

**AntiCancer Metabolic Pathway Inhibitors (McLelland Metro Map + Lawenda dosing)**

Side	Path_Short	Pathway_Long	Drug_5	Drug_Long + Dosing	Product
Glucose	Glut 1	Glucose Transporter 1	Statin	atorvastatin: 40 mg 2 x/day, or simvastatin: 20 mg 3 x/day	Rx
Glucose	Glut 1	Glucose Transporter 1	QUERC	Quercetin: 500 mg 1-2 x/day	S
Glucose	Insulin	Insulin	Low GI	Low Glycemic Diet	N/A
Glucose	Insulin	Insulin	EX	Exercise	N/A
Glucose	Insulin	Insulin	MET	Metformin: 500 mg 2-3 x/day	Rx
Glucose	Insulin	Insulin	BERB	Berberine: 100-500 mg 2-3x/day	S
Glucose	Insulin	Insulin	CHR	Chromium (chelated or niacin-bound): 200-1000 mcg 1 /day	S
Glucose	PP Pathway	Pentose Phosphate Pathway	DHEA	DHEA (not for hormone driven cancers )	S
Glucose	OXPHOS	Oxidative Phosphorylation	BERB	Berberine: 100-500 mg 2-3x/day	S
Glucose	OXPHOS	Oxidative Phosphorylation	DOXY	Doxycycline: 100 mg 1 x/day	Rx
Glucose	OXPHOS	Oxidative Phosphorylation	MET	Metformin: 500 mg 2-3 x/day	Rx
Glucose	OXPHOS	Oxidative Phosphorylation	NICL	Niclosamide: 2000 mg 1 x/day	Rx
Glucose	Aerobic Glycolysis	Aerobic Glycolysis	IVC	Vitamin C (high-dose intravenous): 50-75 grams intravenous 3 x/week	Rx
Glucose	Aerobic Glycolysis	Aerobic Glycolysis	ZDG	2-Deoxyglucose (dose?)	U
Glucose	Aerobic Glycolysis	Aerobic Glycolysis	DCA	Dichloroacetate "DCA": 4.0-12.5 mg/kg body weight 2 x/day	S
Glucose	Aerobic Glycolysis	Aerobic Glycolysis	3BP	3-Bromopyruvate (dose?)	U
Glutamine	IGF-1	Insulin Like Growth Factor-1	MET	Metformin: 500 mg 2-3 x/day	Rx
Glutamine	IGF-1	Insulin Like Growth Factor-1	TAM	Tamoxifen: 10-20 mg 1 x/day	Rx
Glutamine	Gln OXPHOS	Glutamine Oxidative Phosphorylation	BERB	Berberine: 100-500 mg 2-3x/day	S
Glutamine	Gln OXPHOS	Glutamine Oxidative Phosphorylation	DOXY	Doxycycline: 100 mg 1 x/day	Rx
Glutamine	Gln OXPHOS	Glutamine Oxidative Phosphorylation	MET	Metformin: 500 mg 2-3 x/day	Rx
Glutamine	Gln OXPHOS	Glutamine Oxidative Phosphorylation	NICL	Niclosamide: 2000 mg 1 x/day	Rx
Glutamine	mTOR	Mammalian Target of Rapamycin	MET	Metformin: 500 mg 2-3 x/day	Rx
Glutamine	mTOR	Mammalian Target of Rapamycin	BERB	Berberine: 100-500 mg 2-3x/day	S
Glutamine	Macropinocytosis	Macropinocytosis (Autophagy)	CHLQ	hydroxychloroquine: 200 mg 1-2 x/day	Rx
Glutamine	Macropinocytosis	Macropinocytosis (Autophagy)	DES	Loratadine: 10 mg 1 x/day	OTC
Glutamine	Nucleoside	Nucleoside Salvage (Autophagy)	DPM	Dipyridamole: 50-100 mg 3 x/day	Rx
Glutamine	Glutaminolysis	Glutaminolysis	EGCG	Epigallocatechin Gallate (Green Tea or Extract): 200 mg 2-3x/day	S
Glutamine	Glutaminolysis	Glutaminolysis	URS	Ursolic acid: 150 mg 1-3 x/day	S
Glutamine	Glutaminolysis	Glutaminolysis	RES	Resveratrol: 20-5000 mg 1 x/day	S
Glutamine	Glutaminolysis	Glutaminolysis	CUR	Curcumin: 1000-4000 mg 2 x/day	S
Glutamine	Glutaminolysis	Glutaminolysis	L-ASP	Asparaginase (dose?)	U
Glutamine	Glutaminolysis	Glutaminolysis	BPTES	bis-2-(5-phenylacetamido-1,2,4-thiadiazol-2-yl)ethyl sulphide (dose?)	U
Glutamine	Acetate Pathway	Acetate Pathway	MEL	Melatonin: 20 mg 1 x/day	S
Fatty Acid	SREBP-1	Sterol Regulating End Binding Protein-1	BERB	Berberine: 100-500 mg 2-3x/day	S
Fatty Acid	ACLY	ATP Citrate Lyase	HYDROXY	Hydroxycitrate: 500-1000 mg 3 x/day (extracted from Garcinia Cambogia)	S
Fatty Acid	F.A.S	Fatty Acid Synthesis	MET	Metformin: 500 mg 2-3 x/day	Rx
Fatty Acid	F.A.S	Fatty Acid Synthesis	Aspirin	Aspirin (low dose, enteric coated aspirin): 81 mg 1 x/day	OTC
Fatty Acid	F.A.O.	Fatty Acid Oxidation	DOXY	Doxycycline: 100 mg 1 x/day	Rx
Fatty Acid	F.A.O.	Fatty Acid Oxidation	MIL	Mildronate: 500 mg 1 x/day	S
Fatty Acid	Mevalonate	Mevalonate Pathway	Statin	atorvastatin: 40 mg 2 x/day, or simvastatin: 20 mg 3 x/day	Rx
Fatty Acid	SREBP-2	Sterol Regulating End Binding Protein-2	BPM	Dipyridamole: 50-100 mg 3 x/day	Rx

Product (last row): OTC=over the counter, Rx=prescription, S=supplement, U=unknown availability, N/A=not a product

**Other AntiCancer Signaling Pathway Compounds (Lawenda)**

		β-adrenergic receptor blocker. Inhibits autophagy, angiogenesis, metastases, invasion. Activates apoptosis.		Propranolol: 20-40 mg 2 x/day	Rx
		Inhibits cell division, angiogenesis, hedgehog pathway, cell survival pathways, metastases, invasion. Increases apoptosis, sensitivity to chemotherapy and radiation therapy.		Mebendazole: 100 mg 1 x/day (Fenbendazole is a veterinary version that can be used in humans: 1 gram granules/day, which is 222 mg/day of active ingredient)	Rx
		Inhibits cell proliferation, invasion and migration. Activates apoptosis.		Polydatin (Biotivia Pteromax: 1 pill/day)	S
		Cyclooxygenase (COX) inhibitors (reduces cancer promoting inflammation)		Celecoxib: 200-400 mg 2 x/day; diclofenac: 35 mg 3 x/day; etodolac: 400-800 mg 2 x/day; ibuprofen: 400-800 mg 3 x/day	Rx/OTC
		inhibits NFκB, COX2 and iNOS pathways (reduces cancer promoting inflammation)		PHY906 (Huang Qin Tang formula: Chinese peony, Chinese jujube, baikal skullcap, and Chinese licorice): 800 mg 2 x/day	S
		Immune enhancing effects		Beta-Glucan (Beta-1,3/1,6-glucan): 250 mg 3 x/day	S
		Activates apoptosis. Inhibits cell division, invasion, metastases.		Artesunate: 200 mg artesunate 1 x /day, artemisinin: 200-500 mg 1 x/day	S
		Histone deacetylase inhibitor (HDACi). Inhibits cell division and angiogenesis. Increases apoptosis. Immune enhancing effects.		Acetazolamide: 250 mg 2 x/day x 1 week, then increase to 500 mg 2 x/day	Rx
		Histone deacetylase inhibitor (HDACi). Inhibits cell division and angiogenesis. Increases apoptosis. Immune enhancing effects. Estrogen receptor modulator (inhibits ER+ receptor stimulation by increasing 2-OH estrone:estriol metabolite ratio)		Indole-3-carbinol "I3C": 400-800 mg 1 x/day	S
		Inhibits cell division, glucose transport (GLUT-4), IGF-1/PI3K-AKT, angiogenesis. Activates apoptosis.		Inositol + IP6: most common dosing is 2-4 grams/day	S
		Hedgehog pathway inhibitor (inhibits cell growth). Inhibits angiogenesis, autophagy, multi-drug resistance mechanisms.		Itraconazole: 200 mg 1-3 x/day	Rx
		Inhibition of opioid growth factor (OGF) receptors (inhibits cell division). Immune enhancing effects.		Naltrexone (low-dose): 5 mg 1 x/day (start at 1-1.5 mg 1 x/day for 7 days, increase daily dose by 0.5-1.5 mg each week until you reach 4.5-5 mg 1 x/day)	Rx
		Copper depletion decreases cell growth, angiogenesis, invasion, metastases. Enhances effects of cisplatin.		Tetrathiomolybdate "TM" (Induction phase: 40 mg 3 x/day with meals and an additional 60 mg at bedtime. Goal of induction phase is to decrease ceruloplasmin level to 5-15 mg/dL. Once this is achieved, the maintenance phase will begin: 40 mg 2 x/day with meals and an additional 20 mg at bedtime.)	Rx