

GENERAL PROGRAMM
THE 11TH NATIONAL CONGRESS WITH INTERNATIONAL PARTICIPATION AND
THE 37TH ANNUAL SCIENTIFIC SESSION OF THE ROMANIAN SOCIETY OF CELL
BIOLOGY

Thursday, 20.06.2019	
17.00-18.30	Receiving and registering of the participants Conference Hall, 1 University Alley, Campus, Building B
20.00	Welcome cocktail Dacia Sud Hotel, Mamaia Resort
Friday, 21.06.2019	
8.30-9.30	Registering of the participants - Conference Hall, 1 University Alley, Campus, Building B
9.30-10.00	Festive opening, A2, Campus, Building B
10.00-10.15	ANNIVERSARY MOMENT- 30 YEARS SINCE THE ESTABLISHMENT OF SRBC - CONSTANTA BRANCH Stela Zamfirescu, Daciana Sava <i>Faculty of Natural and Agricultural Sciences, "Ovidius" University, Constanța, Romania</i>
CELLULAR BIOLOGY TECHNIQUES - IMAGING SYSTEMS FOR BIOLOGICAL AND CLINICAL DISCOVERY	
Chairpersons: Acad. Maya Simionescu, Prof. univ. Stela Zamfirescu, Dr. Dejan Lazic	
10.15-10.40	IMPROVING THE ACCURACY AND REPRODUCIBILITY OF MICROBIOME MEASUREMENTS ACROSS LABS Irma Ochigva ² , R. Kemp S. Tang ¹ , E. Becket ¹ , M. Mager ¹ , M. Van Eden ¹ , S. Forman ¹ , E. Kircher ¹ , J. Sherman ¹ , L. Basillio ¹ , M. Thai ¹ , S. Wong ¹ , L. Jia ¹ ¹ <i>Zymo Research Corporation, Irvine, California, US</i> ² <i>Zymo Research Europe GmbH, Freiburg, Germany</i>
10.40-11.10	HYPERSPECTRAL MICROSCOPY: A LABEL FREE IMAGING METHOD FOR ALZHEIMERS DIAGNOSIS, STEM CELL DIFFERENTIATION AND CANCER CELL DETECTION Byron Cheatham <i>CytoViva, Inc. Auburn, AL. USA</i>
11.10-11.20	THE WORLD'S FIRST MAGNETIC INDUCTION CYCLER Dejan Lazic <i>Bio Molecular Systems, Unit 5/3 Northward Street, Upper Coomera QLD 4209, Australia</i>
11.20-11.40	Coffee break Visiting stands and exhibition "Bio-art - expression of biological cells"
11.40-12.05	AN ELECTRON MICROSCOPIC ATLAS OFFERING COMPREHENSIVE UNDERSTANDING OF CELLS, TISSUES & ORGANS FROM MACROPHOTOGRAPHY TO ULTRASTRUCTURAL DETAILS Jastrow Holger <i>Institute of Anatomy & Electron microscopy unit of the Imaging Center Essen of the University Duisburg-Essen, University Clinic 45147 Essen, Germany</i>
12.05-12.30	HOLOTOMOGRAPHY TECHNIQUES FOR NON-INVASIVE LABEL-FREE 3D IMAGING OF LIVE CELLS AND TISSUES Rakesh Suman <i>TomoCube Inc., Yuseong-gu, Daejeon, South Korea</i>

12.30-12.55	2D VS 3D CULTURING: CHANGES OF MSC CHARACTERISTICS R. Sotirov, M. Kostadinova, S. Pashova, S. Kestendjieva, K. Vinketova, D. Abadjieva, E. Stoyanova, T. Oreshkova, E. Kistanova, M. Mourdjeva <i>Bulgarian Academy of Sciences, Institute of Biology and Immunology of Reproduction, Sofia, Bulgaria</i>
REGENERATIVE MEDICINE Chairpersons: Acad. Maya Simionescu	
12.5-13.15	EXAMINING THE MOLECULAR CROSSTALK BETWEEN MOUSE SKIN EPITHELIAL STEM CELLS AND VASCULATURE DURING NORMAL HOMEOSTASIS Tudorita Tumbar <i>Cornell University, SUA</i>
13.15-13.30	TI6AL4V ALLOY AND HYDROXYAPATITE BASED SYSTEMS FOR IN VITRO STUDYING OF MESENCHYMAL STEM CELL FUNCTIONS AT IMPLANT-TISSUE INTERFACE I. Bochev, B. Antonov, L. Tzvetanov, P. Kinov, M. Mourdjeva <i>Bulgarian Academy of Sciences, Institute of Biology and Immunology of Reproduction, Sofia, Bulgaria</i>
13.30-13.50	SUBCUTANEOUS TRANSPLANTATION OF MESENCHYMAL STROMAL CELLS AS AN ALTERNATIVE THERAPY FOR TISSUE REPAIR IN EXPERIMENTAL MYOCARDIAL INFARCTION AND DIABETES Mihai Bogdan Preda ¹ , Maya Simionescu ¹ <i>Institute of Cellular Biology and Pathology "Nicolae Simionescu", Romanian Academy, Bucharest, Romania</i>
13.50-15.00	Lunch break
CELLULAR METABOLISM, CYTOTOXICITY, XENOBIOTICS IN CELLS Chairpersons: Prof. Alberto Ritieni, Prof. univ. Carmen Elena Cotrutz, Dr. Vochița Gabriela	
15.00-15.25	A MULTIDISCIPLINARY APPROACH TO DISCLOSE NOVEL INTERFERING EFFECTS ON VITAMIN D METABOLISM DUE TO AFLATOXIN_{B1} EXPOSURE Alberto Ritieni <i>Università degli Studi di Napoli Federico II, Scuola di Medicina e Chirurgia, Dipartimento di Farmacia</i>
15.25-15.50	ANTIPROLIFERATIVE AND PROAPOPTOTIC EFFECTS OF NATURAL FLAVONOID QUERCETIN IN MYELOID LEUKEMIA CELLS Michela Grosso <i>Dept. Molecular Medicine and Medical Biotechnology, University of Naples Federico II, Naples, Italy</i>
15.50-16.15	CYANO HARMFUL ALGAL BLOOMS (cyanoHABs) FROM DANUBE DELTA BIOSPHERE RESERVE – FACTORS AND MECHANISMS Maria Iasmina Moza ^{1,2} , Ana Maria Benedek ³ , Horea Olosutean ³ , Mirela Moldoveanu ⁴ , Alina Dumitrache ⁴ , Piet Spaak ⁵ , Francesco Pomati ⁵ , Carmen Postolache ¹ ¹ <i>Faculty of Biology, University of Bucharest, Doctoral School of Ecology, Bucharest, Romania</i> ² <i>Foundation Conservation Carpathia, Wildlife Genetic Monitoring Laboratory, Brasov, Romania</i> ³ <i>Faculty of Science, "Lucian Blaga" University of Sibiu, Applied Ecology Research Centre, Sibiu, Romania</i> ⁴ <i>Institute of Biology, Romanian Academy of Science, Bucharest, Romania</i>

	⁵ Swiss Federal Institute for Environmental Science and Technology-Eawag, Dübendorf, Switzerland
CELL BIOLOGY AND PERSONALIZED MEDICINE	
Chairpersons: Prof.univ. Anca Sin	
16.15-16.30	EXPRESSION PATTERNS OF MIR-143, -145 AND -92A IN COLORECTAL CANCER FROM SOUTH-EAST ROMANIA PATIENTS Costel Brînzan ^{1,2} , Mariana Aşchie ^{2,1} , Georgeta Cozaru ^{1,2} , Elena Matei ¹ , Anca Mitroi ^{1,2} ¹ Centre for Research and Development of Morphological and Genetic Studies of Malignant Pathology, Ovidius University of Constanta, Romania ² Pathology Department, Emergency County Clinical Hospital of Constanta, Romania
16.30-16.45	CLINICAL IMPACT AND ROLE OF KRAS AND BRAF BIOMARKERS IN ROMANIAN DIAGNOSED COLORECTAL CANCER PATIENTS Elena Matei ¹ , Georgeta Camelia Cozaru ^{1,2} , Mariana Aşchie ^{1,2} , Anca Florentina Mitroi ^{1,2} , Costel Brînzan ^{1,2} ¹ Centre for Research and Development of Morphological and Genetic Studies of Malignant Pathology, "Ovidius" University of Constanta, Romania ² Pathology Department, Emergency County Clinical Hospital of Constanta, Romania
16.45-18.30	Poster session
16.45-18.30	Visiting stands and exhibition "Bio-art - expression of biological cells"
20.00	Dinner Gala Dacia Sud Hotel, Mamaia Resort
Saturday, 22.06.2019	
ADVANCED TECHNIQUES AND BIOTECHNOLOGIES IN VETERINARY MEDICINE, FOOD INDUSTRY AND ANIMAL HUSBANDRY	
Chairpersons: Prof.univ.Zamfirescu Stela, dr.Sonea Alexandru, dr.Elena Kistanova	
9.30- 9.50	STORAGE OF LIQUID SEMEN: PERSPECTIVE OF USING THE PLANT BIOACTIVES E. Kistanova, S. Yotov, M. Ivanova, D. Abadjieva, J. Krasilnikova, G.Telesheva, V. Mladenova, L. Lauberte, P.Taushanova <i>Bulgarian Academy of Sciences, Institute of Biology and Immunology of Reproduction, Sofia, Bulgaria</i>
9.50-10.10	THE USAGE OF HORMONAL SEROLOGICAL PROFILES IN ADVANCEMENT OF SEXUAL SEASON IN GOATS Juraj Grizelj, Silvijo Vince <i>University of Zagreb's Faculty of Veterinary Medicine, Republica Croația</i>
10.10-10.30	APPLICATIONS AND PRACTICAL IMPLICATIONS OF ASSISTED REPRODUCTION AND MOLECULAR GENETICS TOOLS IN ACCELERATING GENETIC GAIN IN GOATS Andreea Anghel ^{1,2} , Dorina Nadolu ² , Valentin Adrian Bâlteanu ³ , Florica Buşuricu ⁴ ¹ Faculty of Natural and Agricultural Sciences, "Ovidius" University, Constanța, Romania; ² ICDCOC Palas, Constanța, Romania ³ University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania ⁴ Faculty of Pharmacy, Ovidius University, Constanța, Romania
10.30-10.50	SAANEN AND FRENCH ALPINE PRIMIPARA GOATS PRETABILITY FOR INITIATION OF EXTENDED LACTATION Dorina Nadolu ¹ , Anghel Andreea Hortanse ² , Elena Ilişiu ³ ¹ ICDCOC Palas Constanta,

	<p>²“Ovidius” University Constanta, Romania ³ICDCOC Palas Constanta – Baza experimentală Reghin, Romania</p>
10.50-11.10	<p>A SIGNIFICANT EFFECT OF A SINGLE GENE POLYMORPHISM (CSN1S1) ON MILK COMPOSITION AND CHEESE YIELD IN CARPATHIAN GOAT BREED Valentin Adrian Bâlteanu¹, Andreea Anghel^{2,3} ¹University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania ²ICDCOC Palas, Constanța, Romania ³Faculty of Natural and Agricultural Sciences, “Ovidius” University, Constanța, Romania</p>
11.10-11.30	<p>Coffee break Visiting stands and exhibition ”Bio-art - expression of biological cells”</p>
<p>VARIA Chairpersons: Prof. univ. Doina Verdeș, prof. univ. Cristina Mihaela Ghiciuc</p>	
11.30-11.40	<p>ANTIOXIDANT AND CYTOTOXIC ACTIVITIES OF BROWN SEAWEED CYSTOSEIRA BARBATA (STACKHOUSE) C. AGARDH FROM ROMANIAN BLACK SEA COAST Adriana Trifan¹, Alexandru Vasincu², Simon Vlad Luca¹, Daciana Sava³, Laura Bucur⁴, Ana Clara Aprotosoae¹, Anca Miron¹, Alexandra Jităreanu⁵, Christiana Neophytou⁶, Andreas I. Constantinou⁶ ¹Department of Pharmacognosy, Faculty of Pharmacy, “Grigore T. Popa” University of Medicine and Pharmacy Iasi, Iasi, Romania ²Department of Pharmacodynamics and Clinical Pharmacy, Faculty of Pharmacy, “Grigore T. Popa” University of Medicine and Pharmacy Iasi, Iasi, Romania ³Department of Natural Sciences, Faculty of Natural and Agricultural Sciences, ”Ovidius” University, Constanta, Romania ⁴Department of Pharmacognosy, Faculty of Pharmacy, ”Ovidius” University, Constanta, Romania ⁵Department of Toxicology, Faculty of Pharmacy, ”Grigore T. Popa” University of Medicine and Pharmacy Iasi, Iasi, Romania ⁶Department of Biological Sciences, University of Cyprus, Nicosia, Cyprus</p>
11.40-12.00	<p>“ANCIENT” AND MODERN APPROACHES USED IN THE MOLECULAR TAXONOMY AND PHYLOGEOGRAPHY OF THE ALPINE BORAGINACEAE SPECIES, ERITRICHUM NANUM: PRELIMINARY DATA Dana Șuteu¹, Ioan Băcilă¹, Zoltan Robert Balázs², Alin Sebastian Porav³, Mihai Pușcaș^{4,5} ¹Institute of Biological Research, Branch of the National Institute of Research and Development for Biological Sciences, Cluj-Napoca, Romania ²“Babeș-Bolyai” University, Department of Molecular Biology and Biotechnology, Cluj-Napoca, Romania ³Integrated Electron Microscopy Laboratory, National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania ⁴“A. Borza” Botanical Garden, “Babeș-Bolyai” University, Cluj-Napoca, Romania ⁵Department of Taxonomy and Ecology, Faculty of Biology and Geology, “Babeș-Bolyai” University, Cluj-Napoca, Romania</p>
12.00-12.10	<p>THE ROLE OF PREOPERATIVE IMAGING IN THE PREVENTION OF RECURRENCES AFTER SURGICAL PROCEDURES OF LOWER LIMBS VARICOSE VEINS Dragoș Nicolae Doicescu¹, Tina Popescu¹, Alexandra Ioana Doicescu², Gheorghe Popescu² ¹Faculty of Pharmacy, „Ovidius” University, Constanta, Romania ²Faculty of General Medicine, „Ovidius” University, Constanta, Romania</p>

12.10-12.20	<p>DRUGS FROM THE FIRST AID KITS IN THE OFFICE SETTING: PHARMACOLOGICAL CONSIDERATIONS</p> <p>Cristina Mihaela Ghiciuc, Elena Cătălina Lupușoru, Ionela-Alina Grosu-Creangă, Lăcrămioara Ochiuz, Anca Haisan, Irina Grădinaru <i>„Grigore T. Popa”, University of Medicine and Pharmacy Iasi, Romania</i></p>
12.20-12.45	<p>PHOTODYNAMIC THERAPY: BASIC PRINCIPLES, DRUG FORMULATIONS AND CLINICAL APPLICATIONS</p> <p>Rodica-Mariana Ion^{1,2} ¹<i>ICECHIM</i> ²<i>Valahia University, Târgoviște, Romania</i></p>
<p>MINISYMPOSIUM FOR DOCTORAL STUDENTS Chairpersons: Prof. univ. Anca Sin, Prof. univ. Doina Verdes</p>	
12.45-12.55	<p>EXPRESSION OF β-DEFENSIN 1 AND 2 IN HPV INDUCED EPITHELIAL LESIONS</p> <p>Ana-Emanuela Botez¹, Pavel Onofrei¹, Laura Stoica¹, Vasile Bogdan Grecu¹, Doinița Temelie-Olinici¹, Oana-Mihaela Condurache¹, Alina-Alexandra Popa³, Cristina Dimitriu², Carmen Solcan⁴, Elena Carmen Cotrutz¹ ¹<i>Cell and Molecular Biology, „Grigore T. Popa” University of Medicine and Pharmacy, Iași, Romania</i> ²<i>Biochemistry, „Grigore T. Popa” University of Medicine and Pharmacy, Iași, Romania</i> ³<i>Cell and Molecular Biology - Students scholarly circle, “Constantin Cotrutz”, “Grigore T. Popa” University of Medicine and Pharmacy, Iași, Romania</i> ⁴<i>Department Normal and Pathological Morphology, Faculty of Veterinary Medicine, University of Agricultural Science and Veterinary Medicine “Ion Ionescu de la Brad” Iasi, Romania</i></p>
12.55-13.05	<p>CORELATIONS BETWEEN CD31, CD68, MMP-2 AND MMP-9 EXPRESSION IN ALLOGRAFT CARDIAC REJECTION – IMMUNOHISTOCHEMICAL STUDY</p> <p>V.B.Grecu¹, Elena Carmen Cotrutz¹, Carmen Solcan², Doinița Temelie-Olinici¹, Laura Stoica¹, Ana-Emanuela Botez¹, Oana-Mihaela Condurache¹, Alina-Alexandra Popa⁵, Cristina Daniela Dimitriu³, L.L.Indrei⁴, P.Onofrei¹ ¹<i>Cell and Molecular Biology, „Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i> ²<i>Department Normal and Pathological Morphology, Faculty of Veterinary Medicine, University of Agricultural Science and Veterinary Medicine ‘Ion Ionescu de la Brad’ Iasi, Romania</i> ³<i>Biochemistry „Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i> ⁴<i>Hygiene and Environmental Health, „Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i> ⁵<i>Cell and Molecular Biology Students scholarly circle „Constantin Cotrutz”, „Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i></p>
13.05-13.15	<p>A NEW TRIPHENYLPHOSPHONIUM DERIVATIVE WITH STRONG IN VITRO ANTIBACTERIAL ACTIVITY</p> <p>Laura Stoica¹, Doinița Temelie-Olinici¹, P. Onofrei¹, Alina-Alexandra Popa³, Ana-Emanuela Botez¹, V. B. Grecu¹, Oana Mihaela Condurache¹, B. A. Stoica², Elena Carmen Cotrutz¹ ¹<i>Department of Cell and Molecular Biology, “Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i> ²<i>Department of Biochemistry, “Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i></p>

	³ <i>Student – Cell and Molecular Biology Students scholarly circle „Constantin Cotrutz”, “Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i>
13.15-13.25	IMMUNOHISTOCHEMICAL EXPRESSION OF MMP-1, MMP-2 AND MMP-9 IN ORAL PREMALIGNANT LESIONS Oana-Mihaela Condurache Hritcu ¹ , Doinița Temelie-Olinici ¹ , Laura Stoica ¹ , Ana-Emanuela Botez ¹ , Vasile Bogdan Grecu ¹ , Pavel Onofrei ¹ , Alina-Alexandra Popa ² , Tatiana Țăranu ³ , Carmen Solcan ⁴ , Elena Carmen Cotrutz ¹ ¹ <i>Cell and Molecular Biology, „Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i> ² <i>Cell and Molecular Biology Students scholarly circle „Constantin Cotrutz”, „Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i> ³ <i>Department of Dermatology, „Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i> ⁴ <i>Department Normal and Pathological Morphology, Faculty of Veterinary Medicine, University of Agricultural Science and Veterinary Medicine 'Ion Ionescu de la Brad' Iasi, Romania</i>
13.25-15.00	Lunch break
CHALLENGES IN TEACHING CELLULAR AND MOLECULAR BIOLOGY - ROUND TABLE Chairpersons: Prof. univ. Carmen Elena Cotrutz, Sef lucrări dr. Verginica Schröder, Sef lucrări dr. Anca Cristina Lepădatu	
15.00-15.30	DEVELOPMENT OF CRITICAL THINKING ON 1st YEAR MEDICAL STUDENTS THROUGH TEACHING CELL AND MOLECULAR BIOLOGY Elena Carmen Cotrutz ¹ , Ileana-Anca Sin ² , Doinița Temelie-Olinici ¹ , Cristina Dimitriu ³ , Laura Stoica ¹ , P. Onofrei ¹ ¹ <i>Cell and Molecular Biology, „Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i> ² <i>Cell and Molecular Biology, University of Medicine and Pharmacy of Târgu Mures, Târgu Mures, Romania</i> ³ <i>Biochemistry, „Grigore T. Popa” University of Medicine and Pharmacy, Iasi, Romania</i>
15.30-16.00	BIO ART- EXPRESSION OF BIOLOGICAL CELLS Daniela Turcanu Căruțiu <i>Faculty of Art, „Ovidius” University of Constanta</i>
16.00-17.00	Poster session Visiting stands and exhibition “Bio-art - expression of biological cells”
17.00-18.00	GENERAL MEETING OF SRBC 2019 MEMBERS
18.00-18.30	Closing of the Congress
19.30	Conference Dinner Dacia Sud Hotel, Mamaia Resort
	Saturday, 23.06.2019 Social Program

SRBC, Constanta June 20th-23rd, 2019

POSTERS

REGENERATIVE MEDICINE	
1.	<p>ACTIVATION OF HISTONE ACETYLTRANSFERASE-DEPENDENT SIGNALING PATHWAYS INDUCES MACROPHAGE POLARIZATION TOWARDS A PRO-INFLAMMATORY PHENOTYPE; POTENTIAL IMPLICATION IN HUMAN ATHEROSCLEROSIS</p> <p>Mihaela Loredana Vlad, Simona-A. Manea, Alexandra-G. Lazar, Monica T. Cosac, Monica Raicu, Horia Muresian, Maya Simionescu, Adrian Manea</p>
2.	<p>NEW THERAPIES FOR LIVER FIBROSIS REVERSION</p> <p>Simona Rebeca Ignat, Sorina Dinescu, Ferenc Fenyvesi, Anca Hermenean, Marieta Costache</p>
3.	<p>MESENCHYMAL STROMAL CELLS FROM NON-OBESE DIABETIC MICE INHIBIT PROLIFERATION OF SPLENOCYTES IN VITRO</p> <p>Ana M. Vacaru, Andrei M. Vacaru, Madalina Fenyó, Madalina Dumitrescu, Alexandrina Burlacu, Maya Simionescu, Nadir Askenasy</p>
CELLULAR METABOLISM, CYTOTOXICITY, XENOBIOTICS IN CELLS	
4.	<p>CYTOGENETIC AND GENOTOXIC EFFECTS OF THE COMMERCIAL FUNGICIDE SCORE ON ALLIUM CEPA L. ROOT MERISTEM CELLS</p> <p>Elena Doroftei, Corina Gavăt, Liliana Miron, Mihaela Antofie</p>
5.	<p>MICROVESICLES COLLECTED FROM HEALTHY HAMSTERS AND ADMINISTERED TO HYPERTENSIVE-HYPERLIPIDEMIC HAMSTERS MITIGATE THE EFFECTS OF DIET KEEPING THE LEVELS OF CIRCULATING EPCS AND INFLAMMATORY BIOMARKERS CLOSE TO NORMAL VALUES</p> <p>Alina Constantin, Nicoleta Alexandru, Florentina Safciuc, Ioana Karla Comarita, Alexandra Vilcu, Anastasia Procopciuc, Gabriela Tanko, Adriana Georgescu</p>
6.	<p>PRELIMINARY STUDY ON SYNERGIC ACTION OF THE SODIUM BENZOATE AND FOOD COLORANTS USING THE CYTOTOXICITY BRINE SHRIMP LETHALITY ASSAY (BSLA)</p> <p>Florica Buşuricu, Verginica Schroder, Doina Margaritti</p>
7.	<p>CELL DIFFERENTIATION PROCESS OF ARTEMIA SP. LARVAE TOOLS FOR NATURAL PRODUCTS TESTING</p> <p>Verginica Schröder, Mariana Arcus</p>
8.	<p>CHANGES IN BACTERIAL CELL WALL: A POSSIBLE MOLECULAR MECHANISM FOR ANTIBIOTIC EFFECT OF AN ALGAL (<i>Ulva rigida</i>) PRODUCT FROM LOCAL MARINE BIORESOURCES</p> <p>Anca Cristina Lepădatu, Emilia Panus, Ticuta Negreanu-Pirjol</p>
9.	<p>EFFECTS OF LOW-DOSE PROTON RADIATION ON OXIDATIVE STRESS PRODUCED IN ENDOTHELIAL AND EPITHELIAL CELLS</p> <p>Andreea Mihaila, Mihaela Vadana, Mihaela Bacalum, Mina Raileanu, Letitia Ciortan, Liviu Caciun, Tiberiu Relu Esanu, Ileana Manduteanu, Maya Simionescu, Elena Butoi</p>
10.	<p>CONTRIBUTIONS ON THE ANTIMICROBIAL STUDY OF A <i>PRUNUS SPINOSA</i> L. AQUEOUS EXTRACT</p> <p>Gabriela Gegiu, Laura Bucur, Victoria Badea</p>
11.	<p>IN VITRO INVESTIGATION OF POSSIBLE MECHANISM IMPLIED IN ANTITUMORAL ACTIVITY OF SOME PHYTOEXTRACTS OBTAINED FROM <i>ULMUS GLABRA</i> HUDS. BARK</p>

	Gabriela Vochita, Pincu Rotinberg, Daniela Gherghel, Elena Ionescu, Carmen Elena Tebrencu, Oana Teodora Ciuperca, Cosmin-Teodor Mihai
12.	THE PROFILE OF SOME OXIDOREDUCTASES UNDER THE ACTION OF DIFFERENT <i>ULMUS GLABRA</i> HUDS. BARK EXTRACTS IN NORMAL AND TUMOR CELLS Daniela Gherghel, Pincu Rotinberg, Cosmin-Teodor Mihai, Elena Ionescu, Carmen Elena Tebrencu, Oana Teodora Ciuperca, Ruxandra-Mihaela Cretu, Gabriela Vochita
13.	A NEW FAMILY OF VANADIUM COMPOUNDS STIMULATES INSULIN RECEPTOR PHOSPHORYLATION IN HEPG2 CELLS IN A TIME AND DOSE-DEPENDENT MANNER Mihaela G. Carnuta, Andrei A. Patrascu, Catalin Maxim, Maria F. Anghelache, Ileana Manduteanu, Delia L. Popescu, Manuela Calin
14.	COLD PLASMA-INDUCED APOPTOSIS IN OSTEOSARCOMA CELLS Alexandru Bogdan Stache, Loredana Dragos, Ilarion Mihaila, Ionut Topala, Lucian Dragos Gorgan
15.	IN VITRO CYTOTOXICITY EVALUATION OF <i>CURCUMA LONGA L</i> Tania Vlad, Doina Verdes, Gabi Dumitrescu, Nicoleta Filimon, Roxana Popescu
16.	THE EFFECTS OF CHEMOTHERAPY ON THE ORAL MUCOSA Mihaela Bacula, Aureliana Caraiane, Felicia Suciu, Catrinel Grajdeanu-Petrovici, Victoria Badea
CELL BIOLOGY AND PERSONALIZED MEDICINE	
17.	PHARMACOLOGICAL INHIBITION OF HISTONE LYSINE DEMETHYLASE JARID1B DOWN-REGULATES THE EXPRESSION OF PRO-INFLAMMATORY MOLECULES IN CULTURED M1-POLARIZED HUMAN MACROPHAGES Monica T. Cosac, Mihaela-L. Vlad, Simona-A. Manea, Alexandra-G. Lazar, Monica Raicu, Maya Simionescu, Adrian Manea
18.	GENERATION AND CHARACTERIZATION OF DISTINCT MOUSE NEUTROPHIL SUBPOPULATIONS Letitia Ciortan, Razvan Macarie, Sergiu Cecoltan, Andreea Mihaila, Mihaela Vadana, Monica Tucureanu, Ileana Manduteanu, Maya Simionescu, Elena Butoi
19.	DIFFERENTIAL GENE EXPRESSION OF SOME GENES INVOLVED IN VOLATILE OILS SYNTHESIS FOR <i>LAVANDULA ANGUSTIFOLIA</i> CULTIVARS Gabriela Alina Stefan, Maria - Magdalena Zamfirache, Dragos Lucian Gorgan
20.	THE SECRETORY POTENTIAL OF INTERLEUKIN-10 BY THE ENCAPSULATED ENDOTHELIAL CELLS Lavinia E. Tudor*, Laura G. Moise, Violeta G. Trusca, Gheorghe Fundueanu, Sanda Bucatariu, Maya Simionescu, Anca V. Gafencu
21.	HIGH MOBILITY GROUP BOX 1 (HMGB1) PROTEIN STIMULATES ANGIOGENESIS IN HUMAN CORONARY ARTERY ENDOTHELIAL CELLS Raluca M. Boteanu, Felicia Antohe, Maya Simionescu
22.	HIGH GLUCOSE CONCENTRATIONS AND TGF-β1 INDUCE ENDOTHELIAL TO MESENCHYMAL TRANSITION IN VALVULAR ENDOTHELIAL CELLS Daniela Rebleanu, Geanina Voicu, Cristina Ana Constantinescu, Letitia Ciortan, Agneta Simionescu, Ileana Manduteanu, Manuela Calin

23.	HIGH GLUCOSE CONCENTRATIONS POTENTIATE THE INDUCTION OF OSTEOBLAST PHENOTYPE OF VALVULAR INTERSTITIAL CELLS EXPOSED TO OSTEOGENIC FACTORS Geanina Voicu, Cristina Ana Constantinescu, Daniela Rebleanu, Agneta Simionescu, Maya Simionescu, Ileana Manduteanu, Manuela Calin
24.	ACTIVATION OF P300 HISTONE ACETYLTRANSFERASE-DEPENDENT SIGNALING PATHWAYS INDUCES NADPH OXIDASE EXPRESSION AND OXIDATIVE STRESS IN THE KIDNEY OF DIABETIC MICE Alexandra-G. Lazar*, Monica T. Cosac, Mihaela-L. Vlad, Monica Raicu, Adrian Manea, Simona-A. Manea
25.	HYPERLIPIDEMIA ALTERS THE QUALITY OF HDL AND IMPEDES CHOLESTEROL EFFLUX IN THE SMALL INTESTINE; THE EFFECT OF GINGER EXTRACT Teodora Barbalata, Mariana Deleanu, Mihaela G. Carnuta, Loredan S. Niculescu, Anca V. Sima, Camelia S. Stancu
26.	PROBIOTICS ADMINISTRATION TO HYPERLIPIDEMIC HAMSTERS MODULATES MICRORNAS LEVELS IN LIVER AND SERUM Loredan S. Niculescu, Madalina D. Dulceanu, Camelia S. Stancu, Mihaela G. Carnuta, Teodora Barbalata, Anca V. Sima
27.	HUMAN MACROPHAGES EXPOSED TO AGGREGATED LDL BECOME FOAM CELLS, WITHOUT DEVELOPING ENDOPLASMIC RETICULUM, OXIDATIVE OR INFLAMMATORY STRESS Gabriela M. Sanda, Laura Toma, Camelia S. Stancu, Mariana Deleanu, Oriana E. Moraru, Anca V. Sima
28.	THE EFFECTS OF ANAKINETIC STRESS ON THE LIVER AFTER 2 AND 6 DAYS. MORPHOFUNCTIONAL, METABOLIC AND IMMUNOLOGICAL ASPECTS Ioana Roman, Vlad Al. Toma, Irina Lucaci, Bogdan Sevastre
29.	MODELING OF FIBROBLAST-TO-MYOFIBROBLAST DIFFERENTIATION IN VITRO Gabriela Florea, Daniela Madalina Iacomu, Raluca Tutuianu, Vasile Pruna, Ana Maria Rosca, Ioan Lascar, Maya Simionescu, Irina Titorencu
30.	GENERATION AND CHARACTERIZATION OF AN IMMORTALIZED HUMAN ADIPOSE MESENCHYMAL STROMAL CELL LINE Daniela Madalina Iacomu, Gabriela Florea, Ana Maria Rosca, Vasile Pruna, Raluca Tutuianu, Tiberiu Paul Neagu, Irina Titorencu
31.	ADDITION OF THE SIGNAL SEQUENCE OF INTERLEUKIN-10 TO THE LUCIFERASE DRIVES THE REPORTER PROTEIN SECRETION Laura G. Moise, Lavinia E. Tudor, Violeta G. Trusca, Anca V. Gafencu
32.	OPTIMIZATION OF THE ADENOVIRAL TRANSDUCTION OF MESENCHYMAL STROMAL CELLS Madalina Dumitrescu, Violeta G. Trusca, Ana Vacaru, Anca V. Gafencu
33.	HUMAN ADIPOSE-DERIVED STEM CELLS PRODUCE EXOSOMES THAT CARRY PRO-REGENERATIVE SIGNALS Sorina Dinescu, Otilia Zarnescu, Marieta Costache
34.	INCIDENCE OF SOME ANOMALIES ASSESSED BY MLPA AND FLOW CYTOMETRY AT PATIENTS WITH MULTIPLE MYELOMA IN EASTERN ROMANIA Loredana M. Dragos, Iuliu C. Ivanov, Irina C. Vacarean Trandafir, Cristina Madalina Stefan, Lucian Gorgan

35.	A POSSIBLE MECHANISM FOR AUTISM-LIKE DISORDERS APPEARANCE: ULTRASTRUCTURAL AND EPIGENETIC ASPECTS Vlad Al. Toma, Anca Farcas, Adrian Florea, Lucian Barbu-Tudoran, Septimiu Tripon, Ioana Baldea, Adriana Filip, Alexandra Sevastre-Berghian, Bogdan Sevastre, Ioana Roman, Marcel Parvu
36.	INFLUENCE OF AGING ON THE QUALITY AND DYNAMICS OF MOUSE CARDIAC FIBROBLASTS Evelyn Gabriela Rusu, Ana Mihaela Lupan, Catalina Marinescu, Mihai Bogdan Preda, Alexandrina Burlacu
BIOMATERIALS	
37.	IN VITRO BEHAVIOUR OF APTAMER-FUNCTIONALIZED POLYMERIC NANOCAPSULES FOR TARGETED THERAPY Oana-Maria Daraba, Vasile Burlui, Delia Mihaela Rata, Anca Niculina Cadinoiu, Leonard Ionut Atanase, Gabriela Vochita, Marcel Popa
38.	IN VITRO BIOCOMPATIBILITY EVALUATION OF LIPOSOMES LOADED WITH 5-FLUOROURACIL Anca Niculina Cadinoiu, Delia Mihaela Rata, Leonard Ionut Atanase, Oana-Maria Daraba, Mihai Cosmin Teodor, Irina Paula Merlusca, Marcel Popa
39.	PHYSICAL-CHEMICAL CHARACTERIZATION AND BIOLOGICAL EVALUATION OF CHITOSAN EXTRACTED FROM DIFFERENT LOCAL MARINE SOURCES Carla-Cezarina Paduretu, Manuela Rossemary Apetroaei, Laura Bucur, Nicoleta Badea, Ileana Rau, Verginica Schröder
40.	CHITOSAN EXTRACTED FROM <i>RAPANA VENOSA</i> EGG CAPSULES CHARACTERIZATION IN VIEW OF POSSIBLE MARITIME AREA APPLICATIONS Manuela Rossemary Apetroaei, Carla-Cezarina Paduretu, Ileana Rau, Dinu V. Atodiresei, Nicoleta Badea, Laura Bucur, Verginica Schröder
VARIA	
41.	INVOLVEMENT OF SOME PROANGIOGENETIC MOLECULES IN ABDOMINAL TUMORS DEVELOPMENT F.R.I. Din Anghel, Ana Marina Andrei, Catalina Gabriela Pisoschi, Ileana Monica Banita
42.	BIOCHEMICAL EVALUATION OF <i>SPIRULINA PLATENSIS</i> EXTRACT Patricia Tustean, Roxana Popescu, Nicoleta Filimon, Mihai Mituletu
43.	ATYPICAL LOCALISATIONS OF MAMMARY CARCINOMA METASTASES – THE IMPORTANCE OF IMMUNOHISTOCHEMISTRY IN DIAGNOSIS Ionut Poinareanu, Luminita Gentiana Micu, Dorian Micu, Adrian Petru Purcarea, Octavian Laurian Barbu
44.	PARTICULARITIES OF EXPERIMENTAL MODELS USED TO INDUCE GASTRIC ULCER Simona Fulga, Ana-Maria Pelin, Diana Ciubotariu, Cristina Mihaela Ghiciuc, Elena Catalina Lupusoru
45.	CORRELATION BETWEEN THE IMMUNOHISTOCHEMICAL EXPRESSION OF SOME PROANGIOGENETIC FACTORS IN INFLAMMATORY GINGIVAL OVERGROWTH Ana Marina Andrei, Elena Cristina Andrei, Ileana Monica Banita, Catalina Gabriela Pisoschi
46.	ANALYSIS OF CBD IN HEMP SEED OILS BY UHPLC Nicoleta Mirela Blebea, Teodor Costache, Simona Negres
47.	TOTAL CAROTENOID, FLAVONOID AND PHENOLIC COMPOUNDS CONCENTRATION IN WILLOWLEAF COTONEASTER (<i>COTONEASTER SALICIFOLIUS</i> FRANCH.) FRUITS Dan Razvan Popoviciu, Ticuta Negreanu-Pirjol, Rodica Bercu

48.	INTERNATIONAL SENSITIVITY INDEX VALUES OF THROMBOPLASTINE USED IN LABORATORY BY STANDARD METHOD V. L. Vasilescu, C.Corciovă, Elena Petrescu, C.C.Gavat, Corina Paraschiva Ciobanu, Lucia Carmen Trinca, Afrodită Doina Marculescu
49.	VERMICULTURE AND VERMICOMPOSTING Dan Enuta Simion
50.	DETERMINATION OF PHENYLALANINE AND TYROSINE IN RELATION TO EARLY DIAGNOSTIC AND MONITORING OF PATIENTS WITH PHENYLKETONURIA – A HPLC METHOD Alina Belengeanu, Calin Ladasiu, Gheorghe Benga
51.	SOLID CELL NESTS OF THE THYROID. A HISTOLOGIC AND IMMUNOHISTOCHEMICAL STUDY Ioana Muntean, Octavia Vita, Alina Belengeanu, Daniela Puscasiu, Monica Vaida, Irina Petrescu
52.	PCR-RFLP, A SCREENING METHOD FOR BETA-CASEIN POLYMORPHISM/A1 AND A2 ALLELES ANALYSIS IN ANIMALS PRODUCING MILK FOR HUMAN CONSUMPTION Ciprian-Valentin Mihali, Radu Ionel Neamt, Alexandru-Eugeniu Mizeranschi, Daniela Elena Ilie
53.	ACTINOMYCES INFECTION IN MEDICATION (BIPHOSPHONATE) INDUCED OSTEONECROSIS OF THE JAW Carmen Georgiu, Rada Teodora Sufletel, Alexandra Buruiana-Simic, Bogdan Alexandru Gheban, Camelia-Sidonia Lazar, Ana-Maria Teodora Domsa, Alina Simona Sovrea, Doinita Crisan
54.	MOLECULAR PHYLOGENY OF NOSTOCALES GROUP (CYANOBACTERIA) COMPARED TO CLASSICAL TAXONOMY Mihai Mituletu, Bogdan Druga, Dragos Nicolae
55.	THE INFLUENCE OF THERMAL PROCESSING ON ANTIOXIDANT CAPACITY TO TOMATO-BASED PRODUCTS Florica Busuricu, Andreea Hortanse Anghel, Verginica Schröder
56.	TOXICITY ASSESSMENT USING PLANT CELLS IN PHYTOBIOLOGICAL ASSAYS. TRITICUM TEST Alexandra Jitareanu, Silvica Padureanu, Ioana Cezara Caba, Adriana Trifan, Luminita Agoroaei
57.	HISTOANATOMICAL ASPECTS OF VEGETATIVE ORGANS <i>MOMORDICA CHARANTIA</i> L. (CUCURBITACEAE) Mariana Arcus, Verginica Schröder
58.	MICROSCOPIC ROOT, CAULINE AND LEAF OF <i>COFFEA ARABICA</i> L. (RUBIACEAE) Mariana Arcus
59.	PHARMACOBOTANIC ANALYSIS OF THE SPECIES <i>AJUGA LAXMANNII</i> (L.) BENTH. Mariana Arcus
60.	NEW MOLECULAR TARGETS IN OSTEOARTHRITIS Ana-Maria Pelin, Simona Fulga, Cristina Mihaela Ghiciuc, Elena Catalina Lupusoru
61.	BIOLOGICAL CONTROL OF POSTHARVEST DISEASES OF PEACHES BY MYCROBIAL ANTAGONIST IN SOUTHEASTERN ROMANIA Marioara Trandafirescu, Daciana Sava
62.	ANALYSIS OF BFP, STX1 AND PILX GENES IN RESISTANT STRAINS OF <i>ESHERICHIA COLI</i> Alexandru Iercosan, Cristina Dumitrescu, Alexandru Doma, Mihai Mituletu, Nidhal Daynoui, Doina Verdes

63.	PATOLOGICAL DISEASES AT TURBOT FROM THE ROMANIAN BLACK SEA COAST IN 2015-2017 Aurelia Totoiu, Neculai Patriche
64.	ROMANIAN BLACK SEA MESOZOOPLANKTON IN 2015-2017 – COMPOSITION AND STRUCTURE Elena Bisinicu, George Emanuel Harcota, Cristina Tabarcea, Florin Timofte
65.	GEMOTERAPIC THERAPY, AN EFFICIENT ALTERNATIVE FOR ARTERIAL TREATMENT Doina Margaritti, Florica Busuricu
66.	BIOMETRIC DETERMINATION AND FOLIAR PIGMENT ANALYSIS IN <i>VICIA FABA</i> L. Liliana Panaitescu, Dan Razvan Popoviciu
67.	CONTRIBUTIONS TO THE STUDY OF BIOCHEMICAL AND ANATOMICAL CHARACTERISTICS OF <i>LAVANDULA ANGUSTIFOLIA</i> MILL. Liliana Panaitescu, Dan Razvan Popoviciu
68.	EFFECT OF ASCORBIC ACID AND SALINITY ON GROWTH AND ANTIOXIDANT ENZYMES ACTIVITY IN TWO TOMATO SEEDLING CULTIVARS Lacramioara Oprica, Marius-Nicisor Grigore
MICROBIAL NETWORK	
69.	FLUORESCENCE MICROSCOPY USED FOR LICHENS' ADHESION EVALUATION AT STONE FROM CULTURAL HERITAGE Verginica Schröder, Daniela Turcanu Carutiu, Loreley Dana Jianu
MICROSCOPY AND MICROANALYSIS THEIR APPLICATION IN BIOLOGY, MEDICINE AND THE MATERIAL SCIENCES	
70.	ASSEMBLY, RESISTANCE AND NON-ADHESIVE ACTIVITY OF BIOLOGICAL MATERIALS MODEL FROM MARINE INVERTEBRATE Schröder Verginica, Manuela Rossemary Apetroaei, Carla-Cezarina Paduretu, Ileana Rau
71.	COMPARATIVE STUDY OF MORPHO-ANATOMICAL CHARACTERISTICS AND CHEMICAL COMPOSITION BETWEEN DIFFERENT ORGANS OF <i>TUSSILAGO FARFARA</i> L. SPECIES Viviane Beatrice Bota, Neli Olah, Elisabeta Chise, Endre Mathe, Violeta Turcus
72.	PROLIFERATION AND DIFFERENTIATION OF CELLS FROM AMNIOTIC FLUID Adina Honcea, Ramona Stoicescu, Verginica Schröder
NANOBIOTECHNOLOGY	
73.	OLEIC ACID PROTECTS HUMAN PANCREATIC BETA CELLS AGAINST PALMITIC ACID-INDUCED LIPOTOXICITY Miruna Nemezc, Alina Constantin, Madalina Dumitrescu, Anastasia Procopciuc, Alexandra Vilcu, Ioana Karla Comarita, Adriana Georgescu, Gabriela Tanko
74.	FULLERENE-BASED NANOPARTICLES CONJUGATED WITH APOLIPOPROTEIN E ENCODING DNA FOR GENE THERAPY PURPOSES Violeta G. Trusca, Ioana M. Fenyo, Madalina Dumitrescu, Mariana Pinteala, Anca V. Gafencu
75.	MESENCHYMAL STROMAL CELLS-DERIVED EXOSOMES – MEDIATORS IN SKIN WOUND HEALING A.M. Rosca, R. Tutuianu, V. Pruna, T.P. Neagu, I. Lascar, M. Simionescu, I. Titorencu

76.	FLAVONOIDS-LOADED LIPID NANOEMULSIONS PROTECT AGAINST ENDOTHELIAL INFLAMMATION BY A MECHANISM INVOLVING NF-kB TRANSCRIPTION FACTOR AND MCP-1 CHEMOKINE Elena Valeria Fuior, Mariana Deleanu, Cristina Ana Constantinescu, Daniela Rebleanu, Geanina Voicu, Maya Simionescu, Manuela Calin
77.	VCAM-1 TARGETED NANOPARTICLES ARE SPECIFICALLY INTERNALIZED BY HIGH GLUCOSE-ACTIVATED VALVULAR ENDOTHELIAL CELLS CULTURED IN A DYNAMIC 3D BIOREACTOR Cristina Ana Constantinescu, Daniela Rebleanu, Geanina Voicu, Letitia Ciortan, Sergiu Cecoltan, Dan Simionescu, Agneta Simionescu, Ileana Manduteanu, Manuela Calin
78.	SILVER-BASED NANOPARTICLES PRESERVE THE PROPERTIES OF KERATINOCYTES AND DERMAL FIBROBLASTS AND CAN BE SAFELY USED FOR SKIN WOUND HEALING Raluca Tutuianu, Ana-Maria Rosca, Alexandru Mihai Grumezescu, Alexandra Elena Stoica, Irina Titorencu
ADVANCED TECHNIQUES AND BIOTECHNOLOGIES USED IN VETERINARY MDICINE, FOOD INDUSTRY AND ANIMAL HUSBANDRY	
79.	RETROSPECTIVE RESEARCH ON THE INFLUENCE OF DILUTION MEDIA ON THE ULTRASTRUCTURE OF SPERM CELLS CONSERVED IN VARIOUS FORMS Stela Zamfirescu
80.	METHOD FOR THE PREPARATION OF SPERM CELLS IN ELECTRON MICROSCOPY Stela Zamfirescu, Nicolae Dobrin
81.	RETROSPECTIVE RESEARCH REGARDING FROZEN SEMEN ON RAM AND BUCK Stela Zamfirescu
82.	RESEARCH ON THE FATTY ACID COMPONENT OF GOAT MILK, EXPLOITED IN DIFFERENT BREEDING SYSTEMS Daniela Jitariu, Stela Zamfirescu
83.	SPERMATIC CELLS SUBJECT TO DIFFERENT FROZEN-THAWING TREATMENTS Nicolae Dobrin
84.	THE ADVANTAGES OF OMOGENIZATION IN HAVING DETERMINATION OF AFLATOXINS BY HPLC-FLD Nicoleta Marin, Nicolae Marin, Maria Voicu, Marilena Canuta, Daniela Lipoveanu
85.	PRODUCTION OF BENEFICIAL BIO-PRODUCTS USING AGRO-FOOD WASTES A. Sicari, S. Bolletti Censi, C. Gigliotti, F.L. Fedele, F. Vinale
86.	THE INFLUENCE OF DIFFERENT EXTENDERS ON POST-THAW SPERM VIABILITY, ULTRASTRUCTURAL INTEGRITY IN CRYOPRESERVED SPERM OF SAANEN BUCK Marian Daniel Vesteman, Stela Zamfirescu, Nicolae Dobrin, Alexandru Sonea
87.	TERAPICA: USE OF PHAGE PREPARATIONS TO PREVENT CHRONIC INFECTIONS CAUSED BY PATHOGENIC BACTERIA S. Bolletti Censi, R. Parisi, L. Dipineto, B. Restucci, E. Sannino, G. Iovane, G. Fusco, G. Borriello
88.	GENETIC POLYMORPHISMS OF MAJOR HISTOCOMPATIBILITY COMPLEX CLASS II DRB3 IN ROMANIAN SPOTTED COW AND ITS ASSOCIATION WITH LAMENESS Daniela Elena Ilie, Ciprian Valentin Mihali, Radu Ionel Neamt, Alexandru Eugeniu Mizeranschi, Ludovic T. Csiszter

89

EFFECT OF BOVINE BONE XENOGRAFT ENRICHED WITH AUTOLOGOUS BLOOD DERIVATES FOR THE TREATMENT OF EXPERIMENTAL CHRONIC PERIODONTITIS IN OVINES

Bogdan-Catalin Alexandru, Alina Simona Sovrea, Anne-Marie Constantin, Adina Bianca Bosca, Monica Popa