



13 th edition

**National Scientific Conference
"e-FACTORY OF SCIENCE"**

April 05, 2025

Conference Schedule

MEDICAL SCIENCES SESSION

On-line Presentations

- 09:50 – 10:00 **Opening the Session and discussing technical matters**
- 1 10:00 – 10:10 **IZABELA BIELECKA**
Medical University of Lublin
PHYTOCHEMICAL COMPOSITION AND IN VITRO STUDIES OF HELIOTROPIUM RAMOSISSIMUM SIEBER EX DC.: FOCUS ON SKIN-RELATED PROBLEMS
- 2 10:10 – 10:20 **MALGORZATA CHILMONCZYK**
Medical University of Bialystok
COMPARISON OF THE EFFICACY OF IMPLANTACION MICRO-SHUNT PRESERFLO AND TRABECULECTOMY IN PATIENT WITH GLAUCOMA
- 3 10:20 – 10:30 **PATRYCJA JANISZEWSKA**
Medical University of Silesia
SEVERITY AND FREQUENCY OF CLIMACTERIC SYMPTOMS AMONG WOMEN IN MENOPAUSAL STAGE
- 4 10:30 – 10:40 **JAKUB RYBAK**
Medical University of Lublin
THE USE OF ANTIBACTERIAL AGENTS IN ANIMAL FARMING THE GROWING PROBLEM OF BACTERIAL ANTIBIOTIC RESISTANCE
- 5 10:40 – 10:50 **JULIA SIEK**
Medical University of Lublin
DIAGNOSTIC METHODS IN TUBERCULOSIS – COMPARISON OF TWO CASES
- 6 10:50 – 11:00 **SEBASTIAN SUCH**
State University of Applied Sciences in Krosno
THE POTENTIAL OF SELECTED ESSENTIAL OILS IN COMBATING ENTEROCOCCUS FAECALIS
- 7 11:00 – 11:10 **BARTOSZ WIEWIÓRKA**
Medical University of Lublin
CURRENT EPIDEMICAL SITUATION OF FOOD POISONING CAUSED BY BACTERIAL TOXINS IN POLAND
- 8 11:10 – 11:20 **MARCEL WILIM**
Medical University of Lublin
BACILLUS CEREUS AS AN ETIOLOGICAL AGENT OF FOOD POISONING – CHARACTERISTICS, OCCURRENCE, AND PREVENTION

Presentations

- 1 **KATARZYNA BAZYLEWICZ-ZAKRZEWSKA**
University Public Clinical Hospital No. 1 of the Pomeranian Medical University in Szczecin
ACUTE TRAUMATIC INJURY OF THE THORACIC AORTA: IMAGING DIAGNOSTICS AND CLASSIFICATION
- 2 **KATARZYNA BAZYLEWICZ-ZAKRZEWSKA**
University Public Clinical Hospital No. 1 of the Pomeranian Medical University in Szczecin
CHOLESTEATOMA – DIAGNOSTIC AND THERAPEUTIC MANAGEMENT IN A 15-YEAR-OLD PATIENT WITH CHRONIC OTITIS MEDIA



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- 3 **GABRIELA BIEDROŃ**
Andrzej Frycz Modrzewski University in Krakow
UROGYNECOLOGICAL PHYSIOTHERAPY AS A KEY ELEMENT OF ENDOMETRIOSIS THERAPY – NEW PERSPECTIVES IN IMPROVING WOMEN'S HEALTH AND QUALITY OF LIFE
- 4 **KAROLINA BUGNO**
Piastów Śląskich Medical University
TREATMENT AND CARE OF PRESSURE BEDSORES.
- 5 **ANNA GLINKOWSKA**
Medical University of Silesia
APIGENIN – STRUCTURE AND USE IN MEDICINE AND PHARMACY
- 6 **NATALIA KUBRYŃ**
Collegium Medicum Nicolaus Copernicus University
INVESTIGATION OF A PROTEOLYSIS-TARGETING CHIMERA WITH POTENTIAL APPLICATION IN HIV TREATMENT
- 7 **KATARZYNA KUCHTA**
Fizjo-area Katarzyna Kuchta
STROKE CASE STAGE
- 8 **DOMINIKA KULMA**
University of Warsaw
THE ROLE OF MCAM+ CELLS DURING SKELETAL MUSCLE REGENERATION OF WILD-TYPE AND DUCHENNE MUSCULAR DYSTROPHY MOUSE MODEL
- 9 **AGATA KUPCZAK**
Silesian Medical University in Katowice
EFFECTIVENESS OR POSTURING? MODERN TECHNOLOGIES IN HEALTHCARE
- 10 **MONIKA KUŚMIERZ-WOJTASIK**
Pomeranian Medical University
DMEK WITH THE USE OF A SMALL-DIAMETER GRAFT – LONG-TERM OBSERVATION OF POSTOPERATIVE OUTCOMES IN PATIENTS WITH FUCHS' DYSTROPHY
- 11 **JAKUB LOSA**
Medical University of Silesia
CHARACTERIZATION OF INJURIES IN PROFESSIONAL FOOTBALL (SOCCER)
- 12 **IZABELA MACIEJEWSKA**
The private, specialist clinic I-DENT; Medical University of Gdansk, Dental Division
FUNCTIONAL AND ESTHETIC DENTAL METAMORPHOSIS, CASE REPORT
- 13 **ADRIAN MROZIK**
University of Opole
TAKOTSUBO SYNDROME
- 14 **JAN POLESZAK**
Medical University of Lublin
THE PROBLEM OF HIV INFECTION AND THE EFFECTS OF ANTIRETROVIRAL THERAPY IN PREGNANT WOMEN
- 15 **LUIZA RYDZOWSKA**
Uniwersytet Jana Kochanowskiego w Kielcach, Collegium Medicum
SPECIFICITY OF ANESTHESIA IN PATIENTS UNDERGOING CARDIAC SURGERY
- 16 **JULIA SIWEK**
Jan Kochanowski University in Kielce, Collegium Medicum
SHINGLES – CHARACTERISTICS AND TREATMENT
- 17 **EWA STASZAK**
University of Opole
ELPENOR'S SYNDROME – CHARACTERISTICS



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- 18 **KATARZYNA ŚLUSARCZYK**
Doctoral School of the Medical University of Silesia in Katowice
THE USE OF HIPPO THERAPY IN THE REHABILITATION OF CHILDREN WITH CEREBRAL PALSY
- 19 **BARTOSZ TWAROWSKI**
Doctoral School, Medical University of Lublin
APPLICATION OF CRISPR/CAS9 TECHNOLOGY IN THE MODULATION OF ALZHEIMER'S DISEASE PATHOMECHANISMS – THERAPEUTIC POTENTIAL AND CLINICAL LIMITATIONS
- 20 **NATALIA WACEK**
Jan Kochanowski University in Kielce, Collegium Medicum
METHODOLOGY OF CORRECTIVE GYMNASTICS FOR FLAT BACK CORRECTION
- 21 **WERONIKA WITEK**
University of Opole
OBSTRUCTIVE SLEEP APNEA AND ITS IMPACT ON THE CARDIOVASCULAR SYSTEM
- 22 **SZYMON ZAKRZEWSKI**
Pomeranian Medical University
THE USE OF EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO): TECHNICAL CONFIGURATIONS, CLINICAL INDICATIONS AND POSSIBLE COMPLICATIONS – AN OVERVIEW OF THE METHOD
- 23 **JOANNA ŻANDAREK**
Jagiellonian University Medical College
ECOTOXICITY ASSESSMENT OF CEFAZOLIN PHOTOTRANSFORMATION PRODUCTS USING BIOINDICATION ASSAYS
- 24 **KATARZYNA ŻANDAREK**
University of Bielsko-Biala
SUZETRIGINE AS A NEW NON-OPIOID ANALGESIC

Posters

- 1 **ADRIANNA BARGIELSKA**
Medical University of Białystok
IS CREATININE ENOUGH? ASSESSMENT OF KIDNEY FUNCTION IN HIGH-RISK AKI PEDIATRIC PATIENTS HOSPITALIZED AT THE UNIVERSITY CHILDREN'S TEACHING HOSPITAL IN BIALYSTOK (2020-2024)
- 2 **MATEUSZ BARGIELSKI**
Medical University of Białystok
NEUROPSYCHOLOGICAL EVALUATION IN NEWLY DIAGNOSED EPILEPSY: UNRAVELING HETEROGENEITY IN ATTENTION AND AUDITORY-VERBAL LEARNING
- 3 **ADAM BĘBEN**
Medical University of Gdańsk; Dental Clinic, BaltiCare
A NEW APPROACH TO TEETH WHITENING
- 4 **JAKUB BIAŁKOWSKI**
Dental Clinic, BaltiCare
IMPROVING THE AESTHETICS OF THE ANTERIOR SEGMENT OF THE UPPER DENTAL ARCH WITH THE INJECTION FLOW METHOD
- 5 **JOANNA CIEŚLIK-HAJDUK**
National Institute of Public Health NIH – National Research Institute
ERADICATION OF HELICOBACTER PYLORI – DIETARY RECOMMENDATIONS AND SUPPLEMENTATION
- 6 **KAMIL KRZYKAWSKI**
Medical University of Silesia in Katowice
THERAPEUTIC POTENTIAL OF AZD5582 (ENG)
- 7 **KATARZYNA KUCHTA**
Fizjo-area Katarzyna Kuchta
STROKE



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- 8 **ALEKSANDRA LASOTA**
Medical University of Bialystok
PROTEIN BIOMARKERS IN UROLITHIASIS (ENG)
- 9 **KLAUDIA PALKA**
Medical University of Silesia in Katowice
SYSTEMIC SCLERODERMA – EARLY SYMPTOMS TO LOOK OUT FOR
- 10 **JANINA DANUTA RZESZOT**
Vincent Pol University in Lublin
PHYSIOTHERAPY IN THE CIRCULATORY (ENG)
- 11 **ROBERT SARNA**
Silesia LabMed Research and Implementation Centre
POCKET LABORATORY, OR THE LAB-ON-CHIP METHOD
- 12 **MAGDALENA SARNOWSKA**
Medical University of Bialystok
SERUM CONCENTRATIONS OF SELECTED ANTIOXIDANT ELEMENTS IN PATIENTS WITH CERVICAL DYSTONIA

TECHNICAL AND NATURAL SCIENCES SESSION

On-line Presentations

- 11:40 – 11:50 **Opening the Session and discussing technical matters**
- 1 11:50 – 12:00 **MAREK ADAMIK**
Tarkett Polska sp. z o.o.
DEVELOPMENT OF TECHNOLOGY AND INTRODUCTION OF RIGID LVT PANELS TO THE MARKET
- 2 12:00 – 12:10 **PAULINA BRZEĆKA**
Nicolaus Copernicus University in Toruń
POTENTIAL OF BACTERIOCINS IN TERMS OF THEIR DIVERSE APPLICATIONS
- 3 12:10 – 12:20 **BEATA FELSKA**
Nicolaus Copernicus University in Toruń
PROPERTIES AND APPLICATIONS OF POLYLACTIDE
- 4 12:20 – 12:30 **ALICJA FORC**
Nicolaus Copernicus University in Toruń
SULFORAPHANE APPLICATIONS MEANS WHAT? HOW? WHY?
- 5 12:30 – 12:40 **AGNIESZKA RICHERT**
Nicolaus Copernicus University in Toruń
CHARACTERISTICS AND APPLICATIONS OF AZELAIC ACID
- 6 12:40 – 12:50 **PATRYK LESZCZAK**
Rzeszow University of Technology
MODELING CONTINUOUS PARTICLE GROWTH PROCESSES USING POPULATION BALANCE EQUATIONS IN MATLAB® ENVIRONMENT
- 7 12:50 – 13:00 **DOMINIK MÜLLER**
AGH University of Krakow
APPLICATION OF NATURAL BIOMATERIALS FROM Γ -PGA ENRICHED IN VITRO CULTURES OF PLEUROTUS SPP. MUSHROOMS AS SORBENTS FOR CADMIUM AND LEAD POLLUTION (ENG)
- 8 13:00 – 13:10 **EWA MUZAL**
University of Lodz
PHYSICOCHEMICAL STUDIES ON THE FORMATION OF DEFECTS IN CANDLES USING DIFFERENTIAL SCANNING CALORIMETRY (DSC)



- 9 13:10 – 13:20 **KAROLINA SKRZYDELSKA**
University of Silesia in Katowice
INFLUENCE OF INCREASED TEMPERATURE ON LENS COATINGS IN EYEGLASSES
- 10 13:20 – 13:30 **MAGDALENA STAWICKA**
University of Warmia and Mazury in Olsztyn
MOLECULAR STRATEGIES OF PARASITES IN MODULATING THE HOST IMMUNE RESPONSE

Presentations

- 1 **EDYTA MAŁACHOWSKA**
Warsaw University of Life Sciences – SGGW
RESPONSIBLE PAPER PRODUCTION: CAN WASTEPAPER SAVE OUR FORESTS? (ENG)
- 2 **PIOTR MICHAŁOWSKI**
Poznan University of Technology; Polish Academy of Sciences
EVALUATION OF THE PROPERTIES OF POLYMERIC INCLUSION MEMBRANES USING HANSEN SOLUBILITY PARAMETERS
- 3 **ZUZANNA PYTLIK**
University of Silesia in Katowice
THE IMPACT OF CONTACT LENSES USAGE ON THEIR PHYSICOCHEMICAL PROPERTIES
- 4 **MARCELINA SARNA**
Rzeszów University of Technology
CHEMISTRY OF PAINKILLERS – FROM STRUCTURE TO MECHANISM OF ACTION
- 5 **MARCELINA SARNA**
Rzeszów University of Technology
MICROPLASTICS IN COSMETICS: A HIDDEN THREAT TO THE ENVIRONMENT AND HEALTH
- 6 **BRYGIDA STANEK**
Poznan University of Economics and Business
ACTIONS OF THE POLISH FASHION INDUSTRY FOR SUSTAINABLE DEVELOPMENT AND CIRCULAR ECONOMY

Posters

- 1 **DAWID GRABSKI**
Opole University of Technology
AI IN QUALITY ASSURANCE – SOFTWARE TESTING AUTOMATION
- 2 **MAREK KAMIŃSKI**
Poznań University of Life Sciences
EFFECT OF FOLIAR IRON FERTILIZATION ON THE CHEMICAL COMPOSITION AND ANTHOCYANIN CONTENT IN COMMON TOMATO FRUITS (SOLANUM LYCOPERSICUM L.)
- 3 **PIOTR KOSIEWICZ**
WISS Special Vehicles Ltd.
A TRANSPORT SYSTEM FOR A CONFIGURABLE ASSEMBLY LINE OF SPECIAL VEHICLES
- 4 **MICHAŁ KRASNOPOLSKI**
ZPE ZAPEL S.A.
INCREASING THE SCALE OF R&D WORKS CONDUCTED BY ZPE ZAPEL SA THROUGH THE DEVELOPMENT OF INNOVATIVE CERAMIC BUSHING TECHNOLOGY FOR ULTRA-HIGH VOLTAGE UHV
- 5 **PIOTR MICHAŁOWSKI**
Poznan University of Technology; Polish Academy of Sciences
APPLICATION OF CHEMOINFORMATICS TOOLS FOR PREDICTING ANTIFUNGAL PROPERTIES OF SECONDARY METABOLITES



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- 6 **DOMINIK MÜLLER**
AGH University of Krakow
BIOMASS FROM IN VITRO MUSHROOM CULTURES AS A NATURAL CARRIER FOR SILVER NANOPARTICLES (ENG)
- 7 **JACEK ROGALSKI**
Poznań University of Life Sciences
THE OPTIMISATION OF SEEDING MICROGREENS OF BRASSICA PLANTS IN HYDROPONIC CULTIVATION
- 8 **EWA SIKORA**
Silesian University of Technology
SYNTHESIS AND PROPERTIES OF COUMARIN-BASED PHOTOINITIATORS
- 9 **MAGDALENA TYMOSZEWICZ**
Wroclaw University of Science and Technology
HUMIC SUBSTANCES AS NATURAL CHELATORS IN AGRICULTURE (ENG)
- 10 **NATALIA WORONKO**
Białystok University of Technology
GREEN CITIES OF THE FUTURE – URBAN AGRICULTURE IN THE XXI CENTURY

HUMANITIES SCIENCES SESSION

Presentations

- 1 **JOANNA CHRZĄSZCZ**
Jan Grodek State University in Sanok
GLOBALIZATION AND ITS IMPACT ON THE MARKET
- 2 **ALEKSANDRA KRZYWDA**
Jan Grodek State University in Sanok
PROPERTY, AGRICULTURAL, FORESTRY TAX
- 3 **KAMIL KULAS**
Poznan University of Economics and Business
THE ROLE OF QUALITY IN GLOBAL MARKETS EXPANSION (ENG)
- 4 **DAWID MAKOWSKI**
University of Warmia and Mazury in Olsztyn
EDUCATION OF INDIVIDUALS WITH INTELLECTUAL DISABILITIES IN THE CONTEXT OF THE EDUCATION SYSTEM
- 5 **ZUZANNA RAJTAR**
University of Silesia in Katowice
MENTAL HEALTH, IDENTITY, AND SOCIAL CHALLENGES AMONG DEAF INDIVIDUALS: A LITERATURE REVIEW
- 6 **EDYTA ZDANOWSKA**
Adam Mickiewicz University in Poznań
CHALLENGES AND NEW OPPORTUNITIES IN COMMERCIAL LAW IN LIGHT OF THE AMENDMENTS TO THE COMMERCIAL COMPANIES CODE



Posters

- 1 **KLAUDIA BALA**
University of Economics in Cracow
DIGITAL TRANSFORMATION OF THE ECONOMY – THE IMPACT OF AUTOMATION
AND ARTIFICIAL INTELLIGENCE ON THE LABOR MARKET
- 2 **EMILIA BARZYK**
Jan Grodek State University in Sanok
UNDERSTANDING AUTISM
- 3 **ZUZANNA KĘDRA**
Jan Grodek State University in Sanok
FAKE NEWS AND DISINFORMATION AS A THREAT TO NATIONAL SECURITY
- 4 **JAKUB KRAWIEC**
Jan Grodek State University in Sanok
CYBERSECURITY AS THE BASIS OF INTERNAL SECURITY
- 5 **BARBARA KROK**
Jan Grodek State University in Sanok
THE USE OF ARTIFICIAL INTELLIGENCE IN INCREASING INTERNAL SECURITY
- 6 **WERONIKA KURNYTA**
Jan Grodek State University in Sanok
NETWORK SECURITY
- 7 **SARA WIKTORIA PARTYKA**
Cracow University of Economics
CENTRAL BANKS AND DIGITAL CURRENCIES (CBDC) - WILL CENTRAL BANK DIGITAL CURRENCIES
(CBDCS) REPLACE CASH?
- 8 **GABRIELA RĘKAS**
Cracow University of Economics
BANK COVENANTS
- 9 **KRZYSZTOF STĄCZEK**
Jan Grodek State University in Sanok
NETWORK SECURITY
- 10 **JUSTYNA SZYDEŁKO**
Cracow University of Economics
BEHAVIORAL ECONOMICS AND NEW TECHNOLOGIES – HOW DO ALGORITHMS INFLUENCE
CONSUMER DECISIONS?
- 11 **PATRYCJA TELEGA**
Cracow University of Economics
INFLATION – THE ECONOMY’S NUMBER ONE ENEMY?
- 12 **KINGA TOKARZ**
University of Economics in Cracow
DIGITAL FIGHT FOR THE CONSUMER