

The 5th International Conference

New Trends on Sensing - Monitoring - Telediagnosis for Life Sciences

NT-SMT-LS 2020

July 3-4, 2020

PLENARY PRESENTATIONS

PL1	IS THERE A THRESHOLD SAFE ENOUGH FOR FOOD ALLERGIC PATIENTS? Patrizia Restani (1,2), Francesca Colombo (1), Simone Biella (1), Chiara Di Lorenzo (1) 1-Dept. of Pharmacological and Biomolecular Sciences, Università degli Studi di Milano, Milano, Italy; 2-CRC "Innovation for well-being and environment", Università degli Studi di Milano, Italy
PL2	PRECISION NUTRITION IN ROMANIA – A FRAMEWORK UNDER DEVELOPMENT Mihai Niculescu (1,2,3) 1- SPHERES, Timisoara, Romania; 2- Advanced Nutrigenomics, Cary, NC U.S.A.; 3 – Victor Babes University of Medicine and Pharmacy, Timisoara, Romania
PL3	A PROSPECTIVE ON APPLICATIONS OF BIOSENSORS IN MEDICAL FIELD Jean-Louis Marty (1,2) 1- Sensbiotech, Ceret, France; 2- Université de Perpignan Perpignan Cedex, France

S1. (Tele)diagnosis, (Tele)monitoring and (Tele)management in Medicine

1.	ETHICAL DILEMMAS IN TELEMEDICINE IN THE CORONAVIRUS ERA Liliana Rogozea, Florin Leasu, Dan Constantin, Eleonora Dinu, Daniela Marinescu Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania
2.	DIFFERENT STRATEGIES FOR THE ELECTROCHEMICAL DETECTION OF ANTIBIOTICS Adrian Blidar (1,2), Bogdan Feier (1), Stanislav Trashin (2), Karolien De Wael (2), Cecilia Cristea (1) 1-"Iuliu Hațieganu" University of Medicine and Pharmacy, Department of Analytical Chemistry, Cluj-Napoca, Romania, 2 -AXES Research Group, University of Antwerp, Antwerp, Belgium

3.	PREVALENCE OF PERI-IMPLANT INFLAMMATORY DISEASES AND THEIR ASSOCIATION WITH POTENTIAL RISK FACTORS Codruta Elena Ciurescu (1,2), Lorena Dima (1), Anca Gheorghiu (2), Vlad Alexandru Ciurescu (3), Dana Gabriela Festila (4) 1-Transilvania University of Brasov, Faculty of Medicine, Department of Fundamental Disciplines and Clinical Prevention, Brasov, Romania, 2- Periodontal private practice, Brasov, Romania; 3-Iuliu Hatieganu University of Medicine and Pharmacy Cluj-Napoca, Faculty of Dental Medicine, Cluj-Napoca, Romania; 4 – Dept. of Radiology and Maxilo Facial Surgery Department, Faculty of Dental Medicine, Iuliu Hatieganu University, Cluj Napoca, Romania
4.	UNUSUAL CLINICAL CASES OF FOOD ALLERGY: DIAGNOSIS AND IDENTIFICATION OF MAIN ALLERGENS Francesca Colombo (1), Chiara Di Lorenzo (1), Simone Biella (1), Francesca Mori (2), Elio Novembre (2), Simona Barni (2), Massimo Bassini (3), Patrizia Restani (1) 1- Dept. of Pharmacological and Biomolecular Sciences, Università degli Studi di Milano, Milano, Italy; 2- Paediatric Allergy and Immunology Unit, A. Meyer Children's Hospital, Department of Paediatric, University of Florence, Florence, Italy; 3- Fisiomedical Center, Umbertide (PG), Italy
5.	THE ROLE OF BIOCHEMICAL PARAMETERS IN ACUTE PANCREATITIS Georgiana Catalina Crisu (1), Valeriu Atanasiu (2), Mariana Jinga (2,3), Vasile Daniel Balaban (2,3), Irina Stoian (2), Mihaela Robu (4), Marilena Gilca (2), Laura Elena Gaman (2) 1- County Emergency Hospital of Ploiesti, Department of Gastroenterology, Ploiesti, Prahova county, Romania; 2- “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania; 3- “Dr Carol Davila” Central Emergency University Military Hospital, Bucharest, Romania; 4- “Professor Dr. Theodor Burghel” Hospital, Bucharest, Romania
6.	CONTROVERSIES IN VITAMIN D ROLES AND TESTING Antoanela Curici (1,2) 1- Carol Davila University of Medicine and Pharmacy, Faculty of Medicine, Bucharest, Romania; 2- Synevo Romania
7.	MUSIC THERAPY AS A HOME - BASED THERAPY METHOD IN THE CONTEXT OF DIGITAL LITERACY Cecilia Curis ”Dunarea de Jos” University of Galati, Faculty of Medicine and Pharmacy/Faculty of Arts, Galati, Romania
8.	VOLTAMMETRIC STUDIES OF RIVAROXABAN Natalia Festinger, Sylwia Smarzewska, Witold Ciesielski University of Lodz, Faculty of Chemistry, Department of Inorganic and Analytical Chemistry, Poland
9.	BORON-DOPED DIAMOND ELECTRODE IN ANTICOAGULANTS DETERMINATION Natalia Festinger, Sylwia Smarzewska, Witold Ciesielski University of Lodz, Faculty of Chemistry, Department of Inorganic and Analytical Chemistry, Poland
10.	MEDICAL TELE-EDUCATION AROUND THE WORLD BEFORE THE PANDEMIC CONTEXT – A REVIEW OF ADVANTAGES, LIMITATIONS AND PERSPECTIVES Ioana Ioniță, Andrea Neculau, Liliana Rogozea, Marius Alexandru Moga, Lorena Dima Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania
11.	TELEHEALTH - A NEW WAY TO EASE CAREGIVERS’ BURDEN Andrea Neculau, Laura Isop, Petru Ifteni, Mihaela Badea, Lorena Dima Transilvania University of Braşov, Faculty of Medicine, Brasov, Romania

12.	TELEDIAGNOSIS- IS THERE A PLACE IN FAMILY MEDICINE IN ROMANIA? Andrea Elena Neculau, Anca Lăcătuș, Mihai Văcaru Transilvania University of Brasov, Faculty of Medicine, Romania
13.	ABUSE SUBSTANCES IN CHILDREN AND ADOLESCENTS IN A PEDIATRIC POISON CENTRE Elena Madalina Petran, Delia Codruta Popa, Laura Elena Gaman Carol Davila University of Medicine and Pharmacy, Faculty of Medicine, Bucharest, Romania
14.	ELECTROANALYSIS OF DOXORUBICIN OR GEMCITABINE LOADED DRUG DELIVERY SYSTEMS Iulia Rus (1), Mihaela Tertiş (1), Violeta Paşcalău (2), Cecilia Cristea (1), Robert Săndulescu (1) 1-Department of Analytical Chemistry, Faculty of Pharmacy, Iuliu Haţieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania; 2- Department of Materials Science and Engineering, Technical University of Cluj-Napoca, Cluj-Napoca, Romania
15.	BLOOD CYANIDE DETERMINATION IN FIRE-RELATED FATALITIES- A NEW ANALYTICAL CHEMISTRY METHOD Daniel Tabian (1,2), Diana Bulgaru Iliescu (2,3), Gabi Drochioiu (4) 1-Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania; 2- „Grigore T. Popa” University of Medicine and Pharmacy Iasi, Iasi, Romania; 3- Institute of Legal Medicine Iasi, Iasi, Romania; 4- „Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry, Iasi, Romania
16.	DEVELOPMENT OF A NEW IN VIVO METHOD TO EVALUATE THE PHOTOPROTECTIVE ABILITY OF SUNSCREENS AGAINST HIGH ULTRAVIOLET RADIATION-B R. Sotler (1,3), Polonca Trebše (1), M. Bavcon Kralj (1), B. Bukovec (3), K. Jarni (2), R. Gošnak Dahmane (1) 1-Faculty of Health Sciences, University of Ljubljana, Slovenia; 2-Biotechnical Faculty, University of Ljubljana, Slovenia; 3-Faculty of Organisation Studies, Novo Mesto, Slovenia
17.	TELEHEALTH DURING PANDEMIC TIMES - A FUTURISTIC APPROACH Iosif Mezei Medical Center Tongtian /T.A.I.Q.M Sighisoara, Romania
18.	GRAPHENE–GOLD NANOSTRUCTURES HYBRID COMPOSITES SCREEN-PRINTED ELECTRODE FOR THE SENSITIVE ELECTROCHEMICAL DETECTION OF VANCOMYCIN Adrian Blidar, Bogdan Feier, Ana-Maria Drăgan, Cecilia Cristea ”Iuliu Haţieganu” University of Medicine and Pharmacy Cluj-Napoca, Cluj-Napoca, Romania
19.	THE MANAGEMENT OF THE CLINICAL LABORATORY IN THE EMERGENCY ROOM FOR PATIENTS WITH DIABETES Iosifescu Ioana Gral Medical Bucharest, Romania
20.	FEMALE FERTILITY PRESERVATION IN PATIENTS WITH MUSCULOSKELETAL CANCER Diana Mihai (1,2), Andreea Velişcu (1,2), Diana Comandaşu (1,2), Cătălin Coroleucă (1,2), Ciprian Coroleucă (1, 2), Claudia Mehedinţu (2,3), Costin Berceanu (4), Elvira Brătilă (1, 2) 1- Clinical Hospital of Obstetrics and Gynaecology “Prof. Dr. Panait Sârbu” , Bucharest, Romania; 2- “Carol Davila” University of Medicine and Pharmacy, Department of Obstetrics and Gynaecology, Bucharest, Romania; 3 -Clinical Hospital “Nicolae Malaxa”, Department of Obstetrics and Gynaecology, Bucharest, Romania; 4- University of Medicine and Pharmacy Craiova, Department of Obstetrics and Gynaecology, Craiova, Romania
21.	NIGELLA SATIVA- PROMISING APPROACH IN FIGHTING COVID-19 PANDEMIC Elena-Diana Panait, Mihaela Badea, Marius Moga, Nicusor Bigiu Transilvania University of Brasov, Faculty of Medicine, Romania
22.	CORRELATION OF THE LIFESTYLE OF SMOKERS WITH RESPIRATORY PATHOLOGIES WITH VARIATIONS OF BIOCHEMICAL, HEMATOLOGICAL AND HEAVY METAL CONTENT IN THE

	BLOOD Monica Andreea Pârvu (1), Liliana Rogozea (1), Oana Alexandrescu (1), Andrea Neculau (1), Laura Gaman (2), Mihaela Badea (1) 1- Transilvania University of Brasov, Faculty of Medicine, Romania; 2- Carol Davila University of Medicine and Pharmacy, Faculty of Medicine, Romania
23.	CHANGES OF HEMATOLOGICAL PARAMETERS IN CORRELATION WITH SMOKING STATUS IN ADULTS Andreea-Roxana Patrascu (1), Laura Gaman (2), Mihaela Badea (1) 1-Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania; 2-Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
24.	FLOW CYTOMETRY MONITORING OF A RELAPSED T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA WITH A NEW CLONE - CASE REPORT Codruta Popa (1,2), Andreea Șerbănică (1), Letiția Radu (1), Minodora Asan (1), Anca Gheorghe (1), Jardan, Coliță Anca (1, 2), Petran Madalina (2), Laura Gaman (2), Stoian Irina (2) 1- Fundeni Clinical Institute, Bucharest, Romania; 2- Carol Davila University of Medicine and Pharmacy, Faculty of Medicine, Bucharest, Romania
25.	STUDY ON THE LEVEL OF MOBILE PHONE CONTAMINATION IN THE MEDICAL STAFF OF THE LABORATORY Roxana Mariana Sbera, Mihaela Badea, Mihaela Idomir Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania
26.	LEVEL OF KNOWLEDGE THAT YOUNG ADULTS HAVE REGARDING THE USE OF NICOTINE-CONTAINING PRODUCTS Daniela Spanu, Mihaela Badea Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania
27.	CORRELATION OF HYDRATION BEHAVIOR AND PHYSICAL ACTIVITIES FOR A HEALTHY LIFESTYLE Gabriela Stefan (1), Mihaela Stefan (1), Laura Gaman (2), Mihaela Badea (1) 1- Transilvania University of Brasov, Faculty of Medicine, Romania; 2- Carol Davila University of Medicine and Pharmacy, Faculty of Medicine, Romania
28.	OXIDATIVE STRESS AND BIOCHEMICAL CHANGES ASSOCIATED TO PHYSICAL ACTIVITY Mihaela Stefan (1), Gabriela Stefan (1), Laura Gaman (2), Mihaela Badea (1) 1- Transilvania University of Brasov, Faculty of Medicine, Romania; 2- Carol Davila University of Medicine and Pharmacy, Faculty of Medicine, Romania
29.	INNOVATIVE STRATEGY FOR SIMULTANEOUS DETECTION OF TWO IMPORTANT SALIVARY MARKERS Mihaela Tertîș (1), Oana Hosu (1), Ana Teodora Ilea (1), Aranka Ilea (2), Cecilia Cristea (1) 1- Department of Analytical Chemistry, Faculty of Pharmacy, "Iuliu Hațieganu" University of Medicine and Pharmacy Cluj-Napoca, Romania; 2- Department of Oral Rehabilitation, Oral Health and Dental Office Management, Faculty of Dentistry, "Iuliu Hațieganu" University of Medicine and Pharmacy Cluj-Napoca, Romania
30.	ACUTE LYMPHOBLASTIC LEUKEMIA IN CHILDREN - DIAGNOSTIC ALGORITHM BY APPLYING THE LATEST WHO CRITERIA (2016) Mihaela Dobrină, Anca Ilea, Dana Voda Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania
31.	HISTORICAL REVIEW OF TRADITIONAL ROMANIAN FOOD Laura Gaman Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

32.	GLUTAMINE - NEVER ENDING RESOURCE IN LIVER DISEASE Elena Vasilica, Laura Elena Gaman, Valeriu Atanasiu Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
33.	POLLUTION AND PREMATURE BIRTH RISK Corina Grigoriu, Irina Horhoianu, Mircea Ichim, Oana Murgeanu, Laura Gaman Carol Davila University of Medicine and Pharmacy, Faculty of Medicine, Romania
34.	DIETARY PARTICULARITIES IN PREGNANCY Corina Grigoriu, Irina Horhoianu, Mircea Ichim, Oana Murgeanu, Laura Gaman Carol Davila University of Medicine and Pharmacy, Faculty of Medicine, Romania

S2. New Trends in Nutritional Sciences and Food Control

1.	BENEFITS AND SAFETY OF FOOD POLYPHENOLS IN HUMAN HEALTH: FOCUS ON THE BRAIN Rui FM Silva (1), Lea Pogacnik (2) 1- Research Institute for Medicines (iMed.Ulisboa) and Department of Biochemistry and Human Biology (DBBH), Faculty of Pharmacy, Universidade de Lisboa, Lisbon, Portugal; 2- Department of Food Science and Technology, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia
2.	DIETARY PATTERNS AND THEIR ROLE IN THE PREVENTION AND TREATMENT OF NEURODEGENERATIVE DISEASES Krzysztof Barć, Magdalena Kuźma-Kozakiewicz Medical University of Warsaw, Poland
3.	THE POTENTIAL HEALTH BENEFITS OF RESVERATROL: A REVIEW OF HUMAN STUDIES Chiara Di Lorenzo (1), Raúl Francisco Pastor (2,3), Francesca Colombo (1), Simone Biella (1), Patrizia Restani (1) 1- Department of Pharmacological and Biomolecular Sciences, Università degli Studi di Milano, Milan, Italy; 2- Polyphenols, Wine and Health, Internal Medicine IV Chair, University of Buenos Aires, Argentina; 3- Research Institute, Faculty of Medical Sciences, University of Aconagua, Mendoza, Argentina
4.	SEAWEED - THE AQUATIC MIRACLE IN THE FIGHT AGAINST HUMAN PAPILLOMA VIRUS AND CERVICAL CANCER Marius Alexandru Moga, Andreea Bălan, Oana Gabriela Dimienescu, Romina Sima, Luigi Marceanu, Lorena Dima Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania
5.	IN VITRO COMPARISON OF THE BIOACTIVITIES OF JAPANESE AND BOHEMIAN KNOTWEED ETHANOL EXTRACTS Lea Pogačnik, Tina Bergant, Mihaela Skrt, Nataša Poklar Ulrih, Jitka Viktorová and Tomáš Ruml University of Ljubljana, Biotechnical Faculty, Department of Food Science and Technology, Ljubljana, Slovenia
6.	PROSPECTS OF DEVELOPMENT OF PREPARATIONS BASED ON MUSHROOM BETA-GLUCANS AND MECHANISM OF THEIR ACTION Mark Shamtsyan Department of Technology of Microbiological Syntheses, Faculty of Chemical and Biotechnology, Saint Petersburg State Institute of Technology (Technical University), Saint Petersburg, Russia

7.	<p>DETERMINATION OF BIOGENIC AMINE-FORMING POTENTIAL OF NATURALLY OCCURING LACTIC ACID BACTERIA (LAB) STRAINS ISOLATED FROM THE GRAPES OF VITIS VINIFERA CV. REFOŠK GRAPE VARIETY</p> <p>Jelena Topić Božič (1), Lorena Butinar (2), Martina Bergant Marušič (1), Dorota Korte (1), Branka Mozetič Vodopivec (2)</p> <p>1- Laboratory for Environmental and Life Sciences, University of Nova Gorica, Nova Gorica, Slovenia; 2- Wine Research Centre, University of Nova Gorica, Vipava, Slovenia</p>
8.	<p>EVALUATION OF A VERSATILE MELDOLA BLUE BASED MEDIATOR WITH INCREASED STABILITY FOR BIOSENSING APPLICATIONS</p> <p>Alina Vasilescu (1), Ana Maria Titoiu (1), Diana Visinescu (2), Georgiana Necula-Petrareanu (3), Cristina Purcarea (3), Anca Bonciu (4,6), Cristian N. Mihailescu (4), Valentina Dinca (4)</p> <p>1-International Centre of Biodynamics, Bucharest, Romania, 2-Coordination and Supramolecular Chemistry Laboratory, "Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania, 3-Institute of Biology, Bucharest, Romania, 4- National Institute for Laser, Plasma and Radiation Physics (INFLPR), Magurele, Romania, 5- University of Bucharest, Faculty of Physics, Magurele, Romania</p>
9.	<p>EFFECTS OF VITAMIN E ON VISCERAL FAT- EXPERIMENTAL STUDY</p> <p>Bogdana Virgolici, M Balaban A, Dinu, D Miricescu, A Totan, Elvira Gubceag, Maria Greabu, Maria Mohora</p> <p>Carol Davila University of Medicine and Pharmacy, Faculty of Medicine, Bucharest, Romania</p>
10.	<p>RELATION BETWEEN URICEMIA, DYSLIPIDEMIA AND BLOOD CELL ASPECTS</p> <p>Bogdana Virgolici, Costina Daciana Stefan</p> <p>Carol Davila University of Medicine and Pharmacy, Faculty of Medicine, Bucharest, Romania</p>
11.	<p>BITTER TASTE: AN ETHNOPHARMACOLOGICAL PERSPECTIVE AND BEYOND</p> <p>Marilena GILCA</p> <p>Carol Davila University of Medicine and Pharmacy, Bucharest, Romania</p>
12.	<p>FAST ELECTROCHEMICAL ALTERNATIVES FOR RESVERATROL DETECTIONS FROM FOOD SUPPLEMENTS</p> <p>Cristina Adochite (1), Chiara di Lorenzo (2), Patrizia Restani (2, 3), Mihaela Badea (1), Elena Bobescu (1), Liviu Gaceu (4), Luminita Andronic (5), Mihai Varcu (1)</p> <p>1-Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania; 2-Dept. of Pharmacological and Biomolecular Sciences, Università degli Studi di Milano, Milano, Italy; 3- CRC "Innovation for well-being and environment", Università degli Studi di Milano, Italy; 4- Transilvania University of Brasov, Faculty of Food and Tourism, Brasov, Romania; 5-Transilvania University of Brasov, Faculty of Product and Environmental Design, Brasov, Romania</p>
13.	<p>NEW FUNCTIONAL FOOD PRODUCTS BASED ON BEE PRODUCTS, SILYBUM MARIANUM AND BERRIES</p> <p>Livia Apostol (1), Nastasia Belc (1), Liviu Gaceu (2)</p> <p>1-National Research & Development Institute for Food Bioresources – IBA Bucharest, Bucharest, Romania; 2- Transilvania University of Brasov, Faculty of Food and Tourism, Brasov, Romania</p>
14.	<p>ARE HOME COOKING EFFECTIVE IN DETOXIFYING GINKGO BILOBA SEEDS?</p> <p>Simone Biella (1), Francesca Colombo (1), Gianfranco Frigerio (2), Patrizia Restani (1), Chiara Di Lorenzo (1)</p> <p>1- Department. of Pharmacological and Biomolecular Sciences, Università degli Studi di Milano, Milano, Italy; 2- Department of Clinical Sciences and Community Health, IRCCS Cà Granda Ospedale Maggiore Policlinico Foundation, Università degli Studi di Milano, Italy</p>

15.	COMPARATIVE ANALYSES OF THE QUALITY OF CHEESE MOUNTAIN PRODUCTS, DEPENDING ON FEEDINGSTUFF COMPOSITION Andreea Ciopata (Andrioiu), Romulus Gruia, Liviu Gaceu Transilvania University of Brasov, Faculty of Food and Tourism, Brasov, Romania
16.	COMPARATIVE ANALYSES OF THE QUALITY OF MILK MOUNTAIN PRODUCTS, DEPENDING ON FEEDINGSTUFF COMPOSITION Andreea Ciopata (Andrioiu), Romulus Gruia, Liviu Gaceu Transilvania University of Brasov, Faculty of Food and Tourism, Brasov, Romania
17.	ASSESSMENT OF ANTIOXIDANT PROPERTIES OF WINES BY DIFFERENT IN VITRO METHODS Alexandrina Guidea, Dorina Casoni, Graziella Turdean, Simona Cobzac Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University of Cluj-Napoca, Cluj-Napoca, Romania
18.	OPTIMIZATION OF QUERCETIN EXTRACTION FROM BROWN ONION (ALLIUM CEPA L.) SKIN Mariana Gois Ruivo da Silva (1), Mihaela Skrt (1), Draženka Komes (2), Nataša Poklar Ulrih (1,3), Lea Pogačnik (1) 1- Department of Food Science and Technology, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia; 2- Department of Food Engineering, Faculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia; 3- The Centre of Excellence for Integrated Approaches in Chemistry and Biology of Proteins, Ljubljana, Slovenia
19.	VOLTAMMETRIC DETECTION OF SEROTONIN AT SCREEN-PRINTED CARBON ELECTRODES MODIFIED WITH MESOPOROUS CARBON Dorin Dăscălescu, Constantin Apetrei "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Galati, Romania
20.	BREAD DOUGH QUALITY EVALUATION BY USING ENERGY POWER METER SENSOR Liviu Gaceu Transilvania University of Brasov, Faculty of Food and Tourism, Brasov, Romania
21.	BREAST CANCER AND ITS CONNECTION TO OIL RICH DIETS Carmen Martinescu, Nicusor Bigiu, Marius Moga, Diana Panait Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania
22.	ELECTROANALYTICAL STUDIES OF METHOXYFENOZIDE Kamila Morawska, Witold Ciesielski, Sylwia Smarzewska Department of Inorganic and Analytical Chemistry, University of Lodz, Poland
23.	DEVELOPMENT OF AMMONIA SENSORS BASED ON POLYANILINS: SUPPORT TO QUALITY CONTROL OF MEAT PRODUCTS Djanira R. Santo (1), Rodrigo V. Blasques (1), Danilo B. Ribeiro (1), Eliane B. Ribeiro (2), Gilvanda S. Nunes (1) 1- Department of Technological Chemistry, Federal University of Maranhão, CCET/UFMA, CEP 65080-040, São Luis, MA, Brazil; 2- Post Graduation Program in Biodiversity and Biotechnology, Bionorte, UFMA, São Luis, MA, Brazil
24.	RESEARCHES ON THE CHEMICAL COMPOSITION AND THE RHEOLOGICAL PROPERTIES OF WHEAT AND GRAPE SEED FLOURS MIXES Oana Oprea Transilvania University of Brasov, Faculty of Food and Tourism, Brasov, Romania
25.	POMEGRANATE JUICE AND EXTRACT- IMPORTANT TOOLS IN BREAST CANCER PREVENTION Diana Panait, Marius Moga, Nicusor Bigiu, Mihaela Badea, Lorena Dima Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania
26.	RICKETS IN CHILDREN - STILL AN ISSUE. STATISTIC STUDY ON CHILDREN POPULATION IN

	DISTRICT OF BRASOV BETWEEN 2014-2019 Bianca Elena Popovici, Maria Mitrica, Marius Moga Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania
27.	EXPERIMENTAL RESEARCHES ON ANTIMICROBIAL ACTIVITY ON PLANTS EXTRACTS Nicoleta – Raisa Samoilă, Liviu Gaceu Transilvania University of Brasov, Faculty of Food and Tourism, Brasov, Romania
28.	EVALUATION OF METHOD FOR EXTRACTION OF ANTIOXIDANTS FROM BLACK CROWBERRY (EMPETRUM NIGRUM) Iztok Stegovec (1), Lea Pogačnik (1), Björn Viðar Aðalbjörnsson (2) 1-Department of Food Science and Technology, Biotechnical Faculty, University of Ljubljana, Ljubljana Slovenia; 2-Faculty of Food Science and Nutrition, University of Iceland, Reykjavík, Iceland
29.	DRINKING WATER – A SOURCE OF HUMAN EXPOSURE TO BISPHENOL A E. Ungureanu (1,2), G. Mustatea (2), Mona Popa (1) 1- Faculty of Biotechnology, University of Agronomic Science and Veterinary Medicine, Bucharest, Romania; 2- National Research & Development Institute for Food Bioresources, Bucharest, Romania

S3. New Trends in (Bio)engineering Sciences Applied in Life Sciences

1.	ARTIFICIAL INTELLIGENCE PARADIGMS FOR MEDICAL E-LEARNING SYSTEMS Abdel-Badeeh M. Salem Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt
2.	INTELLIGENT VENTILATOR FOR EMERGENCY SITUATION Razvan Mitel Ardelean, Laura Floroian Transilvania University of Brasov, Faculty of Electrical Engineering and Computer Science, Brasov, Romania
3.	ROBOT CONTROL USING ARTIFICIAL INTELLIGENCE BASED ON MACHINE LEARNING Daniel Calaver, Laura Floroian Department of Automation and Information Technology, Transilvania University of Brasov, Romania
4.	SENSITIVE PROPERTIES OF SCREEN PRINTED CARBON ELECTRODE MODIFIED WITH MELDOLA'S BLUE FOR VOLTAMMETRIC DETECTION OF PHENYLALANINE Ancuta Dinu, Constantin Apetrei "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Galati, Romania
5.	VOLTAMMETRIC SENSOR FOR THE ANALYSIS OF ATORVASTATIN IN PHARMACEUTICALS Ramona Oana Gunache (Rosca), Constantin Apetrei "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Galati, Romania
6.	BIOCOMPATIBLE HYDROXYAPATITE-BASED COATINGS FOR MEDICAL APPLICATIONS Iulian Pana (1), Lidia Constantin (1,3), Elena Ungureanu (1,3), Alina Vladescu (1,2) 1-National Institute for Optoelectronics INOE 2000, Department for Advanced Surface Processing and Analysis by Vacuum Technologies, Magurele, Romania; 2-National Research Tomsk Polytechnic University, Physical Materials Science and Composite Materials Centre,

	Tomsk, Russia; 3-University Politehnica of Bucharest, Faculty of Material Science and Engineering, Bucharest, Romania
7.	ADVANCES OF COMPUTATIONAL INTELLIGENCE IN NEUROMUSCULAR DISORDERS DIAGNOSIS Nahla F. Abdel-Maboud (1), Marco Alfonse (2), Silvia Stoyanova Parusheva (3), Abdel-Badeeh M. Salem (1) 1- Department of Computer Science – Faculty of Computer and Information Sciences - Ain Shams University - Cairo – Egypt; 2- Department of Computer Science – Faculty of Computer and Information Sciences - Ain Shams University - Cairo – Egypt; 3-Department of Computer Science - University of Economics - Varna – Bulgaria
8.	AQUATIC TOXICITY OF NANOPARTICLES TO GREEN MICROALGAE CHLORELLA VULGARIS Cristina-Ştefania Adochiţe (1,2), Luminiţa Andronic (1) 1- Faculty of Product and Environmental Design, Transilvania University of Brasov, Romania
9.	TOXICITY OF NANOPARTICLES IN PUBLIC HEALTH Cristina-Ştefania Adochiţe (1,2), Luminiţa Andronic (1), Mihaela Badea (2) 2- Faculty of Medicine, Transilvania University of Brasov, Romania
10.	NANOTECHNOLOGY APPLICATIONS IN FOOD PACKAGING Adina Alexandra Baicu, Mona Elena Popa University of Agronomic Sciences and Veterinary Medicine of Bucharest
11.	DETECTION OF PYOCYANIN WITH A THERMOSENSITIVE HYDROGEL AND AU/AG NANOALLOY Andreea Cernat, Alexandra Canciu, Mihaela Tertis, Cecilia Cristea Analytical Chemistry Department, Faculty of Pharmacy, Iuliu Haţieganu University of Medicine and Pharmacy,
12.	CHALLENGES IN MODERN MEDICAL FACILITY BUILDINGS DUE TO INFECTION CONTROL. ARE HIGH-RISE MODERN HOSPITALS THE SOLUTION? Per Ola Rønning (1), Christian Nordahl Rolfsen (2), Radu Muntean (3), Ovidiu Deaconu (4), Gabriela Cristina Chiţonu (5)
13.	CHEMICAL CONTAMINATION IN PACKAGING MATERIAL OF PHARMACEUTICAL USE Denisa Ciotea (1), E. Ungureanu (1,2), G. Mustatea (2), Mona Popa (1) 1-Faculty of Biotechnology, University of Agronomic Science and Veterinary Medicine, Bucharest, Romania, 2-National Research & Development Institute for Food Bioresources, Bucharest, Romania
14.	THE EFFECTS OF PEDOCLIMATIC CONDITIONS ON THE QUALITY INDICATORS OF FERMENTATION PROCESS FROM THREE VARIETIES OF RED GRAPES Elena Coarfă, Mona Elena Popa University of Agronomic Sciences and Veterinary Medicine of Bucharest, 59 Marasti Blvd, District 1, Bucharest, Romania
15.	SI DOPED TICN COATINGS FOR LOAD BEARING IMPLANTS L.R. Constantin (1,3), M. Dinu (1), E. Ungureanu (1,3), P. Scripca (1,3), I. Pana (1), C. Vitelaru (1), A. Vladescu (1,2) 1-National Institute for Optoelectronics INOE 2000, Department for Advanced Surface Processing and Analysis by Vacuum Technologies, Magurele, Romania; 2-National Research Tomsk Polytechnic University, Physical Materials Science and Composite Materials Centre, Tomsk, Russia; 3-University Politehnica of Bucharest, Faculty of Material Science and Engineering, Bucharest, Romania
16.	ELECTROCHEMICAL DETERMINATION OF FERULIC ACID IN COSMETICS USING SCREEN-PRINTED CARBON NANOFIBER ELECTRODES MODIFIED WITH GOLD NANOPARTICLES Alexandra Virginia Meresescu (Bounegru), Constantin Apetrei

	"Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Galati, Romania
17.	BIM-HEALTHY - HEALTH DETERMINANTS RELATED TO HOUSING SANITATION Radu Muntean (1), Cristina Gabriela Chitonu (1), Lorena Dima (2), Dorin Radu (1), Mihaela Badea (2) 1-Faculty of Civil Engineering, Transilvania University of Brasov, Romania; 2- Faculty of Medicine, Transilvania University of Brasov, Romania
18.	INVESTIGATION OF TENSILE PROPERTIES OF SOME ECOFRIENDLY FOOD PACKAGING FILMS Georgia Olaru (1) , Maria Rapa (2), Elena Mona Popa (1) 1-University of Agronomic Sciences and Veterinary Medicine of Bucharest, Bucharest, Romania; 2-University Politehnica of Bucharest, Center for Research and Eco-Metallurgical Expertise (ECOMET UPB), Bucharest, Romania
19.	SILVER NANOPARTICLES' SYNTHESIS MEDIATED BY ALPHA-AMYLASE Ioana Popescu (1), Daniel Cristea (1), Arevik Vardanyan (2), Narine Vardanyan (2) 1 Transilvania University of Brasov, Material Science Department, Brasov, Romania; 2 SPC "Armbiotechnology" of the National Academy of Sciences of Armenia, Department of Microbiology, Yerevan, Armenia
20.	PROPOSED FRAMEWORK BASED ON INTERNET OF THINGS (IOT) TECHNOLOGY FOR SMART HEALTHCARE SERVICES Dalia Kamal A. A. Rizk (1), Hoda M. Hosny (1), El-Sayed M. El-Horbatyand (2), Abdel-Badeeh M. Salem (2) 1-Faculty of Computer Science, The American University in Cairo, Egypt; 2-Faculty of Computer.& Info. Sciences, Ain Shams University, Egypt
21.	ADVANCES IN APTAMERS FOR BIOMEDICAL APPLICATIONS: ANTIBIOTIC DETECTION AND TREATMENT MONITORING Geanina Stefan, Oana Hosu, Cecilia Cristea Department of Analytical Chemistry, Faculty of Pharmacy, Iuliu Hațieganu University of Medicine and Pharmacy
22.	ELECTROCHEMICAL DETERMINATION OF CATECHOL BASED ON CARBON ELECTRODE MODIFIED WITH GRAPHENE AND GOLD NANOPARTICLES Bulgaru (Munteanu) Irina-Georgiana, Apetrei Constantin "Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Galati, Romania

S4. NOMARES Workshop - New materials for electrochemical recognition of inorganic and biological species - / L'Atelier Nouveaux - Matériaux pour la Reconnaissance Electrochimique des Minéraux et des Espèces Biologiques – 2020

1.	PHOTO-INDUCED REDOX CATALYSIS FOR HYDROGEN PRODUCTION WITH MOLECULAR AND HYBRID SYSTEMS Marie-Noëlle Collomb Université Grenoble Alpes - CNRS, Département de Chimie Moléculaire, Grenoble, Franta
2.	HEAVY METALS IONS DETECTION ON AZULENE-AZOTHIADIAZOLE BASED CMES Veronica Anastasoae (1, 3), Laura Bianca Enache (1, 3), Magdalena Rodica Bujduveanu (1),

	Eleonora-Mihaela Ungureanu (1), Liviu Birzan (2), Marius Enachescu (3) 1-"Politehnica" University of Bucharest, Bucharest, Romania; 2 -Institut of Organic Chemistry "C. D. Nenitzescu" of the Romanian Academy, Bucharest, Romania; 3 -Center for Surface Science and Nanotechnology, "Politehnica" University of Bucharest, Bucharest, Romania
3.	DEVELOPMENT OF BIOELECTRODES BASED ON CARBON NANOTUBES WITH PROTEIN COMPRESSION Anastasiia Berezovska (1), Yannig Nedellec (1), Andrew Gross (1), Fabien Giroud (1), Serge Cosnier (1) Department of Molecular Chemistry, UMR 5250, University Grenoble Alpes, Grenoble, France
4.	SYNTHESES OF VINYL-AZULENE DERIVATIVES AS MATERIALS FOR MODIFIED ELECTRODES PREPARATION Liviu Birzan (1), Mihaela Cristea (1), Alexandru C. Razus (1), Eleonora Mihaela Ungureanu (2) 1-Institute of Organic Chemistry "C. D. Nenitzescu" of the Romanian Academy, Romania; 2-"Politehnica" University of Bucharest, Bucharest, Romania
5.	NEW OXOVANADIUM(V) COMPLEXES BASED ON BENZALDEHYDE-DERIVATIVES SCHIFF BASES Mihai Bordeiașu (1), Mihaela G. Cărnuță (2), Oana Petcuță (1), Andrei A. Pătrașcu (1), Cătălin Maxim (1), Delia-Laura Popescu (1) 1-University of Bucharest, Faculty of Chemistry, Department of Inorganic Chemistry, Bucharest, Romania; 2-Institute of Cellular Biology and Pathology "Nicolae Simionescu" of the Romanian Academy, Bucharest, Romania
6.	3-D COORDINATION POLYMERS WITH KAGOMÉ LAYERS LINKED BY BIPYRIDINE-BASED LIGANDS Mihai Bordeiașu, Cristina Mozăceanu, Augustin M. Mădălan, Delia-Laura Popescu University of Bucharest, Faculty of Chemistry, Department of Inorganic Chemistry, Romania
7.	RECOGNITION OF HEAVY METAL IONS BY USING ELECTRODES MODIFIED WITH E-5-((5-ISOPROPYL-3,8-DIMETHYLAZULEN-1-YL) DIAZENYL)-1H-TETRAZOLE Adinuta Paun, Elena Diacu, Alina Giorgiana Brotea, Eleonora-Mihaela Ungureanu University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest, Romania
8.	MODIFIED ELECTRODES BASED ON 4-(5-ISOPROPYL-3,8-DIMETHYLAZULEN-1-YL)-2,6-BIS((E)-2-(THIOPHEN-3-YL)VINYL)PYRYLIUM PERCHLORATE Ioana-Georgiana Bugean (1), Elena Diacu (1), Eleonora-Mihaela Ungureanu (1), Adinuta Paun (1), Liviu Birzan (2) 1- "Politehnica" University of Bucharest, Faculty of Applied Chemistry and Material Sciences, Bucharest, Romania; 2- Institute of Organic Chemistry "C.D. Nenitzescu" of Romanian Academy, Bucharest, Romania
9.	GRAPHENE MODIFIED ELECTRODE WITH CLICKABLE THIOSEMICARBAZONE BASED RECEPTOR FOR MERCURY IONS DETECTION George-Octavian Buica (1), Matei D. Raicopol (1), Nicoleta A. Chira (1) 1-"Politehnica" University of Bucharest, Bucharest, Romania
10.	PHYSICO-CHEMICAL AND ELECTROCHEMICAL CHARACTERISATION OF REDOX GLYCONANOPARTICLES IN AQUEOUS SOLUTION FOR BIOSENSOR AND BIOFUEL CELL DESIGN Marie Carrière (1,2), Karine Gorgy (1), Christophe Travelet (2), Muhammad Mumtaz (2), Redouanec Borsali (2), Serge Cosnier (1) 1- Université Grenoble Alpes, CNRS, Département de Chimie Moléculaire, Grenoble, France; 2- Université Grenoble Alpes, CNRS, Centre de Recherche sur les Macromolécules Végétales, Grenoble, France
11.	SCREEN PRINTED ELECTRODES (SPE) BASED ON Au-Pt ALLOY FOR NITRITE ELECTROCHEMICAL

	<p>DETECTION Mariana Chelu (1), Cecilia Lete (1), Marin Gheorghe (2), Carmen Moldovan (3), Mariuca Gartner (1) 1- Institute of Physical Chemistry "Ilie Murgulescu" of the Romanian Academy, Bucharest, Romania; 2- NANOM MEMS SRL; Romania; 3 - National Institute for Research and Development in Microtechnologies, Bucharest, Romania</p>
12.	<p>NICKEL AND COBALT OXIDE-POLYPYRROLE-CARBOXYLATE NANOCOMPOSITE ELECTRODE MATERIALS FOR ELECTROCATALYTIC WATER OXIDATION Baptiste Dautreppe (1), Nicolas Godard (1), Benoit Chovelon (2), Stephanie Pouget (3), Jean-Luc Putaux (4), Dmitry Aldakov (5), Peter Reiss (5), Marie-Noëlle Collomb (1), Jérôme Fortage (1) 1- Univ. Grenoble Alpes, CNRS, DCM, France; 2-CHU Grenoble, Département de Biochimie, Toxicologie et Pharmacologie, France; 3-CEA, CNRS, INAC-MEM, Univ. Grenoble Alpes, 4 Univ. Grenoble Alpes, CNRS, CERMAV, 5CEA, CNRS, INAC-SyMMES, Univ. Grenoble Alpes, Grenoble, France</p>
13.	<p>ELECTROCHEMICAL STUDIES ON EXPIRED FUROSEMIDE DRUG AS CORROSION INHIBITOR FOR CARBON STEEL IN NEUTRAL MEDIA George Dima (1), Adriana Flueraş (1), Nicolae Vaszilcsin (1) 1-University Politehnica Timișoara, Timișoara, Romania</p>
14.	<p>SYNERGISTIC ACTION OF COMPLEX FORMULATION USED FOR TISSUES REGENERATION Eugenia Eftimie Totu (1), Roxana Buga (2), Daniel Costinel Petre (1), Tiberiu Totu (2), Corina Marilena Cristache (3) 1-University Politehnica of Bucharest, Romania; 2-School of Life Sciences, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland; 3-University of Medicine and Pharmacy Carol Davila, Bucharest, Romania</p>
15.	<p>(E)-5-(AZULEN-1-YLDIAZENYL)-1H-TETRAZOLE MODIFIED ELECTRODES FOR HEAVY METAL SENSING Laura-Bianca Enache (1,3), Veronica Anastasoae (1,3), Liviu Birzan (2), Marius Enachescu (3), Gabriela Stanciu (4), Eleonora-Mihaela Ungureanu (1) 1-University "Politehnica" of Bucharest, Bucharest, Romania; 2 -Institute of Organic Chemistry "C. D. Nenitzescu" of Romanian Academy, Bucharest, Romania; 3- Center for Surface Science and Nanotechnology, "Politehnica" University of Bucharest, Bucharest, Romania; 4-Department of Chemistry and Chemical Engineering, Ovidius University, Constanta, Romania</p>
16.	<p>CHEMICAL SENSING WITH UNMODIFIED TELECOM OPTICAL FIBERS Alin Jderu (1,2), Dorel Dorobantu (1), Marius Enachescu (2), Dominik Ziegler (1) 1-S.C. NanoPRO START MC S.R.L., Bucharest, Romania; 2- University POLITEHNICA Bucharest, Bucharest, Romania</p>
17.	<p>CALORIMETRIC MASS FLOW MONITORING BY FIBER OPTICAL TEMPERATURE SENSING Alin Jderu (1,2), Dorel Dorobantu (1), Marius Enachescu (2), Dominik Ziegler (1) 1-S.C. NanoPRO START MC S.R.L., Bucharest, Romania; 2- University POLITEHNICA Bucharest, Bucharest, Romania</p>
18.	<p>OPTIMIZATION OF BRILLOUIN OPTICAL TIME DOMAIN ANALYSIS FOR FIBER OPTICAL TEMPERATURE SENSING Alin Jderu (1,2), Dorel Dorobantu (1), Marius Enachescu (2), Dominik Ziegler (1) 1-S.C. NanoPRO START MC S.R.L., Bucharest, Romania; 2- University POLITEHNICA Bucharest, Bucharest, Romania</p>
19.	<p>CALORIMETRIC MASS FLOW SENSING WITH LOCALLY HEATED OPTICAL FIBERS Alin Jderu (1,2), Dorel Dorobantu (1), Marius Enachescu (2), Dominik Ziegler (1)</p>

	1-S.C. NanoPRO START MC S.R.L., Bucharest, Romania; 2- University POLITEHNICA Bucharest, Bucharest, Romania
20.	HIGHLY STABLE COBALT OXIDE-POLYPYRROLE NANOCOMPOSITE FOR ELECTROCATALYTIC WATER OXIDATION Jérôme Fortage (1), Daniela V. Morales (2), Catalina N. Astudillo,(a) Veronica Anastasoie,(a),(b) Eleonora-Mihaela Ungureanu,(b) Bruno Urbano,(c) Bernabé L. Rivas,(c) Chantal Gondran,(a) Dmitry Aldakov,(d) Cyrille Costentin,(a),(e) Marie-Noëlle Collomb(a) (a) Univ. Grenoble Alpes, CNRS, DCM, 38000 Grenoble, France; (b) Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, Splaiul Independentei, 313, 060042 Bucharest, Romania; (c) Polymer Department, Faculty of Chemistry, University of Concepción, Concepción, Chile; (d) Univ. Grenoble Alpes, CNRS, CEA, IRIG, SyMMES, 38000 Grenoble, France; (e) Université de Paris, 75013 Paris, France
21.	COUNTING OF CD45-CELLS BY AUTOMATIC FLUORESCENCE MICROSCOPE EASYCOUNTER BC USING ANTI-CD45+ ANTIBODY CONJUGATE Dimitrina Krasteva, Yavor Ivanov, Katya Gabrovska, Tzonka Godjevargova Department Biotechnology, University "prof. A. Zlatarov" Burgas, Bulgaria
22.	GaN NANOSTRUCTURING Geanina Mihai, Calin Moise, Oana Lazar, Veronica Anastasoie, Laura Bianca Enache, Sabrina Rosoiu, Maria Vardaki, Aida Pantazi, Marius Enachescu Center for Surface Science and Nanotechnology, "Politehnica" University of Bucharest, Bucharest, Romania
23.	PLATINUM NANOPARTICLES SYNTHESIZED BY KRF PULSED LASER ABLATION Oana Lazar, Calin Moise, Geanina Mihai, Laura Enache, Aida Pantazi, Marius Enachescu Center for Surface Science and Nanotechnology (CSSNT), Politehnica University of Bucharest, Romania
24.	CONDUCTING POLYMER - SILVER NANOPARTICLES COMPOSITE MATERIAL: A NOVEL SENSING ELEMENT FOR ANTIOXIDANTS ELECTROANALYSIS Juan José García Guzmán (1), David López Iglesias (1), Laura Cubillana Aguilera (1), Dolores Bellido-Milla (1), José María Palacios Santander (1), Mariana Marin (2), Cecilia Lete (2), Stelian Lupu (3) 1- Institute of Research on Electron Microscopy and Materials (IMEYMAT), Department of Analytical Chemistry, Faculty of Sciences, Campus de Excelencia Internacional del Mar (CEIMAR), University of Cadiz, Cadiz, Spain; 2- Institute of Physical Chemistry "Ilie Murgulescu" of the Romanian Academy, Bucharest, Romania; 3 -Department of Analytical Chemistry and Environmental Engineering, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, Bucharest, Romania
25.	SENSITIVE ELECTROCHEMICAL DETECTION OF LIPOIC ACID AT CONDUCTING POLYMER MODIFIED ELECTRODE Vasilena Karabozhikova (1), Vessela Tsakova (1), Cecilia Lete (2), Mariana Marin (2), Stelian Lupu (3) 1-Institute of Physical Chemistry "Rostislaw Kaischew", Bulgarian Academy of Sciences, Sofia, Bulgaria; 2-Institute of Physical Chemistry "Ilie Murgulescu" of the Romanian Academy, Bucharest, Romania; 3-Department of Analytical Chemistry and Environmental Engineering, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, Bucharest, Romania

26.	COMPARATIVE STUDIES FOR RHODANINE AND ITS DERIVATIVES IN VIEW OF HEAVY METAL IONS RECOGNITION Ovidiu Teodor Matica (1), Alina Giorgia Brotea (1), Roxana Luisa Popescu (2) 1-University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest, Romania; 2-National Research and Development Institute for Industrial Ecology – Ramnicu Valcea Subsidiary, Ramnicu Valcea, Romania; 3-Institut of Organic Chemistry "C. D. Nenitzescu "of the Romanian Academy, Bucharest, Romania
27.	GENTAMICIN-LOADED HYDROXYAPATITE/CHITOSAN COMPOSITE COATING AIMED FOR BIOMEDICAL USE Vesna Mišković-Stankovic Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia
28.	MODIFICATION OF TITANIUM IMPLANTABLE SURFACES WITH BIO-INSPIRED STRUCTURES Angela Gabriela Olaru, Cristina Dumitriu, Cristian Pirvu Politehnica" University of Bucharest, Gheorghe Polizu 1-7, 011061, Sector 1, Bucharest, Romania
29.	DETECTION OF LEAD IONS BY VOLTAMMETRY ON AZULENE BASED CMES Cristian Omocea (1, 4), Eleonora-Mihaela Ungureanu (1), Liviu Birzan (2), Veronica Anastasoie (1, 3), Laura-Bianca Enache (1, 3), Marius Enachescu (3) 1-"Politehnica" University of Bucharest, Bucharest, Romania; 2-Institut of Organic Chemistry "C. D. Nenitzescu "of the Romanian Academy, Bucharest, Romania; 3-Center for Surface Science and Nanotechnology, "Politehnica" University of Bucharest, Bucharest, Romania; 4-National Administration Romanian Waters - Dobrogea - Litoral Water Basin Administration Constanta, Romania
30.	RECOGNITION OF HEAVY METAL IONS BY USING ELECTRODES MODIFIED WITH E-5-((5-ISOPROPYL-3,8- DIMETHYLAZULEN-1-YL) DIAZENYL)-1H-TETRAZOLE Adinuta Paun, Elena Diacu, Alina Giorgia Brotea, Eleonora-Mihaela Ungureanu University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest, Romania
31.	MICROSENSOR FOR INORGANIC CLINICAL VECTORS Eugenia Eftimie Totu (1), Ibrahim Isildak (2), Daniel Costinel Petre (1), Ismail Agir (3), Mustafa Nidge (2) 1-Faculty of Applied Chemistry and Material Science, University Politehnica of Bucharest, Bucharest, Romania; 2-Department of Bioengineering, Faculty of Chemical and Metallurgical Engineering, Yildiz Technical University, Istanbul, Turkey; 3-Bioengineering Department, Istanbul Medeniyet University, Goztepe, Istanbul, Turkey
32.	COMPUTATIONAL ELECTROCHEMISTRY: PREDICTION OF OXIDATION/REDUCTION POTENTIALS BASED ON QUANTUM MECHANICAL ELECTRONIC STRUCTURE METHODS Amalia Stefaniu (1), Liviu Birzan (2), Eleonora-Mihaela Ungureanu (3), Raluca Isopescu (3) 1-National Institute for Chemical - Pharmaceutical Research and Development – ICCF, Bucharest, Romania; 2-Institut of Organic Chemistry "C. D. Nenitzescu "of the Romanian Academy, Bucharest, Romania; 3-"Politehnica" University of Bucharest, Bucharest, Romania,