

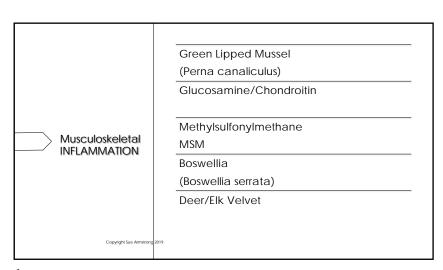
Nutraceuticals: Any product derived from food source with extra health benefits in addition to the basic nutritional values found in all foods

May activate disease-fighting genes and suppress genes that promote disease

Since each individual has a unique genome, a food benefiting one might not create the same effect for another - could even prove harmful

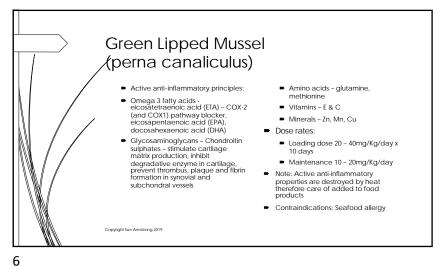
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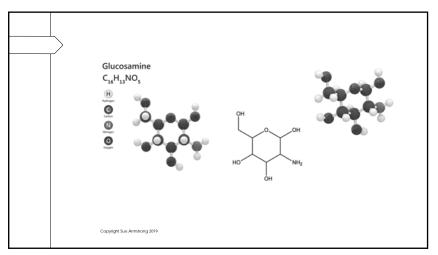
Antiinflammatories

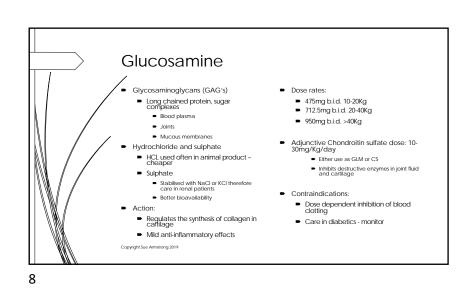


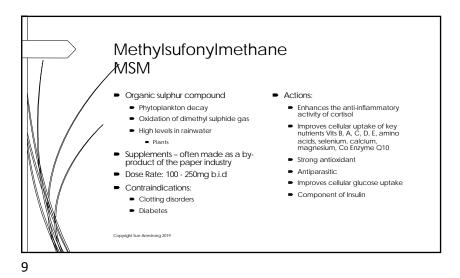
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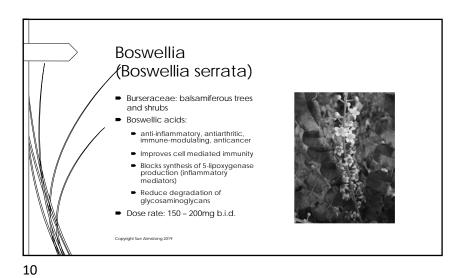








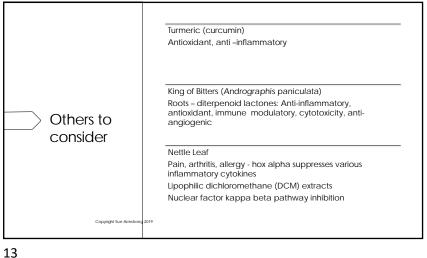




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Deer/Elk Velvet Cartilage growth phase of the stag Recorded effects: Relief from the pain and swelling ■ Harvested under nerve block associated with arthritis, Ethical issues Increased energy levels and vitality, Improved stamina, muscle strength and endurance, Active agents: Reduced recovery and healing Collagen ■ GAG's ■ Restore bone mass and support joint function, Glycoproteins ■ Stimulation of the immune system, Growth factors Improved blood circulation and mental alertness. Morphogenic factors Minerals ■ Dose rate: 250mg/20Kg bw s.i.d. Copyright Sue Armstrong 2019 12

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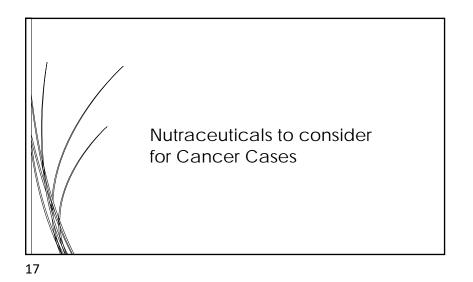


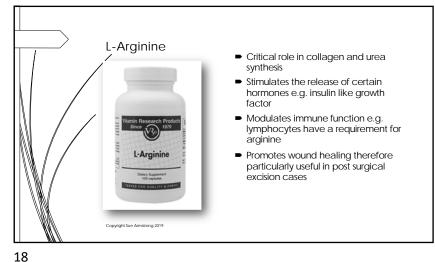
Turmeric ⟨Curcuma longa⟩ Contraindications: Anti-oxidant (anti-aging) Increased risk of bleeding for animals on blood thinners Anti-Inflammatory Caution around surgery due to increased bleeding risk ■ Anti-Angiogenic Care if used with NSAID's - may need to reduce the dose Anti-Carcinogenic Anti-Apoptotic (preventing cell death i.e. from radiation) ■ May interfere with antacids ■ Anti-Metastatic (inhibits the over- May increase the effect of blood pressure lowering drugs growth of cells) Anti-Diabetic May stimulate the uterus therefore not recommended during pregnancy Cardiovascular Protection; Lower LDL (bad) Cholesterol Dose rate: Immuno-modulatory (immune system enhancing) 95% Liposomal curcumin 500mg s.i.d. 20 – 40 Kg. (b.i.d for giant breeds) Neuro-Protective (protects the Central Nervous System - CNS) Reduce the amount given for smaller dogs

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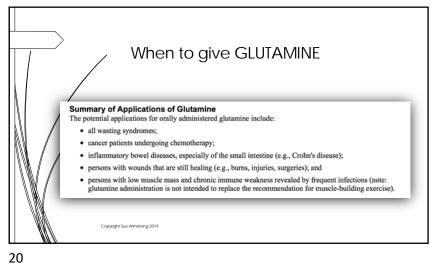
Fatty Acids (ALA, EPA, DHA) Anti-inflammatory Avocado/Soybean Unsaponifiable (ASU) Blocks pro-inflammatory chemicals, helps regenerate connective tissue, prevents deterioration of synovial cells General Sprouted Seeds foods to Reduces starch in grains, improves diet-readily available nutrients - sulforaphane - anticancer activity consider Licorice within a helps leaky gut and adrenal fatigue treatment plan Copyright Sue Armstrong 2019

Green (or Black) Tea Leaf Extract Anti-inflammatory, anti-microbial - NF kappa beta pathway inhibition DLPA (D L phenylalanine) Essential amino acid for bone and muscle pain; endorphin stimulant Milk Thistle/ SAMe (s-adenosyl L methionine) Liver cleansing - methylation pathway - cell membrane and hormone Maintenance - anti-inflammatory in osteoarthritis/fibromyalgia (NOT with antidepressants) Others to Dietary Vegetables consider Green leafy/yellow orange, reduce cancer risk Transfer Factor (Bovine Colostrum; Egg) Immune modulation Gluten-free starch Copyright Sue Armstrong 2019

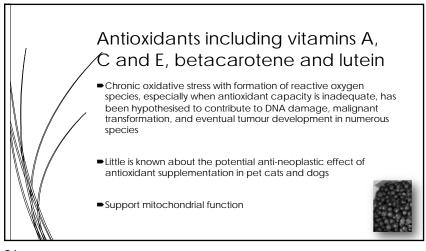




Glutamine and cancer: cell biology, physiology, and clinical opportunities Christopher T. Hensley 1 , Ajla T. Wasti 1,2 and Ralph J. DeBerardinis 1,2 ¹Children's Medical Center Research Institute and ²Department of Pediatrics, University of Texas Southwestern Medical Center, Dallas, Texas, USA. Glutamine Address correspondence to: Ralph J. DeBerardinis, 5323 Harry Hines Blvd., Room NL12.138B, Dallas, Texas 75390-8502, USA. Phone: 214.633.1804; Fax: 214.648.5402; E-mail: Ralph.deberardinis@utsouthwestern.edu. Authorship note: Christopher T. Hensley and Ajla T. Wasti contributed equally to this work. Glutamine is an abundant and versatile nutrient that participates in energy formation, redox homeostasis, macromolecular synthesis, and signaling in cancer cells. These characteristics make glutamine metabolism an appealing target for new clinical strategies to detect, monitor, and treat cancer. Here we review the metabolic functions of glutamine as a super nutrient and the surprising roles of glutamine in supporting the biological hallmarks of malignancy. We also and therapeutics to exploit tumor cell glutamine dependence, Glutamine metabolism acts n this arena, and suggest a disease-focused paradigm to deploy as a central player in the regulation of uncontrolled tumour growth by modulating bioenergetic and redox homeostasis and serving as a precursor for biomass synthesis. Cancer cells are addicted to glutamine



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Medicinal
Mushrooms

Medicinal
Mushrooms

Anti-Cancer

• Trametes versicolor

• Ganoderma lucidum

• Cordyceps militaris

• Lentinula edodes

• Grifola frondosa

• Chaga

Other properties

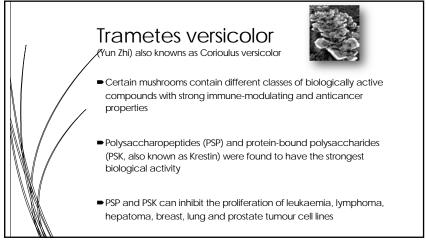
• Immune modulation

• anti-microbial

• anti-diabetic

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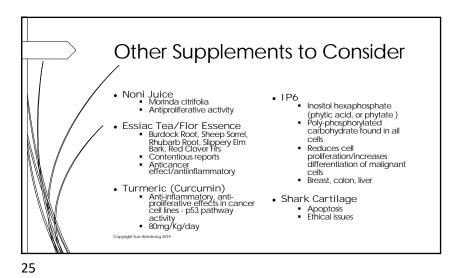


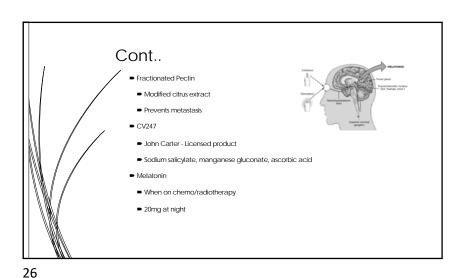
T. Versicolor cont...

Stimulate both humoral and cell-mediated immune responses
Increase the synthesis of interferon (IFN)-c and interleukin (IL)-2

Enhance T-cell proliferation
Stimulate macrophage-derived nitric oxide production
Counteract the immuno-suppression induced by cytotoxic drugs
Consider mixed mushroom products e.g. reishi, mitake, Shitake +/-Transfer Factor

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Cont...

Quercitin

Down regulates mutant p53

Suppresses RAS gene expression

Potentiates Chemotherapy

Pau D'Arco

Tabehula impetiginosa

Lapachol derivatives (napthoquinones)

Anti-inflammatory, anticancer effects

NB: Blood thinner – not in surgical cases

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And yet more.....

Apricot Kernel Oil - Laetrile

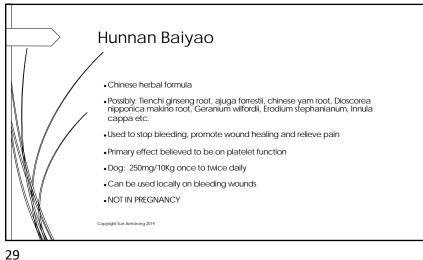
Amagdylin

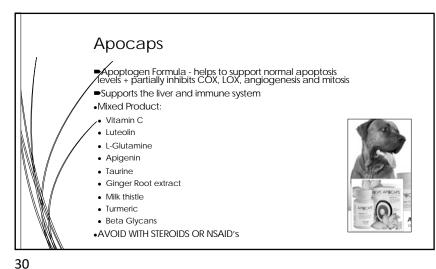
B17

Contains glucose, benzaldehyde and cyanide

Cancer cells - betaglucosidase - enzyme - releases the chemicals – cell destruction

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Warning!!!! ■The temptation for clients and some practitioners is to throw every supplement with a possible cancer action at every cancer case ■The supplements need to be selected carefully depending upon the cancer that you have in front of you ■The supplements must not compete with each other ■EXTRA CAUTION in chemo and radiotherapy cases as many will alter the way these agents work either in a positive or negative way