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Publications:

Books:

Importance of Integrative Health Sciences in the therapy of chronic diseases

Chapter2: Applications of Functional Foods and Nutraceuticals for Chronic Diseases

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Articles:

1. The Effects of Ovalbumin on Proliferation, Migration, and Stemness Properties of Chemoresistant SW480 Colon Cancer Cells, H Monji, H Zand, A Ghorbani, K Pourvali, Nutrition and Cancer, 1-9.

2. Selective thyroid hormone receptor beta agonist, GC-1, is capable to reduce growth of colorectal tumor in syngeneic mouse models, K Pourvali, G Shimi, A Ghorbani, A Shakery, FH Shirazi, H Zand, Journal of Receptors and Signal Transduction, 1-8.

3. Effects of Crocin Down-Regulation on Enzymatic Antioxidant Profile in C2C12 Cells. F Hoseini Balam, G Shimi, H Zand, A Ghorbani, Iranian Journal of Nutrition Sciences & Food Technology 17 (1), 1-8.

4. The Effect of Fertilized Egg White on Growth, Migration, Differentiation and Genes Expression Profile in SW480 Colon Cancer Cell Line, H Zand, A Ghorbani, K Pourvali.

5. Effects of unfertilized egg white on proliferation, migration and expression of genes linked to stemness and differentiation in SW480 colon cancer cell line, H Monji, H Zand, A Ghorbani, K Pourvali, Iranian Journal of Nutrition Sciences & Food Technology 16 (3), 45-53.

6. Colorectal cancer causes alteration of thyroid hormone profile in newly diagnosed patients. Shimi G, Zand H, Pourvali K, Ghorbani A. Expert Rev Endocrinol Metab. 2021, Sep;16(5):259-262.

7. Correlation of Low Levels of α -1 Antitrypsin and Elevation of Neutrophil to Lymphocyte Ratio with Higher Mortality in Severe COVID-19 Patients. Shimi G, Sohrab G, Pourvali K, Ghorbani A, Balam FH, Rostami K, Zand H. *Mediators Inflamm*. 2021 Apr 28;2021:5555619.
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9. A new mechanistic approach for cancer fighting of resveratrol. Ghorbani A, Zand H. *Gene Reports*. 2020 Jun 1;19:100600.
10. Inhibitory effect of chrysin on estrogen biosynthesis by suppression of enzyme aromatase (CYP19): A systematic review. Balam FH, Ahmadi ZS, Ghorbani A. *Heliyon*. 2020 Mar 7;6(3):e03557.
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13. Beta-Hydroxybutyrate Promotes Proliferation, Migration and Stemness in a Subpopulation of 5FU Treated SW480 Cells: Evidence for Metabolic Plasticity in Colon Cancer. Shakery A, Pourvali K, Ghorbani A, Fereidani SS, Zand H. *Asian Pac J Cancer Prev*. 2018 Nov 29;19(11):3287-3294.
14. Obesity-induced p53 activation in insulin-dependent and independent tissues is inhibited by beta-adrenergic agonist in diet-induced obese rats. Zand H, Homayounfar R, Cheraghpour M, Jeddi-Tehrani M, Ghorbani A, Pourvali K, Soltani SR. *Life Sci*. 2016 Feb 15;147:103-9. 15.
15. PTEN over-expression by resveratrol in acute lymphoblastic leukemia cells along with suppression of AKT/PKB and ERK1/2 in genotoxic stress. Ghorbani A, Zand H, Jeddi-Tehrani M, Koohdani F, Shidfar F, Keshavarz SA. *J Nat Med*. 2015 Oct;69(4):507-12.
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Research Proposals & Theses:

1. Effect of acute β -Hydroxybutyrate supplementation in combination with high-intensity interval training on gene expressions of Klotho/FGF axis in PBMC and inflammatory factors in inactive healthy adults
2. Comparison of Expression of Senescence Biomarkers in Visceral Adipocyte in Obese Adults with Normal-Weight Adults
3. Effect of N-acetylcysteine on senescence and gene expression of inflammatory factors in mature visceral adipocyte of obese adults
4. Study of thyroid hormone receptor beta agonist effects on growth and differentiation of colorectal cancer induced by injection of syngenic CT-26 cells in the Balb/C mice model
5. The effect of Beta-hydroxybutyrate on myogenesis and hypertrophy in C2C12 skeletal muscle cells
6. Evaluation of alpha-1 anti-trypsin serum levels in the Covid-19 hospitalized patients
7. The effect of crocin on some mediator genes of mitochondrial biogenesis in C2C12 muscle cells
8. Study of the effect of crocin on mitochondrial biogenesis in c2c12 skeletal muscle cells