



## Conference Schedule

### HUMANITIES SCIENCES SESSION

#### On-line Presentations

- 09:50 – 10:00 **Opening the Session and discussing technical matters**
- 1 10:00 – 10:10 NATALIA KAWIAK  
(*Jesuit University Ignatianum in Krakow*)  
THE PERCEPTION OF SEXUAL MINORITIES IN POLAND IN SURVEYS
- 2 10:10 – 10:20 NINA KĘDZIORA  
(*University of Warsaw*)  
EVALUATIVE CONDITIONING. INFORMATION ABOUT THE STIMULUS RELATION
- 3 10:20 – 10:30 POLYCAP MUDOH  
(*University of Szczecin*)  
ASSESSING THE IMPACTS OF CHINA'S FOREIGN AID ON CAMEROON, BETWEEN THE PERIOD OF 2009-2020 (ENG)
- 4 10:30 – 10:40 ANNA NADROWSKA  
(*University of Gdańsk*)  
POLISH HIGHLANDER CULTURE IN STRYJEŃSKA'S WORK
- 5 10:40 – 10:50 MAŁGORZATA NIZIOŁEK  
(*Jagiellonian University*)  
THE RATIONALIZATION OF PARLIAMENTARIANISM IN POLISH CONSTITUTIONAL LAW
- 6 10:50 – 11:00 JOANNA NOWICKA  
(*PWSZ AS in Wałbrzych*)  
EDUCATION IN THE FIELD OF LOGISTICS DURING THE COVID-19 PANDEMIC
- 7 11:00 – 11:10 MONIKA SARNAT  
(*Pedagogical University of Cracow*)  
GENETIC MODIFICATIONS BY THE CRISPR/CAS9 METHOD AND USAGE OF SUCH TECHNIQUE IN THE FUTURE
- 8 11:10 – 11:20 MONIKA WRÓBEL  
(*Nicolaus Copernicus University in Torun*)  
TOURISM DURING THE COVID - 19 PANDEMIC. MOTIVES, PREFERENCES AND FEARS OF POLES REGARDING TOURIST TRIPS IN THE SECOND YEAR OF THE PANDEMIC

#### Presentations

- 1 PATRYCJA BĘLTOWSKA  
(*University of Szczecin*)  
INVESTMENTS IN THE INVESTMENT WINE MARKET - PROFITABILITY ANALYSIS FROM THE INVESTOR'S POINT OF VIEW (ENG)
- 2 MARIOLA BUDEK  
(*Cracow University of Economics*)  
GAMIFICATION AS A RECRUITMENT TOOL IN THE RESOURCE BASED VIEW (RBV) CONTEXTS
- 3 KAMIL JASTRZĘBSKI  
(*Jagiellonian University*)  
ANTI-SYSTEM RHETORIC IN THE MEDIA DURING THE ELECTIONS

NATIONAL SCIENTIFIC CONFERENCE  
"UNDERSTAND THE SCIENCE"  
V EDITION  
SEPTEMBER 25, 2021



- 4 NATALIA JEŻEWSKA  
(*University of Silesia*)  
DEVELOPING SPEECH IN CHILDREN IN KINDERGARDEN
- 5 PRZEMYSŁAW KOCH  
(*Wroclaw University of Economics and Business*)  
REASONS FOR RECOGNIZING „FAKE NEWS” AS DEMERIT GOODS AND PROSPECTS FOR REGULATING INFORMATION MARKETS
- 6 ARTUR ŁABUZ  
(*University of Szczecin*)  
METHODS AND TOOLS FOR MOTIVATING CREATIVE EMPLOYEES
- 7 NATALIA ŁANIECKA  
(*Adam Mickiewicz University in Poznań*)  
PROPER NAMES IN TRANSLATION: OUTLINE OF THE ISSUE, REVIEW OF TRANSLATION TECHNIQUES AND ANALYSIS OF EXAMPLES
- 8 MIKOŁAJ MAJ  
(*Adam Mickiewicz University in Poznan*)  
THE COMPARISON OF GRAMMAR IN THE POLISH LANGUAGE TO POLISH SIGN LANGUAGE
- 9 PRZEMYSŁAW MAZURCZAK  
(*The Siedlce University of Natural Sciences and Humanities*)  
LEGAL FOUNDATIONS OF CRISIS MANAGEMENT (ENG)
- 10 PRZEMYSŁAW MAZURCZAK  
(*The Siedlce University of Natural Sciences and Humanities*)  
BITCOIN A THREAT TO ECONOMIC SECURITY (ENG)
- 11 MONIKA MUCHA  
(*SWPS University of Social Sciences and Humanities in Warsaw*)  
WORKAHOLISM AND MOBBING AT WORK
- 12 AGATA MYSONA  
(*Jagiellonian University in Kraków*)  
CODEPENDENCY – A PSYCHOANALYTIC PERSPECTIVE
- 13 ANNA NADROWSKA  
(*University of Gdańsk*)  
THE NATIONAL STYLE IN THE SECOND POLISH REPUBLIC, BASED ON THE WORKS OF ZOFIA STRYJEŃSKA
- 14 ALINA NOWAK  
(*University of Silesia*)  
INTEGRATION ACTIVITIES IN THE PROCESS OF BUILDING A HARMONIOUS TEAM OF CLASSES
- 15 AGNIESZKA PALION-MUSIOŁ  
(*University of Bielsko-Biala*)  
UNDERSTAND THE INFPHRASIS. FROM LITERATURE TO PAINTING
- 16 MARTYNA PERZAN  
(*University of Warmia and Mazury in Olsztyn*)  
PRIMARY SCHOOL TEACHERS' OPINIONS ABOUT DISTANCE EDUCATION DURING A PANDEMIC
- 17 MARTYNA PERZAN  
(*University of Warmia and Mazury in Olsztyn*)  
FACTORS INFLUENCING THE ABILITY TO EMPATHIZE
- 18 JUSTYNA PERZAN  
(*University of Warmia and Mazury in Olsztyn*)  
COMPARISON OF YOUNG WOMEN AND YOUNG MEN ATTITUDE TO THEIR OWN BODY

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- 19 JUSTYNA PERZAN  
(*University of Warmia and Mazury in Olsztyn*)  
EDUCATION IN THE USA
- 20 JUSTYNA PIEREWOJ  
(*University of Białystok*)  
LOBBYING IN THE EUROPEAN UNION - LEGAL AND THE PRACTICAL ASPECTS (ENG)
- 21 KAROLINA PIOTROWSKA  
(*Warsaw University of Life Sciences*)  
COOPETITION - STRATEGY IN BUSINESS
- 22 JOANNA SIEWIERSKA  
(*University of Lodz*)  
LONG-TERM EFFECTS OF EARLY CHILDHOOD NEGLECT AND ABUSE
- 23 JOANNA SIEWIERSKA  
(*University of Lodz*)  
THE ROLE OF COGNITIVE PROCESSES IN THE DEVELOPMENT OF DEPRESSION
- 24 MAGDALENA SIKORSKA  
(*Cracow University of Economics*)  
ECONOMIC PERSPECTIVES OF RENEWABLE ENERGY SYSTEMS (ENG)
- 25 ALICJA TERELAK  
(*Nicolaus Copernicus University, Collegium Minus*)  
ALTRUISM: THE FOUNDATION OF SOCIAL GROUP FUNCTIONING AND ITS NEURONAL CORRELATES
- 26 ALICJA TERELAK  
(*Nicolaus Copernicus University, Collegium Minus*)  
VASOPRESSIN: MECHANISMS BEHIND SOCIAL BONDING AND ATTACHMENT
- 27 ARKADIUSZ TRELA  
(*AWSB University in Dąbrowa Górnicza*)  
THE IMPACT OF ORGANIZATIONAL CULTURE ON THE EFFECTIVENESS OF QUALITY MANAGEMENT (ENG)
- 28 JULIA UKLEJA  
(*University of Warmia and Mazury in Olsztyn*)  
CHALLENGES FACED BY AN EARLY CHILDHOOD EDUCATION TEACHER
- 29 JULIA UKLEJA  
(*University of Warmia and Mazury in Olsztyn*)  
THE USE OF WEBSITES IN EARLY CHILDHOOD EDUCATION
- 30 MAJA WYSOCKA  
(*The Pontifical University of John Paul II in Krakow*).  
LOVE, HOPE, FAITH. IMAGO CHRISTI IN THE POST-CONCILIAR THEOLOGICAL REFLECTION OF THE THREE POPES (JOHN PAUL II, BENEDICT XVI AND FRANCIS)

### Posters

- 1 NATALIA JEŻEWSKA  
(*University of Silesia*)  
CODING ON THE CARPET - WAYS AND SOLUTIONS FOR CREATIVE MATHEMATICAL EDUCATION
- 2 ALEKSANDRA SAWICKA  
(*The Maria Grzegorzewska University*)  
THE IMPACT OF DYSLEXIA ON LEARNING LANGUAGES BY CHILDREN
- 3 DARIA WRUKOWSKA  
(*Nowe Pokolenie MK Agencja Social Media*)  
SENIOR IN SOCIAL MEDIA



## MEDICAL SCIENCES SESSION

### On-line Presentations

- 11:50 – 12:00 **Opening the Session and discussing technical matters**
- 1 12:00 – 12:10 **DARIA BUCZKOWSKA**  
*(University of Szczecin)*  
MOTIVATION OF SECONDARY SCHOOL STUDENTS TO TAKE PHYSICAL EDUCATION LESSONS AND PHYSICAL ACTIVITY DURING THE COVID-19 PANDEMIC
- 2 12:10 – 12:20 **JĘDRZEJ DYK**  
*(Nicolaus Copernicus University in Toruń)*  
CHARACTERISTICS OF SOCIAL PHOBIA INCLUDING DIAGNOSTIC AND THERAPEUTIC ASPECTS
- 3 12:20 – 12:30 **ROBERT GATTNER**  
*(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)*  
GADOLINIUM-BASED CONTRAST AGENTS AS A RISK OF NEPHROGENIC SYSTEMIC FIBROSIS IN PATIENTS WITH ADVANCED CHRONIC KIDNEY DISEASE
- 4 12:30 – 12:40 **MAKSYMILIAN KĘDZIA, KATARZYNA KOWALSKA**  
*(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)*  
SIGNIFICANCE OF SLEEP IN OUR LIVES
- 5 12:40 – 12:50 **BARTOSZ KULPA**  
*(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)*  
THE IMPACT OF HABITUAL COFFEE CONSUMPTION ON ARTERIAL HYPERTENSION
- 6 12:50 – 13:00 **KLAUDIA SMULEWICZ**  
*(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)*  
A NEW LOOK AT ELECTROCONVULSIVE THERAPY IN THE TREATMENT OF DEPRESSIONS
- 7 13:00 – 13:10 **KAMILA SOBCZAK, WIOLETTA NIEŚCIOR**  
*(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)*  
COMPARISON OF EVOLUTIONARY AND INDIVIDUAL DEVELOPMENT AS WELL AS GENETIC REGULATION IN THE FORMATION OF THE GIRDLE OF THE UPPER AND LOWER LIMBS
- 8 13:10 – 13:20 **KAMILA SOBCZAK**  
*(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)*  
THE ROLE OF HIV - 1 INFECTION IN THE PROGRESSIVE DETERIORATION OF THE NERVOUS SYSTEM
- 9 13:20 – 13:30 **MACIEJ SOKOŁOWSKI**  
*(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)*  
TOTAL HIP ARTHROPLASTY, WHICH APPROACH IS THE BEST?

### Presentations

- 1 **BARTOSZ BAGROWSKI**  
*(Poznan University of Medical Sciences)*  
PROPRIOCEPTION AND COGNITIVE PROCESSES
- 2 **BARTOSZ BAGROWSKI**  
*(Poznan University of Medical Sciences)*  
RELATIONSHIP OF SENSORY INTEGRATION WITH THE PSYCHOMOTOR DEVELOPMENT OF A CHILD
- 3 **ADRIAN BAKIERA**  
*(Medical University of Lublin)*  
MONOCYTOSIS AS A POTENTIAL PROGNOSTIC MARKER OF CHRONIC LYMPHOCYTIC LEUKEMIA

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- 4 ZUZANNA CAŁYNIUK  
(University of Life Sciences in Lublin)  
BODY COMPOSITION OF WOMEN NOT TAKING UP PHYSICAL ACTIVITY (ENG)
- 5 MAGDALENA IZDEBSKA  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
DOWNREGULATION OF MMP9 REGULATES THE METASTATIC POTENTIAL OF BREAST CANCER CELLS (ENG)
- 6 MAGDALENA JAŃCZYK  
(Medical University of Lublin)  
COVID 19- LOTS OF DIVERGENT INFORMATION IN THE MEDIA WORLD & FEW FACTS
- 7 MAGDALENA JAŃCZYK  
(Medical University of Lublin)  
FASHION FOR HEALTHY EATING - VEGETARIANISM WITH HEAD
- 8 DORIAN JAREK  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
ALPHA-SYNUCLEIN AND ITS ROLE IN NEURODEGENERATIVE DISEASES
- 9 DORIAN JAREK  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
MITOCHONDRIAL DISORDERS IN HUNTINGTON'S DISEASE
- 10 DORIAN JAREK  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
ROLE OF MITOCHONDRIAL DYSFUNCTIONS IN THE DEVELOPMENT AND COURSE OF MULTIPLE SCLEROSIS
- 11 NATALIA KAZIMIERCZAK  
(Kuyavian-Pomeranian University in Bydgoszcz)  
ONCOLOGICAL COMPLICATIONS IN DENTAL PRACTICE
- 12 OLIWIA KOTOWSKA  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
THE ROLE OF VITAMIN D IN THE DEVELOPMENT OF PSORIASIS
- 13 OLIWIA KOTOWSKA  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
THE RELATIONSHIP BETWEEN BREASTFEEDING AND POSTPARTUM DEPRESSION
- 14 JOANNA KRUSZKA  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
HONEY AND ITS ANTIOXIDANT EFFECT
- 15 JOANNA KRUSZKA  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
THE USE OF HYALURONIC ACID IN TISSUE REGENERATION
- 16 JOANNA KRUSZKA  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
TUMOR RESISTANCE MECHANISMS AND THE BREAST CANCER STEM CELL HYPOTHESIS
- 17 JUSTYNA KUBACKA  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
THE ROLE OF THE KYNURENINE PATHWAY OF TRYPTOPHAN METABOLISM IN TYPE 2 DIABETES
- 18 JAN MILANOWSKI  
(Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz)  
THE ROLE OF PERIOPERATIVE CONCENTRATIONS OF VITAMIN D IN THYROID SURGERY

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(*Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz*)  
ROLE OF SELECTED ADIPOKINES AND MELATONIN IN HUNTINGTON'S DISEASE
- 20 MARINA MILONA  
(*Pomeranian Medical University*)  
RECURRENT MYXOMA OF THE LEFT ATRIUM WITH AN EPISODE OF STROKE IN THE FORM OF RIGHT PARESIS, MIXED APHASIA, AND VASCULITIS OF THE LOWER LIMBS. A CASE RAPORT (ENG)
- 21 MARINA MILONA  
(*Pomeranian Medical University*)  
SURGICAL SITE INFECTIONS AFTER CARDIAC SURGERY: RISK FACTORS I PREVENTION STRATEGIES (ENG)
- 22 PAULINA MUCHA  
(*Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz*)  
THE ROLE OF GUT MICROBIOTA IN THE DEVELOPMENT AND TREATMENT OF OBESITY
- 23 PAULINA MUCHA  
(*Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz*)  
BUMETANIDE FOR AUTISM SPECTRUM DISORDER
- 24 MAGDA ORZOŁEK  
(*Nicolaus Copernicus University in Toruń Ludwik Rydygier Collegium Medicum in Bydgoszcz*)  
INTERVENTIONAL RADIOLOGY IN THE TREATMENT OF LIVER CANCERS
- 25 ALICJA REWERA-BURLIKOWSKA  
(*Department of Humanities in Medicine, PUM*)  
RELATIONSHIP OF ABO BLOOD GROUPS WITH THE OCCURRENCE OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)- RESULTS OF A PRELIMINARY SYSTEMATIC REVIEW
- 26 HUBERT ROLA  
(*Pomeranian Medical University*)  
PERSONALISED TREATMENT IN ORTHOPEDIC
- 27 HUBERT ROLA  
(*Pomeranian Medical University*)  
NEW STRATEGIES IN OSTEOSARCOMA TREATMENT
- 28 JULIA RUSZKIEWICZ  
(*Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz*)  
INFLUENCE OF THE PHYSICAL ACTIVITY AND SELECTED FOOD PRODUCTS ON THE FACTORS OF THE CARDIOVASCULAR RISK OF THE PEOPLE WITH OVERWEIGHT AND OBESITY
- 29 RENATA SEROKA  
(*Poznan University of Medical Sciences*)  
REVIEW OF ADVANCED THERAPIES IN PARKINSON'S DISEASE
- 30 SZYMON SIATKOWSKI  
(*The Jerzy Kukuczka Academy of Physical Education in Katowice*)  
THE IMPACT OF THE DIET INTERVENTIONS ON MENTAL DISORDERS
- 31 JAGODA SKRZESZEWSKA  
(*Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz*)  
EFFECT OF IRON DEFICIENCY ON HEART FAILURE
- 32 JAGODA SKRZESZEWSKA  
(*Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz*)  
EFFECT OF SUPPLEMENTATION WITH WITHANIA SOMNIFERA PREPARATIONS ON THE SYSTEMIC HOMEOSTASIS

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- 33 MARCIN SZUM  
(*Medical University of Lublin*)  
T FOLLICULAR HELPER CELL SUBSETS IN PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA
- 34 ALEKSANDRA TOMCZAK  
(*Medical University of Lublin*)  
KEY NEGATIVE IMMUNE CHECKPOINTS MOLECULES ON THE MONOCYTES– SHORT REVIEW (ENG)
- 35 ALICJA ZIĘTARA  
(*Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz*)  
INFLUENCE OF GUT MICROFLORA ON THE DEVELOPMENT AND COURSE OF ALZHEIMER'S DISEASE
- 36 ALICJA ZIĘTARA  
(*Nicolaus Copernicus University in Toruń, Ludwik Rydygier Collegium Medicum in Bydgoszcz*)  
THE RELATION BETWEEN ENDOMETRIOSIS AND OVARIAN CANCER

### Posters

- 1 ANNA BARANOWSKA  
(*Pomeranian Medical University in Szczecin*)  
ARSENIC EXPOSURE AND NEUROINFLAMMATION - A REVIEW
- 2 MAGDALENA DZIKOWIEC  
(*Medical University of Lodz*)  
HELICOBACTER PYLORI AND EPSTEIN-BARR VIRUS IN PATIENTS WITH GASTRIC CANCER (ENG)
- 3 KONRAD HOŁOWATY  
(*Jagiellonian University*)  
ADHD/ADD STIMULANT MEDICATIONS AND THEIR COGNITIVE-ENHANCING EFFECTS ON A HEALTHY ORGANISM: AN OVERVIEW OF ADDERALL AND ITS MEMORY AND ATTENTION-ENHANCING PROPERTIES
- 4 ALAN LANGER  
(*The Jerzy Kukuczka Academy of Physical Education in Katowice*)  
EVALUATION OF THE RELIABILITY OF THE RULER DROP TEST PERFORMED BY MIXED MARTIAL ARTS FIGHTERS (ENG)
- 5 TOMASZ PIETRUCHA  
(*Wroclaw Medical University*)  
ANTIMICROBIAL ACTIVITY OF C10(6)-RR-NH<sub>2</sub> LIPOPEPTIDE AGAINST MULTIDRUG-RESISTANT PSEUDOMONAS AERUGINOSA (ENG)
- 6 JACEK POLECHOŃSKI  
(*The Jerzy Kukuczka Academy of Physical Education in Katowice*)  
CAN VIRTUAL REALITY BOXING BE AN INTENSIVE FORM OF TRAINING FOR MIXED MARTIAL ARTS FIGHTERS? (ENG)
- 7 ALICJA REWERA-BURLIKOWSKA  
(*Medical University in Szczecin*)  
ASSESSMENT OF OBESITY IN THE TIMES OF THE SARS-COV-2 VIRUS EPIDEMIC
- 8 JANINA DANUTA RZESZOT  
(*University of Vocational Education*)  
GERIATRIC PATIENT IN A PALIATIVE WARD UNDER THE CARE OF A PHYSIOTERAPIST IN THE FIELD OF MEDICAL REHABILITATION (ENG)
- 9 MICHAŁ TOMASZEK  
(*Pomeranian Medical University*)  
ENVIRONMENTAL EXPOSURE TO CADMIUM AND THE DEVELOPMENT OF NEUROINFLAMMATION - A LITERATURE REVIEW



## TECHNICAL AND NATURAL SCIENCES SESSION

### On-line Presentations

- 09:50 – 10:00 **Opening the Session and discussing technical matters**
- 1 10:00 – 10:10 CZESŁAW FLIŚNIK  
(*University WSB*)  
MANAGEMENT OF INNOVATIONS IN THE ENERGY SECTOR
- 2 10:10 – 10:20 KAROLINA GŁĄB  
(*Rzeszow University of Technology*)  
THE ROLE OF PAMAM G3 DENDRIMER CONJUGATES WITH BIOTIN, D-GLUCOHEPTONO-1,4-LACTONE AND ALPHA-MANGOSTIN IN CANCERS THERAPY
- 3 10:20 – 10:30 DOMINIK GROCHALA  
(*AGH University of Science and Technology*)  
A NEW MWCNTS-BASED MATERIALS FOR BIOPOTENTIAL MEASUREMENTS
- 4 10:30 – 10:40 MONIKA HUSE-KUTOWSKA  
(*Bydgoszcz University of Science and Technology*)  
MYCOLOGICAL CONTAMINATION OF USED AIR CONDITIONING FILTERS CAR
- 5 10:40 – 10:50 MONIKA HUSE-KUTOWSKA  
(*Bydgoszcz University of Science and Technology*)  
MICROBIOLOGICAL AND TOXICOLOGICAL THREATS IN WORKPLACES
- 6 10:50 – 11:00 ADAM NAWROCKI  
(*Warsaw University of Life Sciences*)  
THE EFFECT OF SELECTED CYTOKININS ON MICROPROPAGATION OF ALTERNANTHERA FICOIDEA (L.) SM
- 7 11:00 – 11:10 MONIKA NOWAK  
(*University of Lodz*)  
OPTIMIZATION OF THE METHOD FOR THE DETERMINATION OF ZEARALENONE BIOTRANSFORMATION PRODUCTS BASED ON LIQUID CHROMATOGRAPHY COUPLED WITH MASS SPECTROMETRY
- 8 11:10 – 11:20 MONIKA NOWAK  
(*University of Lodz*)  
DETERMINATION OF CYCLIC HEXADEPSIPEPTIDES (DESTRUXINS) BY LIQUID CHROMATOGRAPHY COUPLED WITH MASS SPECTROMETRY
- 9 11:20 – 11:30 MICHAŁ PALCZEWSKI  
BEAUTY AND HARMONY IN PHYSICS
- 10 11:30 – 11:40 MICHAŁ PALCZEWSKI  
THE ISSUE OF MASS
- 11 11:40 – 11:50 ŁUKASZ PIETRASZEK  
(*Kazimierz Wielki University in Bydgoszcz*)  
SMART CONTRACTS - DIRECTION OF DEVELOPMENT OF MODERN TECHNOLOGIES
- 12 11:50 – 12:00 AGNIESZKA RICHERT  
(*Nicolaus Copernicus University in Toruń*)  
BIRCH TAR IN TERMS OF INNOVATIVE POLIMERIC ECOLOGICAL APPLICATIONS
- 13 12:00 – 12:10 EWA ROPELEWSKA  
(*The National Institute of Horticultural Research*)  
APPLICATION OF IMAGE ANALYSIS FOR CULTIVAR DISCRIMINATION OF APRICOT SEEDS  
(*ENG*)





## Presentations

- 1 AGATA BURSKA  
(*University of Warmia and Mazury in Olsztyn*)  
ELECTRONIC IDENTIFICATION
- 2 AGATA BURSKA  
(*University of Warmia and Mazury in Olsztyn*)  
ELECTROMAGNETIC RADIATION
- 3 DOMINIKA CZERWIŃSKA-GŁÓWKA  
(*Silesian University of Technology*)  
BIFUNCTIONAL CONDUCTING POLYMER MATRICES WITH ANTIBACTERIAL AND NEUROPROTECTIVE EFFECTS
- 4 MARIA DREWŃSKA  
(*Białystok University of Technology*)  
GLUED LAMINATED TIMBER IN ARCHITECTURE
- 5 TOMASZ FILIPIUK  
(*Military University of Technology*)  
DEVICES FOR MONITORING THE TECHNICAL CONDITION OF ENGINE OILS
- 6 ADONIS HILAL  
(*Warsaw University of Life Sciences (WULS-SGGW)*)  
MICRORHEOLOGICAL AND DESTABILIZATION BEHAVIORS OF PROTEIN AND POLYSACCHARIDE COLLOIDAL DISPERSIONS (*ENG*)
- 7 ALICJA HOŁOWIECKA  
(*Lublin University of Technology*)  
A STATISTICAL STUDY OF VARIOUS FACTORS' EFFECTS ON HUMAN WELL-BEING
- 8 ALICJA HOŁOWIECKA  
(*Lublin University of Technology*)  
THE USE OF MACHINE LEARNING METHODS TO PREDICT STROKE AMONG PATIENTS
- 9 ANETA KALBARCZYK  
(*Warsaw University of Technology*)  
GRAIN BOUNDARY ENGINEERING IN LI-ION BATTERIES
- 10 KRZYSZTOF KNAŚ  
(*Częstochowa University of Technology*)  
ALTERNATIVE FUELS IN THE SCOPE OF THE IED DIRECTIVE
- 11 JULIA KORCZYK  
(*Jagiellonian University*)  
ANIMAL COGNITIVE ABILITIES: FROM USING TOOLS BY CHIMPANZEES TO FMRI EXPERIMENTS ON DOGS
- 12 MONIKA KRAWCZYK  
(*Silesian University of Technology*)  
8-AMINOQUINOLINE GLYCOCONJUGATES - SYNTHESIS AND PRELIMINARY EVALUATION OF THEIR CYTOTOXICITY
- 13 MAGDALENA LISIŃSKA  
(*Silesian University of Technology*)  
POSSIBILITIES OF USING ORGANIC ACIDS AS LEACHING AGENTS FOR METAL RECOVERY
- 14 MAJ MIKOŁAJ  
(*Adam Mickiewicz University in Poznań*)  
THE CHLOROPLAST GENOME AS A 'SUPER-BARCODE' IN PLANT DNA BARCODING

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- 15 EWELINA MASIARZ  
(Warsaw University of Life Sciences)  
KALE AND APPLE POMACE AS RAW MATERIALS FOR MULTI-GRAIN SNACKS IN THE FORM OF BARS
- 16 MARZENA MAZUREK  
(University of Rzeszów)  
THE IMPORTANCE OF BIOMASS AS A RENEWABLE ENERGY SOURCE
- 17 MARZENA MAZUREK  
(University of Rzeszów)  
THE USE POPLAR (POPULUS SP.) IN AGROFORESTRY SYSTEMS
- 18 JAKUB OSYPIUK  
(University of Warmia and Mazury in Olsztyn)  
CHARACTERISTICS OF FELINE HYPERTHYROIDISM AS THE MOST COMMON CHRONIC DISEASE OF THE ENDOCRINE SYSTEM
- 19 JAKUB OSYPIUK  
(University of Warmia and Mazury in Olsztyn)  
CHARACTERISTICS OF CANINE HYPOTHYROIDISM AS A CHRONIC DISEASE OF THE ENDOCRINE SYSTEM
- 20 MACIEJ PRUSINOWSKI  
(University of Gdansk)  
INTERACTIONS OF RECOMBINANT PROTEINS RESEARCH WITH DEDICATED BIOSENSORS USING BLITZ TECHNOLOGY
- 21 ANITA RZADKIEWICZ  
(Adam Mickiewicz University in Poznań)  
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