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19-20 NOVEMBER 2022 İSTANBUL/ TURKEY
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'' BOSWELLIA SERRATA PROTECTS AGAINST OLEIC ACID INDUCED-ARDS THROUGH THE INHIBITION OF OXIDATIVE STRESS AND ALTERATIONS OF BIOMOLECULAR COMPOSITIONS ''

Uzm. Yasemin AĞAOĞLU
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Iksad Publications – 2022©

ISBN: 978-625-6380-20-2

Cover Design: İbrahim KAYA

November / 2022

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19.11.2022
Saturday /09:30-12:00

SESSION-1 HALL-1
MODERATOR: Dr. Safa ACAR

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Doç. Dr. İbrahim GÖRÜCÜ Arş. Gör. Mehmet Emin BEKİK	Inonu University	Doing Compensation Work Within The Context Of Working Times During The Covid-19 Pandemic In Turkey
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Dr. Öğretim Üyesi Müjde AKSOY	Bandırma Onyedi Eylül Üniversitesi,	A Content Analysis Of Customer Complaints Against Banks In The Covid-19 Process
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Arzu Gökçen GÖKÇEN Faruk GÜVEN	Karamanoğlu Mehmetbey Üniversitesi	Persons Residing In Isparta Obstacles To Participation In Recreational Areas
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19.11.2022
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SESSION-1 HALL-2
MODERATOR: Doç. Dr. Canan DEMİR BARUTCU

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China:14:30-17:00/ Egypt:/08:30/11:00/ Georgia:10:30-13:00/ Hungary:07:30/10:00/ India: 12:00-14:30/
Indonesia:13:30-16:00 / Iraq: 09:30-12:00 /Iran: 09:30-12:00 / Kazakhistan:12:30/15:00/
Kingdom of Saudi Arabia: 09:30-12:00 / / Lebanon: 08:30/11:00/ Malaysia:14:30/17:00
Moldova: 09:30-12:00/ Morocco: 06:30-09:00/ Nigeria: 07:30-10:00/Pakistan: 11:30-14:00/ Philippines: 14:30/17:00
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Asst. Prof. Dr.Metin YILDIZ Gönül GÖKÇAY Özge ERTÜRK Rabia YILDIZ Aylin ŞENGAN	Sakarya Üniversitesi, Kafkas Üniversitesi,	The Effect Of Religious Orientation And Fatalism On Health Belief On Human Papillomavirus Infection Knowledge And Vaccination
Esma ÖZMAYA Sevda UZUN	Karamanoğlu Mehmetbey University, Gümüşhane University	Xenophobia (Ethnocentrism) From A Mental Health Perspective And Nursing Care
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19.11.2022
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MODERATOR: Doç. Dr. Yusuf OKŞAR

Africa:08:30-11:00/ Algeria: 07:30:00-10:00/ Azerbaijan: 10:30-13:00 / Bulgaria: 08:30-11:00/ / Canada:01:30/ 04:00/ China:14:30-17:00/ Egypt:/08:30/11:00/ Georgia:10:30-13:00/ Hungary:07:30/10:00/ India: 12:00-14:30/ Indonesia:13:30-16:00 / Iraq: 09:30-12:00 /Iran: 09:30-12:00 / Kazakhistan:12:30/15:00/ Kingdom of Saudi Arabia: 09:30-12:00 / / Lebanon: 08:30/11:00/ Malaysia:14:30/17:00 Moldova: 09:30-12:00/ Morocco: 06:30-09:00/ Nigeria: 07:30-10:00/Pakistan: 11:30-14:00/ Philippines: 14:30/17:00 Portugal: 06:30/09:00/ Russia: 09:30-12:00/ Thailand:13:30/16:00 USA: 01:30-04:00/ Vietnam: 13:30-16:00

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MODERATOR: Assoc. Prof. Rahima S. Mammadova

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Iran: 09:30-12:00 / Kingdom of Saudi Arabia: 09:30-12:00 / Moldova: 09:30-12:00/
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MODERATOR: Dr. Hilal SEKİ ÖZ

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MODERATOR: Doç. Dr.Faruk KURHAN

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Mouhyadin ABDOURAHMAN HARBI Yahya MOUMIN ALI Özgür KUZUKIRAN	Çankiri Karatekin University,	Emergence Of Antibiotic Resistance In Wasterwater: Issue And Impact On Human Health.
Yahya MOUMINE ALI Mouhyadin ABDOURAHMAN HARBI Özgür KUZUKIRAN	Çankiri Karatekin University,	The Use Of Endemic Plants As Medicinal Plants In Horn Of East Africa.
Deniz YILDIZ PEHLİVAN Hamit YILDIZ	Izmir Kâtip Celebi University, Gaziantep University,	Dynamic Thiole/Disulfite Homeostasis In Chronic Diseases
Doç. Dr.Faruk KURHAN	Van Yuzuncu Yil University	The Relationship Between Awareness Level And Depression Anxiety In Patients Diagnosed With Lymphoma
Doç. Dr.Faruk KURHAN	Van Yuzuncu Yil University	Investigation Of Sociodemographic Data Of Patients Admitted To The Emergency Service By Suicide Attempt

19.11.2022
Saturday /12:30-15:00

SESSION-2 HALL-3
MODERATOR: Dr. Dt. Cafer ATAŞ

Africa:11:30-14:00/ Algeria: 10:30-13:00/ Azerbaijan: 13:30-16:00 / Bulgaria: 11:30-14:00/ Canada:04:30/07:00/ China:17:30-20:00/ Egypt:11:30/14:00/Georgia: 13:30-16:00/ Hungary:10:30/13:00/India: 15:00-17:30/Indonesia:16:30-19:00/ Iraq: 12:30-15:00/ Iran: 12:30-15:00 Kazakhistan:15:30/18:00/ Kingdom of Saudi Arabia: 12:30-15:00 / Lebanon: 11:30/14:00/ Malaysia:17:30/20:00 Moldova: 11:30-14:00/ Morocco: 09:30-12:00Nigeria: 10:30-13:00/Pakistan: 14:30-17:00/ Philippines: 17:30/20:00 / Portugal:09:30/12:00 Russia: 12:30-15:00/ Thailand:16:30/19:00/ USA: 04:30-07:00/ Vietnam: 16:30-19:00

AUTHORS	AFFILIATION	TOPIC TITLE
Gulbahar ISIK-OZKOL	Istanbul University,	Approach Of Indivuduals To Dental Implant Treatment
Tuğba DOST, Nuran TOSUN,	Karamanoğlu Mehmetbey Üniversitesi, Hasan Kalyoncu Üniversitesi,	Güvenli Subcutan Enjeksiyon Uygulamalari
Tuğba DOST, Nuran TOSUN,		Yatan Hastalarda Güvenli Çevrenin Sağlanmasi
P.H.Necefguliyeva, M.A.Shukurov	Azerbaijan Medical University,	The Results Of Laparoscopic Adhesiolysis Surgery Performed At The Azerbaijan Medical University
Emine Selen HOYRAZ Remziye AKARSU	Biruni Üniversitesi,	Example Of That Helps Disadvantaged Individuals: Adaptive Chopping Board
Şule ŞİMŞEK Nesrin YAĞCI	Pamukkale Üniversitesi,	Effect Of Pelvic Pain Characteristics On Daily Activities
Şule ŞİMŞEK Nesrin YAĞCI	Pamukkale Üniversitesi,	Smoking And Physical Activity Level In Middle-Aged Men
Dr. Çağrı ESEN	Nevşehir Hacı Bektaş Veli University,	Short Dental Implants: A Reliable Solution For Vertically Insufficient Bone Crests?
Ömer ÜLKER	Nevşehir Hacı Bektaş Veli University,	Current Biomaterials And Stem Cell Applications Used In The Treatment Of Alveolar Bone Defects
Dr. Dt. Cafer ATAŞ	Sağlık Bilimleri Üniversitesi Çocuk Diş Kliniği	Behavior Guidance Of Pediatric Patients In Dental Treatment
Dr. Dt. Cafer ATAŞ	Sağlık Bilimleri Üniversitesi Çocuk Diş Kliniği	Hall Technique In Pediatric Dentistry

19.11.2022
Saturday / 12:30-15:00

SESSION-2 HALL-4
MODERATOR: Doç. Dr. İsa KALAYCI

Africa:11:30-14:00/ Algeria: 10:30-13:00/ Azerbaijan: 13:30-16:00 / Bulgaria: 11:30-14:00/ Canada:04:30/07:00/ China:17:30-20:00/ Egypt:11:30/14:00/Georgia: 13:30-16:00/ Hungary:10:30/13:00/India: 15:00-17:30/Indonesia:16:30-19:00/ Iraq: 12:30-15:00/ Iran: 12:30-15:00 Kazakhistan:15:30/18:00/ Kingdom of Saudi Arabia: 12:30-15:00 / Lebanon: 11:30/14:00/ Malaysia:17:30/20:00 Moldova: 11:30-14:00/ Morocco: 09:30-12:00Nigeria: 10:30-13:00/Pakistan: 14:30-17:00/ Philippines: 17:30/20:00 / Portugal:09:30/12:00 Russia: 12:30-15:00/ Thailand:16:30/19:00/ USA: 04:30-07:00/ Vietnam: 16:30-19:00

AUTHORS	AFFILIATION	TOPIC TITLE
Dr. Öğr. Üyesi Mehmet Akif BALKAYA Doç. Dr. Bahadır Cahit TOSUN	Necmettin Erbakan University, Selçuk University,	Identity Consturction In The Liminal Space Of Cultures In Anita Desai's Clear Light Of Day
Assist. Prof. Dr.Ramadan SANIVAR	Kıbrıs İlim Üniversitesi	Reasons For Compliance With Law In The Turkish Penal Code
Caner AYDEYER	Hatay Mustafa Kemal Üniversitesi,	İşgalden Kurtuluşa İngilizce Basinda Antep
Bahattin DEMİRTAŞ	Ankara Hacı Bayram Veli Üniversitesi,	Turkey-West Germany Relations And In This Framework, President Celal Bayar 'S 1958 Travel To West Germany
Bahattin DEMİRTAŞ	Ankara Hacı Bayram Veli Üniversitesi,	Re-Restoring Turkey-Spania Friendship: Meeting Prime Minister Adnan Menderes And General Franco
Doç. Dr. Mikail KOLUTEK	Hatay Mustafa Kemal University,	According To A 1924 Report, Samsun-Bafra-Çarşamba Railway Construction Project
Doç. Dr. Mikail KOLUTEK	Hatay Mustafa Kemal University,	Critical Analysis Of The News About The Western Front In The Gaye-İ MiLliYe Newspaper
Doç. Dr. İsa KALAYCI	Hatay Mustafa Kemal Üniversitesi	A Patriotic Arabian: Uceymi Sadun Pasha
Doç. Dr. İsa KALAYCI	Hatay Mustafa Kemal Üniversitesi	Example Of A Diplomatic War: The Chanakkale Affair (According To The American Press)

19.11.2022
Saturday / 12:30-15:00

SESSION-2 HALL-5
MODERATOR: Doç. Dr. Yakup ASLAN

Africa:11:30-14:00/ Algeria: 10:30-13:00/ Azerbaijan: 13:30-16:00 / Bulgaria: 11:30-14:00/ Canada:04:30/07:00/ China:17:30-20:00/ Egypt:11:30/14:00/Georgia: 13:30-16:00/ Hungary:10:30/13:00/India: 15:00-17:30/Indonesia:16:30-19:00/ Iraq: 12:30-15:00/ Iran: 12:30-15:00 Kazakhistan:15:30/18:00/ Kingdom of Saudi Arabia: 12:30-15:00 / Lebanon: 11:30/14:00/ Malaysia:17:30/20:00 Moldova: 11:30-14:00/ Morocco: 09:30-12:00Nigeria: 10:30-13:00/Pakistan: 14:30-17:00/ Philippines: 17:30/20:00 / Portugal:09:30/12:00 Russia: 12:30-15:00/ Thailand:16:30/19:00/ USA: 04:30-07:00/ Vietnam: 16:30-19:00

AUTHORS	AFFILIATION	TOPIC TITLE
Seçkin ÇELİKELLİ Doç.Dr. Haldun NARMANLIOĞLU	Marmara University,	Getting The News From Algorithm: The Attitude Of Turkish Users Towards Facebook's Algorithm Of News Feed
Doktora öğrencisi,Meliha Elif GÜVEN Prof. Dr. Kahraman ÇATI Doktora Öğrencisi, Ebru OSKALOĞLU	İnönü Üniversitesi,	Brand Image, Brand Loyalty, And Country Of Origin Are Evaluated In The Context Of Demographic Factors In Smart Phone Use
Arş. Gör. Dr. Aslı KÖSEOĞLU	Ataturk University,	Commercials In The Context Of Gender
DR. CHUKWUEMEKA G. EME	National Open University of Nigeria	Knowledge Management And Its Importance In Nigeria's Public And Private Business Enterprises
DR. CHUKWUEMEKA G. EME	National Open University of Nigeria	Multinational Corporations And Their Effects On Nigeria's Economic Growth And Development
Tleubayeva Nazerke Dalelkhankyzy	Kazak Ulusal Üniversitesi	Sosyal Hizmetler: Birleşik Platform Sorunu
Kaldybek Symbat Tolegenkyzy Karimova Zhanna Karimovna	Al-Farabi Kazak Ulusal Üniversitesi,	Kazak Medya Alaninda Cinsiyet Temsili: Ortaya Çikiş Ve Modern Eğilimler
Doç. Dr. Yakup ASLAN	Muş Alparslan University,	Key Audit Issues In The Perspective Of International Accounting Standards
Doç. Dr. Yakup ASLAN	Muş Alparslan University,	Accounting Of Renewable Energy Sources

19.11.2022
Saturday / 15:30-18:00

SESSION-3 HALL-1
MODERATOR: Dr. Bahar ALTUNOK

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhistan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	Topic Title
Eslem KUZU ŞAHİN Gönenç DURAN Prof. Dr. Murat YAZICI	Bursa Uludağ University,	Self-Healing With The Vascular System
Aslıhan HAYIRKUŞ, Eren ŞAHİN, Güray ÇAKIR, Prof. Dr. Murat YAZICI	Bursa Uludağ University,	Lightweight Design And Finite Element Analysis Of Continuous Fiber Reinforced Thermoplastic Composite Heavy Vehicle Suspension System Torque Rod
Talha Enes GÜMÜŞ Selçuk EMİROĞLU	Sakarya University,	Optimal Reactive Power Dispatch For Minimization Of Real Power Losses
Kenan AYTEN Murat Mustafa SAVRUN	Osmaniye Korkut Ata University, Adana Alparslan Türkeş Science and Technology University,	Performance Benchmarking Of Dc Electric Spring Topologies For Power Quality In Dc Micro Grid
Feza Geyikçi Assoc.Prof.Dr.Başak MESCİ OKTAY	Ondokuz Mayis University,	Malahite Green Removal Of Filter Coffee Waste With Product Of Pyrolysis
Feza Geyikçi Assoc.Prof.Dr.Başak MESCİ OKTAY	Ondokuz Mayis University,	Research Of Environmental Semi-Synthetic Polymers
Doç. Dr. Emre İsa ALBAK Emre YURTEMRE M. Raşit BİNİCİ Birsel ÇAVUŞOLU	Bursa Uludağ University, Selsa Özel Makine İmalatı ve Yan Sanayi Ltd. Şti.,	Deep Hole Drilling Machine Body Weight Reduction Study
Alp Eren ŞAHİN Tamer SINMAZÇELİK	Kocaeli University,	Effect Of Annealing And Hydrothermal Aging Process On The Mechanical Strength Of Short Glass Fiber Reinforced Pps Composites
Tarık SEV	University Of Gaziantep	Determining The Distance And Position Of Moving And Stationary Targets With Gps And Satellite Data And Adjusting The Firing Ranges Of Military Weapon With Image Process Techniques
Akın ODABAŞI Yusuf ER Ümmühan KAYA Hülya KAFTELEN-ODABAŞI	Fırat University,	Production And Microstructural Characterization Of Tic Reinforced Aluminium-Silicium Based Composites
Kadriye KUTLAY Nazan TAŞ Nejla DEĞİRMENCİ	Bursa Teknik Üniversitesi, Berteks Tekstil Ar-Ge Merkezi,	Farkli Teknik İplikler Kullanilarak İplik-Kumaş Tasarimi Ve Özelliklerinin İncelenmesi

19.11.2022
Saturday / 15:30-18:00

SESSION-3 HALL-2
MODERATOR: Dr. Pelin BARAN

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhistan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
İlknur YILDIZ, Lalehan ÖZALP, Safiye SAĞ ERDEM Elvy Greg Bienvenu Kebila MOUTSİNGA, Özkan DANIŞ, Ayşe OGAN	Marmara University,	Antioxidant And Anti-Collagenase Activity Of St. John's Wort (Hypericum Perforatum L.)
Burcu ALTAŞ Soner ÇUBUK	Marmara University,	Development Of A New Coumarin Based Hypochlorite Determination Method
Dr.Onur İNAN Kazım KUMAŞ Ali Özhan AKYÜZ	Burdur Mehmet Akif Ersoy University,	Determination Of Carbon Footprint: Nevsehir Province
Dr.Onur İNAN Kazım KUMAŞ Ali Özhan AKYÜZ	Burdur Mehmet Akif Ersoy University,	Variation Of Energy Potential Due To Banana Waste By Years
Doç. Dr.Bengü TÜRKYILMAZ ÜNAL Hüseyin TÜRKER Cemil İŞLEK	Nigde Omer Halisdemir University,	The Effects Of Exogenous Sa And Ja Treatments On Early Seedling Development Of In Vitro Grown Carrot
Kübra KÖŞE KAYA Dr. Salih ÖZBAY	Sivas University	Evaluation Of The Performances Of Tnt, Rdx And Cl-20 By Various Decomposition Principles
Yüksek Lisans Öğrencisi, Elif AKBULUT Doç. Dr., Mustafa KOCAKAYA Doktora Öğrencisi, DERYA GÜL Dr. ZEKİYE KOCAKAYA Prof. Dr., DİLEK PANDIR	Yozgat Bozok Üniversitesi, Kayseri Üniversitesi	Cladonia Furcata On L929 Cell Line Determination Of Proliferative Effect
Yüksek Lisans Öğrencisi, Elif AKBULUT Doç. Dr., Mustafa KOCAKAYA	Yozgat Bozok Üniversitesi,	Protective Effects Of Cladonia Furcata On Mda-Mb-231 Breast Cancer Cell Line
Dr. Öğr. Üye. Nihal SIMSEK OZEK Dr. Öğr. Üye. Ferhunde AYSIN Dr. Öğr. Üye. Kübra KOÇ	Ataturk University,	Boswellia Serrata Protects Against Oleic Acid Induced-Ards Through The Inhibition Of Oxidative Stress And Alterations Of Biomolecular Compositions
Dr. Pelin BARAN	Uşak University,	A Descriptive Research On Bozdağ/Ödemiş-Izmir Population Of Papaver Pilosum Subsp. Spicatum (Papaveraceae) Endemic To Türkiye

19.11.2022
Saturday / 15:30-18:00

SESSION-3 HALL-3
MODERATOR: Uzm. Yasemin AĞAOĞLU

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhistan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
Murat BALCI Aykut MERT Kardelen İNCEOĞLU	İstanbul Aydın University,	Evaluation Of The Accessibility Of Museums By Disabled Individuals
Dr.Seher EROL Nilgün BEK Hikmet KOCAMAN Halil ALKAN	Ankara University Lokman Hekim University Karamanoğlu Mehmetbey University Muş Alparslan University	Evaluation Of The Relationship Between Dynamic And Static Plantar Pressure Distribution Parameters In Hearing-Impaired Children –Pilot Study
Moses Adeolu AGOI Oluwakemi Racheal OSHINOWO	Lagos State University of Education,	The Effects Of Internet Addiction On Students' Academic Performance And The Intrinsic Implications On Educational Management"
ABIR BOUNAAMA ZEGHBIB FATIMA ZOHRA	20 Aout 1955 University,	On The Existence Results For A Couples System Of Wave Problem With Source Terms
ABIR BOUNAAMA	20 Aout 1955 University	ON Finite Time Blow Up Of Solutions For A Class Of A Hyperbolic Equations With Source Terms
Peter Olubunmi Olubiyo, Lydia Mercy Olubiyo,	Adeyemi College Education, Ondo, Nigeria	Knowledge Management In Academic Libraries In Nigerian Universities: Way Forward
Rico Paulo G. Tolentino Maricel N. Valdez Evangeline G. Pangan	Dip School Principal II Department of Education, Bulacan	Triangulated Assessment On Modular Learning Modality Implementation
Sedat ALTINTAŞ Sabri SİDEKLİ	Muğla Sıtkı Koçman University,	Adaptations Of Primary School Teachers In Instruction During Pandemic
Sabri SİDEKLİ Sedat ALTINTAŞ Meral ASLAN ÇELİK	Muğla Sıtkı Koçman University,	Being A Parent Of A First Grader During Distance Education
Rashida Khassenova Assylkhanovna	L.N.Gumilyov Eurasian National University Astana,	How To Encourage Students To Strengthen Their Researching Skills By Practicing Active Reading Strategies?
Belgin ÖZER Ali YÜKSEK	Gaziantep University,	Some Results In Nearly Gorenstein Numerical Semigroup Of 6 Generators With Type 5
Ali YÜKSEK Belgin ÖZER	Gaziantep University,	Some Results In Nearly Gorenstein Numerical Semigroup Of 6 Generators With Type Most 5

19.11.2022
Saturday / 15:30-18:00

SESSION-3 HALL-4
MODERATOR: Dr. İSMAİL ERGEN

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhistan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
Selin DURAN ERGİN Semiha KARTAL	Trakya University,	Embodied Energy In The Context Of The Life Cycle
Fatma Seçil KARAYEL	Kütahya Dumlupınar Üniversitesi,	Decoring Textile Surfaces With Flat Machine Sewing
Ör. Gör. Necla TOSMUR	Harran Üniversitesi	Sanatta Savaş Betimlemeleri
Doç. Dr. Hilal Tuğba ÖRMECİOĞLU	Akdeniz University,	Usage Of Innovative Technologies In Education: Augmented Reality, Virtual Reality, And Lidar3d
Doç. Dr. Hilal Tuğba ÖRMECİOĞLU İkbal ERBAŞ	Akdeniz University,	Problems Of Construction Education In Architecture: The Case Of Akdeniz University
İlhami DİKSOY Münevver ASLAN	Kütahya University Samsun Provincial Directorate of National Education, R&D Unit	Semiotic Examination Of Images Used In Poster Design; Shigeo Fukuda Example
Aleyna GÜNDOĞDU Asena SOYLUK	Gazi University,	Experiment Of An Architectural Approach To The Function Of The Structure Within The Scope Of Nuclear Power Plants
Dr. İSMAİL ERGEN	Istinye University,	The Effect Of Artificial Intelligence Bringing A Multidisciplinary Design Approach On Game Design
Dr. İSMAİL ERGEN	Istinye University,	The Effect Of Human-Centered Design On Game Design

19.11.2022
Saturday / 15:30-18:00

SESSION-3 HALL-5
MODERATOR: Prof. Dr. Alaeddin BOBAT

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhistan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
Prof. Dr. Alaeddin BOBAT	Kocaeli Üniversitesi	Unlicensed Electricity Generation In Scope Of The Latest Regulations
Prof. Dr. Alaeddin BOBAT	Kocaeli Üniversitesi	Amendments In The Eia Regulation For 2022 Problems And Questions
Muhammed Ernur AKINER	Akdeniz University,	A Comparative Analysis Of Turkey And European Countries For Examining The Effects Of Population Growth On Energy Consumption And Turkey's Primary Energy Resource Diversification Strategies
Ömer Faruk GÜNGÖR Necmettin ÜNAL Ceyhan ÖZBEYAZ	Bolu Abant Izzet Baysal University, Ankara University, Ankara University,	Preliminary Study In The Process Of Obtaining Bafra $_{X}$ Akkaraman B $_{1}$ Crossbreeds
Ömer Faruk GÜNGÖR	Bolu Abant Izzet Baysal University,	The Effect Of The Lumbar Vertebrae Number On The Meat Quality Traits
Elif EKİZ Fatih ÖZ	Atatürk University,	An Alternative Source: Cultured Meat
Hasan Kıvanç YEŞİLTAŞ Çağatayhan Bekir ERSÜ	Cukurova University,	Environmental Problems Affecting Turkish Wetlands
Hasan Kıvanç YEŞİLTAŞ Çağatayhan Bekir ERSÜ	Cukurova University,	Wetland Policies And Wetland Management Of Turkey
Silviya Ivanova, Tsonka Odjakova, Daniela Miteva, Eli Kostadinova, Pavel Todorov, Krasimir Dimov, Kamelia Loginovska, Atanaska Zgurova, Ayten Solac, Nadya Ninova- Nikolova	Agricultural Academy, Sofia, Bulgaria	Effect Of Thyme Supplementation On The Physicochemical Composition Of Cow's Milk And Shelf Life Extension
Silviya Ivanova, Daniela Miteva, Tsonka Odjakova, Eli Kostadinova, Pavel Todorov, Krasimir Dimov, Kamelia Loginovska, Atanaska Zgurova, Ayten Solac, Nadya Ninova- Nikolova	Agricultural Academy, Sofia,	Effect Of Papermint Supplementation On The Physicochemical Composition Of Cow's Milk And Shelf Life Extension

Silviya Ivanova, Tsonka Odjakova, Daniela Miteva, Eli Kostadinova, Pavel Todorov, Krasimir Dimov, Kamelia Loginovska, Atanaska Zgurova, Ayten Solac, Nadya Ninova- Nikolova	**Bulgaria**	**Effect Of Turmeric Supplementation On The Physicochemical Composition Of Cow's Milk And Shelf Life Extension**

20.11.2022
Sunday/ 09:30-12:00

SESSION-1 HALL-1
MODERATOR: Dr. İlyas ERPAY

Africa:08:30-11:00/ Algeria: 07:30:00-10:00/ Azerbaijan: 10:30-13:00 / Bulgaria: 08:30-11:00/ / Canada:01:30/ 04:00/ China:14:30-17:00/ Egypt:/08:30/11:00/ Georgia:10:30-13:00/ Hungary:07:30/10:00/ India: 12:00-14:30/ Indonesia:13:30-16:00 / Iraq: 09:30-12:00 /Iran: 09:30-12:00 / Kazakhistan:12:30/15:00/ Kingdom of Saudi Arabia: 09:30-12:00 / / Lebanon: 08:30/11:00/ Malaysia:14:30/17:00 Moldova: 09:30-12:00/ Morocco: 06:30-09:00/ Nigeria: 07:30-10:00/Pakistan: 11:30-14:00/ Philippines: 14:30/17:00 Portugal: 06:30/09:00/ Russia: 09:30-12:00/ Thailand:13:30/16:00 USA: 01:30-04:00/ Vietnam: 13:30-16:00

AUTHORS	AFFILIATION	TOPIC TITLE
Ananda Majumdar	University Of Alberta -	Preserve Water: Preserve Sustainability
Salah Bezari, Mohamed Lebbi, Asma Adda , Azzedine Boutelhig	Uraer, University Of Medea, Medea 26000, Algeria	Numerıcal Investıgatıon Of Natural Convectıon In Agricultural Greenhouse
Akhrif, F ., Ziri, R ., El Qadmi, I., Abid, N ., Brhadda, N.	Ibn Tofail University,	Effect Of The Conditions Of Culture On Germination Of The Tomato (Lycopersicum Esculentum (L.)
Vina Puspita Dewi , Hari Kaskoyo Indra Gumay Febryano, Christine Wulandari, Susni Herwanti, Yulia Rahma Fitriana, Novriyanti, Dian Iswandaru, Arif Darmawan	University Of Lampung	Farmers Participation Level In Community Forest Management In The Batutegi Kph Area
T.Shalini, M.Himajanusha		Agricultural Engineering Planning Of Aerophonics Farming
Ouassila Riouchi, Ali Skalli, Mustapha Akodad, Abdelmajid Moumen, Ghizlane Azizi, Hanane Ait Hmeid, Mourad Baghour.	Mohammed 1st University,	The Effects Of Environmental Factors On Water Quality And Phytoplankton Communities.
Dr.Soumia Mouffouk, Dr.Chaima Mouffouk And Prof. Hamada Haba	Université De Batna-1,	Biochemical Properties Of Crude Extract Prepared From The Algerian Plant Nonea Vesicaria
Endri LISNAWATI Indra Gumay FEBRYANO Gunardi Djoko WINARNO Samsul BAKRI Yulia Rahma FITRIANA	University Lampung	Attractiveness Of Mangrove Tourism In Sriminosari Village, Lampung, Indonesia
Emad H. E. Yasin, Khaled A. E. Eisawi, Kornél Czimber	University Of Khartoum, University Of Sopron, Northwest A&Amp;F University,	Trees Species Composition, Diversity, Forest Stand Structure And Regeneration Status In Tozi Reserved Forest, Sinnar State, Sudan
Manal. A. Khiry; Emad. H. E. Yasin	University Of Khartoum University Of Sopron,	Ghg Estimation From Forest Fire: A Comparison Of Forest Burned Area Using Modis 61a1 And Sentinel-2 Satellite Images, Savannah Dryland Region, Sudan
Zaid Tahseen Abdullah, Ziad Shakeeb A. Sarraf	University Of Mosul, Mosul, Iraq	Design Optimization And Vibrational Characteristic Of Ultrasonic Horn For Welding
Dr. Kamran Akhbari	University of Tehran	CuO@HKUST-1 nanokompozitlerinin Antibakteriyel Aktivitesi

20.11.2022
Sunday/ 09:30-12:00

SESSION-1 HALL-2
MODERATOR: Prof. Dr. Dr. Morakeng Edward Kenneth Lebaka

Africa:08:30-11:00/ Algeria: 07:30:00-10:00/ Azerbaijan: 10:30-13:00 / Bulgaria: 08:30-11:00/ / Canada:01:30/ 04:00/
China:14:30-17:00/ Egypt:/08:30/11:00/ Georgia:10:30-13:00/ Hungary:07:30/10:00/ India: 12:00-14:30/
Indonesia:13:30-16:00 / Iraq: 09:30-12:00 /Iran: 09:30-12:00 / Kazakhistan:12:30/15:00/
Kingdom of Saudi Arabia: 09:30-12:00 / / Lebanon: 08:30/11:00/ Malaysia:14:30/17:00
Moldova: 09:30-12:00/ Morocco: 06:30-09:00/ Nigeria: 07:30-10:00/Pakistan: 11:30-14:00/ Philippines: 14:30/17:00
Portugal: 06:30/09:00/ Russia: 09:30-12:00/ Thailand:13:30/16:00
USA: 01:30-04:00/ Vietnam: 13:30-16:00

AUTHORS	AFFILIATION	TOPIC TITLE
Associate Professor, VICTORIA ROCACIUC,	Institute Of Cultural Heritage Of MC, Chisinau, Republic Of Moldova	Illustrations To Sketches, Short Stories And Novels In The Creation Of Moldavian Artist Ilia Bogdesco
Assistant Professor Maria Nasr	University Of Balamand/ Lebanon	Culinary Translation: Cultural Constraints And Translation Techniques.
Irina Mikhailovna Basovets	Minsk State Linguistic University,	Deauthorization Structures As Tools Of Vague Sources In Newspaper Discourse
Paula Topolko Hela Perišić Suzana Bartolić Ivana Salopek Čubrić	University Of Zagreb Faculty Of Textile Technology,	Fashion Journalism: Approach To Journal And Fashion Blogs Analysis
Prof. Dr. Dr. Morakeng Edward Kenneth Lebaka	University Of Zululand	Indigenous Bapedi Music As Both An Expression And A Source Of Pleasure.

20.11.2022
Sunday/ 09:30-12:00

SESSION-1 HALL -3
MODERATOR: Dr. Fakhar Ud Din

Africa:08:30-11:00/ Algeria: 07:30:00-10:00/ Azerbaijan: 10:30-13:00 / Bulgaria: 08:30-11:00/ / Canada:01:30/ 04:00/ China:14:30-17:00/ Egypt:/08:30/11:00/ Georgia:10:30-13:00/ Hungary:07:30/10:00/ India: 12:00-14:30/ Indonesia:13:30-16:00 / Iraq: 09:30-12:00 /Iran: 09:30-12:00 / Kazakhistan:12:30/15:00/ Kingdom of Saudi Arabia: 09:30-12:00 / / Lebanon: 08:30/11:00/ Malaysia:14:30/17:00 Moldova: 09:30-12:00/ Morocco: 06:30-09:00/ Nigeria: 07:30-10:00/Pakistan: 11:30-14:00/ Philippines: 14:30/17:00 Portugal: 06:30/09:00/ Russia: 09:30-12:00/ Thailand:13:30/16:00 USA: 01:30-04:00/ Vietnam: 13:30-16:00

AUTHORS	AFFILIATION	TOPIC TITLE
Ezhilvanan Mani , Kannadasan Karuppaiah , Vinoth Raman R.C.Karthik	Tagore Medical College And Hospital, Adhiparasakthi Institute Of Medical Sciences And Research, Imam Abdulrahman Bin Faisal University,	Statistical Models For Predicting The Expected Time Of Diabetes Mellitus Using Exponentiated Gamma Distribution
Woldeab, D. Henos, E. Tiruwork, T.	Bahir Dar University, Wolaita Sodo University,	Valuing Of Education And Its Implications In University Undergraduate Students' Learning
E. Karthikeyan Binoy Varghese Cheriyan R. Velmurugan Srinivasan Sivannan	Saveetha College Of Pharmacy, Tvm College Of Pharmacy,	Formulation And Evaluation Of Gastro Retentive Hypolipidemic Agent
Professor Willy (Wei) Liu, Professor E.K. Park,	School Of Science &Amp; Technology At Ggc, Usa, N.C. Central University, Usa,	A Long-Term Solutions For Universal E-Healthcare
Prof. Dr. Nana Jincharadze,	European University,	Sepsis Of Newborn And Function Of Some Endocrine System
K.R.Padma K.R.Don	(Women's) University, Bharath University,	Role Of Hanta Virus Outbreaks In Human Communities
Ozoemena Emmanuel Eje.,Chimeremnma Victory Ogbonna, Chinekwu Samson Onoyima , Ikenna Austin Ugoh	University Of Nigeria,	Chitosan Nano-Composites Enhance Wound Healing In Diabetic Patient
Sidra Bashir, Dr Fakhar Ud Din	Quaid-I-Azam University Islamabad Pakistan	Passive Targeting Of Cutaneous Leishmaniasis With Nitazoxanide And Quercetin Co-Loaded Nanotransfersomal Gel
Muhammad Moneeb Khan, Dr. Fakhar Ud Din	Quaid-I-Azam University Islamabad Pakistan	Statistically Optimized Co-Loaded Rifampicin And Pentamidine Polymeric Nanoparticles For Passive Targeting Of Cutaneous Leishmaniasis

20.11.2022
Sunday/ 12:30-15:00

SESSION-2 HALL-1
MODERATOR: Dr. Abdullah Sethar

Africa:11:30-14:00/ Algeria: 10:30-13:00/ Azerbaijan: 13:30-16:00 / Bulgaria: 11:30-14:00/ Canada:04:30/07:00/ China:17:30-20:00/ Egypt:11:30/14:00/Georgia: 13:30-16:00/ Hungary:10:30/13:00/India: 15:00-17:30/Indonesia:16:30-19:00/ Iraq: 12:30-15:00/ Iran: 12:30-15:00 Kazakhistan:15:30/18:00/ Kingdom of Saudi Arabia: 12:30-15:00 / Lebanon: 11:30/14:00/ Malaysia:17:30/20:00 Moldova: 11:30-14:00/ Morocco: 09:30-12:00Nigeria: 10:30-13:00/Pakistan: 14:30-17:00/ Philippines: 17:30/20:00 / Portugal:09:30/12:00 Russia: 12:30-15:00/ Thailand:16:30/19:00/ USA: 04:30-07:00/ Vietnam: 16:30-19:00

AUTHORS	AFFILIATION	TOPIC TITLE
Anitha. RAnd B.Asha	Bharathi Women's College,	Analysis Of Root Exudates Of Tagetus Erecta L. Used In The Control Of Soil Nematodes.
Bejaoui Safa, Ghribi Feriel , Chetoui Imene, Trabelsi Wafa, Soudani Nejla	University Of Tunis El Manar University Of Carthage	Cobalt Chloride Disrupt The Redox Status Of Carcinus Aestuarii Organs
Bejaoui Safa, Chetoui Imene, Ghribi Feriel, Fouzai Chaima, Mili Sami, Soudani Nejla	University Of Tunis El Manar University Of Carthage	Kinetic Freezing Condition Decreased The Nutritional Quality Of Mytilus Galloprovincialis
Ekundayo T. AREH A , Olubunmi ATOLANI B , Learnmore KAMBIZI	Confluence University	In Silico Evaluation Of The Antimalarial Potential Of The Phytoconstituents Of The Azadirachta Indica Plant
Phd, Md, Spec. Biljana Ilkovska Phd, Md, Spec. Bisera Kotevska Trifunova	''Tokuda Hospital'' – Sofia, Bulgaria.	Increased Human Epididymis Protein 4 Values In Different Age Groups Of Patients In Bitola, North Macedonia
Sadia Afsheen , Ayesha Amin, Humaira Altaf, Muhammad Bilal, Nasir Rasool	Government College University Faisalabad,	Synthesis, Anti-Bacterial Activities N-(4-Bromophenyl)Furan-2-Carboxamides And Validation Via Docking Activities
Gulraiz Ahmad , Nasir Rasool	Government College University,	Design And Synthesis Of 5-Aryl-N-(Pyrazin-2-Yl)Thiophene-2-Carboxamides Via Suzuki Reactions, Their Electronic And Nonlinear Optical Properties Through Computational Approaches
Assistant Professor Dr. Rozina Khattak	Women University,	Photocatalytic Effect Of Sliver On The Degradation Of Malachite Green By Persulfate In Aqueous Medium
Dr. MUHAMMAD TAYYAB HAMNA SHAHID	University Of Veterinary And Animal Sciences,	Utilization Of Agricultural Waste For The Production Of Protease From Bacillus Subtilis R5 And Its Application In Detergent And Leather Industry
Mamoon Ur Rasheed Syed Ali Raza Naqvi	Government College University, Faisalabad 38040, Pakistan;	Anti-Diabetic And Cytotoxic Evaluation Of P. Stewartii Hf. Plant Phytochemical Extracts
Dr. Abdullah Sethar	University Of Reading Whiteknights Campus	Assembly Of Arenavirus An Ultrastructural Perspective

20.11.2022
Sunday/ 12:30-15:00

SESSION-2 HALL-2
MODERATOR: Prof. Dr. Zine El Abidine RAHMOUNI

Africa:11:30-14:00/ Algeria: 10:30-13:00/ Azerbaijan: 13:30-16:00 / Bulgaria: 11:30-14:00/ Canada:04:30/07:00/ China:17:30-20:00/ Egypt:11:30/14:00/Georgia: 13:30-16:00/ Hungary:10:30/13:00/India: 15:00-17:30/Indonesia:16:30-19:00/ Iraq: 12:30-15:00/ Iran: 12:30-15:00 Kazakhistan:15:30/18:00/ Kingdom of Saudi Arabia: 12:30-15:00 / Lebanon: 11:30/14:00/ Malaysia:17:30/20:00 Moldova: 11:30-14:00/ Morocco: 09:30-12:00Nigeria: 10:30-13:00/Pakistan: 14:30-17:00/ Philippines: 17:30/20:00 / Portugal:09:30/12:00 Russia: 12:30-15:00/ Thailand:16:30/19:00/ USA: 04:30-07:00/ Vietnam: 16:30-19:00

AUTHORS	AFFILIATION	TOPIC TITLE
Zameer Ali S Shruthi Shree R	Bannari Amman Institute Of Technology, India	Fall Detection Using Iot
Assistant Professor, Vaibhav Kant Singh	Central University,	Backpropagation Algorithm Of Ann
1mustapha Aliyu., 1abdulkadir Mohammed, abdullahi Mohammed Hassan & 1zekeri Salisu	Federal University Of Technology Minna	Assessment Of Safety Precaution And Risk Management Among Roadside Arc Welders In Minna Metropolis
Benyahia Amar , Ana Mafalda Matos	University Of Porto (Feup),	Sustainable Recycling Of Marble Dust As Supplementary Cementitious Materials In Self-Compacting Repair Mortar
Zineb Elaboudi		The Impact Of Radionuclides On The Environment And Living Beings And Remediation Techniques : Review
Oussama Benmerabet, Salah Messioud	Mohamed Seddik Ben Yahia University Of Jijel,	Soil Reinforcement Technique By Rigid Inclusions: Principle And Applications
Maryam Anwar, Kanwal Shabbier, Safiullah Khan, Mubashar Rehman	*Quaid I Azam University*	Xanthan Gum And Polyvinyl Pyrrolidone Based Hydrophilic Matrix For Controlled Delivery Of 5fu.
Haytham Bouzida, Benmesbah Smail	Ibn Khaldoun University Of Tiaret,	Effect Of Ties Configuration On The Behavior Of Concrete Under Compression
Prof. Dr. Zine El.Abidine Rahmouni Dr.Nadia Tebbal Dr.Mekki Maza Dr. Messaouda Belouadah	M'sila University,	A Study Between The Literature And Laboratory Experiments Of Characteristics Of Mortar Formed By Calcined Kaolin
Dr.Nadia Tebbal Dr. Mekki Maza Prof. Dr. Zine El Abidine Rahmouni Messaouda Belouadah	M'sila University,	Recovery Of Aluminum Wastes In Building Materials: A Review
Dr.Mekki Maza Dr.Nadia Tebbal Prof. Dr. Zine El Abidine Rahmouni	M'sila University,	Eco-Mortars Properties Formulated By Polystyrene And Mixed Sand

20.11.2022
Sunday / 15:30-18:00

SESSION-3 HALL-1
MODERATOR: Dr. Bahar ALTUNOK

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhistan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
Swarnava Kundu, Anirbit Sengupta, Debjyoti Chakroborty, Mayukh Bairagi, Somnath Dasgupta,	Dr. Sudhir Chandra Sur Institute of Technology, Kolkata-700074, India.	An intensive overview on contemporary Cyber Attacks and Security Model
Dr. A. ELOUAFI, S. Ezairi a , F. Lmai a , A. Tizliouine b , H. Lassri	Université Hassan II de Casablanca,	Magnetic properties and magnetocaloric effect in amorphous $(Fe_{35} Er_{65})_{100-x} B_x$ (x=0 and 10)
Ogunlesi Oluwagbenga Olaoluwa Taiwo Adetutu Odubanjo Oladeji Daniel Oladele Ehinola Abigail Opeyemi Solomon Tosin Okeshina	University of Ibadan, Ibadan, Ahmadu Bello University, Seneca College of Applied Arts & Technology Toronto, Ontario Canada Obafemi Awolowo University	Beneficial Roles of Circular Economy towards Addressing Ecological & Climate Issues
Udhayakumar R, Mary Shiba C	R.M.K Engineering College, Tiruvallur	DOES DIGITALIZATION LEAD TO CYBER CRIME?
Thanh-Truong Nguyen, Duc-Duy Ho Thi Tuong Vy Phan and Thanh-Canh Huynh	Ho Chi Minh City University of Technology Vietnam National University Duy Tan University,	Estimating Remaining Tension in Prestressing Strand Using Piezoelectric Material and FEM
Navid Nouri 1 , Jafar Massah	university of Tehran, Iran	Evaluation Of The Performance Of Trimmer Robots: Review Study
Romi Sepsrizal Dikpide Despa FX. Arinto Setyawan Rinawati	University of Lampung	Analysis And Management Of Polychlorinated Biphenyls (Pcbs) In Temporary Storage Of Hazardous And Toxic Waste
YASWANTH S	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	Machine Learning - Arima Model
YASWANTH S	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	Automated Identification Of Fish Species
PRAGADEESH R, SATHEESH M, RAMYA M, SANTHOSH KUMAR M, BHUVAN KANNA S	Bannari Amman Institute of Technology, Tamil Nadu,	Wheelchair Fall Detection Using IOT
BENNABI A., ADJELOUA A., OUADDAH A., YOUNSI M., BOUALEM 1 N.	(LCSIM),	Remaining strength evaluation of defective pipe

20.11.2022
Sunday / 15:30-18:00

SESSION-3 HALL-2
MODERATOR: Dr. Vidya Padmakumar

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhistan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
Heba Nageh Gad El-Hak	Suez University, Ismailia 43533, Egypt	The Effect Of Dietary Supplementation With Nigella Sativa (Black Seeds) Mediates Immunological Function In Male Wistar Rats
Ursula Chidimma		Development Of Bacteria Biofertilizers Using From Locally Isolated Rhizosphere Populations And Agricultural Refuse And Their Impacts On Growth Of Test Crops
Darwin H Pangaribuan Muhammad Maqrus And Fina Octia	University Of Lampung	Effect Of Dosing Chicken Manure And Frequency Of Eco-Enzyme Application On The Growth And Production Of Sweet Corn Crops
Dinesha, B. L., Sharanagouda Hiregoudar, Vijayakumar And Manjunath, B	University Of Agricultural Sciences,	Synthesis And Characterisation Of Silver Nanoparticles And Its Applications In Food Processing
Dr. Vidya Padmakumar	Vidyapkumar3@Gmail.Com	Patterns And Restoration Potential Of Mangrove Clusters Along The Brackish And Coastline Segments Of Kozhikode Coastline, India
Dr. Vidya Padmakumar	Bangalore University, Bangalore, India	Prevalence, Fate, And Biological Vulnerability Assessments Of Sertraline In An Urban Aquatic System In India
Mohammad Saeid Yarmand A , Amir Rezvankhah	University Of Tehran, Iran	Production Of Bioactive Peptides From Lentil Protein Concentrate With Antioxidant, Antihypertensive, Antidiabetic, And Flavor Enhancer Properties
Lưu, Hồng Phúc Đặng, Thị Tố Uyên Phan, Thị Thanh Hiền Đỗ, Thị Thanh Thuỷ	Nha Trang University, Vietnam	Contamination Mechanism In Major Domestic Fish Distribution Chains In Vietnam
Ayo, J. A., Rabiu, I. A., Ayo, V. I., Vihishima, T. P., Okache, T. A.	Federal University	Quality Evaluation Of Malted Bambara Nut And Acha Based Biscuits.

20.11.2022
Sunday / 15:30-18:00

SESSION-3 HALL-3
MODERATOR: Dr. Palash Bairagi

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhistan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
Que Nhu Duong	Can Tho University,	Suggestion For Sustainable Tourism Development In Vietnam
György Losonczi	Szent István University	Online Marketing Strategies Of The National Museums And Libraries (Eu28)
György Losonczi	Szent István University	University Website Ranking: Webometrics V. Gpr
M. Khoirul Fikri Rizky Andrean	Uin K.H. Abdurrahman Wahid Pekalongan	Indonesian Traditional Markets In Al-Ghazali's Islamic Economic Perspective
Dr. Chukwuemeka G. Eme	National Open University Of Nigeria	Securing Land Rights For Women: A Critical Examination Of The Rights Of Women To Land In Nigeria
Assoc. Prof. Gergana Gozanska	International Law - Plovdiv University, Bulgaria.	Age Of Criminal Responsibility Of The Child - International And National Aspects
Dr. Palash Bairagi	D Y Patil International University-Akurdi,	Risk Tolerance And Its Effect On Retail Investors' Decision Making
Kamel Maaloul1	El-Oued University, Algeria	Clothing Classification From Smart Phones Using The Learning Strategy For Support Vector Machines
Balamurugan V 1* , Arunkumar R 2 And A Suresh	Tamil Nadu Agricultural University,	Constraints Faced By Cotton Farmers In Adopting Crop Insurance Scheme
Piyasiri Ruangsrimun Adirek Vajrapatkul	Sukhothai Thammathirat Open University, Thailand	Modeling Stock Prices Volatility
Chems Eddine Boukhedimi	University Of Tizi Ouzou,	Impact Of Gender On The Funding Of Green Associations In Algeria

13.11.2022
Sunday / 15:30-18:00

SESSION-3 HALL-4
MODERATOR: Associate Professor, Vladimir Pasovets

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhstan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
Associate Professor, Vladimir Pasovets	University Of Civil Protection Of The Ministry For Emergency Situations Of The Republic Of Belarus»,	Self-Lubricanting Composite Materials
Associate Professor, Vladimir Pasovets	«University Of Civil Protection Of The Ministry For Emergency Situations Of The Republic Of Belarus»,	Ultimate Compressive Strength Of Powder Nanocomposite
Nikhil Chandnani, Vedika Shrirang Choudhari, Rajat Talukdar, Ishika Gupta, Sudeshna Rakshit, Geetha Shanmugam, Shiuli Guchait, Dr. Koustav Sarkar*	Srm Institute Of Science And Technology, Kattankulathur,	Depletion Of Enhancer Zeste Homolog 2 (Ezh2) Directs Transcription Factors Associated With T Cell Differentiation Through Epigenetic Regulation Of Yin Yang 1(Yy1) In Combating Non-Small Cell Lung Cancer (Nsclc)
Giridharan S, Dharshini R	Bannari Amman Institute Of Technology, Tamil Nadu, India	Diminishing Health Disparities For People With Disabilities Through Improved Communication Strategies And Awareness
Ranganayagi K S, Nivashini S, Rithika S, Swetha S		Ai-Based Nutrition, Dietary And Pregnancy Assistor App
Eka Ria Novita Sari Sirait, Christine Wulandari Yuli Agustin, Novriyanti Novriyanti, Dian Iswandaru	Lampung University,	Modal Sosial Masyarakat Dalam Pelestarian Ekosistem Gambut
Assistant Professor,Vaibhav Kant Singh	Central University,	Learning Vector Quantization Algorithm Of Ann
H. Amar , M. Amir	Centre De Recherche En Technologies Industérielles University Mouloud Mammeri Of Tizi-Ouzou,	Spiral Sensor For Dielectric Characterization Of Liquids
Ghania HABBAR, Abdelhakim MAIZIA 1 , Abdelkader HOCINE, João RIBEIRO	Hassiba Benbouali University Of Chlef, Algeria Higher School Of Technology And Management, Instituto Politécnico De Bragança, Portugal.	Mechanical Behavior Prediction Of Composite Multilayered Jute/Epoxy Pipe Under Internal Pressure
Y. Ammi N. Melzi Et S. Hanini	University Of Médéa.	Machine Learning Meets Quantitative Structure-Property Relationship (Qspr) For Prediction Of Polar Pharmaceutical Active Compounds Rejection In Membranes

20.11.2022
Sunday / 15:30-18:00

SESSION-3 HALL-5
MODERATOR: Dr. MUHAMMAD FAISAL

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhistan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
Yasikaa , Kiruthika S	Bannari Amman Institute Of Technology, Sathyamangalam,Erode.	Bannari Amman Institute Of Technology Iot In Healthcare Using Raspberry Pi
Sathya M, Snega N J, Sri Soundaryaa R S, Vinotha P	Bannari Amman Institute Of Technology,	Recent Trends In Medical Sciences
Ibrahim Abdulrahman., Muhammad Sani Ahmad, &Amp; 1 Mohammad Mohammad.	Industrial And Technology Education Department, Niger State Polytechnic Zungeru	Proliferation Of Herbal Medicines And Its Helth Effect
Joseph U. Almazan, Asistant Professor ,Nazarbayev University School Of Medicine, Nazarbayev University ,Nursultan, Kazakhstan		Nurses' Attitudes Toward Quality Improvement In Hospitals: Implications For Nursing Management Systems
Uzma Ayaz , Hameed Ur Rehman	Kohat University University Of Poonch Rawalakot, Pakistan	The Role Of Gold Nanoparticles For The Photo Thermal Cancer Therapy
Yogesh , Deepanshu Sindhwani , Anju Dhiman, Vaishali Saini, Vishal Vats	Maharshi Dayanand University,	Gc-Ms And Headspace Gc Analysis Of Chlorophytum Borivilianum
Ayusmita Dutta Deepsikha Kalita	Assam Down Town University	A Qualitative Study On The Effects Of Mindfulness On Psychological Well-Being
Mohammed Lawal Toro	Tomsk Polytechnic University	Deep Learning For Covid-19 And Associated Lung Disease Classification
Dr. Muhammad Faisal	Riphah International University Islamabad	A Theoretical Analysis Of The Problem Of Breast Cancer In Pakistan

13.11.2022
Sunday / 15:30-18:00

SESSION-3 HALL-6
MODERATOR: Dr. Dennis Amaechi

Africa:14:30-17:00/ Algeria: 13:30-16:00/Azerbaijan: 16:30-19:00 / Bulgaria: 14:30-17:00/ Canada:07:30/10:00/ China:20:30-23:00/ Egypt:14:30/17:00/ Georgia: 16:30-19:00/ Hungary:13:30/16:00 /India: 18:00-20:30/Indonesia:19:30-22:00 Iraq: 15:30-18:00 / Kazakhistan:18:30/21:00 /Lebanon:14:30/17:00/ Iran: 15:30-18:00 / Kingdom of Saudi Arabia: 15:30-18:00 / Malaysia: 20:30/23:00/ Moldova: 14:30-17:00/ Morocco: 12:30-15:00/Nigeria: 13:30-16:00/Pakistan: 17:30-20:00/ Philippines:20:30/23:00/ Portugal:12:30/15:00/Russia: 15:30-18:00/ Thailand:19:30/22:00/ USA:07:30-10:00/ Vietnam: 19:30-22:00

AUTHORS	AFFILIATION	TOPIC TITLE
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Salisu Nuhu	College Of Science And Technology Hussaini Adamu Federal Polytechnic Kazaure, Jigawa State	Factorial Analysis Of Quicklime Production From Eggshell
Abdelkader Bouderbala	University Of Khemis Miliana	Soil Of The Beni-Abbes Oasis In South-West Of Algeria
Seun S. Owoeye A, Davies O. Folorunso B , Fatai Aramide, Sunday G. Borisade	Federal University Of Technology, Akure, Nigeria.	Processing And Characterization Of Biogenic Sio 2 And Cao From Bio-Wastes As Cost Effective Alternative Resources To Synthetic Materials For Biomedical Applications
Abdelrahman SALMAN	Tomsk Polytechnic Univeristy,	Review Of New Methods For Corrosion Detection Using New Eddy Current Testing Technique
Dr. Dennis Amaechi	Veritas University	Phytochemical Screening And Hypolipidemic Activity Of Jatropha Tanjorensis In Wistar Rats.
M. Ouali, M. Ouhammou, S. Taj, R. Benbrik, B. Manaut	Fpbm, Usms, Morocco Ucam, Morocco	Production Of A Higgs Boson In Association With A Pair Of Fermions In The Presence Of A Circularly Polarized Laser Field
Isaac Eilan Bin Musa Sinau, Roy Claren Joachim, Mary Anne Dalubatan, Megchisah Binti Pakiak	Keningau Vocational College, Sabah, Malaysia	Best Practice In Construction-Related Waste Management

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BOSWELLIA SERRATA PROTECTS AGAINST OLEIC ACID INDUCED-ARDS THROUGH THE INHIBITION OF OXIDATIVE STRESS AND ALTERATIONS OF BIOMOLECULAR COMPOSITIONS

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ABSTRACT

Acute respiratory distress syndrome (ARDS) is a serious *lung injury* characterized by the rapid onset of widespread inflammation. There has been a strong conflict between folk and modern medicine for a long time. *Boswellia serrata (B. serrata)* is one of the prime examples of medicinal plants with antioxidant, anti-inflammatory, anti-cancer, immunomodulation, and other biological properties. The objective of this study is to investigate the protective role of the extract of *B. serrata* on Oleic acid-induced ARDS in rats. The animal model was established by intravenous injecting rats with a single dose of Oleic acid. Animals were randomly divided into three groups: I. control, II. ARDS, III. ARDS + *B. serrata*. *B. serrata* extract (1000 mg/kg) was administered orally for two weeks in Group II rats. After the last gavage, a single dose of Oleic acid was given by intravenous injecting to Group II and waited for 24 hours. Then, rats were sacrificed with sevoflurane, and their lung was removed. We determined the levels of Interferon-gamma (IFN-γ), Total antioxidant capacity (TAC), total oxidant status (TOS), superoxide dismutase (SOD), and Catalase (CAT) by ELISA in lung tissue. The biomolecular compositional changes were determined from FTIR spectroscopy together with chemometric analysis.

The levels of IFN-γ and TOS were significantly lower in the ARDS + *B. serrata* group compared to the ARDS group. Moreover, significant increases in the levels of TAS, SOD, and CAT were found in *B. serrata* administered group with respect to the ARDS group. Spectral analysis revealed significant alterations in the lipids and nucleic acid amounts in the ARDS group and *B. serrata* pre-treatment prevented the formation of these changes. These findings suggest that the *B. serrata* has a lung protective effect through the inhibition of oxidative stress, and regulation of IFN-γand biomolecule levels in the ARDS model.

Keywords: *Boswellia serrata*, lung injury, TOS, TAC, SOD, CAT, IFN-γ, FTIR spectroscopy.

1. INTRODUCTION

Boswellia serrata (B. serrata) has been extensively implemented as herbal medicine for centuries (Akbar 2020). It contains 30–60% resin that consists of monoterpenes, diterpenes, triterpenes, tetracyclic triterpenic acids, and four major pentacyclic triterpenic acids (Siddiqui, 2011). 3-O-acetyl-11-keto-b-boswellic acid is the most important compound of *B. serrata* and also exhibits the highest antioxidant power (Beghelli et al. 2017). In recent years, *B. serrata* gum resin extracts have been scientifically investigated, and reported various pharmacological activities such as antioxidant, anti-inflammatory, anti-arthritic immunomodulatory, antihyperglycemic, antihyperlipidemic, and anticancer (Siddiqui, 2011; Kumar et al. 2019; Namjou, and Rouhi-Broujeni 2021; Banji et al. 2022). Further, it has also been indicated that *B. serrata* was used in the treatment of chronic pulmonary affections, such as bronchitis, and bronchorrhea in folk medicine (Akbar 2020).

Acute respiratory distress syndrome (ARDS) is a syndrome that leads to rapidly worsening respiratory failure and is associated with excessive morbidity and mortality (Wu, 2020). It is caused by numerous factors such as infection, sepsis, shock, trauma, burns, severe pneumonia, non-cardiogenic pulmonary edema, progressive dyspnea, and refractory hypoxemia (Johnson 2010). Lately, given the increased risk of mortality with the corona pandemic, there is a need to develop safe and efficient drugs to prevent and treat ARDS. The current study aimed to determine the lung protective abilities of B. *serrata* in Sprague Dawley rats with Oleic acid-induced ARDS.

2. MATERIAL AND METHODS

2.1. Chemicals and reagents

B. serrata gum resin extract capsules were purchased from Solgar. Oleic acid was sourced from Sigma-Aldrich (Darmstadt, Germany Cat. No. 112-80-1) with a purity of 99.9%. Total antioxidant capacity (TAC), Total oxidant status (TOS) were purchased from (Rel Assay Diagnostics, Gaziantep, Turkey); Interferon-gamma (IFN-γ), Superoxide dismutase (SOD), and Catalase (CAT) were purchased from (BT LAB Company, China.

2.2. Animals and Experimental Scheme

Male Sprague Dawley rats (300 to 350 g), were purchased from ATADEM, and housed in standard conditions (12-hr light/day cycle at 22°C temperature). The experimental protocol was performed according to the National Institute of Health Guide for the Care and Use of Laboratory Animals. All rats were randomly assigned to three groups (n = 6 each): I) Control; II) ARDS III) ARDS + *B. serrata*. *B. serrata* gum resin extract was given orally for two weeks at a daily dose of 1000 mg/kg prior to intraperitoneal injection of the Oleic acid (50 µl kg^{-1}). While the control group rats were given an equivalent volume of saline. At the end of 24 hrs, rats were sacrificed by sevoflurane, and their lung was removed and then immersed in liquid nitrogen.

2.3. Determination of Biochemical Parameters

All frozen lung samples were ground in liquid nitrogen and homogenized in the isotonic solution. Samples were centrifuged at 10,000 g for 10 min. Their supernatant was assayed for biochemical analyses. Enzyme-linked

immunosorbent assay (ELISA) kits were used as per the instructions of the company. All experimental procedures were performed based on the company protocol.

2.4. Collection of FTIR Spectrum from Lung Tissues

The spectra of lung tissues were collected using FTIR spectroscopy with ATR mode (Bruker Vertex 70 FTIR spectrometer, Ettlingen, Germany) in the range 4000–400 cm^{-1}, with 4 cm^{-1} of spectral resolution and 32 scans. To prevent the contribution of atmospheric water vapor and CO_2, the background spectrum was collected and automatically tracked from the tissue spectra. 6 spectra were obtained for each group, control, ARDS, and ARDS + *B. serrata*. Data collection and manipulation were performed using OPUS 7.5 software (Bruker Optics, GmbH).

2.5. Unsupervised Chemometric Analysis of FTIR Spectra

Two common unsupervised multivariate analysis, namely principal component analysis (PCA) and hierarchical component analysis (HCA) were applied to the IR spectra of lung tissues in the 4000-900 cm^{-1} region. Unscrambler X 10.3 (CAMO Software AS., Oslo, Norway) multivariate analysis (MVA) software was used and PCA was demonstrated as score and loading plot while HCA was shown as dendogram, which was obtained from Ward's algorithm.

2.6. Statistics

All results are expressed as the mean ± SEM. Graph Pad Prism software (Version 6.0) was used to analyze the results. For comparisons, unpaired Student's t-tests were used.

3. RESULTS

3.1. *B. serrata* extract shows anti-inflammatory activity

IFN-γ is a proinflammatory cytokine and known to be essential in inflammation and inducing the migration of neutrophils and its excessive production contributes to the injury progression of ARDS. As can be seen from Fig 1, there was a significant increase level of this cytokine in OA (ARDS) group compared to the control. On other hand, preadministration of *B. serrata* at 1000 mg/kg, significantly decreased the level of IFN-γ.

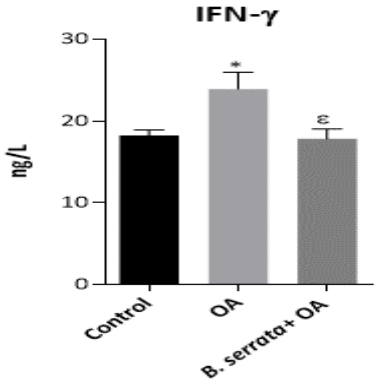


Figure 1. IFN-γ levels in control, OA and BS+OA groups. * denoted Control vs OA/BS+OA groups.ε describes OA vs BS+OA groups. *,ε $p<0.05$

3.2. *B. serrata* extracts exhibit anti-oxidant activity

To determine antioxidant/oxidant status, TAS and TOS levels were evaluated in the studied groups (Fig 2A and B). TAS was found to be significantly decreased in the ARDS group with respect to the control one ($p< 0.05$) whereas, the TOS level significantly increased. On the contrary, BS pretreatment significantly increased TAS level while it decreased TOS level as compared with the control and ARDS groups ($p < 0.01$). As seen in Figures 2A and 2B, the TAS and TOS levels in the lung tissue of BS-administered animals were found to be close to control group.

SOD and CAT levels were measured to evaluate the antioxidant activities of *B. serrata* extract. A profound decrease was acquired in the level of these enzymes in OA group with respect to the control group ($p< 0.05$). Treatment with BS significantly elevated the SOD and CAT levels as compared to OA group.

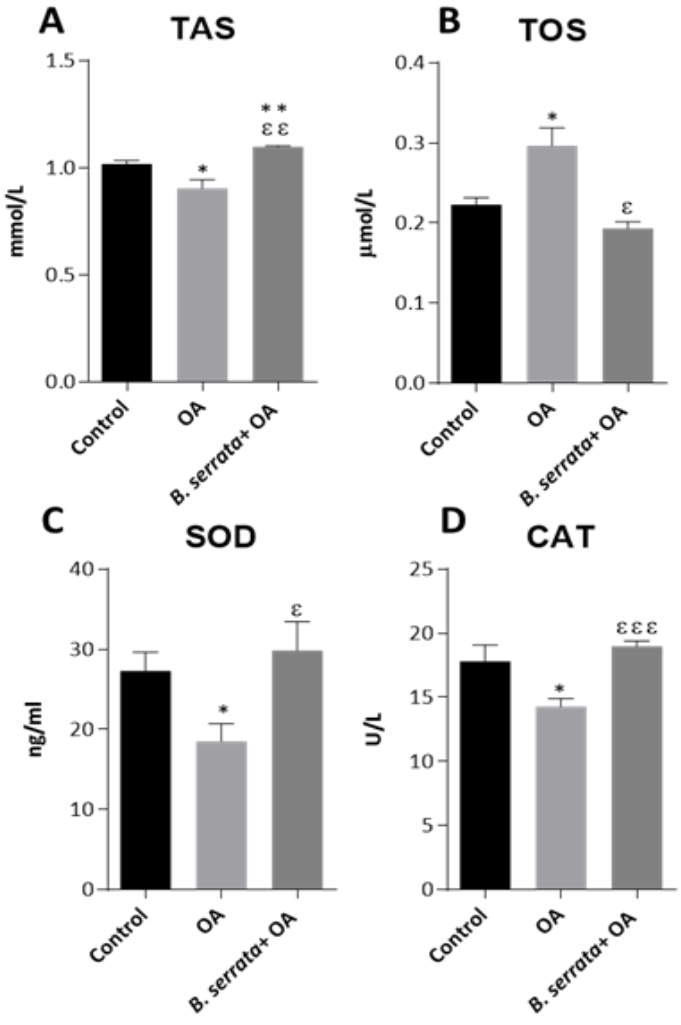


Figure 2. TAS (A), TOS (B), SOD (C), and CAT (D) levels in control, OA and BS+OA groups. * denoted Control vs OA/BS+OA groups.ε describes OA vs BS+OA groups. $^{*,\varepsilon}$ $p<0.05$, $^{**,\varepsilon\varepsilon}$ $p<0.01$, $^{\varepsilon\varepsilon\varepsilon}$ $p<0.001$

3.3. *B. serrata* prevents the disruption of bimolecular composition

To determine relationship/ similarities or differences between the control, oleic acid and Boswellia group, PCA and HCA were applied to the IR lung spectra of studied groups since these chemometric approaches enable to interpret the spectral variances among studied groups (Roggo et. al., 2007). PCA was first applied to the spectra of the control and oleic acid group to elucidate whether oleic acid treatment caused the alterations of biomolecular composition or not. Figure 3-A demonstrated the PCA score plot of these groups, indicating the discrimination of the oleic acid group from the control one. In score plots, the variances between groups are demonstrated by principal components. 90 % variation (80 %, and 10%, for PC-1, and PC-2) were acquired. The high variation value revealed major differences in the biocompositions of control and oleic acid-treated lung samples. To validate the PCA discrimination plot, HCA is commonly used as a classification method since this analysis uses spectral similarities to classify samples. Similar samples are placed at the same tree of HCA dendogram with a low relative distance value (Siqueira and Lima, 2016). HCA dendogram for the control and the oleic acid group was shown in Figure 3B. As can be depicted from this figure, the oleic acid group was located at a different cluster with respect to the control one. Both chemometric analyses was also utilized to describe the segregation of Boswellia, control and oleic acid groups. Boswellia group was closely located to the control group and clearly segregated from the oleic acid group, depicted from the PCA score and HCA dendogram plots (Figure 4A and 4B). This reveals the spectral similarities between Boswellia and the control group in terms of the lipid, protein and nucleic acid contents.

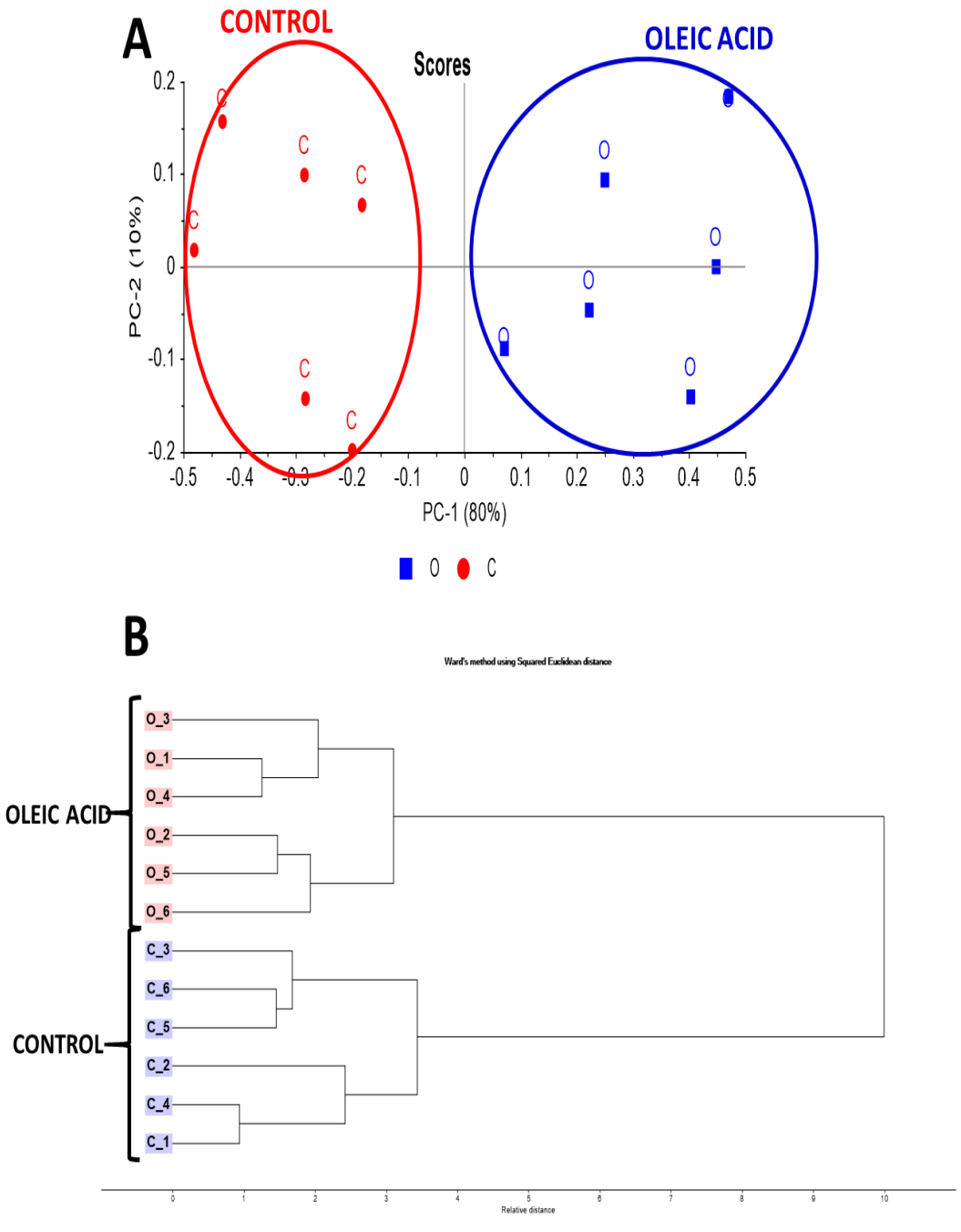


Figure 3. PCA score plot (A) and HCA dendogram (B) of the control and oleic acid groups in the 4000-900 cm^{-1} spectral region.

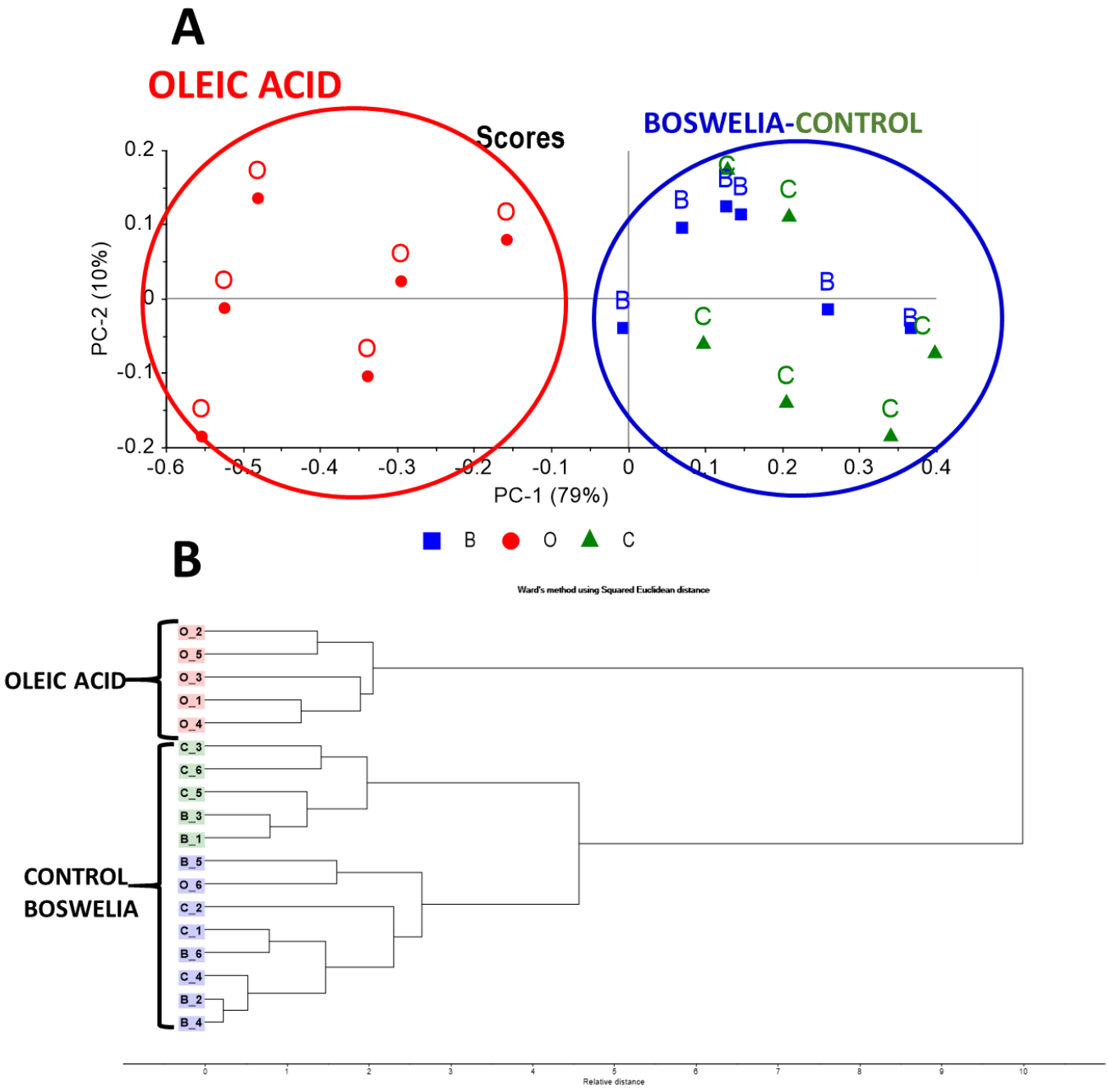


Figure 4. PCA score plot (A) and HCA dendogram (B) of the control, oleic acid and Boswellia groups in the 4000-900 cm^{-1} spectral region.

Based on the HCA and PCA findings, PCA loading plots were employed for the first two PCs to evaluate the spectral variances among the analyzed groups (Figure 5A and 5B). X and Y-axis describe the wavenumber and score values of the spectral peaks, respectively. The high eigenvalues indicate the high variation for specific spectral bands and contribution of the discrimination (Pocasap, et. al., 2020). The loading plot disclosed that there are two main spectral regions with a high eigen value located at 3700-2800 cm^{-1} and 1800-900 cm^{-1} spectral

regions, respectively. The former includes, protein, unsaturated and saturated lipid-associated spectral bands while the second includes triglyceride, cholesterol ester, protein and nucleic acid related spectral bands (Severcan and Haris, 2012). High eigenvalues for these regions elucidated the changes in the compositions of lung lipid, protein and nucleic acids induced by oleic acid treatment and protective effect of Boswellia treatment against oleic acid application.

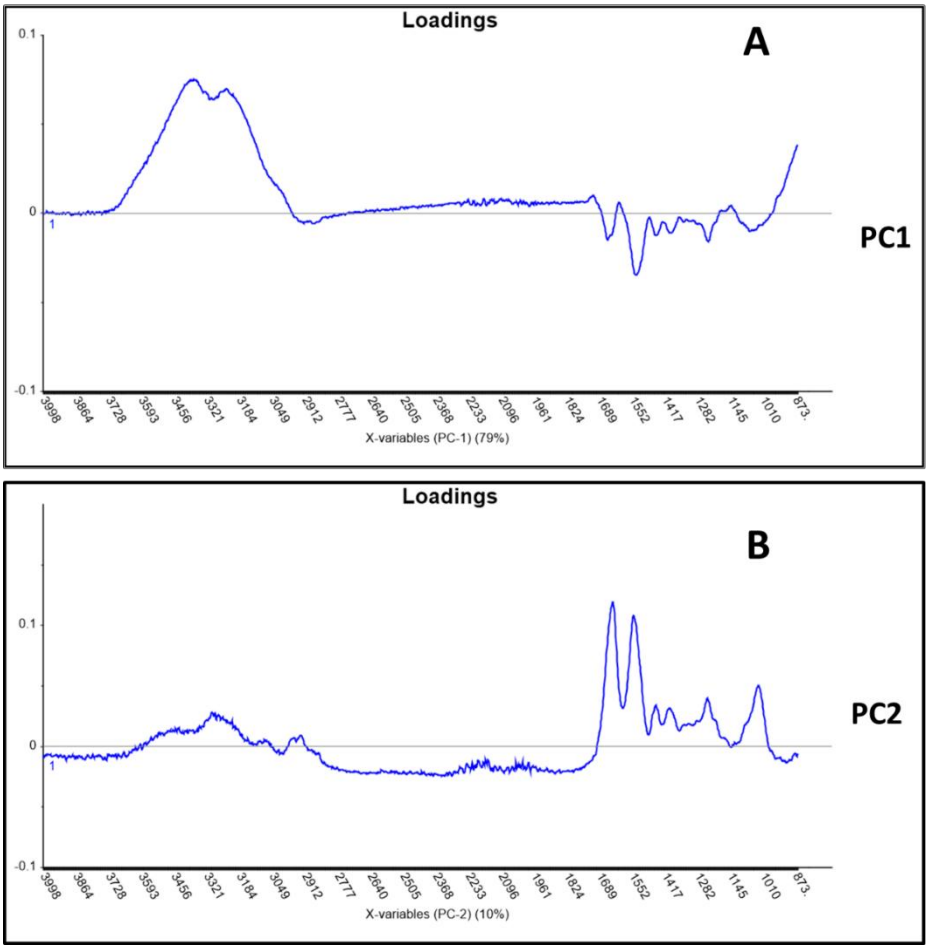


Figure 5. PCA loading plots of the control, oleic acid and Boswellia groups in the 4000-900 cm^{-1} spectral region.

4. DISCUSSION

Oleic acid-induced lung injury is one of the most extensively studied and reliable animal models for ARDS (Gonçalves-de-Albuquerque et al 2016). Oleic acid induces the production of pro-inflammatory cytokines and initiates inflammatory responses in lung tissues (Gonçalves-de-Albuquerque et al 2016). Interferon-gamma (IFN-γ), a pro-inflammatory cytokine secreted by Th1 cells, is known to be essential in inflammation and inducing the migration of neutrophils. And, the excessive production of IFN-γ contributes to injury progression in ARDS (Lang et al. 2017). In the present study, Oleic acid exposure markedly increased the levels of IFN-γ in lung tissue compared with the untreated group. However, *B. serrata* treatment significantly reversed the level of IFN-γ in

lung tissues. An ex vivo study showed that *B. serrata* extracts could influence the regulatory and effector T-cell compartments, as well as the capacity in dampening the inflammatory response and the oxidative stress (Beghelli et al. 2017). In another study, treatment of *B. serrata* extract in diabetic mice prevented an increase of proinflammatory cytokines including IFN-γ (Shehata et al. 2011). Moreover, a previous study demonstrated that with oral administration of BOS 2000, the polysaccharides derived from *B. serrata* exhibit immunomodulatory effects in a dose-dependent manner by the enhancement of TNF-α and IFN-γ production in mice (Khajuria et al 2008). Likewise, a study reported that oral administration of *B. serrata* gum resin extract shows a protective effect on arthritis in rats via the modulation of the immune system by reducing levels of inflammatory mediators including IFN-γ (Umar et al. 2014).

Oxidative stress is an imbalance between oxidant and antioxidant substances. ROS (reactive oxygen species) generation and degradation contribute to the oxidative balance (Droge et al. 2002). SOD and CAT enzymes scavenge ROS to decrease oxidative stress, which is important to protect tissue from damage (Su et al. 2022). In the present study, we found that the level of SOD and CAT in rats were highly decreased by the stimulation with Oleic acid, and *B. serrata* pre-treatment significantly increased their activities. The amount of SOD and CAT increased by the effect of the *B. serrata* may be part of a protective mechanism to reduce pulmonary damage. Moreover, in lung tissues of Oleic acid-exposed rats, a significant increase in the TOS level and a decreased TAC level were observed, whereas pre-treatment of *B. serrata* significantly improved these parameters. TAC reflects the antioxidative capacity, and TOS is the total response against oxidative stress (Erel 2004). A recent study investigation confirmed that *B. serrata* extract reduces lipopolysaccharide-induced inflammatory reactions and oxidative damage by diminishing SOD and CAT activities in hepatic and renal tissue (Marefati et al. 2022). Accordingly, our results demonstrated that *B. serrata* administration increased the level of the antioxidant enzymes and TAC. Thereby activating SOD and CAT antioxidant enzymes and increasing TAC levels to prevent oxidative stress. The present study provided evidence that *B. serrata* administration in rats with OA-induced lung injury tended to increase the level of TAC. Previous studies have shown that oxidative stress is increased in Oleic acid-induced lung injury (Chen et al. 2015). Since ROS scavengers have an important role in protecting against Oleic acid-induced lung injury in experimental animals, *B. serrata* may be a novel agent in lung protection. It has been known that oxidative stress alters biochemical composition of tissues since it degrades tissue biomolecules. Therefore, FTIR spectroscopy coupled with unsupervised chemometric analysis was performed to detect biocompositional changes in the lung tissue of ARDS. We found that ARDS group was different from the control ones based on the spectral differences and the BS group was similar to the control one. This similar proved the lung protective ability of *B. serrata* extract.

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