

## Conference Schedule

### MEDICAL SCIENCES SESSION

#### On-line Presentations

- 9:50 – 10:00    **Opening the Session and discussing technical matters**
- 1    10:00 – 10:10    **MAJA ŚWIDERSKA**  
*University of Agriculture in Krakow*  
THE ROLE OF NUTRITION IN SUPPORTING MATERNAL AND FETAL HEALTH DURING PREGNANCY
- 2    10:10 – 10:20    **BOŻENA CHRAPKIEWICZ-KNEBEL**  
*Silesian Medical University*  
PSYCHOLOGICAL ASPECTS OF CARE FOR GIRLS AFTER GYNECOLOGICAL PROCEDURES – THE IMPORTANCE OF SUPPORT IN PREVENTING EMOTIONAL AND SEXUAL DISORDERS
- 3    10:20 – 10:30    **DAWID PIEKARSKI**  
*University of Opole*  
GAUCHER'S DISEASE – BIOCHEMICAL BASIS, CLINICAL PICTURE AND MODERN TREATMENT METHODS
- 4    10:30 – 10:40    **KAROLINA TOMASIK**  
*University of Opole*  
THE USE OF ENZYME THERAPY IN THE TREATMENT OF METABOLIC DISEASES
- 5    10:40 – 10:50    **MARIKA WLAZŁO**  
*Medical University of Silesia in Katowice*  
QUALITY OF LIFE IN ONCOLOGICAL PATIENTS RECEIVING CHEMOTHERAPY

#### Presentations

- 1    **WIKTORIA BALCERZAK**  
*Upper Silesian Medical Center of the Silesian Medical University in Katowice*  
PERIPHERAL NEUROPATHIES – CAUSES, DIAGNOSIS, AND CLINICAL MANAGEMENT
- 2    **KAROLINA BUGNO**  
*Piastów Śląskich Medical University in Wrocław*  
ELECTROCONVULSIVE THERAPY – USE AND CARE
- 3    **ALEKSANDRA FLOREK**  
*Jan Grodek State University in Sanok*  
TRANSITIONAL STATES OF DEVELOPMENT IN CHILDREN
- 4    **KAROLINA FRĄCZEK**  
*Jan Kochanowski University in Kielce*  
CHRONIC ENDOMETRITIS: ARE ANTIBIOTICS THE ONLY TREATMENT OPTION?
- 5    **WERONIKA GRZESIAK**  
*University of Opole*  
NEUROPROTECTIVE MECHANISMS OF PHYSICAL EXERCISE IN NEURODEGENERATIVE DISEASES (ENG)
- 6    **JOANNA HUK**  
*University of Opole*  
ARTIFICIAL INTELLIGENCE IN GYNECOLOGY
- 7    **EWELINA KAMIŃSKA**  
*Higher School of Management and Entrepreneurship in Walbrzych*  
ULTRAVIOLET RADIATION

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- 8 **EMILIA KAMIZELA**  
*Medical University of Lublin*  
HPV-RELATED CARCINOGENESIS – PREVENTION AND TREATMENT STRATEGIES
- 9 **EMILIA KAMIZELA**  
*Medical University of Lublin*  
THE IMPACT OF IDH1 AND IDH2 MUTATIONS ON THE COURSE OF GLIOMAS – THERAPEUTIC IMPLICATIONS (ENG)
- 10 **KACPER KAZIMIERCZUK**  
*University of Opole*  
THE USE OF PSILOCYBIN IN TREATING DEPRESSION
- 11 **TOMASZ KLAUDEL**  
*University of Opole*  
CURRENT STATE OF KNOWLEDGE ABOUT STARGARDT’S DISEASE
- 12 **ZOFIA KLICH**  
*University of Opole*  
ASSESSMENT OF PELVIC MRI EFFECTIVENESS IN BRCA MUTATION CARRIERS UNDERGOING RISK-REDUCING SALPINGO-OOPHORECTOMY.
- 13 **MICHAŁ KOSTRO**  
*University of Opole*  
FROM CLASSIC ELECTRODES TO SMART TEXTILES: THE EVOLUTION OF ELECTROCARDIOGRAPHY (ENG)
- 14 **EMILIA LICHAJ**  
*University of Opole*  
CURRENT STATE OF KNOWLEDGE ON THE CONNECTION BETWEEN THE DEVELOPMENT OF MULTIPLE SCLEROSIS (MS) AND COVID-19
- 15 **MICHALINA ŁOSOŃ**  
*University of Opole*  
THE EPIDEMIOLOGY AND PATHOPHYSIOLOGY OF CHRONIC VENOUS INSUFFICIENCY AND VARICOSE VEINS
- 16 **ALEKSANDRA MALINOWSKA**  
*University of Opole*  
NEUROSTIMULATORS IN MODERN MEDICINE: CLINICAL APPLICATIONS OF VAGUS NERVE AND DEEP BRAIN STIMULATION (ENG)
- 17 **MAJA MIKURENDA**  
*The John Paul II University of Lublin*  
EVALUATION OF THE IMPACT OF HANDLING AND MUSIC ON ANXIETY-LIKE BEHAVIORS IN LABORATORY RATS USING THE ELEVATED PLUS-MAZE TEST
- 18 **MARTYNA MYDLIKOWSKA**  
*University of Opole*  
ALEXANDER DISEASE – CLINICAL AND GENETIC ASPECTS OF A RARE LEUKODYSTROPHY
- 19 **SYLWIA OTULAK**  
*University of Opole*  
CURRENT STATE OF KNOWLEDGE ABOUT CROHN’S DISEASE
- 20 **MICHAŁ PELCZARSKI**  
*University of Opole*  
BEHÇET’S DISEASE – CURRENT STATE OF KNOWLEDGE
- 21 **OLIWIA RAK**  
*University of Opole*  
ANTAGONISTIC EFFECTS OF SALUSIN A AND B ISOFORMS

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- 22 **JULIA RAROK**  
*University of Opole*  
POLYCYSTIC OVARY SYNDROME – A DIAGNOSTIC CHALLENGE AND A COMPREHENSIVE THERAPEUTIC APPROACH
- 23 **LUIZA RYDZOWSKA**  
*Jan Kochanowski University in Kielce, Collegium Medicum*  
TETANUS – OLD DISEASE, NEW VICTIMS
- 24 **JANINA RZESZOT**  
*Vincent Pol University in Lublin*  
UNDERSTANDING PHYSIOTHERAPY FROM AN ECOLOGICAL PERSPECTIVE (ENG)
- 25 **JAKUB SADOWSKI**  
*University of Opole*  
AUTOIMMUNE ENCEPHALOPATHIES OF PARANEOPLASTIC AND NON-PARANEOPLASTIC ORIGIN – A SYSTEMATIC REVIEW OF THE ROLE OF ANTINEURONAL AUTOANTIBODIES IN THE PATHOGENESIS AND PROGNOSIS OF THE DISEASE
- 26 **MICHAŁ SIKORSKI**  
*University of Opole*  
CURRENT STATE OF KNOWLEDGE ON EWING SARCOMA
- 27 **EWA STASZAK**  
*University of Opole*  
CHARACTERISTICS OF EXPLODING HEAD SYNDROME
- 28 **KRYSTIAN SZCZYGIEŁ**  
*University of Opole*  
LITERATURE REVIEW – CURRENT STATE OF KNOWLEDGE ON HEPATITIS C (HCV)
- 29 **DOMINIK TENCZYŃSKI**  
*University of Opole*  
THE ROLE OF VIRTUAL REALITY IN MODERN CARDIAC SURGERY(ENG)
- 30 **WERONIKA WITEK**  
*University of Opole*  
NIGHT EATING SYNDROME – AN INTERDISCIPLINARY DIAGNOSTIC AND THERAPEUTIC CHALLENGE
- 31 **MARCELINA WOJTANOWSKA**  
*Jan Grodek State University in Sanok*  
ALOPECIA AREATA IN CHILDREN – DIAGNOSTIC AND THERAPEUTIC CHALLENGES
- 32 **SZYMON WOLANIUK**  
*University of Opole*  
CURRENT STATE OF KNOWLEDGE ABOUT KASABACH-MERRITT SYNDROME
- 33 **WERONIKA WOSKOWSKA**  
*University of Opole*  
ABUSE, WITH THE ASPECT OF POISONING, OF PSYCHOACTIVE SUBSTANCES IN CHILDREN, ADOLESCENTS AND ADULTS



**Posters**

- 1 **AGNIESZKA POLAK**  
*Medical University of Silesia*  
CELL-PENETRATING PEPTIDES (CPPS) IN ENHANCING THE DELIVERY EFFICACY OF ANTISENSE PNA MOLECULES
- 2 **ADAM SIEBIESZUK**  
*Medical University of Białystok*  
BREATHWORK AND STRESS: INVESTIGATING THE MECHANISMS OF ACTION AND EFFECTIVENESS OF BREATHING INTERVENTIONS IN MODULATING THE PSYCHOPHYSIOLOGICAL RESPONSE TO ACUTE STRESS
- 3 **MARIA SŁOŃSKA**  
*University of Opole*  
UROGYNECOLOGICAL PHYSIOTHERAPY IN THE PERINATAL PERIOD AS A KEY TO BETTER QUALITY OF LIFE FOR WOMEN IN SOUTHWESTERN POLAND
- 4 **JAKUB STALMACH**  
*University of Physical Education in Kraków*  
AI IN MODERN COSMETOLOGY: PERSONALIZATION AND PRECISION FOR THE FUTURE OF SKINCARE
- 5 **KAROLINA WOJDYŁO**  
*University of Opole*  
FROM UNAWARENESS TO STANDARD PRACTICE: UROGYNECOLOGICAL PHYSIOTHERAPY IN SOUTHWESTERN POLAND THROUGH THE EYES OF WOMEN

## **TECHNICAL AND NATURAL SCIENCES SESSION**

### **On-line Presentations**

- 9:50 – 10:00 **Opening the Session and discussing technical matters**
- 1 10:00 – 10:10 **SZYMON ARAJ**  
*Medical University of Warsaw*  
METHODOLOGY AND IMPORTANCE OF MODERN STRUCTURAL, PHYSICOCHEMICAL AND MOLECULAR MODELING STUDIES ON THE EXAMPLE OF A COMPOUND WITH NOOTROPIC ACTIVITY – NOOPEPT
  - 2 10:10 – 10:20 **NIKODEM BULANDA**  
*University of Applied Sciences in Nowy Sącz*  
ANALYSIS OF LARGE GIS DATASETS AS A KEY TO ADAPTING AND DEVELOPING AGENT-BASED SYSTEMS FOR THE DESIGN AND SITE SELECTION OF ENERGY FACILITIES
  - 3 10:20 – 10:30 **MONIKA KOPEĆ**  
*Lodz University of Technology*  
ANALYSIS OF METABOLIC CHANGES IN HUMAN COLON CELLS USING RAMAN SPECTROSCOPY AND IMAGING
  - 4 10:30 – 10:40 **KONRAD KRAKOWSKI**  
*University of Agriculture in Krakow*  
RECYCLING USED CELLS: FROM WASTE TO RESOURCE
  - 5 10:40 – 10:50 **ALEKSANDRA SAWECZKO**  
*University of Life Sciences in Lublin*  
ASSESSMENT OF THE VIABILITY OF BIFIDOBACTERIUM ISOLATES UNDER ACIDIC PH CONDITIONS
  - 6 10:50 – 11:00 **PATRYK WIŚNIEWSKI**  
*University of Warmia and Mazury in Olsztyn*  
PATHOGENIC POTENTIAL OF FUSARIUM SPP. IN CEREAL CROPS

## **Presentations**

- 1 **BARTŁOMIEJ BRUSZEWSKI**  
*Białystok University of Technology*  
MATHEMATICAL METHODS OF ATTACKING ASYMMETRIC CRYPTOGRAPHY SYSTEMS
- 2 **MARTA GRYC**  
*Białystok University of Technology*  
BIODIVERSITY IN CEMETERY DESIGN: BETWEEN THE SACRED AND THE ECOLOGICAL
- 3 **MAŁGORZATA KOWALCZYK**  
*University of Life Sciences in Lublin*  
ANISAKIS SIMPLEX
- 4 **DOMINIKA KRAKOWIAK**  
*University of Life Sciences in Lublin*  
HEAVY METALS IN THE ENVIRONMENT AND FOOD CHAIN AS A PUBLIC HEALTH RISK FACTOR (ENG)
- 5 **MAŁGORZATA LATOSZEWSKA**  
*Warsaw University of Life Sciences – SGGW*  
EFFECT OF CALCIUM CHLORIDE ON THE PHYSICAL STABILITY OF COLLAGEN-AGAR EMULSION GELS (ENG)
- 6 **ZOFIA MAKOWEŃSKA**  
*Adam Mickiewicz University*  
N-ACYLATION OF THE IMIDAZOLE RING IN THEOBROMINE AND THE PYRIMIDINE RING IN THEOPHYLLINE AND STRUCTURE-ACTIVITY RELATIONSHIP OF THE OBTAINED COMPOUNDS
- 7 **WIKTORIA MUSZAK**  
*University of Life Sciences in Lublin*  
DIROFILARIA SPP. – CHARACTERISTICS AND DIAGNOSTIC METHODS
- 8 **KAROLINA PNIACZEK**  
*University of Life Sciences in Lublin*  
THE HONEY BADGER – FEARLESS PREDATOR AND SURVIVAL MASTER
- 9 **MARCELINA SARNA**  
*Rzeszów University of Technology*  
FOOD UNDER THE MICROSCOPE – THE IMPACT OF HARMFUL CHEMICALS ON HUMAN HEALTH
- 10 **MARCELINA SARNA**  
*Rzeszów University of Technology*  
INK UNDER THE SKIN – CHEMICAL SECRETS OF TATTOOS AND THEIR EFFECT ON HEALTH

## **Posters**

- 1 **ANNA FENYK**  
*University of Lodz*  
THE INFLUENCE OF VARIOUS ADDITIVES ON THE PROPERTIES OF MAGNETORHEOLOGICAL FLUIDS AND ELASTOMERS
- 2 **DOMINIKA GULDA**  
*Scientific-Didactic Council Bydgoszcz Zoological Garden, Forest Park for Culture and Leisure in Bydgoszcz "MYŚLEĆCINEK" Sp. z o.o.*  
ASSESSMENT OF INTER-SPECIES INTERACTIONS BETWEEN LLAMAS (LAMA GLAMA) AND CAPYBARAS (HYDROCHOERUS HYDROCHAERIS) IN THE “SOUTH AMERICA” EXHIBIT AT THE BYDGOSZCZ ZOOLOGICAL GARDEN (ENG)
- 3 **MICHAŁ KOPEĆ**  
*Lodz University of Technology*  
POST-PROCESSING AND FILTERING TECHNIQUES FOR THERMAL IMAGES FROM LOW-COST CAMERAS

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- 4 **PATRYK LESZCZAK**  
*Rzeszow University of Technology*  
NUMERICAL ANALYSIS OF SPRAY ZONE DYNAMICS IN THE TABLET COATING PROCESS USING THE DISCRETE ELEMENT METHOD (DEM): INFLUENCE OF OPERATING PARAMETERS
- 5 **MONIKA LIK**  
*Scientific-Didactic Council Bydgoszcz Zoological Garden, Forest Park for Culture and Leisure in Bydgoszcz “MYŚLĘCINEK” Sp. z o.o.*  
REACTIVITY TO AN EXTERNAL STIMULUS (DEMOTIVATOR) OF A RED PANDA IN THE PRESENCE OF A MOTIVATOR – CASE REPORT (ENG)
- 6 **MONIKA LIK**  
*Scientific-Didactic Council Bydgoszcz Zoological Garden, Forest Park for Culture and Leisure in Bydgoszcz “MYŚLĘCINEK” Sp. z o.o.*  
VOCAL COMMUNICATION PATTERNS IN CAPTIVE RED-CROWNED CRANES (GRUS JAPONENSIS) IN ZOOLOGICAL GARDEN CONDITIONS: PILOT STADY (ENG)
- 7 **MACIEJ MAZUR**  
*Silesian University of Technology / AWECO Appliances Sp. z o.o.*  
LIQUID COOLING ANALYSIS OF BLDC MOTORS
- 8 **KRZYSZTOF MŁYNARCZYK**  
*Bialystok University of Technology*  
KINEMATIC ANALYSIS OF A FOUR-BAR MECHANISM
- 9 **HUBERT NADLEWSKI**  
*Bialystok University of Technology*  
THE IMPACT OF SMART HOME SOLUTIONS ON IMPROVING THE COMFORT AND QUALITY OF LIFE OF HOUSEHOLD MEMBERS
- 10 **ANTONI PAWŁOWICZ**  
*Gdańsk University of Technology*  
ESTIMATING BATTERY SOH AND SOC ACROSS EXTENDED CYCLING SEQUENCES (ENG)
- 11 **NATALIA SWOBODA**  
*Silesian University of Technology*  
MEASUREMENT OF CRITICAL MICELLE CONCENTRATION: DIRECT AND INDIRECT APPROACHES APPLIED TO TWEEN 20 AND POEOMA

## **HUMANITIES SCIENCES SESSION**

### **On-line Presentations**

- 11:00 – 11:10 **Opening the Session and discussing technical matters**
- 1 11:10 – 11:20 **KAROL GAŁUS**  
*Maria Curie-Skłodowska University in Lublin*  
THE ROLE OF DISASTER DIPLOMACY IN REDUCING TENSIONS IN GREEK-TURKISH RELATIONS
- 2 11:20 – 11:30 **VADYM REKEL**  
*Humanitas University in Sosnowiec*  
THE ROLE OF CRYPTOGRAPHIC HASH FUNCTIONS IN DIGITAL FORENSICS: EVIDENTIARY RELEVANCE, METHODOLOGICAL RISKS, AND STANDARDS
- 3 11:30 – 11:40 **VADYM REKEL**  
*Humanitas University in Sosnowiec*  
THE ROLE OF A DIGITAL FORENSICS EXPERT IN CRIMINAL PROCEEDINGS – BOUNDARIES OF EXPERT OPINION AND ADVERSARIAL SAFEGUARDS
- 4 11:40 – 11:50 **CEZARY SŁOWIK**  
*European Academy of Applied Medical and Social Sciences*  
APPLICATION AND IMPORTANCE OF MEDIATION IN POLISH LAW – SELECTED ISSUES

## **Presentations**

- 1 **JOANNA CHRZĄSZCZ**  
*Jan Grodek State University in Sanok*  
POLITICAL AND ECONOMIC SITUATION OF GERMANY
- 2 **OLGA GRAJEK**  
*University of Wrocław*  
PARTNERSHIP WITHOUT MEMBERSHIP – NORWAY'S RELATIONSHIP WITH THE EUROPEAN UNION
- 3 **WIKTORIA KRAKOWIAK**  
*Maria Curie-Skłodowska University*  
BETWEEN EMPATHY AND EFFICIENCY – THE ROLE OF SOCIAL COMPETENCES IN SCIENCE AND WORK
- 4 **EWA PŁACHTA**  
*WSB University in Dąbrowa Górnicza*  
ARE SCHOOLS REALLY NECESSARY? EDUCATION IN THE AGE OF MICROLEARNING (*ENG*)
- 5 **MATEUSZ ŻAK**  
*Poznan University of Physical Education,*  
HISTORICAL HERITAGE AND TOURISM DEVELOPMENT, IN THE CONTEXT OF OUTDOOR GAMES

## **Posters**

- 1 **GABRIELA KRZECZEK**  
*Krakow University of Economics*  
SENSORY MARKETING – HOW TO ENGAGE CUSTOMERS' SENSES IN THE PURCHASING PROCESS? (*ENG*)
- 2 **MAGDALENA ANNA SZCZERBA**  
*University of Economics in Cracow*  
GLOBALIZATION – THE WORLD CLOSER TO US
- 3 **JUSTYNA SZYDEŁKO**  
*University of Economics in Krakow*  
HOW LEARNING ECONOMICS CHANGES THE WAY THE YOUNG GENERATION PERCEIVES THE WORLD
- 4 **KINGA TOKARZ**  
*Cracow University of Economics*  
BEHAVIORAL ECONOMICS
- 5 **PATRYCJA TRUCHAN**  
*Cracow University of Economics*  
THE IMPACT OF ARTIFICIAL INTELLIGENCE ON THE LABOR MARKET