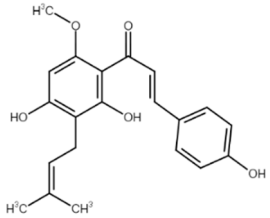
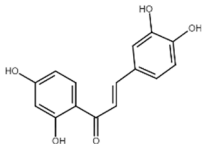


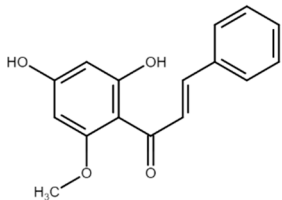
Table S1. Antiproliferative and anticancer effects of xanthohumol and butein based on *in vitro/in vivo* studies.

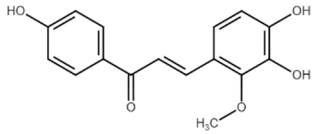
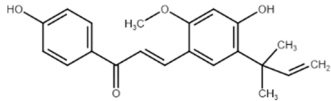
| Chalcones | Type of cancer | Mechanism of action/target or/and downstream effector | References |
|---|----------------|---|-------------------------|
|  | Breast | In vitro: inhibition of proliferation, migration, colony and sphere formation ↓ mitochondrial function, ↓ ROS production, ↑ population of sub G0/G1 cells, induction of apoptosis, ↓ expression of Bcl-2, MMP-9, MDR1, EGFR, STAT3, ↑ expression of DR4 and DR5, sensitization of MCF-7/ADR cells, PI3K, HER2 and Ser/Thr kinase receptors binding activity In vivo: antiangiogenic effect, ↓ expression of factor VIII, phospho- IκBα, IL-1b, Ki-67, Notch 1, activity of NFκB, ↓ activation of Notch signaling pathway | [24-26,28,29,31,32,345] |
| | Liver | In vitro: induction of apoptosis, inhibition of cell proliferation, migration and clonogenicity ↓ Notch1, HES-1, Notch signaling pathway, NF-κB ↑ caspase-3 activation, p53 In vivo: reduction the number of liver preneoplastic lesions | [90-93,95] |
| | Pancreas | In vitro: suppression of cancer cells growth, inhibition of colony formation, tube formation and angiogenesis, induction of apoptosis, ↓ Notch signaling, NF-κB signaling, phospho-STAT3, VEGF, IL-8, expression of cyclin D1, survivin and Bcl-xL genes In vivo: reduction of volume and weight of tumors, inhibition of NF-κB signaling pathway | [127-130] |
| | Lungs | In vitro: inhibition of cell proliferation, colony formation, migration and invasion, DNA fragmentation/damage, cell cycle arrest in G1, S and G2/M phase, induction of mitochondrial pathway of apoptosis, inhibition of TOPO I ↓ cyclin D1, Ras/Raf/MEK/Erk pathway, phospho-Erk1/2, p90RSK, pCREB, Fra1, phospho-TOPK, phospho-Akt, phospho-histone H3, ABCB1, ABCC1, ABCC2, ABCC3, MMP-2, MMP-9, VEGF, TGF-β, vimentin, N-cadherin, Snail | [170-175,177-180] |

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| | | <p>↑ p53, p21, p27, PUMA, Bax, Bak, cytochrome c release, activation of caspase -3, -8, -9, TIMP-1, E-cadherin, α-catenin</p> <p>In vivo: reduction of tumor weight and volume</p> <p>↓ Ki-67, cyclin D1, Fra1</p> <p>↑ PUMA</p> | |
| | Prostate | <p>In vitro: inhibition of cancer cells proliferation, migration and invasion, apoptotic (extrinsic and intrinsic) and autophagic cell death, S phase cell cycle arrest, mitochondrial damage, induction of oxidative stress</p> <p>↓ mitochondrial membrane potential, phospho-Akt, phospho-mTOR, NF-κB signaling, Bcl-2, Bcl-xL, survivin</p> <p>↑ activation of caspase -3, -8, -9, PARP cleavage, cytochrome c release, Bid, Bax</p> <p>In vivo: reduction of progression and tumor growth</p> | [256-262,264] |
| | Skin | <p>In vitro: inhibition of proliferation and colony formation and migratory activity</p> <p>↓ phospho-p38, phospho-JNK, phospho-Erk</p> <p>In vivo: inhibition of proliferation, decrease of number and size of metastases</p> <p>↓ MIA, Ki-67 positive cells</p> | [330,331,333] |
| <p>Butein</p>  | Breast | <p>In vitro: inhibition of cell proliferation and clonogenic growth, cell cycle arrest, aromatase inhibition</p> <p>↓ PMA-induced expression of COX-2, CXCR4, CXCL12-induced migration and invasion, phosphorylation of Erk, Bcl-2, ER-α expression, ↑ p38 activity, caspase-3 and PARP cleavage, phospho-STAT3</p> <p>In vivo: inhibition of the growth of ERα+ breast cancer cells, ↓ ROS, inhibition of Akt phosphorylation</p> | [36-43] |
| | Liver | <p>In vitro: cell proliferation suppression, G2/M cell cycle arrest, apoptosis induction, DNA damage response, inhibition of invasion and migration</p> <p>↓ MMP-2, MMP-7, MMP-9, uPA, Ras, Rho A, ROCK1, MEKK3, Erk1/2, JNK1/2, phospho-c-Jun, Akt/mTOR/p70S6K signaling pathway</p> <p>↑ phospho-Chk1, phospho-Chk2, ROS generation, DR5 receptor, phospho-p38</p> <p>In vivo: inhibition of tumor growth, ↓ Aurora B kinase, STAT3 signaling pathway</p> | [96,97,100-103] |
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| | Pancreas | In vitro: ↓ expression of CXCR4, NF- κ B pathway | [37] |

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| | Oral cavity | In vitro: induction of apoptosis, inhibition of migration and invasion ↓ phospho-NF-κB/p65, COX-2, MMP-9, survivin | [146] |
| | Lungs | In vitro: inhibition of cell proliferation, colony formation and migration, reduction of cell viability, G0/G1 and G2/M cell cycle arrest, DNA fragmentation, induction of mitochondrial and ER pathway of apoptosis ↓ cyclin D, cyclin B1, cdc25C, cdc2, MMP, Bcl-2, SOD2, GSH, phospho-EGFR, MET kinase activity, phospho-ERB3, phospho-Akt, phospho-Erk1/2, PD-L1, STAT1 ↑ Bax, PUMA, activity of caspase -3, -8, -9, ROS generation, phospho-PERK, phospho-eIFα, ATF4, CHOP, IRE1α, XBP1, cleavage of PARP, phospho-p38 In vivo: inhibition of tumor growth, reduction of volume and weight of tumor, induction of ER stress, ROS generation ↓ Bcl-2, PD-L1 ↑ CHOP, Bax | [43,184,185,187,188,190] |
| | Prostate | In vitro: inhibition of cell viability and proliferation, migration, invasion and angiogenesis ↓ cyclin D1, cyclin D2, cyclin E, Cdk2, Cdk4, Cdk6, Bcl-2, phospho-PI3K, phospho-Akt, IκB, NF-κB, VEGF, MMP-9 ↑ p21, p27, activation of caspase -3, -8, -9, PARP cleavage, Bax In vivo: inhibition of tumor growth ↓ Ki-67 positive cells, VEGF, CD31 | [265,266] |
| | Bladder | In vitro: antimigratory and antiinvasive activity, inhibition of EMT ↓ phospho-Erk1/2, NF-κB signaling pathway, vimentin ↑ E-cadherin | [307] |

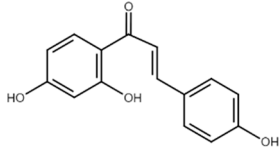
Table S2. Antiproliferative and anticancer effects of cardamonin and licochalcones based on *in vitro/in vivo* studies.

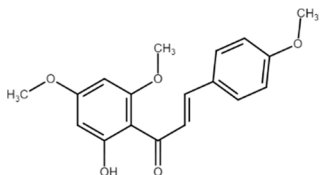
| Chalcones | Type of cancer | Mechanism of action/target or/and downstream effector | References |
|---|----------------|---|-----------------------|
| <p>Cardamonin</p>  | Breast | <p>In vitro: inhibition of proliferation, EMT transition, adhesion, migration, angiogenesis, induction of cell cycle arrest, DNA fragmentation and apoptosis ↓ Bcl-2, N-cadherin, vimentin, β-catenin, Slug, Snail, HIF-1α, cyclin D1, c-Myc, VEGF, Cdk-4, phospho-Akt, phospho-GSK-3β, phospho-S6K1, phospho-mTOR ↑ Bax, cytochrome c, cleaved caspase -3, cleaved PARP, E-cadherin, ROS accumulation, PD-L1 In vivo: dose-dependent suppression of tumor volume, ↓ HIF-1α</p> | [55,56,58-60] |
| | Liver | <p>In vitro: induction of extrinsic and intrinsic apoptosis ↓ NF-κB pathway ↑ ROS generation In vivo: suppression of tumor growth, inhibition of NF-κB pathway ↓ PCNA, Ki-67, Bcl-2, NF-κB/p65, Ikkβ ↑ Bax</p> | [104,105] |
| | Lungs | <p>In vitro: inhibition of cell proliferation, colony formation, migration and invasion, cell cycle arrest v G2/M phase, DNA fragmentation, nuclear condensation, induction of apoptosis, mitochondrial damage, modulation of tumor microenvironment and EMT ↓ cyclin D1, Cdk4, Bcl-2, N-cadherin, ZEB1, Snail, phospho-JNK, phospho-Akt, phospho-mTOR, S6K1 ↑ Bax, activation of caspase -3, cleaved PARP, ROS generation, E-cadherin, PP2A In vivo: reduction in volume and size of tumors, reduction of number of metastatic nodules ↓ phospho-Akt, phospho-mTOR, Ki-67, NF-κB signaling</p> | [200-202,205,207,346] |
| | Prostate | <p>In vitro: induction of cell death, DNA fragmentation, inhibition of migration and invasion ↓ NF-κB, STAT3, JAK2, Bcl-xL, Bcl-2, survivin, XIAP, VEGF, COX2, MMP-9, cyclin D1, cyclin E, Cdk2, Cdk4</p> | [272,273] |

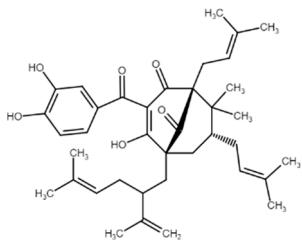
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| | | ↑ activation of caspase -3, -8, -9, PARP cleavage | |
| <p>Licochalcones</p>   | Breast | In vitro: inhibition of proliferation, invasion, migration and resistance, induction of DNA damage, autophagy and apoptosis, G2/M cell cycle arrest ↓ Bcl-2, cyclin D1, PI3K/Akt/mTOR pathway, PRMT6, MMP, AURKA, MDR-1, Sp-1, vimentin, phospho-Akt, phospho-JNK, phospho-p38, phospho-NF-κB, p62 ↑ Bax, PARP cleavage, p53, cleaved caspase -3, -9, cytochrome c release, E-cadherin, Beclin-1, ATG5 | [62,64-69,347] |
| | Liver | In vitro: inhibition of migration, invasion, cell proliferation, induction of extrinsic and intrinsic apoptosis, G2/M cell cycle arrest ↓ uPA mRNA, uPA, Akt/mTOR pathway, mRNA of survivin, cyclin B1, Cdk1, Akt, p70S5K ↑ ROS generation, MAPK pathway, expression of DR4, DR5, mRNA of Wee1, p21, DR3, DR5, caspase -3, -8, -10, Fas, Bad, Bax, Bak, PUMA, FOXO signaling In vivo: inhibition of HCC cell-mediated lung metastasis, prevention of (DEN)-induced DNA damage/fragmentation and antiapoptotic proteins expression | [106-113] |
| | Oral cavity | In vitro: induction of extrinsic and intrinsic apoptotic pathways, inhibition of migration ↓ Sp1, PI3K/Akt pathway, JAK/STAT pathway, survivin, cyclin D1, Bcl-2, Bcl-xL, matrin 3 ↑ FasL, phospho-Erk, phospho-p38, p27, activation of caspase -3, -8, -9, PARP cleavage, DNA fragmentation, Bax, Bad, ROS production | [137-145] |
| | Esophagus | In vitro: induction of endoplasmic reticulum stress and apoptosis, ROS generation, cell cycle arrest in G1 and G2/M phase ↓ cyclin B1, cyclin D1, JAK2 kinase activity, phospho-STAT3, cdc2, Mcl-1, Bcl-2, mitochondrial cytochrome c ↑ p21, p27, MAPK pathway, phospho-JNK, phospho-c-Jun, phospho-p38, GRP78, CHOP, DR4, DR5, tBid, Bax, cytosolic cytochrome c, Apaf-1, cleaved PARP | [150-152] |
| | Lungs | In vitro: suppression of tumor cells proliferation, DNA damage, G1 and G2/M cell cycle arrest, mitochondrial and ER-mediated apoptotic pathway, induction of autophagy, ROS generation, inhibition of migration and invasion ↓ MMP, cyclin B1, cyclin D1, cdc2/Cdk1, Cdk2, Cdk4, cdc25C, MDM2, Bcl-2, Bcl-xL, Mcl-1, Nrf2, γ-GCSc, c-IAP1, c-IAP2, XIAP, c-FLIP _L , PI3K/Akt/mTOR pathway, phospho- | [208-211,213-215,219,222,225,226] |

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| | | <p>JNK1, Wnt/β-catenin signaling, phospho-EGFR, phospho-c-Met, PD-L1, phospho-4EBP1, MMP-1, MMP-3, Sp1</p> <p>↑ Bax, Bad, Bid, cytochrome c release, Apaf-1, activation of caspase -3, -7, PARP cleavage, phospho-ATF4, phospho-PERK, eIF2, CHOP, BiP, ATG1, ATG3, ATG6, ATG16, LC3-I/II, miR-133-3p, phospho-p38, p21, p27, DR4, DR5</p> <p>In vivo: reduction of tumor volume and size</p> <p>↓ PI3K/Akt signaling, Ki-67, c-Met, phospho-EGFR, survivin</p> | |
| | Prostate | <p>In vitro: suppression of tumor cells growth, G1 and G2/M cell cycle arrest, induction of apoptosis, inhibition of migration</p> <p>↓ cyclin B1, cdc2, Rb</p> | [274,275] |
| | Bladder | <p>In vitro: inhibition of cell proliferation, induction of mitochondrial dysfunction, ER-stress and apoptosis cell death, ROS generation, G1 and G2/M cell cycle arrest</p> <p>↑ activation of caspase -3, -9, Bax, Bim Apaf-1, cleavage of PARP</p> <p>↓ GSH, cyclin A, cyclin B1, Wee1, Cdk1, Cdk2, cdc25A, cdc25B, NF-κB/p65, MMP-9, Bcl-2, Bcl-w, Bcl-xL</p> <p>In vivo: reduction of tumor size and weight, anti-migratory, anti-invasive and anti-adhesive activity</p> | [311-316] |
| | Skin | <p>In vitro: inhibition of cell proliferation, induction of apoptosis, inhibition of migration and invasion, ROS generation</p> <p>↓ MITF, mTOR signaling pathway, Bcl-2, mitochondrial membrane potential, p62, MM-2, MMP-9</p> <p>↑ activation of caspase -3, -9, Bax, LC3-I/II, Beclin-1, ATG1, ATG5</p> <p>In vivo: inhibition of tumor growth</p> | [335,336] |

Table S3. Antiproliferative and anticancer effects of isoliquiritigenin, flavokawains and garcinol based on *in vitro/in vivo* studies.

| Chalcones | Type of cancer | Mechanism of action/target or/and downstream effector | References |
|---|----------------|--|-------------------------------|
|  | Breast | In vitro: antiproliferative, antiangiogenic, antimetastatic, antiinvasive activity, dual ER (estrogenic) agonist activity ↓ cell viability, BrdU incorporation, metabolism of arachidonic acid, PI3K/Akt signaling pathway, cell cycle regulating proteins, β -catenin transcription activity, miR-374a, expression of Bcl-2, total and phosphorylated mTOR, VEGF-receptor, COX-2, RANKL/OPG ratio ↑ autophagy-mediated apoptosis, miR-200c, expression of PTEN, Bax, activation of caspase-3 and PARP, HIF-1 α degradation, In vivo: ↓ c-Jun, ↑ miR-200c | [45-52] |
| | Oral cavity | In vitro: downregulation of DNA repair mechanisms, induction of DNA damage and apoptosis, G2/M cell cycle arrest, inhibition of colony formation and invasion ↓ expression of ATM, ALDH1, CD44, ABCG2, GRP78 | [147,148] |
| | Lungs | In vitro: induction of extrinsic and intrinsic apoptotic cell death and necrosis, G0/G1 and G2/M cell cycle arrest, DNA fragmentation, mitochondrial damage, inhibition of EMT, invasion and migration ↓ Bcl-2, MDM2, phospho-EGFR, phospho-Akt, phospho-Erk1/2, cyclin D, PI3K/Akt signaling, mTOR, p70, Wnt/ β -catenin pathway, β -catenin nuclear translocation, N-cadherin, vimentin, phospho-FAK, phospho-cortactin ↑ Fas, mFasL, sFasL, p53, p21, Bax, Bim, cleaved caspase -3, -7, -8, -9, cleaved PARP, E-cadherin In vivo: inhibition of tumor growth and size, reduction of number and size of metastatic lesions ↓ phospho-FAK, phospho-cortactin, Src signaling pathway | [191-195,197,198,300,348-350] |
| | Prostate | In vitro: reduction of cell growth, G1 and G2/M cell cycle arrest, inhibition of migration, invasion, adhesion ↓ phospho-cdc2, MMP-9, uPA, TIMP-1, VEGF, integrin- α 2, ICAM, VCAM, phospho-Akt, phospho-JNK | [267,268,270,271] |

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| | | <p>↑ cdc25C, p38 MAPK signaling, Erk signaling, In vivo: reduction of tumor growth, volume and size, induction of apoptosis ↓ Cdk1, cyclin B1 ↑ activation of caspase -3</p> | |
| | Kidneys | <p>In vitro: reduction of cell viability, inhibition of proliferation, migration and invasion, induction of apoptosis and autophagy, ROS generation ↓ Bcl-2, Bcl-xL, STAT3 activity, cyclin D1, cyclin D2, PI3K/Akt/mTOR signaling pathway ↑ activation of caspase -3, -7, -9, PARP cleavage, Bax, cytochrome c release In vivo: reduction the number of metastatic nodules</p> | [298-300] |
| | Bladder | <p>In vitro: induction of apoptosis, chromatin condensation, nuclear fragmentation, G1 phase cell cycle arrest, inhibition of migration, ROS generation ↓ Bcl-2, mitochondrial membrane potential ↑ Bim, Bax, Apaf-1, caspase -3, -9, cdc2</p> | [308-310] |
| | Skin | <p>In vitro: inhibition of proliferation, migration and EMT, ROS generation, induction of apoptosis, ↓ GLUT1/4, hexokinase 2, pyruvate kinase M2, LDH, mitochondrial membrane potential, HIF-1α, miRNA27a, vimentin, miR-301b, miRNA-431-5p ↑ E-cadherin</p> | [337-341] |
| Flavokawains  | Breast | <p>In vitro: inhibition of cell proliferation, motility and invasiveness, colony formation, induction of apoptosis, cell cycle arrest in G1 and G2/M phase, immunomodulatory and anti-inflammatory effect ↓ MMP, angiogenic activity, VEGF, CAM1, phospho-cdc2, phospho-Cdc25C, Myt1, Wee1, MPM-2, HER2, phospho-Akt, Bcl-2, Bcl-xL, survivin, XIAP ↑ activation of caspase -8, -9, p27, Bax, Bim, cytochrome c, histone H1, cleaved PARP In vivo: ↓ tumor weight and volume ↑ T cells, IFN-γ, IL-2 in serum, CD3, CD4, CD8, NK1.1</p> | [71-73] |
| | Lungs | <p>In vitro: inhibition of tumor cell growth and proliferation, G2/M cell cycle arrest, ROS production, induction of apoptotic and autophagic cell death ↓ Bcl-xL, XIAP, survivin, PI3K/Akt/mTOR signaling, P-gp ↑ Bax, cytochrome c release, activation of caspase -3, -7, -9, cleavage of PARP, LC3-I/II, ATG4B, ATG7, JNK and p38 pathway</p> | [227,228,230,231] |
| | Prostate | <p>In vitro: inhibition of cell proliferation, G2/M cell cycle arrest, induction of apoptosis ↓ Skp2, Cdh1, survivin, tubulin polymerisation, glutamine metabolism, SGH</p> | [276-280] |

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| | | <p>↑ p27, ROS production In vivo: reduction of tumor growth ↓ NANOG, OCT4, CD44, c-Myc, survivin, XIAP, Skp2 ↑ Bax, Bim, PUMA, DR5, p21, p27, caspase activation</p> | |
| | Bladder | <p>In vitro: suppression of cell growth, intrinsic pathway of apoptosis, G1 and G2/M cell cycle arrest ↓ Bcl-xL, mitochondrial membrane potential, Cdk2, Cdk1 ↑ activation of caspase -3, -9, Bax, cytochrome c release In vivo: induction of apoptosis, increase of survival ↓ Ki-67 positive cells, PRMT5</p> | [318-320,323] |
| | Skin | <p>In vitro: antiproliferative activity, induction of autophagy and apoptosis, AVO formation ↓ Bcl-2, Akt/mTOR pathway, BRAF ↑ activation of caspase -3, PARP cleavage, LC3-I/II, p62 In vivo: reduction of tumor weight and volume</p> | [334] |
| <p>Garcinol</p>  | Breast | <p>In vitro: inhibition of proliferation, G0/G1 cell cycle arrest, induction of apoptosis, EMT and metastasis, inhibition of acetyltransferase ↓ vimentin, acH3, NF-κB/ac-p65, NF-κB nuclear translocation, cyclin D1, Bcl-2, Bcl-xL, ZEB1, ZEB2, cytosolic and nuclear β-catenin ↑ E-cadherin, miR-200, Iet-7 miRNAs</p> | [75-77] |
| | Pancreas | <p>In vitro: inhibition of cell proliferation and migration, induction of apoptosis ↓ NF-κB, MMP-9, VEGF, IL-1, STAT3</p> | [131,132] |
| | Lungs | <p>In vitro: G1 and S phase cell cycle arrest, reduction and viability, proliferation, self-renewal, multidrug resistance, EMT and DNA reparation ↓ cyclin D1, cyclin D3, cyclin E, Cdk2, Cdk4, Cdk6, p38 MAPK pathway, c-FLIP, OCT4, BMI1, SOX2, NANOG, Notch1, ABCG2, c-Myc, phospho-STAT3, survivin, phospho-JAK1, phospho-JAK2, MAPK, Wnt/β-catenin signaling pathway, LRP6, β-catenin, Dvl2, Axin2, ALDH1A1, N-cadherin, vimentin ↑ p21, p27, DR5, DDIT3, E-cadherin In vivo: reduction of size and weight of tumor ↓ Ki-67 positive cells, ALDH1A1 ↑ DDIT3</p> | [232-234,236-238] |
| | Prostate | <p>In vitro: inhibition of tumor cell proliferation, induction of apoptosis and autophagy, DNA fragmentation</p> | [281,282] |

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| | | ↓ mitochondrial membrane potential, Bcl-2, Erk1/2, NF-κB ↑ activation of caspase -3, -9, PARP cleavage, Bax LC3-I/II, phospho-mTOR, GSK-3β, PI3K, Akt, PDK1 | |
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