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29. ULUSAL BİYOKİMYA KONGRESİ
26-30 Ekim 2018, Muğla

TBS INTERNATIONAL BIOCHEMISTRY CONGRESS 2018
29TH NATIONAL BIOCHEMISTRY CONGRESS
26-30 October 2018, Mugla

Türk Biyokimya Derneği'nin yayın organıdır.
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WELCOME MESSAGE

Dear Colleagues,

This year we decided to hold the International Biochemistry Congress - 29th National Biochemistry Congress (NBC 2018) in Bodrum on 26-30 October 2018, on the 98th anniversary of the foundation of our Republic.

We are working on the congress scientific program and the program will be announced shortly.

The scientific program will include important and recent topics of biochemistry and clinical biochemistry. These issues will be transferred to the participants by many talented and valuable speakers from inside and outside the country.

The program will include oral presentations and some of these oral presentations will be presented in mini conference format.

Due to the high demand, courses and workshops will be organized before and after the congress.

The abstracts presented at the Congress will be published in the Turkish Journal of Biochemistry, which is the official publication of the Turkish Biochemistry Association and listed on SCI-E.

We invite all of our colleagues and representatives of diagnostic companies to Bodrum.

We invite you for both to celebrate the 95th anniversary of our Turkish Republic and exchange information.

We hope International Biochemistry Congress - 29th National Biochemistry Congress (UBK 2018) will be a new step to move biochemistry and clinical biochemistry further up in our country.

With my best regards,

ORGANIZING COMMITTEE

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SCIENTIFIC COMMITTEE

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SCIENTIFIC PROGRAM

27 October 2018, Saturday

PHASE LIS 1-2

08:00-09:00	Oral Presentations
	Chairpersons: Saliha Aksun - Baǧnu Orhan
08:00-08:10	OP-001 Analytical performance assessment of biochemistry analyser, Fevziye Burcu Şirin
08:10-08:20	OP-002 Evaluation of the stability of the compensatory jaffe method within the day, Ayla Yıldız
08:20-08:30	OP-003 Evaluation of sysmex uf-5000 automated urine sediment analyzer performance, Zeynep Arıkan
08:30-08:40	OP-004 Comparison of test results obtained from lithium heparin gel tubes and serum gel tubes, Şerif Ercan
08:40-08:50	OP-005 Data loss from instrument result page to the laboratory result print, Özgür Aydın
08:50-09:00	OP-006 Relationship among internal quality control, exponentially weighted moving averages, patients results, Hikmet Can Çubukçu
09:00-11:00	Laboratory Management (IFCC C-CLM)
	Chairpersons: Sedef Yenice - Süleyman Demir
	Verification of laboratory test results in the core Lab: Exploring effectiveness from the ground up
09:00-09:20	Reducing laboratory error through review of patient results: An overview Edward Randell
09:20-09:40	HIL and other consistency checks Matthias Orth
09:40-10:00	Delta checks and the unusual and abnormal Sedef Yenice
10:00-10:20	Autoverification: A balancing act? Edward Randell
10:20-10:30	Panel Tartışma
10:30-11:00	Oral Presentations
10:30-10:40	OP-019 Direct bilirubin test overuse; an approach of rational laboratory use, Muammer Yücel
10:40-10:50	OP-020 A Evaluation of six sigma with different quality goals; need of harmonization and other problems, Murat Keleş
10:50-11:00	OP-021 Rational use of laboratory test request procedure: 25-hydroxy vitamin d, Habib Özdemir
11:00-11:30	Coffee Break
11:30-12:15	Chairperson: Tomris Özben
	Patient based risk assesment and QC frequency: A new data-driven way to schedule your controls Sten Westgard
12:15-13:30	Lunch
13:30-14:30	ROCHE SATELLITE SYMPOSIUM
	Chairperson: Mehmet
	Offline Preanalytical Systems and Their “Real” Use
	Ebru Güner, Centro Laboratoriesı
	Cem Öcal, Roche Diagnostics Turkey
14:30-16:00	Mutations, Cancer, miRNA and Future
	Chairpersons: Abdullah Tuli - Hilal Koçdor
14:30-14:50	Are mutations randomized? Abdullah Tuli
14:50-15:10	Cancers and miRNA Pınar Uysal Onganer
15:10-15:30	Life without cancer: utopia or reality? Engin Ulukaya
15:30-15:50	Examples to the most successful transcriptomic analyses of individualized diagnosis and therapy of cancer, Ali Osman Güre
15:50-16:00	Discussion
16:00-16:30	Coffee Break
16:30-17:30	Archem Satellite Symposium
	Chairperson: Güzin Aykal
17:30-18:00	Chairperson: Aylin Sepici Dinçel
	Digital PCR and applications Müslüm Akgöz
18:00-18:30	Leadership in clinical laboratory management Sedef Yenice



SCIENTIFIC PROGRAM

27 October 2018, Saturday

PHASE LIS 3

08:00-09:00	Oral Presentations Chairpersons: Aylin Haklıgör - Oğuzhan Zengi
08:00-08:10	OP-007 The importance of nectin2 and nectin4 adhesion molecules in breast tumors, Murat Serilmez
08:10-08:20	OP-008 Evaluating the anti-tumorigenic potential of memantine in 4t1 mice breast cancer tumor model, Elif Burcu Bali
08:20-08:30	OP-009 Wwox knockout cells exhibit chromosomal alterations and copy number variations, Bahadır Batar
08:30-08:40	OP-010 Esculetin enhances caspase-dependent apoptotic cell death and insulin secretion in ins-1 cells, Ayşe Karatug Kaçar
08:40-08:50	OP-011 The relationship with apoptosis of bortezomib resistance in multiple myeloma cell lines, Emine Öksüzöğlü
08:50-09:00	OP-012 Mdr transporters responsible for time-dependent extrusion of bortezomib from multiple myeloma cells, Gül Kozalak
09:00-11:00	TBD Academy Workshop / A roadmap for more effective oral presentations Ferhan Sagin, Merve Evren
11:00-11:30	Coffee Break
12:15-13:30	Lunch
13:30-14:30	Oral Presentations Chairpersons: Güliz Armağan - Murat Cihan
13:30-13:40	OP-022 Mir-29b-2 regulates lysyl oxidase-like 2 and heat shock protein 47 in hypertrophic scar, Duygu Harmanci
13:40-13:50	OP-023 Mglu2 mglu3 expression levels at different l-glutamate doses in schizophrenia model, Duygu Vardaglı
13:50-14:00	OP-024 Determining of nis gene expression in gastric tissue of morbid obese individuals, Deniz Mihçioğlu
14:00-14:10	OP-025 Novel nobox gene c. 1841c>t variant in a case with premature ovarian failure, Hande Küçük Kurtulgan
14:10-14:20	OP-026 Single-variant analysis and poligenic risc score of genetic traits associated with wheezing fenotype, Nazente Atçeken
14:20-14:30	OP-027 Effects of rs1169289 & rs55834942 mutations of hnfla on biochemical parameters in mody patients, Deniz Kanca Demirci
14:30-16:00	Special Topics in Clinical Biochemistry Panel Chairpersons: İsmail Çetin Öztürk - Ümmühani Özel Türkçü
14:30-14:50	New generation ischemia modified albumin assay Ozcan Erel
14:50-15:10	Metabolic effects of natural and artificial sugars Hakan Boyunaga
15:10-15:30	Current approaches to prenatal screening tests Ercan Saruhan
15:30-15:40	OP-135 A discussion study for laboratory process education demands and needs of our technicians, Saliha Aksun
15:40-15:50	Discussion
16:00-16:30	Coffee Break
16:30-18:30	Oral Presentations Chairpersons: Funda Güçel - Koza Murat
16:30-16:40	OP-043 Hormetic stress response of dietary phytochemicals in healthy aging, Ceren Gezer
16:40-16:50	OP-044 Tau protein and 8-iso-prostaglandin in children with attention-deficit hyperactivity disorder, Filiz Atalay Çubuk
16:50-17:00	OP-045 Evaluation of the post-analytical phase in medical laboratories, Zeliha Günnur Dikmen
17:00-17:10	OP-046 Critical value evaluation in hacettepe university hospitals, Emine Nilay Bakır
17:10-17:20	OP-047 The effects of high fructose diet on endoplasmic reticulum stress, cell death and oxidative damage, Zeynep Mine Coşkun
17:20-17:30	OP-048 A novel iron chelating ligand for iron overload diseases, Gülüzar Özbolat
17:30-17:40	OP-049 Platelet levels and neutrophil/lymphocyte ratio in thyroid nodules with and without cancer diagnosis, Soycan Mızrak
17:40-17:50	OP-050 Localization of tissue requiring surgery in hyperparathyroidism: case report, Elif Değirmen İsen
17:50-18:00	
18:00-18:10	OP-052 Protective effect of nutraceuticals on oxidant-antioxidant levels in the rat breast cancer, Hüseyin Fatih Gül
18:10-18:20	OP-053 Investigation of phospholipase a2 and matrix metalloproteinase-9 with coronar plaque structure, Neslihan Sungur
18:20-18:30	OP-054

SCIENTIFIC PROGRAM

27 October 2018, Saturday

SALON 3

08:00-09:00	Oral Presentations Chairpersons: Filiz Bakar Ateş - Yeşim Güvenç Demirağcı
08:00-08:10	OP-013 Curative effects of β -glucan against tcdd-induced oxidative kidney damage in rats, Kürşat Kaya
08:10-08:20	OP-014 Blood mda and gsh levels in gastritis and cancer patients, Aysel Güven
08:20-08:30	OP-015 The role of coagulation proteases in regulation of enos uncoupling in diabetic nephropathy, İbrahim Söğüt
08:30-08:40	OP-016 The protective and antioxidant effects of astaxanthin against cisplatin-induced toxicity in rats, Saniye Ada
08:40-08:50	OP-017 Effects of gender and glucose-based nutrition on redox homeostasis in drosophila melanogaster, Karolin Yanar
08:50-09:00	OP-018 Can avanafil and zaprinast change some selected cytokine levels in ovariectomized rat's liver?, Zübeyir Huyut
09:00-11:00	TBD Academy Workshop / 1. Effective use of Information Technology in Clinical Chemistry: 1. Mendeley Muhittin A. Serdar, Murat Cihan
11:00-11:30	Coffee Break
12:15-13:30	Lunch
13:30-16:00	Oral Presentations Chairpersons: Gülberk Uçar - Canan Yılmaz
13:30-13:40	OP-028 In vitro investigation of peg-tio2-ptx nanotargeted drug effect in breast cancer, Ayça Taş
13:40-13:50	
13:50-14:00	OP-030 Organotoxic effects of deguelin and docetaxel in experimental lung cancer model, Hakan Cengiz
14:00-14:10	OP-031 The effect of combined treatment of flk506 and akt inhibitory on pdgf-induced pc3 cells invasion, Harun Ün
14:10-14:20	OP-032 The effects of phenothiazine dyes on gag-modified aplp2 and β -secretase 1 levels in hs766t cells, Kevser Biberöglü
14:20-14:30	OP-033 Investigation of sinergic effect of rho kinase inhibitor as 1892802 and paclitaxel on breast cancer, Mustafa Ergül
14:30-14:40	OP-034 Detection of circulating tumor cells (ctcs) in various types of cancer, Emine Terzi
14:40-14:50	OP-035 Determination of circulating tumor cells by flow cytometry in the bladder cancer patients, Elif Ercan
14:50-15:00	OP-036 Comparison of induction of protoporphyrin ix synthesis in 2d and 3d cell culture, S. Sibel Erdem
15:00-15:10	OP-037 Drug carrying nanoparticles prepared with green synthesis method for targeted cancer therapy, Güliz Ak
15:10-15:20	OP-038 Anticancer effect of cucurbitacin b loaded hybrid nanocarriers on human breast cancer cells, Filiz Bakar Ateş
15:20-15:30	OP-039 Investigation of the cytotoxic, genotoxic & apoptotic effects of capsaicin on gastric cancer, Eray Metin Güler
15:30-15:40	OP-040 Detection of mt-nd5 and mt-cyb mutations in the ht25 and hct 116 colon cancer cell lines, Gamze Turna
15:40-15:50	OP-041 Role of endothelin-1 on proliferation and invasion of hct116 cells, Rüstem Anıl Uğan
15:50-16:00	OP-042 RThe effect of n-acetylcysteine on oxidative stress induced by ccl4 hepatotoxicity in the rats, Elif Azzie Özşahin Delibaş
16:00-16:30	Coffee Break
16:30-18:30	Oral Presentations Chairpersons: Elif Öztetik - Neslihan Gürbüz
16:30-16:40	OP-055 Comparison of apoptotic response in parkinson's disease in vitro models, Gizem Kaftan
16:40-16:50	OP-056 An uncommon hemoglobin variant: hemoglobin moabit, Hülya Ünal
16:50-17:00	OP-057 The changes in cellular responses after nrf2 gene silencing in parkinson's disease, Elvin Sevgili Girişen
17:00-17:10	OP-058 A case of floating-harbor syndrome with a novel mutation, Malik Ejder Yıldırım
17:10-17:20	
17:20-17:30	OP-060 Inhibition effect of arylidene indanones derivatives on acetylcholinesterase enzyme activity, Halide Edip Temel
17:30-17:40	
17:40-17:50	OP-062 The effect of suberoylanilide hydroxamic acid on fibrosis markers in human hepatic stellat cell line, Merve Özel
17:50-18:00	OP-063 Phage display derived antibodies enrich aliphatic residues in antigen binding regions, Murat Karadağ
18:00-18:10	OP-064 An evaluatin of 8-isoprostaglandin concentrations in children-who-stutter, Seher Kara Öngel
18:10-18:20	OP-065 The relationship between vitamin d levels and respiratory and food allergy, Sibel Kulaksızoğlu
18:20-18:30	OP-066 Anti-cancer activity of paclitaxel loaded ngo nanotherapy systems on mda-mb-231 cell lines, Neşe Keklikçioğlu Çakmak



SCIENTIFIC PROGRAM

28 October 2018, Sunday

PHASELIS 1-2

08:00-09:00	Oral Presentations Chairpersons: Oğuzhan Özcan - Arzu Özel
08:00-08:10	OP-067 Relation between red blood cell distribution width (rdw) and inflammatory biomarkers, Arzu Kösem
08:10-08:20	OP-068 Analysis of preanalytic errors by different autoanalyzer and sample types, Cuma Mertoglu
08:20-08:30	OP-069 Evaluation of iodine levels in last three years; retrospective study, Hümeysra Acıkan
08:30-08:40	OP-070 Fasting and non-fasting lipoproteins are not the same, Betül Özbek İpteç
08:40-08:50	OP-071 Performance with different equations for ldl-c estimation between healthy population in turkey, Mehmet Fatih Alpdemir
08:50-09:00	OP-072 Comparison of emergency biochemistry tests with li-heparin (barricor™) and gel tubes, Bilal İlhanbey
09:00-10:30	Hematology and Immunology Panel Chairpersons: Ebubekir Bakan - Ebru Sezer
09:00-09:20	Hemostasis testing Adnan Haşimi
09:20-09:40	Newly discovered effects of vitamin K beyond coagulation system: relationship with aging Fikriye Uras
09:40-10:00	Is immunologic aging preventable? İshak Ozel Tekin
10:00-10:15	Genetic heterogeneity and molecular diagnosis of HbH disease Mehmet Akif Curuk
10:15-10:25	OP-140 Evaluation of suspicious positive hla b27 results in flow cytometry, Bağrı Orhan
10:25-10:30	Tartışma
10:30-11:00	Coffee Break
11:00-11:45	Chairpersons: Zeliha Günnur Dikmen Airway Mucins as Prognostic/Diagnostic Marker and Therapeutic Target Mehmet Kesimer
11:45-12:45	BECKMAN COULTER SATELLITE SYMPOSIUM Chairpersons: Berrin Berçik İnal New Beckman Coulter High Sensitive Troponin I test
12:45-13:30	Lunch
13:30-15:00	Basic and Clinical Proteomics Chairpersons: Çetin Kocaefe - İlhan Yaylım
13:30-13:50	The use of genome regulation technologies in functional protein analyses Cetin Kocaefe
13:50-14:10	Definitive proteomics application technologies in basic research Nurhan Ozlu
14:10-14:30	Proteomic applications in clinical trials and challenges Aysel Ozpinar
14:30-14:50	Data integration and network modelling techniques in proteom applications Nurcan Tuncbag
14:50-15:00	Discussion
15:00-15:30	Oral Presentations
15:00-15:10	OP-102 In silico analysis of beta-secretase gene (bace1) which plays a role in alzheimer's disease, Ömer Faruk Karasakal
15:10-15:20	OP-103 Development of functionalised qcm based biosensors to detect breast cancer cells, Merve Yılmaz
15:20-15:30	OP-104 NAD⁺ dependent formate dehydrogenase production and enhancement of activity via protein engineering, Huri Bulut
15:30-16:00	Coffee Break
16:00-18:00	Rational Use of Clinical Laboratory Chairpersons: Ferzane Mercan
16:00-16:15	Rational use of medical laboratory in pediatrics Rukiye Eker
16:15-16:30	Rational test utilization Suat Hayri Kucuk
16:30-16:45	Reflex test and reflective test in practice, report format and interpretation Muhittin Serdar
16:45-17:00	Autoverification Abdurrahman Coskun
17:00-17:15	Consultation Mehmet Senes
17:15-17:30	Decision limits, critical values, and harmonization of measurement units Doğan Yücel
17:30-17:45	Information technology, HIMS/LIMS, in rational use of clinical laboratory Ali Özen Akyürek
17:45-18:00	Information technology, HIMS/LIMS, in rational use of clinical laboratory Ziya Bolgönül



SCIENTIFIC PROGRAM

28 October 2018, Sunday

PHASE LIS 3

08:00-09:00	Oral Presentations Chairpersons: Fatma Demet Arslan - Muammer Yücel
08:00-08:10	OP-073 Analysis of oxidative stress depended peroxide and free fatty acids of microalgal lipid, Nurcan Vardar Yel
08:10-08:20	OP-074 The effect of acrylamide administration on large intestine and bladder functions in rats, Rıdvan Bağcı
08:20-08:30	OP-075 Prominent autofluorescence was observed in formaldehyde-fixed, paraffin embedded liver tissue sample, Rıfat Ertekin
08:30-08:40	OP-076 Glut 2 protein change in hepatocytes after acrylamide exposure: an immunocytochemical examination, Sedat Kaçar
08:40-08:50	OP-077 Correlation between phenolic ingredients and life span effects of asparagus officinalis l, Hasan Kılıçgöl
08:50-09:00	OP-078 Hypertthyroidism increases trpv1 activity in rat brain and cerebellum, Ezgi Bektur
09:00-10:30	Toxicology Chairpersons: Sabahattin Muhtaroglu - Alev Kural
09:00-09:20	Exposure of women and newborn to Nis inhibitors and thyroid disease in Turkey Aysel Ozpinar
09:20-09:40	Effects of heavy metals and environmental chemicals on endocrine function and health Fehime Benli Aksungar
09:40-10:00	Laboratory and quality control studies for detection of chemical weapons Levent Kenar
10:00-10:15	Endocrine disrupting chemicals - research data Aylin Sepici Dinçel
10:15-10:30	Biochemical approach to endocrine disrupting chemicals Nuray Ulusu
10:30-11:00	Coffee Break
11:45-12:55	Oral Presentations Chairpersons: Hüsamettin Vatansev - Nilgün Tekkeşin
11:45-11:55	OP-088 Determination of urinary podocin and podocalyxin levels by liquid chromatography-mass spectrometry, Bilge Karatoy Erdem
11:55-12:05	OP-089 The role of methylglyoxal levels in diabetes diagnosis, Duygu Eryavuz
12:05-12:15	OP-090 Early postoperative changes of sphingomyelins and ceramides after sleeve gastrectomy, Mutay Aslan
12:15-12:25	OP-091 Our lab experience in establishing acylcarnitine-aminoacid cutoffs in newborn screening by tandem ms, Özlem Demirelce
12:25-12:35	OP-092 Determination of enos gene polymorphism and plasma adma concentrations in patients with lung cancer, Zafer Bayraktutan
12:35-12:45	OP-093 Relationship between serum no and adma levels with acute exacerbation of copd, Pelin Uysal
12:45-12:55	OP-094 Increased serum asymmetric dimethylarginine levels in workers with lead exposure, Saadet Çelik
12:45-13:30	Lunch
13:30-18:00	TBD Academy Workshop / LC-MS/MS use in clinical laboratory practice Ali Ünlü, Fehime Aksungur, Hüseyin Kayadibi, Sedat Abuşoğlu Quota is limited



SCIENTIFIC PROGRAM

28 October 2018, Sunday

SALON 3

08:00-09:00	Oral Presentations Chairpersons: Sedat Abuşoğlu - Pınar Eker
08:00-08:10	OP-079 The role of prostaglandin e2 in diabetic nephropathy, Emre Avcı
08:10-08:20	OP-080 Evaluation of protein oxidation in streptozotocin induced diabetic rats, Meltem Demir
08:20-08:30	OP-081 Effects of boric acid on heart tissue damage caused by renal ischemia/reperfusion, Yakup Kara
08:30-08:40	OP-082 Neuroprotective effects of boric acid on brain against renal ischemia/reperfusion injury, Ceyhan Hacıoğlu
08:40-08:50	OP-083 Renal ischemia-reperfusion effect on spleen as remote tissue damage and role of boric acid, Fatih Kar
08:50-09:00	OP-084 The view of the incoming students from middle east countries to biochemistry course at health science education, Rabia Şemsi
09:00-10:30	Standardization of HbA1c and EQAS Chairpersons: İsmail Temel - Mutay Aslan
09:00-09:20	National benefits from EQAS suppliers Semra Boğa
09:20-09:40	A story of manufacturing of reference material for HbA1c Fatma Akcadag
09:40-10:00	Evaluation of EurA1c 2016 and 2017 studies and ranking of Turkey among other countries Diler Aslan
10:00-10:30	Oral Presentations:
10:00-10:10	OP-085 Transition to glucometer integrated to the information management system: a survey study, Levent Deniz
10:10-10:20	OP-059 A practical approach for identifying hbs or hbd variants in electrophoresis: the solubility test, Cihan Coşkun
10:20-10:30	OP-087 Effect of angiotensin (1-7) treatment on oxidative stress parameters, ima and mpo levels in diabetes, Nazlı Otuzaltı
10:30-11:00	Coffee Break
11:45-12:55	Oral Presentations Chairpersons: Levent Kayrın
11:45-11:55	OP-095 Detection of β -thalassemia cd44 mutation by using piezoelectric biosensor for non-invasive diagnosis, Umut Kökbaş
11:55-12:05	OP-096 A new enzyme biosensor design for rapid screening of congenital adrenal hyperplasia in newborn, Ebru Dünder Yenilmez
12:05-12:15	OP-097 Prednisolon tayinine yönelik moleküler damgalanmış polimer esaslı biyosensör sistemi geliştirilmesi, Erhan Canbay
12:15-12:25	OP-098 Synthesis and application of p (hema-maga) -cts nanopolimer for urease immobilization, Hilmiye Deniz Ertuğrul Uygun
12:25-12:35	OP-099 Design of polyaniline based urea biosensor, Kezban Kartlaşmış
12:35-12:45	OP-100 Development of a reusable molecularly imprinted impedimetric sensor for cortisol detection in saliva, Zihni Onur Uygun
12:45-13:30	Lunch
12:45-12:55	OP-101 Design of a new biosensor for the determination of ferrous iron in blood, Ahmet İlhan
13:30-15:30	TBD Academy Workshop / Validation-Verification Application Course Muhittin A. Serdar, Murat Cihan
15:30-16:00	Coffee Break
16:00-18:00	TBD Academy Workshop / Communication, Networking and Social Media Usage in Scientific Careers Ferhan Sağın, Ali Burak Özkaya



SCIENTIFIC PROGRAM

29 October 2018, Monday

PHASE LIS 1-2

08:00-09:00	Oral Presentations Chairpersons: Settar Kosova - Elmas Ögüş
08:00-08:10	
08:10-08:20	OP-106 Diabetes mellitus relationship with vitamin d and vitamin b12 levels: a retrospective analysis, İlhan Sabancılar
08:20-08:30	OP-107 Assessment of cardiac dysautonomia and vitamin d levels in multiple sclerosis patients, Müjgan Ercan Karadağ
08:30-08:40	OP-108 Comparison of immunoassay methods ipth measurement in hemodialysis patients, Mine Büşra Pehlivan
08:40-08:50	OP-109 Is high sensitive troponin i effected by egfr rate in asymptomatic renal failure patients?, Zümrüt Mine Işık Sağlam
08:50-09:00	OP-110 Vitamin d levels in childhood and vitamin d supplementation, Yasemin Ardıçoğlu Akışın
09:00-10:30	IT and Databased Approach in Clinical Laboratory Chairpersons: Özlem Gülbahar - Cihan Coşkun
09:00-09:20	IT and Databased Approach in Clinical Laboratory
09:20-09:40	Data production and use in clinical laboratory management Merve Sibel Gungoren
09:40-10:00	Autoverification in laboratory practice Deniz I. Topcu
10:00-10:10	Approach to data mining with the review of clinical laboratory specialist Muhittin A. Serdar
10:10-10:30	Discussion
10:10-10:20	OP-117 The prevalence of illegal substance use in balikesir region; a laboratory data mining study, Medine Bitigic Alpdemir
10:20-10:30	OP-118 25-oh vitamin d3 dependent intact parathyroid hormone reference value study, Büşra Efem Toy
10:30-11:00	Coffee Break
11:00-11:45	Chairperson: Ferhan Girgin Sağın Mitochondrial ROS in cell signaling and in mechanism of neurodegeneration Andrey Abramov
11:45-12:45	SIEMENS SATELLITE SYMPOSIUM Chairpersons: Oytun Portakal Roadmap to a Digital Transformation for the Clinical Laboratory Jessica Eddy, Siemens Healthineers, Digital Ecosystem Lead for Laboratory Diagnostics, Global Marketing Manager
12:45-13:30	Lunch
13:30-15:00	The Biochemistry of Intestines, Microbiome and GAPS Diet Chairpersons: Zeynep Güngör - Hacı Ömer Ateş
13:30-13:50	Intestinal structure and biochemistry Yasemin Akcay
13:50-14:10	Therapy for intestine, diet and supports Aslıhan Avcı
14:10-14:30	Diseases related to intestine Asuman Kaplan Algin
14:30-14:45	Intestinal microbiota and bile acids Huseyin Kayadibi
14:45-15:00	Discussion
15:00-15:30	Coffee Break
15:30-16:15	Chairperson: Ali Ünlü Musculoskeletal and metabolic statuses of childhood acute lymphoblastic leukaemia survivors: The role of vitamin D Edgard Delvin
16:15-18:00	Organisation of Central Laboratory Chairpersons: Münire Hacibekiroğlu - Melek Demir
16:15-16:35	Cost-effective approach Hale Aral
16:35-16:55	Experience from central laboratory organisation of Cerrahpasa Medical Faculty Munire Hacibekiroglu
16:55-17:15	Lean laboratory practice Neval Aksoy
17:15-17:30	Discussion
17:30-18:00	Oral Presentations
17:30-17:40	OP-134 Evaluation of analytical performance in clinical chemistry laboratory via measurement uncertainty, Ömer Kaya
17:40-17:50	
17:50-18:00	OP-136 Investigation of the readability of notification texts of the double test in the internet, Çiğdem Damla Deniz



SCIENTIFIC PROGRAM

29 October 2018, Monday

PHASE LIS 3

08:00-09:00	Oral Presentations Chairpersons: Yasin Bayır - Halide Edip Temel
08:00-08:10	OP-111 Protective effects of nigella sativa on carbon tetrachloride-induced hepatotoxicity model in rats, Nurcan Evliyaoğlu
08:10-08:20	OP-112 Investigation of lithium carbonate's effect on human blood lymphocytes in in vitro environment, Bülent Adar
08:20-08:30	OP-114 In acute distal colitic rats; healing effect of medical ozone therapy, Feyza Yağmur Tekeli
08:30-08:40	OP-115 Antiproliferative effects of thymoquinone in hepg2 cells involve increased ceramide and caspase 3, Ebru Afşar
08:40-08:50	OP-116 Thymoquinone upregulates neutral sphingomyelinase activity and ceramide levels in mcf7 cells, Sabriye Kaya
08:50-09:00	OP-141 Detection of afp values in patient with ataxia telangiectasia, Oytun Portakal
09:00-10:30	Personalized Medicine Chairpersons: Levent Kayrın - Özlem Dalmızrak
09:00-09:20	
09:20-09:40	The role of GST1 inhibitors in breast cancer therapy Yasemin Aksoy
09:40-10:00	Evaluation of IDH mutation in glial tumors by free DNA and oncometabolic biomarkers Huray Islekel
10:00-10:15	Multifunctional proteins affecting angiogenesis Funda Kosova
10:15-10:30	CRISPR/cas9 mediated genome editing and its potential role in personalised medicine Gulnihal Kulaksiz Erkmen
10:30-11:00	Coffee Break
11:45-12:45	Oral Presentations Chairpersons: Pınar Alkım Ulutaş - Ayşegül Çört
11:45-11:55	OP-119 Biochemical evaluation of a novel anti-cancer drug candidate, Selvi Durmuş Erim
11:55-12:05	OP-120 Investigation of anticancer potential of silicon (iv) phthalocyanine and naphthalocyanine, Burak Barut
12:05-12:15	OP-121 A new approach for targeted cancer therapy: synthesis and characterization of nanoparticle, Ümmühan Fulden Bozkaya
12:15-12:25	OP-122 Biochemical and molecular response to personalized radioligand therapy at metastatic prostate cancer, Emine Acar
12:25-12:35	OP-123 The comparison of gene expression of individuals with lower g6pd enzyme activity, Başak Günaştı
12:35-12:45	OP-124 Estimation of functional snps in aph1b gene by using computer based software tools, Tuğba Kaman
12:45-13:30	Lunch
13:30-15:00	Oral Presentations Chairpersons: Meltem Demir - Abdullah Sivrikaya
13:30-13:40	OP-125 Investigation of vaspın, visfatin, chemerin and il-18 levels in patients with migraine, Ahmet Dönder
13:40-13:50	OP-126 Investigation of copeptin/ghrelin levels in individuals with respiratory diseases, Gamze Çağatay
13:50-14:00	OP-127 The effects of diet and exercise treatment in irisin, adiponectin, interleukin-6 levels in obeses, Gülay Sezgin
14:00-14:10	OP-128 Relationship between albuminuria levels and paf-ah in patients with diabetic nephropathy, Özlem Özge Sezgin
14:10-14:20	OP-129 Transformation of white adipose tissue to brown adipose tissue: irisin and its metabolic effects, Zerrin Kutlu
14:20-14:30	OP-130 Serum hyaluronidase activity in patients with bladder cancer, Tuba Özgün
14:30-14:40	OP-131 Inflammatory response evaluation of sleep apnea, Ercan Saruhan
14:40-14:50	OP-132 Zinc analysis in multipl sklerosis (ms) patients: konya examples, Mustafa Fatih Hayırlıoğlu
14:50-15:00	OP-133 Circulating of mirna-521 and oxidant/antioxidant status after radiation in prostate cancer, Alev Kural
15:00-15:30	Coffee Break
16:15-18:00	Recombinant Protein Production in Biotechnology Chairpersons: Işıl Kurnaz - Cemile Topçu
16:15-16:35	Cloning and raising of recombinant proteins in mammalian cells Isil Kurnaz
16:35-16:55	Large scale production and purification of recombinant proteins Berna Sariyar Akbulut
16:55-17:15	The first biosimilar drug produced from cell: filgrastim Turgay Kacar
17:15-17:30	Discussion
17:30-18:00	Oral Presentations
17:30-17:40	OP-137 Evaluation of antagonistic and synergistic pair-wise antibiotic drug interactions, Kaan Yılancıoğlu
17:40-17:50	OP-138 Determination of physiological impacts of heavy metals in different crops through hydroponic studies, Elif Öztetik
17:50-18:00	OP-139 Peroxidase-like activity of magnetic porous silica microspheres and their interaction with dna, Sevim Eda Ögüt

**SCIENTIFIC PROGRAM****30 October 2018, Tuesday****PHASELIS 1-2**

09:00-10:30	The Quality of Laboratory Water and Waste Water Problem Chairpersons: Suat Hayri Küçük - Ayşegül Çört
09:00-09:20	The importance of purified water in clinical laboratory and types of laboratory water Oytun Portakal
09:20-09:40	Preparation and design of laboratory water Suat Hayri Kucuk
09:40-10:00	Verification and monitoring of purified water Enver Sarigul
10:00-10:20	Disposal of laboratory waste water Selda Murat Hocaoglu
10:20-10:30	Discussion
10:30-11:15	Chairpersons: Abdurrahman Coşkun Maximum Expected Number of Unreliable Final Patient Results, Hassan Bayat
11:15-11:45	CLOSING

OP-016

THE PROTECTIVE AND ANTIOXIDANT EFFECTS OF ASTAXANTHIN AGAINST CISPLATIN-INDUCED TOXICITY IN RATS

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OBJECTIVES: Cisplatin (Cis) is a platinum-based drug, which is used as a chemotherapeutic agent. Cis has several side effects such as ototoxicity, nephrotoxicity and neurotoxicity. Astaxanthin (Ast) is a carotenoid pigment with antioxidant and anti-inflammatory effects. The aim of this study is to determine the possible protective and antioxidant effects of astaxanthin against cisplatin-induced toxicity in rats. **MATERIALS and METHODS:** Sprague-Dawley rats were included in the study (n=32). Cis was given i.p. at a dose of 8mg/kg/day for three days. Ast group received additionally 100mg/kg/day via gavages for 10 days. Control received olive oil at the same dose. Rats were sacrificed, blood was collected for determination of BUN, creatinine, ALT, AST, hsTNI, TNF- α , IL-6 and liver, kidney and heart tissues were removed for determination of oxidative stress parameters such as malondialdehyde (MDA), glutathione (GSH) levels and myeloperoxidase (MPO) activity.

RESULTS: The BUN, creatinine, ALT, AST, hsTNI, TNF- α , IL-6 levels are (p<0.001) increased in Cis group to the control group. Cis+ast group reversed TNF- α , ALT and hsTNI levels. MDA levels were higher in liver and heart tissues in Cis group, because kidney MDA levels were not different. GSH levels in kidney tissues were different higher in Cis group (p<0.001). MPO activity, which shows inflammation, is increased in all tissues of Cis treated rats. Ast treatment reverses the effects of Cis via reducing MPO activity, because the antioxidant effects to MDA and/or GSH levels in kidney, heart and liver tissues were not changed. **CONCLUSIONS:** Our findings suggested that Cis treatment induced damage in liver, heart and kidney tissues. Inflammation is the major mechanism which can be reduced with Ast treatment. Results of oxidative stress parameters show that Cis treatment reveals with "Cisplatin resistance" with increasing GSH levels in these groups.

Keywords: : Astaxanthin, Oxidative Stress, Cisplatin, Toxicity

OP-017

EFFECTS OF GENDER AND GLUCOSE-BASED NUTRITION ON REDOX HOMEOSTASIS IN DROSOPHILA MELANOGASTER

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OBJECTIVES: Currently, *Drosophila melanogaster* has been used as a model organism in various experimental studies such as aging-lifespan, nutrition, disease models. In our study, we aimed to evaluate effects of high sucrose and protein-based nutrition on redox homeostasis in *Drosophila melanogaster* according to gender.

MATERIALS and METHODS: *Drosophila melanogaster* colonies were divided into 4 groups as female and male flies feeding with low glucose-high protein based medium and female and male flies feeding with high glucose high protein based-medium. Protein oxidation biomarkers such as protein carbonyl (PCO), dityrosin (DT), formylkynurenin (FKYN), N-formylkynurenine (NFKYN), lipid peroxidation marker lipid hydroperoxide (LHP), glyoxidative stress marker; advanced glycation end products (AGE) levels and antioxidant enzyme; Cu,Zn-superoxide dismutase activity (Cu,Zn-SOD) were analyzed by spectrophotometric or spectrofluorometric methods. **RESULTS:** Higher levels of PCO, DT, KYN, NFKYN, LHP, AGE levels and reduced activity of Cu,Zn-SOD (p<0.001) were found in flies- feeding with high glucose-protein based medium as compared to low glucose based medium. Higher oxidative damage levels and conversely, higher Cu,Zn-SOD activity were found in male flies than females (p<0.001 for each parameter). **CONCLUSIONS:** Our results shows that nutrition type plays important role in maintenance of redox homeostasis. Low oxidative damage biomarker levels were shown in females. These data represent similar result with female mammals which are more sheltered against oxidative damage than males. On the other hand, elevated activity of Cu,Zn-SOD may be considered as compensatory mechanism. Further studies need to clarify possible mechanisms and relationship between signal pathways, lifespans and oxidative damage triangle.

Keywords: Nutrition, Gender, *Drosophila melanogaster*, Redox homeostasis

OP-018

CAN AVANAFIL AND ZAPRINAST CHANGE SOME SELECTED CYTOKINE LEVELS IN OVARIETOMIZED RAT'S LIVER?

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OBJECTIVES: It was reported that postmenopausal-period, a physiological process in women, is associated with increasing bone resorption and oxidative stress due to acute estrogen-deficiency. Studies reported that phosphodiesterase-5 inhibitors positively contribute to bone-mineral-density and thickness, and decrease levels of malondialdehyde, coenzyme Q10 and 8-hydroxy-2-deoxyguanosine, which are associated with oxidative stress. We investigated the changing levels of some selected-proinflammatory cytokines and TNF- α in the liver of rats with ovariectomy, which have the same condition with postmenopausal period, and effect of Zaprinst and Avanafil (phosphodiesterase-5 inhibitors) on the experimental parameters. **MATERIALS and METHODS:** 24 albino female rats (8 months) and weighing 250-350g were used and 4 groups of equal-number were randomly assigned. First group: abdomen region (about 2cm) was opened and again closed (sahm-group). Second group: abdominal region was opened and was performed ovariectomy (OVX). Groups 3 and 4: the same procedure with OVX group was performed to them and were administered 10 mg/kg zaprinast and avanafil for 60 days, respectively. IL-1 β , IL-6, IL-8, IL-10 and TNF- α levels were measured by commercially available ELISA kits in liver of rats that were anesthetized after 60 days. **RESULTS:** IL-1 β , IL-6, IL-8 and TNF- α levels were increased in groups with OVX compared to sahm group, while they were decreased in zaprinast and especially avanafil-treated groups with OVX and were similar to sahm group values. However, this difference was only significant for IL-1 β levels (p<0.05). **CONCLUSIONS:** The data showed that zaprinast and especially avanafil decreased IL-1 β levels. This may support the opinion that phosphodiesterase-5 inhibitors inhibit bone demineralization by inhibiting oxidative stress. **Keywords:** Avanafil, phosphodiesterase-5 inhibitors, interleukin, ovariectomy, zaprinast

OP-019

DIRECT BILIRUBIN TEST OVERUSE; AN APPROACH OF RATIONAL LABORATORY USE

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OBJECTIVES: The direct bilirubin analysis is one of the most common test in clinical biochemistry laboratories. It has been requested together with total bilirubin test by clinicians. We want to investigate unnecessary use of direct bilirubin testing for the last year within the principles of rational laboratory use.

MATERIALS and METHODS: The direct bilirubin test is performed by the diazo method on the Architect c16000 (Abbott) autoanalyzer in our laboratory. We investigated the tests in which total and direct bilirubin analyses were ordered together from the patients who had a normal total bilirubin level (<1.2 mg/dL) between the days of 01.05.2017 and 30.04.2018. Besides, we searched that direct bilirubin results were higher than 0.5 mg/dL in this group.

RESULTS: The number of direct bilirubin analyses, in which total bilirubin results were between reference values, were 181,551 in the last year. Of these results only 1.58% (2,876) of direct bilirubin test were higher than reference level.

CONCLUSIONS: Unnecessary tests in clinical biochemistry laboratories lead to labor and financial loss. Direct bilirubin test orders with normal total bilirubin levels should be restricted within the framework of Rational Laboratory Practices. The mild elevations of direct bilirubin with normal total bilirubin levels are not clinically significant. Direct bilirubin should be analyzed as a reflex test in the patients with high total bilirubin levels. In addition, if the total bilirubin is normal, direct bilirubin can also be studied as a reflective testing in accordance with diagnosis. With this application, each laboratory can save cost considerably. **Keywords:** Direct Bilirubin, Rational Laboratory, Reflex Test

OP-020

EVALUATION OF SIX SIGMA WITH DIFFERENT QUALITY GOALS; NEED OF HARMONIZATION AND OTHER PROBLEMS

Murat Keleş

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OBJECTIVES: Six Sigma Methodology; is a quality management tool that focuses on process variables and provides information about process performance. This methodology is widely used in clinical laboratories to evaluate analytical process performance and traditionally combines three components: tolerance limits (total allowable error), bias and impression. However, some defects have occurred during the adaptation of this industry-based methodology to clinical laboratories.