Figure Captions

Figure S1 Network pharmacology Diagram of Cyanidin-*3*-*O*-glucoside.(A) Related targets of cyanidin-*3*-*O*-glucoside, the green circular and red polygons respectively represented cyanidin-*3*-*O*-glucoside -targeted genes and cyanidin-*3*-*O*-glucoside. (B) Venn map of cyanidin-*3*-*O*-glucoside target and ALD target.

Table S1. Shared target information of cyanidin-*3*-*O*-glucoside.

Figure S2. PPI network of the intersection target of cyanidin-*3*-*O*-glucoside for ALD.

Figure S3. Histogram of Go analysis of cyanidin-3-O-glucoside (A) The enriched terms in biological process (BP); (B) The enriched terms in cellular component (CC); (C) The enriched terms in molecular function (MF).

Figure S4 KEGG pathway diagram of cyanidin-*3*-*O*-glucoside.

Figure S5. "Component-target-pathway-disease" network diagram.

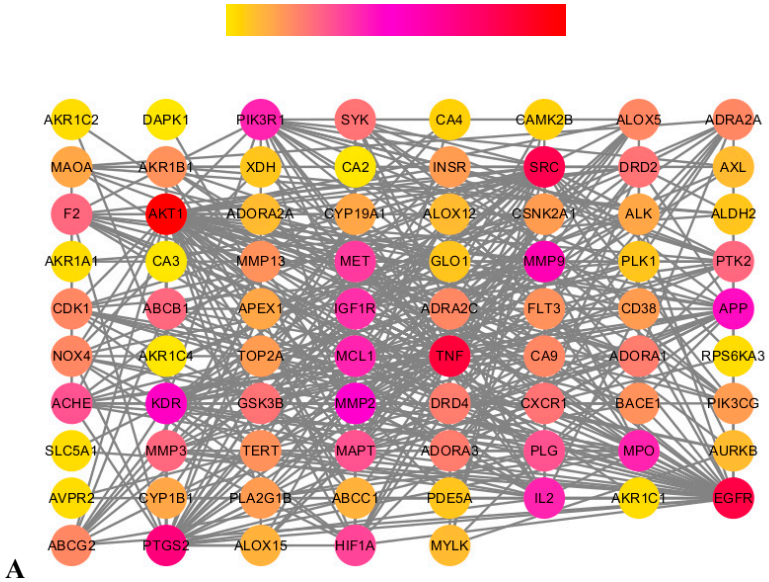


Figure S1. Network pharmacology Diagram of Cyanidin-*3*-*O*-glucoside.(A) Related targets of cyanidin-*3*-*O*-glucoside, the green circular and red polygons respectively represented cyanidin-*3*-*O*-glucoside -targeted genes and cyanidin-*3*-*O*-glucoside. (B) Venn map of cyanidin-*3*-*O*-glucoside target and ALD target.

Table S1. Shared target information of cyanidin-3-O-glucoside

No	Target	Symbol	No	Target	Symbol
1	Lymphocyte differentiation antigen CD38	CD38	42	DNA topoisomerase II alpha	TOP2A
2	NADPH oxidase 4	NOX4	43	Monoamine oxidase A	MAOA
3	Aldose reductase	AKR1B1	44	Insulin-like growth factor I receptor	IGF1R
4	Adrenergic receptor alpha-2	ADRA2C	45	Tyrosine-protein kinase receptor FLT3	FLT3
5	Carbonic anhydrase II	CA2	46	Cytochrome P450 19A1	CYP19A1
6	Carbonic anhydrase IV	CA4	47	Insulin receptor	INSR
7	Acetylcholinesterase	ACHE	48	Serine/threonine-protein kinase Aurora-B	AURKB
8	Alpha-2a adrenergic receptor	ADRA2A	49	Dopamine D4 receptor	DRD4
9	Ribosomal protein S6 kinase alpha 3	RPS6KA3	50	Myosin light chain kinase, smooth muscle	MYLK
10	Cyclooxygenase-2	PTGS2	51	Myeloperoxidase	MPO
11	Xanthine dehydrogenase	XDH	52	PI3-kinase p85-alpha subunit	PIK3R1
12	Phosphodiesterase 5A	PDE5A	53	Death-associated protein kinase 1	DAPK1
13	TNF-alpha	TNF	54	Liver glycogen phosphorylase	PYGL
14	Interleukin-2	IL2	55	Tyrosine-protein kinase SYK	SYK
15	Adenosine A1 receptor (by homology)	ADORA1	56	Glycogen synthase kinase-3 beta	GSK3B
16	Arachidonate 5-lipoxygenase	ALOX5	57	Focal adhesion kinase 1	PTK2
17	Carbonic anhydrase I	CA1	58	Vascular endothelial growth factor receptor 2	KDR
18	Carbonic anhydrase IX	CA9	59	Matrix metalloproteinase 13	MMP13
19	Aldehyde dehydrogenase	ALDH2	60	Matrix metalloproteinase 3	MMP3
20	Telomerase reverse transcriptase	TERT	61	Carbonic anhydrase III	CA3
21	Plasminogen	PLG	62	Arachidonate 15-lipoxygenase	ALOX15
22	ATP-binding cassette sub-family G member 2	ABCG2	63	Serine/threonine-protein kinase PLK1	PLK1
23	Adenosine A3 receptor	ADORA3	64	Cyclin-dependent kinase 1	CDK1
24	Thrombin	F2	65	Matrix metalloproteinase 9	MMP9
25	Glyoxalase I	GLO1	66	PI3-kinase p110-gamma subunit	PIK3CG
26	LXR-alpha	NR1H3	67	Matrix metalloproteinase 2	MMP2
27	Beta amyloid A4 protein	APP	68	Casein kinase II alpha	CSNK2A1
28	Tyrosine-protein kinase SRC	SRC	69	Arachidonate 12-lipoxygenase	ALOX12
29	Cytochrome P450 1B1	CYP1B1	70	Hepatocyte growth factor receptor	MET
30	Sodium/glucose cotransporter 2	SLC5A2	71	Interleukin-8 receptor A	CXCR1
31	Induced myeloid leukemia cell differentiation protein Mcl-1	MCL1	72	CaM kinase II beta	CAMK2B
32	Sodium/glucose cotransporter 1	SLC5A1	73	ALK tyrosine kinase receptor	ALK

33	Hypoxia-inducible factor 1 alpha	HIF1A	74	Serine/threonine-protein kinase AKT	AKT1
34	Multidrug resistance-associated protein 1	ABCC1	75	Phospholipase A2 group 1B	PLA2G1B
35	P-glycoprotein 1 (by homology)	ABCB1	76	Beta-secretase 1	BACE1
36	Sigma opioid receptor	SIGMAR1	77	Tyrosine-protein kinase receptor UFO	AXL
37	Dopamine D2 receptor (by homology)	DRD2	78	DNA-(apurinic or apyrimidinic site) lyase	APEX1
38	Epidermal growth factor receptor erbB1	EGFR	79	Aldo-keto reductase family 1 member C2 (by homology)	AKR1C2
39	Adenosine A2a receptor (by homology)	ADORA2A	80	Aldo-keto reductase family 1 member C1 (by homology)	AKR1C1
40	Microtubule-associated protein tau	MAPT	81	Aldo-keto reductase family 1 member C4 (by homology)	AKR1C4
41	Vasopressin V2 receptor	AVPR2	82	Aldehyde reductase (by homology)	AKR1A1

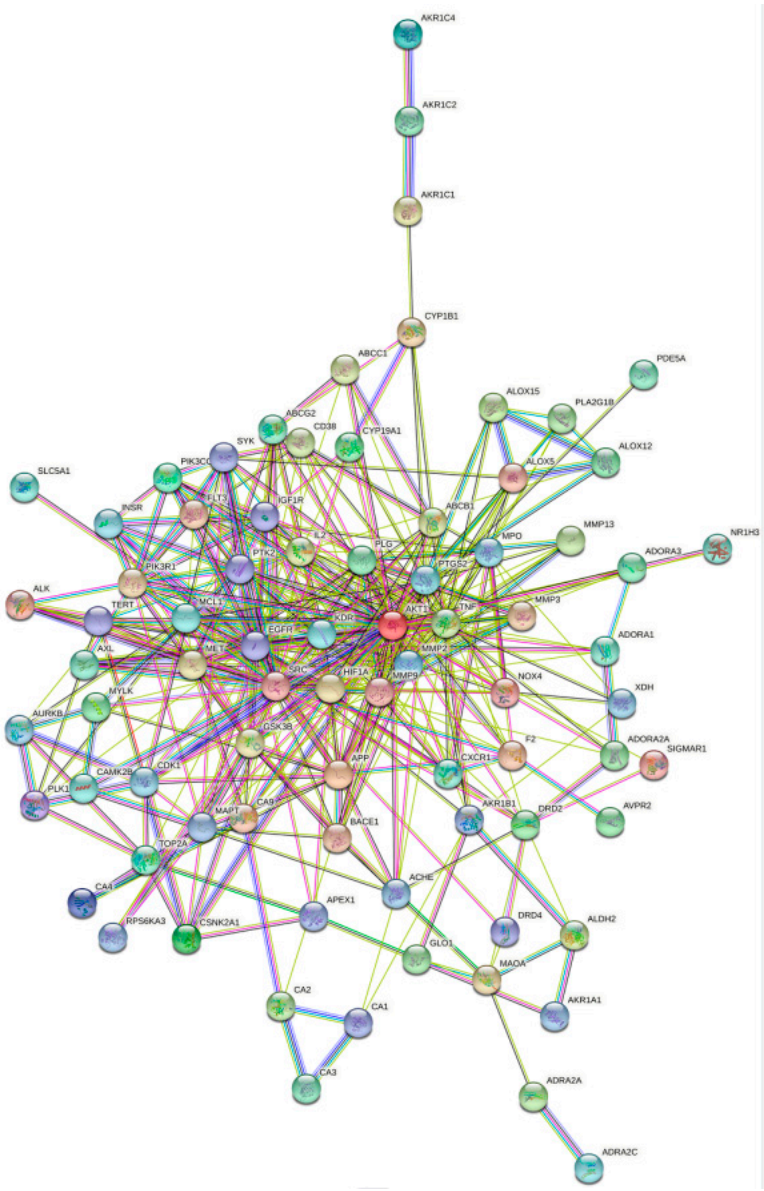
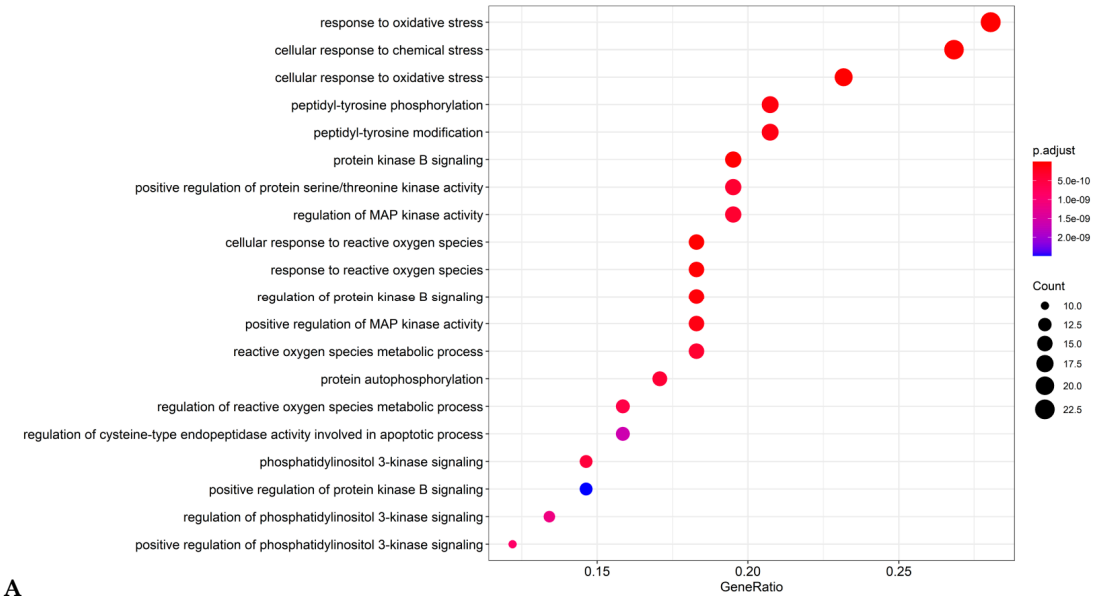


Figure S2. PPI network of the intersection target of cyanidin-*3*-*O*-glucoside for ALD.


response to oxidative stress
cellular response to chemical stress
cellular response to oxidative stress
peptidyl-tyrosine phosphorylation
peptidyl-tyrosine modification
protein kinase B signaling
positive regulation of protein serine/threonine kinase activity
regulation of MAP kinase activity
cellular response to reactive oxygen species
response to reactive oxygen species
regulation of protein kinase B signaling
positive regulation of MAP kinase activity
reactive oxygen species metabolic process
protein autophosphorylation
regulation of reactive oxygen species metabolic process
regulation of cysteine-type endopeptidase activity involved in apoptotic process
phosphatidylinositol 3-kinase signaling
positive regulation of protein kinase B signaling
regulation of phosphatidylinositol 3-kinase signaling
positive regulation of phosphatidylinositol 3-kinase signaling
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0.20
0.25
GeneRatio
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2.0e-09
Count
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15.0
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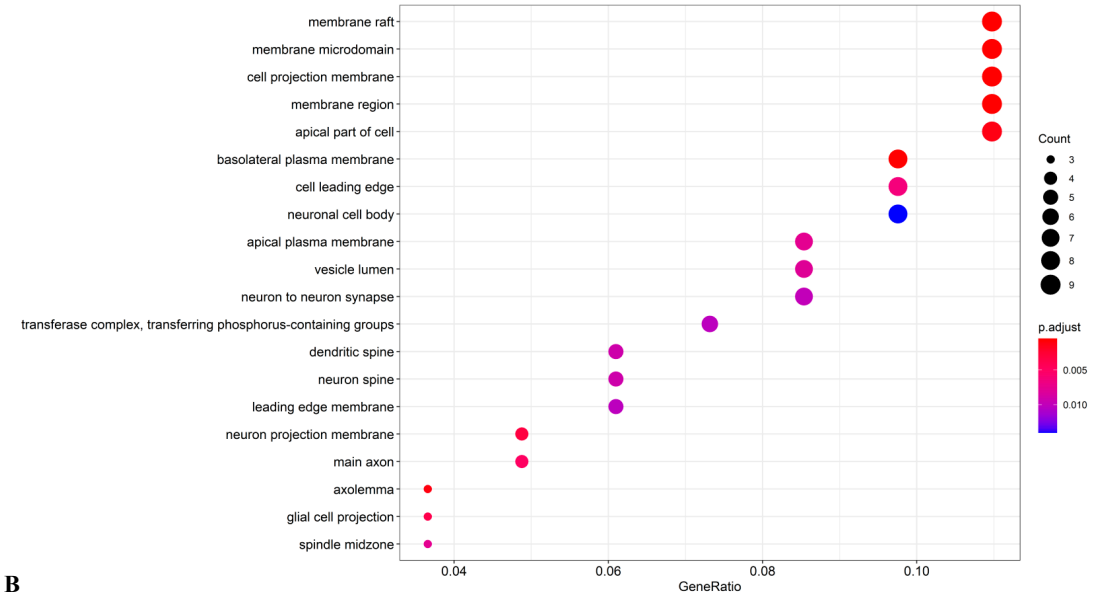
20.0
22.5

A


membrane raft
membrane microdomain
cell projection membrane
membrane region
apical part of cell
basolateral plasma membrane
cell leading edge
neuronal cell body
apical plasma membrane
vesicle lumen
neuron to neuron synapse
transferase complex, transferring phosphorus-containing groups
dendritic spine
neuron spine
leading edge membrane
neuron projection membrane
main axon
axolemma
glial cell projection
spindle midzone
0.04
0.06
0.08
0.10
GeneRatio
Count
3
4
5
6
7
8
9
p.adjust
0.005
0.010

B

C

Figure S3. Histogram of Go analysis of cyanidin-*3*-*O*-glucoside (A) The enriched terms in biological process (BP); (B) The enriched terms in cellular component (CC); (C) The enriched terms in molecular function (MF).

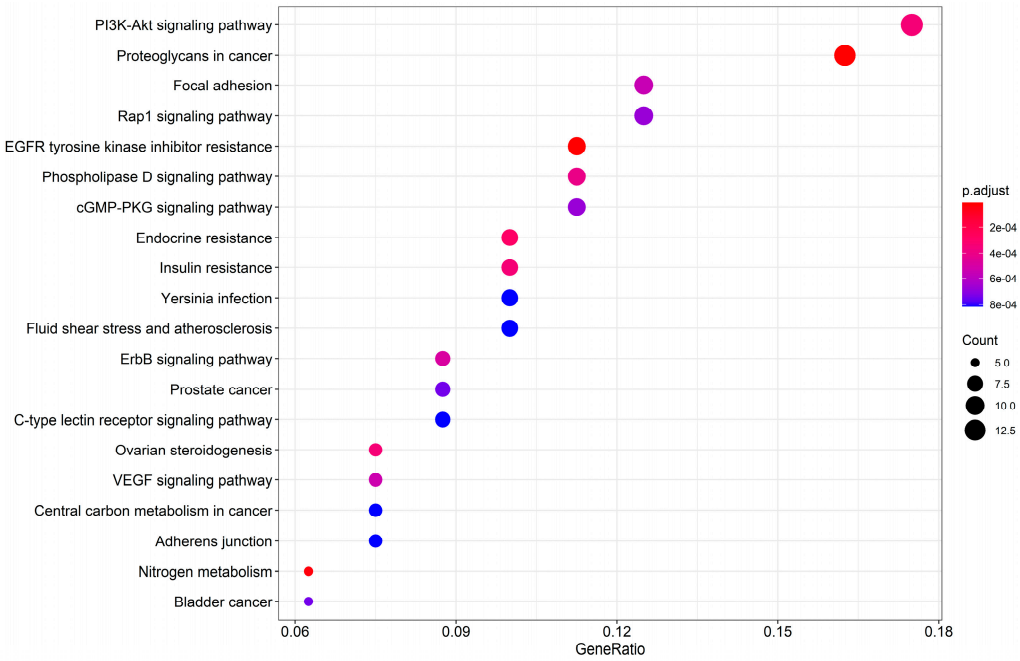
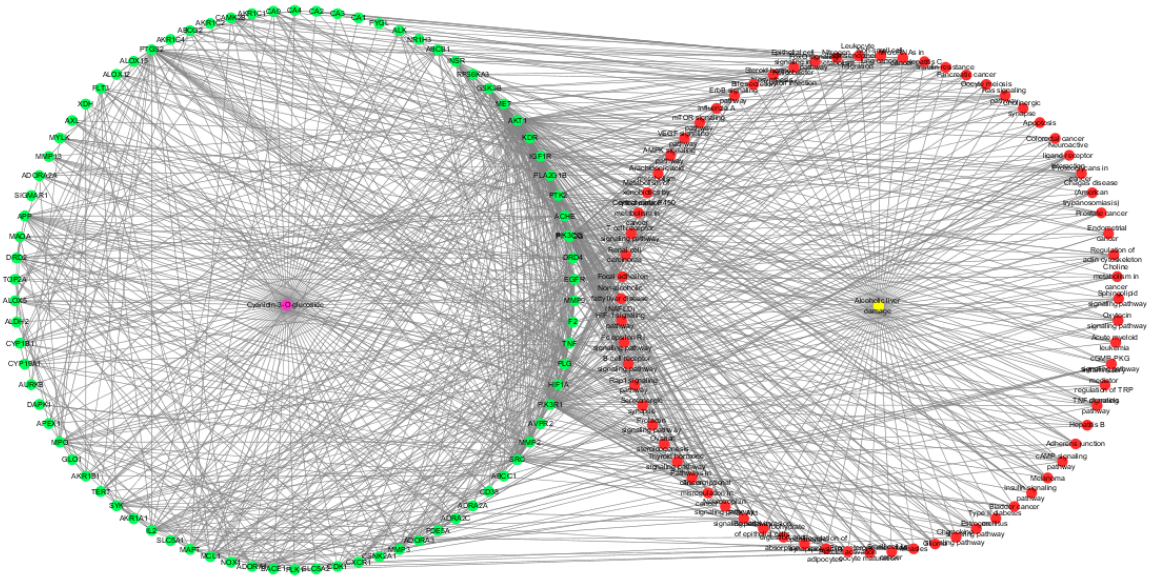


Figure S4 KEGG pathway diagram of cyanidin-*3*-*O*-glucoside.



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