



## Conference Schedule

### HUMANITIES SCIENCES SESSION

#### On-line Presentations

- 09:50 – 10:00 **Opening the Session and discussing technical matters**
- 1 10:00 – 10:10 **MAREK BRYJA**  
*University of Ss. Cyril and Methodius in Trnava, Slovak Republic*  
THE HISTORY AND DEVELOPMENT OF THE SLOVAK ASSOCIATION IN POLAND
- 2 10:10 – 10:20 **KRZYSZTOF CHMIELEWSKI**  
*Kazimierz Wielki University*  
MANAGING DECISION INERTIA IN CONTEMPORARY VIDEO GAMES: A CLASSIFICATION  
(ENG)
- 3 10:20 – 10:30 **SALIH AHMED ELFURTI**  
*University of Gdańsk*  
THE IMPACT OF INFLATION AND GDP PER CAPITA ON THE FOREIGN DIRECT  
INVESTMENT IN LIBYA (ENG)
- 4 10:30 – 10:40 **SYLWIA KAŁUŻA**  
*College of Linguistics in Częstochowa*  
FOOD PACKAGING AS A COMMUNICATION VEHICLE: A PRAGMALINGUISTIC  
AND SOCIOLINGUISTIC ANALYSIS
- 5 10:40 – 10:50 **MICHALINA MRÓZ**  
*University of Information Technology and Management in Rzeszów (WSliZ); PRME Chapter Poland*  
PRME AND THE I5 METHODOLOGY AS FOUNDATIONS OF SUSTAINABLE LEADERSHIP  
AND GREEN ENTREPRENEURSHIP (ENG)

#### Presentations

- 1 **KARINA ADAMKIEWICZ**  
*Military University of Technology*  
ARTIFICIAL INTELLIGENCE AS A KEY COMPETENCE OF THE FUTURE EMPLOYEE –  
HOW AI IS CHANGING LABOR MARKET REQUIREMENTS
- 2 **JOANNA CHRZĄSZCZ**  
*State University of Jan Grodek in Sanok*  
CIVIL LAW CONTRACTS DIFFERENCES FROM THE EMPLOYMENT CONTRACTS  
AND SELF EMPLOYMENT
- 3 **JOANNA GREGORCZUK-PROSICKA**  
*University of Białystok*  
FEATURES OF CONTEMPORARY MOTHERHOOD IN THE WOMEN-MOTHERS NARRATIVES
- 4 **ALEKSANDRA JAGIELSKA**  
*University of Warmia and Mazury in Olsztyn*  
"SOMEONE WILL DEFINITELY DO SOMETHING": HOW SOCIAL MEDIA CONTRIBUTES  
TO THE DIFFUSION OF RESPONSIBILITY
- 5 **JUSTYNA KONOPELKO**  
*University of Białystok*  
ALCOHOL PROBLEM FROM THE PERSPECTIVE OF PEOPLE GROWING UP IN A FAMILY  
WITH A FATHER'S ALCOHOL PROBLEM



# National Scientific Conference Knowledge - Key to Success

9th edition

- 6 **ALEKSANDRA KRZYWDA**  
*State University of Jan Grodek in Sanok*  
COSTS OF OBTAINING INCOME, AND COSTS THAT ARE NOT TAX DEDUCTIBLE COSTS
- 7 **EWA ŁAPIŃSKA**  
*University of Białystok*  
THE FORM OF A WILL IN POLISH INHERITANCE LAW – STAGNATION OR MODERNIZATION?
- 8 **MARTYNA ROSA**  
*Jagiellonian University in Cracow*  
GENERATIONAL DIFFERENCES IN PERCEPTION AND USE OF TECHNOLOGY AT WORK (ENG)
- 9 **PIOTR RUDNICKI**  
*University of Warsaw*  
THE EXTENT OF THE IMPACT OF VARIOUS INDICATORS ON THE IMPLEMENTATION OF RENEWABLE SOURCES AS GRASPED BY THE STUDY OF THE PODKARPACIE PROVINCE (ENG)

## Posters

- 1 **OLIWIA MIERNIK**  
*Jagiellonian University*  
THE IMPACT OF FOOTBALL TRANSFERS ON FAN ATTITUDES AND LOYALTY TOWARDS THE CLUB AND PLAYER
- 2 **EWA PŁACHTA**  
*WSB University in Dąbrowa Górnicza*  
ENGLISH LANGUAGE SKILLS AS A KEY TO SUCCESS FOR STUDENTS IN TECHNICAL SCHOOL. THE ROLE OF PROFESSIONAL ENGLISH IN IT AND ADVERTISING

## MEDICAL SCIENCES SESSION

### On-line Presentations

- 11:20 – 11:30 **Opening the Session and discussing technical matters**
- 1 11:30 – 11:40 **KLAUDIA BABIAK, NATALIA GEMBAROWSKA**  
*Medical College of Rzeszow University*  
POPULARIZATION OF ALTERNATIVE TREATMENT METHODS AMONG THE AMAZONS FROM THE PODKARPACIE REGION
- 2 11:40 – 11:50 **KAROLINA JANKOWSKA**  
*Silesian Medical University*  
PRESENCE AND INVOLVEMENT OF SPLICING REGULATORS ESRP1 AND ESRP2 IN THE EPITHELIAL-MESENCHYMAL TRANSITION (EMT) PROCESS IN BLADDER CANCER CELLS (ENG)
- 3 11:50 – 12:00 **ALEKSANDRA KIPER**  
*University of Rzeszów*  
THE USE OF BIOFEEDBACK IN SENSORY INTEGRATION THERAPY FOR CHILDREN WITH SENSORY PROCESSING DISORDERS – A CASE STUDY
- 4 12:00 – 12:10 **JANINA RZESZOT**  
*Higher School of Vocational Education*  
PHYSIOTHERAPY AS AN AID IN THE FUTURE FUNCTIONING OF A PATIENT WITH DEMENTIA
- 5 12:10 – 12:20 **MAJA ŚWIDERSKA**  
*University of Agriculture in Krakow*  
NUTRITION IN HYPERTENSION: SUPPORTING CARDIOVASCULAR HEALTH THROUGH AN APPROPRIATE DIET



- 6 12:20 – 12:30 **JUSTYNA TOKAREWICZ**  
*Medical University of Białystok*  
THE IMPACT OF MYOCARDIAL INFARCTION ON THE QUALITY OF LIFE, ACCEPTANCE  
OF THE DISEASE AND HEALTH BEHAVIORS OF PATIENTS TREATED INTERVENTIONALLY

### Presentations

- 1 **KATARZYNA BAZYLEWICZ-ZAKRZEWSKA**  
*University Public Clinical Hospital No. 1 of the Pomeranian Medical University in Szczecin*  
THE PURPOSE AND UTILITY OF LI-RADS IN LIVER LESION DIAGNOSIS
- 2 **GABRIELA BIEDROŃ**  
*Andrzej Frycz Modrzewski Krakow University*  
CERVICAL AND LUMBAR SPINE PAIN AMONG PEOPLE WORKING REMOTELY – HOW TO MANAGE IT?
- 3 **JOANNA HUK**  
*University of Opole, Opole, Poland*  
APPLICATION OF ARTIFICIAL INTELLIGENCE IN RADIOLOGY
- 4 **KACPER KAZIMIERCZUK**  
*University of Opole*  
EFFECTS OF CANNABINOIDS ON THE FUNCTIONING OF THE CENTRAL NERVOUS SYSTEM
- 5 **TOMASZ KLAUDEL**  
*University of Opole*  
CURRENT STATE OF KNOWLEDGE ABOUT GITELMAN SYNDROME
- 6 **MARTYNA MYDLIKOWSKA**  
*University of Opole*  
NEW PERSPECTIVES IN THE DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEASE
- 7 **MICHAŁ PELCZARSKI**  
*University of Opole*  
CURRENT STATE OF KNOWLEDGE ABOUT DEVIC'S DISEASE, LITERATURE REVIEW
- JULIA RAROK**  
*University of Opole*  
CURRENT STATE OF KNOWLEDGE ABOUT TERSON SYNDROME
- 9 **JAKUB SADOWSKI**  
*University of Opole*  
COVID-19-RELATED ENCEPHALOPATHY: PATHOPHYSIOLOGY, SYMPTOMS, AND THERAPEUTIC  
CHALLENGES
- 10 **MICHAŁ SIKORSKI**  
*University of Opole*  
TREATMENT METHODS FOR TETRALOGY OF FALLOT
- 11 **JULIA SIWEK**  
*Jan Kochanowski University in Kielce, Collegium Medicum*  
NURSING CARE IN THE TREATMENT OF INTESTINAL STOMA
- 12 **DOMINIK SROKA**  
*Maria Curie-Skłodowska University in Lublin*  
HIDDEN TREASURES OF NATURE: SELECTED EXAMPLES OF NATURAL SUBSTANCES THAT HAVE  
PROVEN TO BE CRUCIAL FOR MODERN MEDICINE
- 13 **WOJCIECH STRZĄLEK**  
*Maria Curie-Skłodowska University*  
PRECISION MEDICINE: HOW KNOWLEDGE OF GENES IS CHANGING THE WAY WE TREAT DISEASES



14 **WIKTOR TROJANOWSKI**

*University of Rzeszów*

THE IMPACT OF POPULAR DIETARY SUPPLEMENTS IN STRENGTH TRAINING ON HUMAN PHYSIOLOGY

15 **NATALIA WACEK**

*Jan Kochanowski University in Kielce, Collegium Medicum*

DYSFUNCTIONS AND PATHOLOGIES IN RUNNING

16 **SZYMON ZAKRZEWSKI**

*Pomeranian Medical University*

THE ROLE OF EPICARDIAL AND ENDOCARDIAL ABLATION IN MANAGING ELECTRICAL STORM IN PATIENTS WITH VENTRICULAR TACHYCARDIA – A CLINICAL CASE

### Posters

1 **NATALIA KUBRYŃ**

*Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University*

A NEW THERAPEUTIC APPROACH UTILIZING PROTAC: A STUDY ON THE BLOOD-BRAIN BARRIER PENETRATION OF ATORVASTATIN, LOVASTATIN, AND PRAVASTATIN

2 **ERYK PRAJWOS**

*Pomeranian Medical University in Szczecin*

NON-SURGICAL METHODS OF ACCELERATING TOOTH MOVEMENT (ENG)

3 **ZUZANNA ROGACZ**

*Medical University of Silesia in Katowice*

THE ROLE OF WNT/B-CATENIN SIGNALING PATHWAY IN COLORECTAL CANCER (ENG)

4 **NATALIA SZAREK**

*Medical University of Silesia in Katowice*

COMPARISON OF TOTAL HEMISPHERICAL REFLECTANCE AND EMISSIVITY OF TABLETS CONTAINING DIHYDROXY ALUMINUM SODIUM CARBONATE DEPENDING ON THE TIME OF STORAGE IN AMBIENT AND STRESS CONDITIONS (ENG)

5 **ADRIANNA WITCZYŃSKA**

*Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University*

EFFECTS OF PRORPANOLOL IN ALLEVIATING SITUATIONAL ANXIETY – IN SILICO AND IN VIVO STUDIES (ENG)

## NATURAL AND TECHNICAL SCIENCES SESSION

### On-line Presentations

09:50 – 10:00 **Opening the Session and discussing technical matters**

1 10:00 – 10:10 **KATARZYNA HOFFA**

*Poznan University of Technology*

INNOVATIVE CORE-SHELL HYBRID MATERIAL AS A PLATFORM FOR THE CONSTRUCTION OF ENZYMATIC BIOSENSOR SYSTEM FOR METABOLITE DETECTION (ENG)

2 10:10 – 10:20 **KRZYSZTOF KANAWKA**

*Blue Dot Solutions*

A CONCEPT FOR HYBRID GNSS/UWB NAVIGATION SYSTEM FOR AIRCRAFT GROUND HANDLING ASSETS TRACKING (ENG)

3 10:20 – 10:30 **KRZYSZTOF KANAWKA**

*Blue Dot Solutions*

USE OF LATTICE STRUCTURES FOR VARIOUS COMPONENTS OF SATELLITES (ENG)



# National Scientific Conference Knowledge - Key to Success

9th edition

- 4 10:30 – 10:40 **DANIEL KAPUŚCIŃSKI**  
*Cracow University of Technology*  
THE REACTION OF CYCLOPENTADIENE DERIVATIVES IN THE LIGHT OF QUANTUM-CHEMICAL CALCULATIONS BASED ON DENSITY FUNCTIONAL THEORY
- 5 10:40 – 10:50 **KAMIŁA KUŚMIERCZYK**  
*University of Warmia and Mazury in Olsztyn*  
GEOSMIN: THE SMELL OF RAIN AND THE TASTE OF CHRISTMAS CARP
- 6 10:50 – 11:00 **KAMIŁA KUŚMIERCZYK**  
*University of Warmia and Mazury in Olsztyn*  
THE IMPACT OF PET OWNERSHIP ON GUT MICROBIOTA AND HUMAN HEALTH
- COFFEE BREAK**
- 7 11:30 – 11:40 **VITALII MORSEYI**  
*Rzeszów University of Technology*  
AI-POWERED TRIP DISCOVERY: BALANCING CONSTRAINTS AND ATTRACTIVENESS
- 8 11:40 – 11:50 **JERZY SOBKOWSKI**  
*Poznan University of Technology*  
COST-EFFICIENT ODMR EXPERIMENTAL SETUP WITH TEMPERATURE CONTROL OF A SAMPLE IN RANGE OF MAMMALS' INTERNAL TEMPERATURES
- 9 11:50 – 12:00 **KLAUDIA SOWIŃSKA**  
*University of Warmia and Mazury in Olsztyn*  
REGENERATIVE AGRICULTURE
- 10 12:00 – 12:10 **OLEKSANDRA YAKOVLEVVA**  
*University of Gdansk*  
PRELIMINARY EVALUATION OF THE GENETIC DIVERSITY OF ENDOSYMBIOTIC BACTERIA WOLBACHIA INFECTING MYRMECOPHILOUS BEETLES MONOTOMA ANGUSTICOLLIS AND M. CONICICOLLIS (INSECTA: COLEOPTERA)
- 11 12:10 – 12:20 **JULIA ZABIEGAJ**  
*Cracow University of Technology*  
SYNTHESIS OF NEW BIOLOGICALLY ACTIVE N-{4-[(4-METHYL-3,4-DIHYDROQUINAZOLIN-2-YL)AMINO]BUTYL}ARYLSULFONAMIDES
- 12 12:20 – 12:30 **ANNA ZAWIASA**  
*Poznań University of Life Sciences*  
ANALYSIS OF LISTERIA INNOCUA RESISTANCE TO BENZALKONIUM CHLORIDE (BC)

## Presentations

- 1 **DOMINIKA KRZYSZTOFIK**  
*Jagiellonian University*  
FROM REACTION TO APPLICATION: THE SYNTHESIS OF CHALCONES AND THEIR APPLICATIONS
- 2 **BOGDAN MARCZAK**  
*Rzeszów University of Technology*  
ANALYSIS OF THE ANTIMICROBIAL PEPTIDE AMP DATABASES
- 3 **PIOTR MICHAŁOWSKI**  
*Poznan University of Technology*  
FUNGAL PROPERTIES OF RUBELLIN-TYPE SECONDARY METABOLITES CHARACTERISED BY CHEMOINFORMATICS TOOLS
- 4 **MIŁOSZ MOCARSKI**  
*Jagiellonian University*  
SYNTHESIS OF COVALENT PD-L1 PROTEIN INHIBITORS TARGETING THE LYSINE RESIDUE





5 **KATARZYNA STACH**

*AGH University of Science and Technologies in Krakow*

ASSESSMENT OF THE POSSIBILITY OF USING RAMAN SPECTROSCOPY IN FINGERPRINT ANALYSIS

**Posters**

1 **ZUZANNA BORCHERT**

*Gdańsk University of Technology*

MAGNETIC, THERMAL AND TRANSPORT PROPERTIES OF C14 LAVES COMPOUND SMRU<sub>2</sub> (ENG)

2 **ANNA FENYK**

*University of Lodz*

INVESTIGATIONS OF THE PROPERTIES OF SELECTED MAGNETORHEOLOGICAL MATERIALS

3 **PATRYCJA LEŚNIAK**

*University of Agriculture in Krakow*

HIDDEN DANGERS OF THE CITY: PARASITES IN URBAN SPACES AND THEIR IMPACT ON DOGS

4 **KACPER LEWIKOWSKI**

*University of Life Sciences in Lublin*

TELEMEDICINE IN VETERINARY PRACTICE THE FUTURE OF ANIMAL CARE IN THE DIGITAL AGE (ENG)

5 **KACPER LEWIKOWSKI**

*University of Life Sciences in Lublin*

THE IMPACT OF CLIMATE CHANGE ON THE SPREAD OF INFECTIOUS DISEASES IN ANIMALS (ENG)

6 **PIOTR MICHAŁOWSKI**

*Poznan University of Technology;*

*Polish Academy of Sciences*

CHEMOINFORMATICS SIMULATION OF LIGAND-PROTEIN INTERACTIONS USING SECONDARY METABOLITES OF THE FUNGUS RAMULARIA COLLO-CYGNI AS A MODEL

7 **KACPER SIWIAK**

*University of Life Sciences in Lublin*

IMPACT OF MICROPLASTICS ON THE HEALTH OF AQUATIC AND TERRESTRIAL ANIMALS (ENG)

8 **KACPER SIWIAK**

*University of Life Sciences in Lublin*

ANTIBIOTIC RESISTANCE IN VETERINARY MEDICINE: CHALLENGES AND STRATEGIES TO COMBAT A GLOBAL ISSUE (ENG)

9 **ALICJA SZOT**

*University of Life Sciences in Lublin*

EXPLORING THE MICROBIOME: IMPLICATIONS FOR HEALTH AND DISEASE (ENG)

10 **ALICJA SZOT**

*University of Life Sciences in Lublin*

THE ROLE OF KNOWLEDGE IN OVERCOMING GLOBAL CHALLENGES (ENG)

11 **BEATA SZRENIAWA**

*Cracow University of Technology*

CONDUCTIVE INKS BASED ON METAL NANOPARTICLES DEDICATED TO OPTOELECTRONICS