | (8)       |
| Cervical cancer                 | miR-193a-5p                     | GPX4         | Decreases GPX4 expression. Increases lipid ROS, iron, Fe2+                               | (9)       |
| Cervical cancer                 | miR-506-3p                      | CD164        | Increases lipid ROS, MDA and iron and decreases GSH                                      | (10)      |
| Colon cancer                    | miR-28-5p                       | N4BP1        | Decreases GSH and GPX, increases MDA and iron  | (11)      |
| Colon cancer                    | miR-423-5p                      | SCD1         | Increases lipid ROS  | (12)      |
| Colorectal cancer               | miR-874-3p                      | GDPD5        | Increases RSL3-induced ferroptosis, iron, Fe2+, MDA, lipid ROS                           | (13)      |
| Colorectal cancer               | miR-539                         | TIPE         | Decreases GPX4. Increases ROS and lipid ROS  | (14)      |
| Colorectal cancer               | miR-15a-3p                      | GPX4         | Increases ROS, Fe2+, MDA   | (15)      |
| Esophageal cancer               | miR-30a-5p                      | FZD3         | Increases ROS, MDA, iron. Decreases GPX4 and SLC7A11                                     | (16)      |
| Esophageal squamous cell cancer | miR-513a-3p                     | SLC7A11      | Increases ROS  | (17)      |
| Gastric cancer                  | miR-375                         | SLC7A11      | Increases lipid peroxidation   | (18)      |
| Gastric cancer                  | miR-375                         | SLC7A11      | Increases lipid peroxidation and Fe2+  | (19)      |
| Gastric cancer                  | miR-489-3p                      | SLC7A11      | Increases lipid peroxidation and Fe2+  | (20)      |
| Gastrointestinal cancer         | miR-4715-3p                     | AURKA        | Decreases GPX4   | (21)      |
| Glioblastoma                    | miR-27a-3p                      | FANCD2, CD44 | Increases iron and lipid ROS   | (22)      |
| Glioblastoma                    | miR-147a                        | SLC40A1      | Increases iron overload and lipid peroxidation   | (23)      |
| Glioma                          | miR-761                         | ITGB8        | Increases Fe2+, lipid ROS  | (24)      |
| Glioma                          | miR-3938                        | PDGFRA       | Increases Fe2+, ROS  | (25)      |
| Glioma                          | miR-29b                         | GPX7         | Increases lipid peroxidation. Decreases system xc- activity, and GSH synthesis           | (26)      |
| Hemangioma                      | miR-497-5p                      | NOTCH2       | Increases MDA  | (27)      |
| Hepatocellular carcinoma        | miR-541-3p                      | GPX4         | Increases Fe2+, lipid ROS, MDA, lipid peroxidation                                       | (28)      |
| Hepatocellular carcinoma        | miR-1261                        | SLC7A11      | Inhibits of system Xc- and decreases GPX4 activity                                       | (29)      |
| Hepatocellular carcinoma        | miR-3200-5p                     | ATF4         | Increases ROS, Fe2+. Decreases GPX4  | (30)      |
| Hepatocellular carcinoma        | miR-142-3p                      | SLC3A2       | Increases MDA and Fe2+. Decreases GSH  | (31)      |
| Liver cancer                    | miR-214-3p                      | ATF4         | Increases MDA, ROS, iron, Fe2+, erastin-induced ferroptosis. Decreases GSH               | (32)      |
| Liver cancer                    | miR-214-3p                      | GPX4         | Increases Fe2+, lipid ROS, MDA, lipid peroxidation                                       | (33)      |
| Liver cancer                    | miR-142-3p                      | SLC3A2       | Decreases GSH, FTH1, GPX4, ATF4, system Xc- activity. Increases TfR1, lipid peroxidation | (34)      |
| Lung adenocarcinoma             | miR-324-3p                      | GPX4         | Increases ROS, MDA. Decreases GSH  | (35)      |
| Lung adenocarcinoma             | miR-101-3p                      | CISD1        | Probably increases ferroptosis   | (36)      |

|  |              |               |  |      |
|--|--------------|---------------|--|------|
| Endometriosis                          | miR-145-5p   | MUC1          | Increases Fe2+, lipid peroxidation and erastin-induced ferroptosis | (70) |
| Endometriosis                          | miR-6516-5p  | GPX4          | Decreases expression of GPX4                                       | (71) |
| High glucose-induced ferroptosis       | miR-138-5p   | SIRT1/NRF2    | Increases ROS and lipid peroxidation.<br>Decreases GPX4            | (72) |
| Intervertebral Disc Degeneration       | miR-665      | GPX4          | Increases ROS, lipid peroxidation and iron                         | (73) |
| Intracerebral hemorrhage               | miR-124      | FPN           | Increases iron accumulation  | (74) |
| Myocardial ischemia-reperfusion injury | miR-143-3p   | SLC7A11       | Increases ROS, MDA and iron  | (75) |
| Nerve injury caused by lead exposure   | miR-378a-3p  | SLC7A11       | Increases Fe2+, MDA, ROS. Decreases GSH                            | (76) |
| Preeclampsia                           | miR-30-5p    | SLC7A11, PAX3 | Decreases FPN1, GSH, GPX activity.<br>Increases Fe2+, MDA          | (77) |
| Renal ischemia-reperfusion             | miR-3587     | HMOX1         | Decreases HO-1, and GPX4 expression.<br>Increases MDA and Fe2+     | (78) |
| Sepsis-associated acute renal injury   | miR-124-3p.1 | LPCAT3        | Probably through increase of lipid peroxidation                    | (79) |

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