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Background: Anticancer drug taxol is biosynthesized mainly in *Taxusbaccata* bark, although other congeneric species are also reported to produce various amounts of either taxol or its derivatives. Taxol is the most important taxane ever used in treating a variety of cancers including breast, ovarian, lung, head, and neck cancers. Taxol accumulation in plants is regulated by the expression of genes involved in their biosynthesis. The spatial and temporal expression of *bapt* gene involved in the later steps of taxol biosynthesis that resulted in converting baccatin III to 3'-N-debenzoyl-2'-deoxy taxol in *Taxusbaccata*. It is known that production of taxol could be increased through elicitation, as an effective strategy to enhance the secondary metabolites.

Objectives: In this paper we have studied the effect of methyl jasmonate on the transcript profile of *bapt* gene in cell suspension culture of *Taxus*.

Materials & Methods: The expression of *bapt* gene was quantified by real-time PCR and amount of extracellular taxol with HPLC in the cell suspension culture of *Taxus*.

Results: Our results showed that MJ treatment clearly increased the expression of the *bapt* gene compare to control.

Conclusions: It also showed that amounts of extracellular taxol was significantly increased in treated samples compared to control.

Key word: *bapt*, methyl jasmonate, taxol, *Taxusbaccata*

P-3-15337-The healing effect of *lavandula angustifolia* hydroalcoholic extract on the repair of indomethacin-induced gastric ulcer in rats

Esmailian Dehkordi Shirin, M.Sc¹, Mahdavi Shahri Nasser, Ph.D^{1, 2}, Fereidoni Masoud, Ph.D¹, Rakhshandeh Hassan, Ph.D³, Niazmand Saeed, Ph.D⁴, Saadatiyan Esmat, M.Sc¹

1-Department of Biology, Faculty of Sciences, Ferdowsi University of Mashhad, Mashhad, Iran

2- Cell and Molecular Research Group, Institute of Biotechnology, Ferdowsi University of Mashhad, Mashhad, Iran

3-Department of pharmacology, Medical School, Mashhad University of Medical Sciences, Mashhad, Iran

4-Department of Physiology, Medical School, Mashhad University of Medical Sciences, Mashhad, Iran

Objectives: To determine the healing effect of *lavandula angustifolia* in indomethacin-induced gastric ulcer in rats.

Materials & Methods: Male Wistar rats (250-300) divided randomly into five groups (n=6). Including control, indomethacin solvent, indomethacin (50mg/kg) in 1% carboxymethyl cellulose orally induced gastric ulcer and two gastric ulcer, 3 days orally treating groups, by *lavandula angustifolia* hydroalcoholic extract (200&300mg/kg). In the 3th day, rats were sacrificed. Number and length of ulcers calculated under the stereomicroscope and the ulcer index and curative ratio were calculated.

Result: The *L.angustifolia* extract significantly decreased the gastric ulcer indexes in comparison with control and indomethacin groups ($P < 0.01$). A significant difference in the inflammatory and repair parameters during the healing process between treated and nontreated cases.

Conclusions: The results suggest that *L.angustifolia* hydroalcoholic extract can exert significant mucosal layer protection.

Keywords: *lavandula angustifolia*, Gastric ulcer, Indomethacin, Ulcer index, Rat.

P-3-43333-Study of treatment and factors influencing blood concentration in Iranian Traditional Medicine

Manouchehr Mazdapour*

Department of Biology, Islamic Azad University of Pharmaceutical Science, Tehran, Iran

Saeid Zamany

Iranian Biological Resource Center, Tehran, Iran

Background: Bone marrow produces red blood cells. The principle function of red blood cells is delivering oxygen to tissues in the body. Red blood cells carry oxygen to tissues. Overproduction of red blood cells in bone marrow is called blood concentrations. This condition that hemoglobin or red blood cell count is higher than normal is called blood concentrations. The disease is caused by eating unhealthy and fatty foods, vegetable oils liquid and solid non-season fruit, sometimes stress, joy and sadness. Hemoglobin levels between 12 to 14 grams per deciliter in women and in men between 14 to 16 grams per deciliter is normal. But number higher than 16 grams per deciliter in women and 18 grams per deciliter in men is called blood concentrations. High blood concentrations occur usually after the age of 40 years, and its prevalence is higher in men than women. High blood concentrations can block small blood vessels and can affect a person's heart and brain. Most people living in places such as mountains and highlands, or areas with air pollution have high blood concentrations. Smoking, and lung and heart disease and working in polluted air are the most important causes of high blood concentrations. In these conditions the body is forced to make red blood cells, this will cause an increase in blood concentrations. Blood viscosity will increase when the body does not get enough oxygen. Some genetic disorders can also cause high blood concentrations (5 to 10%). Use of plenty fresh fruit and vegetables per day because of having dietary fiber and vitamin C can help to control blood concentrations. Drinking water is a factor in decreasing of concentrations in the blood cells. But use of garlic, onions and vegetables as raw or cooked, but without adding oils or animal fats and high salt can decrease blood concentrations. Clinical signs of blood concentrations can be: flushed face, red eyes, disturbance of consciousness, dizziness, headache, drowsiness, tingling in hands and feet. To reduce levels of blood concentrations eat very small amounts of fats, coconut oil, animal fat, red meat, and fish. Treatments: Taking blood from the patient, Drug therapy to reduce red blood cells, Avoid smoking and air pollution, Drinking plenty of water (at least eight glasses a day).

Keywords: blood concentrations, Clinical signs, Treatments, Nutrition, Traditional Medicine

P-3-68744-Radioprotective effects of melatonin against radiation induced-lipid peroxidation in rat's lungs

Tahamtan R¹, Akmal M², Shabestani Monfared A³, Haddadi GH⁴, Mosleh-Shirazi MA⁵

1.Msc Student of Radiobiology and Radiation Protection, Babol University of Medical Sciences, Cellular and Molecular Biology Research Center, Babol, Iran

2.²Department Of Biochemistry, Shiraz University of Medical Sciences, Iran

3.Professor of Medical Physics, Babol University of Medical Sciences, Cellular and Molecular Biology Research Center, Babol, Iran

4.Assistant Professor of Medical Physics, Fasa University of Medical Sciences, Shiraz University of Medical Sciences, Shiraz, Iran.

5. Assistant Professor of Medical Physics, Physics Unit, Radiotherapy Department, Namazi Hospital, Shiraz University of Medical Sciences, Shiraz, Iran

Background: Melatonin, a powerful endogenous antioxidant, plays a role in the reduction of oxidative damage. Our aim in this study is to evaluate melatonin as a radioprotector for prevention of radiation-induced lipid peroxidation in rat's lungs.

Materials & Methods: The experiments were done on 48 Wistar rats. The rats were randomly divided into six groups including:

(1) vehicle treated control group, (2) thorax 12 Gy linac x-irradiated group, (3) thorax 18 Gy linac x-irradiated group, (4) oral melatonin treated group (100 mg/kg, no radiation), (5) thorax 18