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PP-1031
Electrochemical investigation on the ligand binding by hemoglobin

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Recently, the electrochemical method is used for investigating the influence of some materials and drugs on the structure and stability of redox proteins. In this study, the effects of 2,3-diphosphospho-D-glyceric acid (DPG) and phytic acid (IHP) on the structure of hemoglobin were investigated by electrochemical method. Cyclic voltametry (CV) was performed with a PAR 263 potentiostate/Galvanostate (EG and G, USA). The working electrode was an iodide modified silver electrode that was prepared by the way of M. S. Sibbald. A saturated calomel electrode (SCE) was used as the reference electrode. A platinum electrode served as the counter electrode. Whole experiment was performed in 30×10^{-5} M bovine hemoglobin solution in 1 mM KNO3 at pH 7.0. In this condition, anodic and cathodic peaks were observed at 257 mV and 57 mV, respectively. Titration of this solution was done with DPG and IHP as the hemoglobin ligands. Potentiometric response of hemoglobin was determined for these effectors. The effect of DPG and IHP concentrations were determined on the anaerobic redox reaction showed that DPG and IHP induced stabilization of the reduced state and destabilization of R-like [Met-Fe (III)] state of Met-hemoglobin. Also this experiment is showed that, in spite of many electrochemical investigation that need fixing of protein on the surface of electrode, by using of iodide modified silver electrode one can investigate the effect of a ligand on hemoglobin in a solution.

PP-1032
Molecular markers in the cryopreservation of olive and garlic tissue

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Successful cryopreservation of plant material is important for a variety of economic and ecological reasons, but the molecular basis of its success or failure is poorly understood. A previous study by our group using Helianthus tuberosus suspension cultures showed that significantly higher transglutaminase activity was associated with the 0.5 M sucrose pre-freeze treatment, which in turn resulted in better post-thaw recovery (1). Transglutaminases (E.C.2.3.2.13) have been detected in both the membrane and soluble fractions of plants, and have been shown to utilise a number of substrates, including cytoskeletal proteins. They form covalent protein to protein crosslinks, which result in higher molecular weight polymers and they can also catalyse the incorporation of polyamines into proteins. The CRYMCEPT project has sought to determine molecular markers of successful cryopreservation focusing on changes in transglutaminase activity and cytoskeletal proteins in extracts of *Allium sativum* L. (garlic) stem discs and *Olea europaea* L. (olive) somatic embryos. Evidence will be presented to support the view that changes in the levels and/or activity of cytoskeletal proteins and transglutaminase represent useful markers of cryopreservation status.

Reference:

Harris W., Lynch PT., Hargreaves AJ. and Bonner PLR. Cryoletters (2004);25: 213–217. (European Commission: CRYMCEPT (Establishing Cryopreservation Methods for Conserving European Plant Germplasm Collections) Project.)

PP-1033
Determination of interleukin (IL) 1β-511(T/C) gene polymorphism in glial tumors of central nervous system

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Glial tumors are the most common tumors in central nervous system. Several risk factors have been associated with tumors. Genetic predisposition is an important risk factor of developing malignancy. Cytokines play an important role in tumor development via acting tumor angiogenesis and regulating immune responses. IL-1? is an proinflammatory cytokine. Single nucleotide polymorphisms (SNP) occur in the promoter regions of proinflammatory cytokine genes influence cytokine production. The aim of this study was to determine the association of IL-1β-511(T/C) gene polymorphism with glial tumors. The whole bloods of 59 glial tumor patients and 103 healthy controls were collected in EDTA-containing tubes. DNA was extracted by high pure template preparation kit (Roche Diagnostics, GmbH, Mannheim, Germany). SNPs were genotyped using polymerase chain reaction (PCR) technique. and finally the genotypes were designed as follows: CC, CT, and TT. CC genotype was not seen in control group. TT genotype was detected as 8.47% in patients while 0.97% in controls ($P < 0.05$) with an Odds ratio (OR) of 9.44 (95%CI 1.03–223.01). These results suggest that there may be an association between TT genotype of IL-1β-511, which is related with high expression of this cytokine, and glial tumors.

PP-1034
Antioxidative and antiproliferative effects of Turkish *Rheum ribes* aqueous extract

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Rheum ribes L. is an annual herb of the Polygonaceae family and found mostly in Eastern Turkey. Its fresh stems and petioles are consumed as vegetables and used as a medicinal plant to promote digestion, used against hemorrhoids and measles. This study was designed to investigate the antiproliferative and antioxidative properties of *Rheum ribes* young shoots as its edible parts. *Rheum ribes* extracts (RRE) were prepared as dry sample to water ratio of 1:12. Antioxidant capacity of the extract was determined by the ability to scavenge hydrazyl radical, DPPH, and the result was expressed as fifty percent inhibitory concentration (IC_{50}) of 0.128 ± 0.081 mg/ml. Human Myeloid Leukemia (HL-60) cell line was used as a model system for the proliferation studies. HL

60 cells were cultured in the presence of various concentrations of RRE, and exposed over 72 h. The percentage of cell viability was evaluated by metabolization of the tetrazolium salt XTT.RRE displayed a dose-dependent inhibition of cell proliferation with an fifty percent effective dose (ED_{50}) of 20.15 ± 0.86 μg/ml. These investigations suggested that the aqueous extract from *Rheum ribes* can be considered as a potent antioxidant and a strong antiproliferative agent. As a result, *Rheum ribes* exerts various activities with dose dependent as well as exposure-time dependent manners; in this sense, it has a potential for cancer chemoprevention.

PP-1035
The spectrum of abnormal hemoglobins in Antalya province, Mediterranean region of Turkey

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Talassemia is the most common with the frequency of 12% in Antalya Province that is located in the central part of the Mediterranean region in Turkey. Therefore, it is one of the target areas for carrier screening. This study aims to find the prevalence/spectrum of abnormal hemoglobins. We studied 600 postnatal and 200 prenatal cases with the disorder over 6 years. Laboratory analyses of blood samples were carried out following standard procedures. We have identified and characterized an abnormal hemoglobins with the novel and rare beta-thalassemic mutations. Four different abnormal hemoglobins were found such as Hemoglobin Antalya, Hb G-Coushatta, Hb Knossos, Hb D-Punjab in Antalya Province, Turkey. These abnormal hemoglobins are unstable and cannot be detected by simple electrophoretic examinations. These findings suggest that the abnormal hemoglobins is more frequent than expected and is an important to give a genetic counseling to the families with risk for thalassemia.

PP-1036
Soluble endothelial cell protein C receptor affecting the development of arteriovenous fistulae thrombosis in hemodialysis patients

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Arteriovenous fistulae (AVF) thrombosis is the most common cause of morbidity in hemodialysis (HD) patients. It has been postulated that increased sEPCR levels may be prothrombotic and associated with an increased risk of venous thrombosis in nonnumeric patients. Here we aimed to investigate possible effects of sEPCR levels on the development of AVF thrombosis in HD patients. Sixty patients who were being followed by HD and 22 healthy controls were included. Patients with diabetes mellitus, amyloidosis, and vasculitis were excluded. Patients were divided into two groups: Group I (n = 29), no vascular access thrombosis within 5 years and Group II (n = 31), AVF thrombosis >2 times. Groups were analyzed to evaluate any relationship between sEPCR levels and development of AVF thromboses. Plasma levels of sEPCR were significantly higher than healthy controls. Group II and I was compared to evaluate the sEPCR level that influences AVF thrombosis which result in no statistical significance. A Pearson bivariate correlation analysis which was done to evaluate any relationship between sEPCR and clinical and laboratory parameters in HD patients, revealed that; increased plasma sEPCR levels were negatively correlated with age, duration of ESRD and HD. In conclusion, this is the first study, analyzing sEPCR levels in HD patients. We could not find any relationship between plasma sEPCR levels and AVF thrombosis, but still further studies are needed to evaluate factors affecting AVF thrombosis.

PP-1037
Probing Taxol™ (paclitaxel)-cell membrane interactions with Langmuir-blodgett Monolayer, Fourier Transform Infrared Spectroscopy and differential scanning calorimetry

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The interaction of Taxol™ (paclitaxel), a potent agent employed in cancer therapy, with model phospholipid structures is presented. For the physicochemical characterization of surface, structural and thermodynamic properties of various drug-lipid complexes, Langmuir-Blodgett Monolayer, Fourier Transform Infrared Spectroscopy (FTIR) and Differential Scanning Calorimetry (DSC) were used trying to clarify its effects on cell membrane properties. The effect of sample preparation, lipid type and drug concentration have a detrimental impact on the observed features. Recognition of Taxol™ (paclitaxel) with phosphatidylcholine moieties results in alterations of physical parameters of the model membrane, such as surface recognition with lipid headgroups, onset, pre-transition and main phase transition temperatures, as well as on acyl chain packing. The drug has a fluidizing effect in the gel phase of saturated phospholipids. Our study focuses mainly on Taxol™ (paclitaxel) effects on model cellular membranes, but the described biophysical aspects of its mode of action are also employed in liposomal drug delivery in tumour treatments trials. Both of these aspects are described based on our experimental designs as a preliminary hypothesis and proposals.

PP-1038
Comparison of anti cyclic citrullinated peptide levels with other markers in rheumatoid arthritic patients

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We investigated anti cyclic citrullinated peptide (ACCP) levels in patients with rheumatoid arthritis (RA) in presence and absence of rheumatoid factor (RF). Seronegative (n = 30) and seropositive (n = 30) two groups with similar demographic were obtained

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