

## **Turkey's Biodiversity Contribution to the subtropical climate zone Fruits**

<sup>1</sup> Dr. Meltem AYAZ

<sup>1</sup>Republic of Turkey Ministry of Agriculture and Forestry / Olive Cultivation Research Institute / İZMİR

Email: <sup>1</sup>[meltem.ayaz@tarimorman.gov.tr](mailto:meltem.ayaz@tarimorman.gov.tr), [meltem.ayaz@hotmail.com](mailto:meltem.ayaz@hotmail.com)

## **How Can We Stop the Extinction of Our Soils?**

<sup>1</sup> Dr. Meltem AYAZ

<sup>1</sup>Republic of Turkey Ministry of Agriculture and Forestry / Olive Cultivation Research Institute / İZMİR

Email: <sup>1</sup>[meltem.ayaz@tarimorman.gov.tr](mailto:meltem.ayaz@tarimorman.gov.tr), [meltem.ayaz@hotmail.com](mailto:meltem.ayaz@hotmail.com)

## **Alternative Food Plant Resources and Their Future Perspectives in Livestock Development**

<sup>1</sup>Movsumova N.V.

<sup>1</sup>Institute of Botany of ANAS, Laboratory of Ethnobotany

Email: <sup>1</sup>[movsumovanuri@yahoo.com](mailto:movsumovanuri@yahoo.com)

## **Ethnopharmacological Features of *Euphorbia* L. Species against Cancer**

<sup>1</sup>Khudaverdiyeva S.F., <sup>1</sup>Ibadullayeva S.C.

<sup>1</sup>Institute of Botany of ANAS, Laboratory of Ethnobotany

Email: <sup>1</sup>[skhudaverdiyeva@mail.ru](mailto:skhudaverdiyeva@mail.ru), <sup>1</sup>[ibadullayeva.sayyara@mail.ru](mailto:ibadullayeva.sayyara@mail.ru)

## **Wild Vegetables of Azerbaijani Flora: *Portulaca oleracea* L.**

<sup>1</sup>Lala Z. Gurbanova

<sup>1</sup>Azerbaijan State Agrarian University

Email: <sup>1</sup>

## **Resource Assessment of *Glycyrrhiza glabra* L. Species in Some Regions of Azerbaijan**

<sup>1</sup>Ibadullayeva Sayyara, <sup>2</sup>Ibrahimli Sona, <sup>3</sup>Seyidova Lamiya, <sup>4</sup>Nasibova Gunay

<sup>1,3</sup>Institute of Botany of ANAS, <sup>2,4</sup>Azerbaijan State Agrarian University

Email: <sup>1</sup>[ibadullayeva.sayyara@mail.ru](mailto:ibadullayeva.sayyara@mail.ru), <sup>4</sup>[nasibovagunay182@gmail.com](mailto:nasibovagunay182@gmail.com)

## **Antiviral and Immunomodulatory Herbs**

<sup>1</sup>Ibadullayeva Sayyara, <sup>2</sup>Huseynova Asmar, <sup>3</sup>Askerova Ayten

<sup>1</sup>Institute of Botany of ANAS, <sup>2</sup>Baku State University, <sup>3</sup>Azerbaijan State Agrarian University

Email: <sup>1</sup>[ibadullayeva.sayyara@mail.ru](mailto:ibadullayeva.sayyara@mail.ru)

## **Investigation of Baculovirus Pathogens of Cotton Bollworm (*Helicoverpa/Heliothis* sp., Lepidoptera: Noctuidae) in Turkey**

<sup>1</sup>Gözde Büşra Eroğlu, <sup>2</sup>Zihni Demirbağ

<sup>1</sup>Erzurum Technical University, Department of Molecular Biology and Genetics, Erzurum, Turkey

<sup>2</sup>Karadeniz Technical University, Department of Biology, Trabzon, Turkey

Email: <sup>1</sup>[gozdebusra.eroglu@erzurum.edu.tr](mailto:gozdebusra.eroglu@erzurum.edu.tr), <sup>2</sup>[zihni@ktu.edu.tr](mailto:zihni@ktu.edu.tr)

## **On the Phytosenological study of High Sports Plants Used in Folk Medicine**

<sup>1</sup>Shiraliyeva G.Sh., <sup>1</sup>Mammadova H.X., <sup>1</sup>S.C. Ibadullayeva

<sup>1</sup>Institute of Botany of ANAS, Laboratory of Ethnobotany

Email: <sup>1</sup>[gulnara.shiraliyeva@yahoo.com](mailto:gulnara.shiraliyeva@yahoo.com), <sup>1</sup>[ibadullayeva.sayyara@mail.ru](mailto:ibadullayeva.sayyara@mail.ru)

## **Effect of Growth Stimulators on Relative Water Content (RWC) in Leaves of Soybean Plants Affected by Salinization**

<sup>1</sup>Meruyert Syzdyk, <sup>1</sup>Khava Yevloyeva, Akhmetzhanova Fatima, <sup>1</sup>Saule Atabayeva

<sup>1</sup>Al-Farabi Kazakh National University, Almaty, Republic of Kazakhstan

Email: [meruersyzdyk@gmail.com](mailto:meruersyzdyk@gmail.com), [khavayevloyeva@gmail.com](mailto:khavayevloyeva@gmail.com)

## **Effect of Plant Growth Regulators on Morphogenesis *in vitro* of *Salvia officinalis* L.**

<sup>1</sup>Aigul Amirova, <sup>2</sup>Gulzhan Kurtibayeva, <sup>2</sup>Khalima Abdresh, <sup>2</sup>Symbat Dossymbetova

<sup>1</sup>Al-Farabi Kazakh National University, Department of Biology and Biotechnology, Almaty, Kazakhstan

<sup>2</sup>Almaty Technological University, Department of Food Technology, Almaty, Kazakhstan

Email: [aigul\\_amir@mail.ru](mailto:aigul_amir@mail.ru), [kurtibaeva.07@mail.ru](mailto:kurtibaeva.07@mail.ru), [halima.abdreshova@mail.ru](mailto:halima.abdreshova@mail.ru)

## **Induction of Calli from Different Explants of Jerusalem Artichoke (*Helianthus tuberosus* L.) *in vitro***

<sup>1,2</sup>Aigul Amirova, <sup>2</sup>Akmeir Zhengissova

<sup>1</sup>Al-Farabi Kazakh National University, Department of Biology and Biotechnology, Almaty, Kazakhstan

<sup>2</sup>Almaty Technological University, Department of Food Technology, Almaty, Kazakhstan

Email: [aigul\\_amir@mail.ru](mailto:aigul_amir@mail.ru), [jenisova1996@bk.ru](mailto:jenisova1996@bk.ru)

## **Transient Expression of *Gus* Gene in *Physalis ixocarpa***

<sup>1</sup>Olha Yaroshko, <sup>1</sup>Mykola Kuchuk

<sup>1</sup>Institute of Cell Biology and Genetic Engineering NAS of Ukraine, Kyiv, Ukraine

Email: [90tigeryaroshko90@gmail.com](mailto:90tigeryaroshko90@gmail.com)

## **Flea beetle (*Chaetocnema concinna* M, 1802) and brassy flea beetle (*C. breviscula* Fald, 1884) as the main pests of the sugar beet**

<sup>1</sup>Saliga Gazi

<sup>1</sup>Institute of Zoology of ANAS, Azerbaijan

Email: [seliqeqzai08@gmail.com](mailto:seliqeqzai08@gmail.com)

## **Phylogenetic diversity and prevalence of cucumber mosaic virus isolates from ornamental plants *Gladiolus* sp. and *Echinacea purpurea* in Ukraine**

<sup>1</sup>Roksolana Sovinska, <sup>1,4</sup>Lidiya Mishchenko, <sup>1</sup>Alina Dunich, <sup>2</sup>Anatoliy Mishchenko, <sup>3</sup>Olga Tymchenko,

<sup>4</sup>Angelina Kyrychenko

<sup>1</sup>ESC 'Institute of Biology and Medicine', Taras Shevchenko National University, Kyiv, Ukraine

<sup>2</sup>National University of Life and Environmental Sciences of Ukraine, Kyiv

<sup>3</sup>M.M. Gryshko National Botanic Garden, National Academy of Sciences of Ukraine, Kyiv, Ukraine

<sup>4</sup>Danylo Zabolotny Institute of Microbiology and Virology, National Academy of Sciences of Ukraine, laboratory of plant viruses, Kyiv, Ukraine

Email: [roksolana1@meta.ua](mailto:roksolana1@meta.ua), [lmishchenko@ukr.net](mailto:lmishchenko@ukr.net)

## **Determination of Anthelmintic Activity of *Lilium martagon* L. Extracts Distributed in Kazakhstan and Turkey**

<sup>1</sup>Akgul Rakhimzhanova, <sup>2</sup>Ramazan Mammadov

<sup>1</sup>Kazakh Humanitarian Juridical Innovative University, Department Applied Biology, Semey, Kazakhstan

<sup>2</sup>Mugla Sitki Kocman University, Mugla, Turkey

Email: [1akgul.r.m@mail.com](mailto:1akgul.r.m@mail.com), [2mammad@yahoo.com](mailto:2mammad@yahoo.com)

## **Cetacean Stranding Pattern along the Black Sea and the Sea of Azov Coastline in 2017-2020**

<sup>1</sup>Alexandr Golubev, <sup>2</sup>Pavel Gol'din, <sup>3</sup>Stanislav Myakushko, <sup>4</sup>Karina Vishnyakova

<sup>1,3</sup>Science and Educational Center Institute of Biology and Medicine, Taras Shevchenko National University of Kyiv, Kyiv, Ukraine;

<sup>2</sup>I.I. Schmalhausen Institute of Zoology, National Academy of Sciences of Ukraine, Kyiv, Ukraine;

<sup>4</sup>Ukrainian Scientific Centre of Ecology of the Sea, Odessa, Ukraine

Email: [1www.cichlida@gmail.com](mailto:1www.cichlida@gmail.com), [2pavelgoldin412@gmail.com](mailto:2pavelgoldin412@gmail.com), [3aloizaloiz@ukr.net](mailto:3aloizaloiz@ukr.net),  
[4karinavishnyakova@gmail.com](mailto:4karinavishnyakova@gmail.com)

## **Temporal Distribution of *Cladosporium* and *Alternaria* Spores in the Atmosphere of Gelibolu (Çanakkale), Turkey.**

<sup>1</sup>Suleyman Kilincarslan, <sup>2</sup>Fatemeh Fazli, <sup>3</sup>Semih Bekil, <sup>4</sup>Adem Bicakci, <sup>5</sup>Aycan Tosunoglu

<sup>1,2,3,4,5</sup>Bursa Uludag University, Science/Arts Faculty, Department of Biology, Bursa/TURKEY

Email: [1kilincarslan600@hotmail.com](mailto:1kilincarslan600@hotmail.com), [2pishanfazli@gmail.com](mailto:2pishanfazli@gmail.com), [3bekilsemih@gmail.com](mailto:3bekilsemih@gmail.com),  
[4abicakci@uludag.edu.tr](mailto:4abicakci@uludag.edu.tr), [5aycanbilisik@uludag.edu.tr](mailto:5aycanbilisik@uludag.edu.tr)

## **The antiradical and phytochemical potential of dry extracts from *Sorbaria pallasii***

<sup>1,2</sup>Kostikova Vera Andreyevna, <sup>1</sup>Shaldaeva Tatiana Mikhailovna,

<sup>3</sup>Veklich Tatiana Nikolayevna

<sup>1</sup>Phytochemistry Laboratory, Central Siberian Botanical Garden, SB RAS, Novosibirsk, Russia

<sup>2</sup>Herbarium Laboratory, Tomsk State University, Tomsk, Russia

<sup>3</sup>Botany Laboratory, Amur Branch of Botanical Garden-Institute, FEB RAS, Blagoveshchensk, Russia

Email: [1serebryakovava@mail.ru](mailto:1serebryakovava@mail.ru), [tanja.shaldaeva@yandex.ru](mailto:tanja.shaldaeva@yandex.ru), [3tbliznjuk@mail.ru](mailto:3tbliznjuk@mail.ru)

## **Discrimination of Bacterial Strains by Using Repetitive Domain Sequences with RFLP**

<sup>1</sup>Ahmet CAN, <sup>2</sup>Abdul-Baasit ABDUL-NASIR, <sup>3</sup>Ömür BAYSAL

<sup>1,2,3</sup>Muğla Sıtkı Koçman University Faculty of Science, Molecular Microbiology Unit in Department of Molecular Biology and Genetics, 48121, Kotekli Muğla, Turkey

Email: [1can.ahmet73@gmail.com](mailto:1can.ahmet73@gmail.com), [2abdulbaasit17@yahoo.com](mailto:2abdulbaasit17@yahoo.com), [3omurbaysal@mu.edu.tr](mailto:3omurbaysal@mu.edu.tr)

## **Evaluation of Antimicrobial Resistance Status of Enterobacteriaceae Isolates**

<sup>1</sup>Dilek Çoban, <sup>2</sup>Suna Savran, <sup>3</sup>Gülperi Kayran, <sup>4</sup>Burak Ekrem Çitil, <sup>5</sup>Ömür Baysal, <sup>6</sup>Alper Aksözek

<sup>1,2,3,5</sup>Muğla Sıtkı Kocman University, Molecular Microbiology Department,

<sup>4,6</sup>Muğla Sıtkı Kocman University, Medical Microbiology Department Muğla / Turkey

Email: [1dilekcoban4@posta.mu.edu.tr](mailto:1dilekcoban4@posta.mu.edu.tr), [2omurbaysal@mu.edu.tr](mailto:2omurbaysal@mu.edu.tr)

## **Coloring a Grey World: Perception of Black-White and Colored SEM Images**

<sup>1</sup>Melodi Yenmiş

<sup>1</sup>Ege University, Faculty of Science, Biology Dept., İzmir, Turkey

Email: [1melodi.yenmis@ege.edu.tr](mailto:1melodi.yenmis@ege.edu.tr)

## **Evaluation and Comparison of Drought Stress and Recovery Processes Using Renormalized Difference Vegetation Index and Carotenoid Reflectance in Wheat Genotypes of Eurasian Origins**

<sup>1</sup>Samira Rustamova, <sup>2</sup>Ali Ahmad Naz, <sup>1</sup>Irada Huseynova

<sup>1</sup>Institute of Molecular Biology & Biotechnologies, Azerbaijan National Academy of Sciences

<sup>2</sup>University of Bonn, Institute of Crop Science and Resource Conservation

Email: [s.rustamova@imbb.science.az](mailto:s.rustamova@imbb.science.az), [a.naz@uni-bonn.de](mailto:a.naz@uni-bonn.de)

## **A Taxonomic Revision of the Genus *Potentilla* L. (Group D) (Rosaceae) in Turkey**

<sup>1</sup>Uygar SARP KAYA, <sup>1</sup>Olca DÜŞEN

<sup>1</sup>Pamukkale University, Faculty of Arts & Sciences, Department of Biology

Email: [usarpkaya05@posta.pau.edu.tr](mailto:usarpkaya05@posta.pau.edu.tr)

## **Ethnobotany of Food Plants in Some Districts of Denizli Province in Turkey**

<sup>1</sup>Yasemin AKKAVAK ZURNACI, <sup>2</sup>Olca DÜŞEN

<sup>1,2</sup>Pamukkale University, Faculty of Arts & Sciences, Department of Biology

Email: [yaseminakkavak@gmail.com](mailto:yaseminakkavak@gmail.com), [odusen@pau.edu.tr](mailto:odusen@pau.edu.tr)

## **Cell membrane stability and soluble protein concentration in wheat (*Triticum aestivum* L.) genotypes exposed to drought stress**

<sup>1</sup>Natella Aliyeva, <sup>1</sup>Samira Rustamova, <sup>2</sup>Atabay Jahangirov, <sup>1</sup>Irada Huseynova

<sup>1</sup>Institute of Molecular Biology & Biotechnologies, Azerbaijan National Academy of Sciences

<sup>2</sup>Research Institute of Crop Husbandry, Ministry of Agriculture of Azerbaijan Republic

Email: [a.cahangir@hotmail.com](mailto:a.cahangir@hotmail.com)

## **The Results of Radioecological Research of the Murine Rodents from Chernobyl Nuclear Power Plant Cooling Pond's Drained Bed**

<sup>1</sup>O. Burdo, <sup>3</sup>D. Vishnevskiy, <sup>2</sup>H. Ishiniwa, <sup>2</sup>K. Nanba, <sup>1</sup>A. Lypska, <sup>3</sup>K. Korepanova

<sup>1</sup>Institute for Nuclear Research, Kyiv, Ukraine

<sup>2</sup>Institute of Environmental Radioactivity, Fukushima University, Fukushima, Japan

<sup>3</sup>Chernobyl radiation and ecological biosphere reserve, Kyiv, Ukraine

Email: [oburdo@ukr.net](mailto:oburdo@ukr.net)

## **Influence of Water Deficit on Proline Content in Salicaceae Trees**

<sup>1\*</sup>Yuliia Khoma, <sup>1</sup>Olena Nesterenko, <sup>1\*</sup>Nataliia Kutsokon, <sup>1</sup>Lidiya Khudolieieva, <sup>2</sup>Viktor Shevchenko,

<sup>1</sup>Namik Rasydov

<sup>1</sup>Institute of Cell Biology and Genetic Engineering, National Academy of Sciences of Ukraine

<sup>2</sup>Institute of Plant Physiology and Genetics, National Academy of Sciences of Ukraine

Email: [YuliiaKhoma@ukr.net](mailto:YuliiaKhoma@ukr.net), [lkutsokon@nas.gov.ua](mailto:lkutsokon@nas.gov.ua)

## **Investigation of Ascorbate Peroxidase, Catalase, and Superoxide Dismutase Genes Expressions at Transcriptional Levels in Wild Olive Trees after Different Boron Salts Treatments**

<sup>1</sup>Onur Çelik, <sup>2</sup>Ergun Kaya

<sup>1</sup>Muğla Sıtkı Kocman University, Faculty of Science, Molecular Biology and Genetics Department, 48000, Muğla, TURKEY

Email: <sup>1</sup>[onurcelik9@posta.mu.edu.tr](mailto:onurcelik9@posta.mu.edu.tr)

## **Pesticide Degradation Genes of *Serratia marcescens* for Bioremediation**

<sup>1</sup>Gülperi Kayran, <sup>1</sup>Suna Savran, <sup>1</sup>Dilek Çoban, <sup>1</sup>Ömür Baysal

<sup>1</sup>Mugla Sıtkı Kocman University, Molecular Microbiology Department, Mugla / Turkey

Email: [gulperikayran@posta.mu.edu.tr](mailto:gulperikayran@posta.mu.edu.tr), [omurbaysal@mu.edu.tr](mailto:omurbaysal@mu.edu.tr)

## **Increased Virus Resistance in Transgenic Petunia with Heterologous *ZRNase II* gene**

<sup>2</sup>Sosnovska Daria, <sup>2</sup>Yuliya Hoysyuk, <sup>1</sup>Yaroshko Olha, <sup>1</sup>Potrokhov Andrii, <sup>2</sup>Tetiana Shevchenko, <sup>2</sup>Irena Budzanivska, <sup>1\*</sup>Ovcharenko Olga, <sup>1</sup>Mykola Kuchuk

<sup>1</sup>Institute of Cell Biology and Genetic Engineering, 148, Zabolotnogo str., Kyiv, Ukraine

<sup>2</sup>Biology and Medicine Institute. Science Educational Center of Taras Shevchenko National University of Kyiv, Kyiv, Ukraine

Email: [ovcharenkooo77@gmail.com](mailto:ovcharenkooo77@gmail.com)

## **Biodiversity of Potentially Toxic Cyanobacteria in Kazakhstani Water Bodies**

<sup>1</sup>Aigerim Abdimanova

<sup>1</sup>School of Sciences and Humanities, Nazarbayev University, Nur-Sultan, 010000, Kazakhstan

Email:

## **Pollen and Seed Micromorphologies of Some *Saxifraga* L. (Saxifragaceae) Taxa of Turkey**

<sup>1</sup>Betül GÜRÇAN, <sup>2</sup>Olcay DÜŞEN

<sup>1,2</sup>Pamukkale University, Faculty of Arts & Sciences, Department of Biology, Kinikli, Denizli/ TURKEY

Email: [bgurcan05@posta.pau.edu.tr](mailto:bgurcan05@posta.pau.edu.tr), [odusen@pau.edu.tr](mailto:odusen@pau.edu.tr)

## **A Research on the Helminth Fauna of the common blackbird (*Turdus merula Linnaeus, 1758*) collected from Denizli Province, Turkey**

<sup>1</sup>Tuğçe GÜVEN, <sup>2</sup>Serdar DÜŞEN

<sup>1,2</sup>Pamukkale University, Biology, Denizli, Turkey

Email: [tguven111@posta.pau.edu.tr](mailto:tguven111@posta.pau.edu.tr), [sdusen@pau.edu.tr](mailto:sdusen@pau.edu.tr)

## **Occurrence of *Prosthynchus spirale* (Rud., 1809) Travassos, 1926 in a Jay (*Garrulus glandarius Linnaeus, 1758*) from Denizli Province, Turkey**

<sup>1</sup>Tuğçe GÜVEN, <sup>2</sup>Serdar DÜŞEN

<sup>1,2</sup>Pamukkale University, Biology, Denizli, Turkey

Email: [tguven111@posta.pau.edu.tr](mailto:tguven111@posta.pau.edu.tr), [sdusen@pau.edu.tr](mailto:sdusen@pau.edu.tr)

## **Morphology and Vitality of Pollen Lucie Cherry (*Cerasus mahaleb* L.) in Absheron**

<sup>1</sup>Jeyran N. Najafova

<sup>1</sup>Central Botanical Garden of Azerbaijan National Academy of Sciences, Baku, Azerbaijan

Email: [najafcnn@rambler.ru](mailto:najafcnn@rambler.ru)

## **The antiradical and phytochemical potential of dry extracts from *Sorbaria pallasii***

<sup>1,2</sup>Kostikova Vera Andreyevna, <sup>1</sup>Shaldaeva Tatiana Mikhailovna,  
<sup>3</sup>Veklich Tatiana Nikolayevna

## **Realization of the Apricot Morphogenetic Capacity *in vitro* When Obtaining New Breeding Forms**

<sup>1</sup>Irina Mitrofanova, <sup>2</sup>Irina Zhdanova, <sup>3</sup>Nina Lesnikova-Sedoshenko, <sup>4</sup>Olga Mitrofanova  
Federal State Funded Institution of Science "The Nikita Botanical Gardens – National Scientific Center of the  
RAS", Plant Biotechnology and Virology Laboratory of the Plant Developmental Biology, Biotechnology and  
Biosafety Department, Yalta, 298648, Russia

## **“MUSS-DE-SHEN” – the Irreplaceable Raw Material for the World Perfume and Cosmetic Trade Markets.**

<sup>1</sup>Novruzov V.

<sup>1</sup>Ganja State University, Ganja, Azerbaijan

Email: [1novruzov1@rambler.ru](mailto:1novruzov1@rambler.ru)

## **Influence of Mitochondrial DNA Loss on Adaptive Regrowth in Yeast**

<sup>1</sup>Olga Pronina, <sup>1</sup>Bogdan Morgun

<sup>1</sup> Institute of Cell Biology and Genetic Engineering, Department of Molecular Genetics, Kyiv, Ukraine

Email: [1olpronina@gmail.com](mailto:1olpronina@gmail.com)

## **Quantification and Some Antioxidant Studies on *Passiflora caerulea* Methanol Extracts**

<sup>1</sup>Vusala Badalova, <sup>2</sup>Beria Özçakır, <sup>3</sup>Tahir Süleymanov\*

<sup>1</sup>Azerbaijan National Academy of Sciences Dendrology Institute, Baku, Azerbaijan

<sup>2</sup> Muğla Sıtkı Koçman University, Molecular Biology and Genetic Department, Muğla, Turkey

<sup>3</sup> Azerbaijan Medical University Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Baku,  
Azerbaijan

Email: [1drvusalabadalova@gmail.com](mailto:1drvusalabadalova@gmail.com), [2beriaozcakir48@gmail.com](mailto:2beriaozcakir48@gmail.com)

## **Some Antioxidant and Quantitative Studies on *Passiflora edulis* Methanol Extracts**

<sup>1</sup>Vusala Badalova, <sup>2</sup>Mehmet Özgür Atay, <sup>3</sup>Zümrüt Mammadova

<sup>1,3</sup> Azerbaijan National Academy of Sciences Dendrology Institute, Etheric Oil Plants Laboratory, Baku,  
Azerbaijan

<sup>2</sup> Muğla Sıtkı Koçman University, Molecular Biology and Genetic Department, Muğla, Turkey

Email: [1drvusalabadalova@gmail.com](mailto:1drvusalabadalova@gmail.com), [2mehmetozguratay@gmail.com](mailto:2mehmetozguratay@gmail.com)

## **Study of the Accumulation of Bioactive Substances in Newly Isolated Cultures of Microalgae and Cyanobacteria**

<sup>1</sup>B.K. Zayadan, <sup>1</sup>S.K. Sandybayeva, <sup>1</sup>D.K. Kirbaeva, <sup>1</sup>K. Rysbekuly, <sup>1</sup>B.D. Kossalbayev

<sup>1</sup>Al-Farabi Kazakh National University, Biotechnology Department, Almaty, Kazakhstan

Email: [1sandybaevasandugash@gmail.com](mailto:1sandybaevasandugash@gmail.com)

## **Study of the Ability to Release Hydrogen of New Cyanobacteria Cultures to Produce Biofuel**

<sup>1</sup>Bolatkan Zayadan, <sup>1</sup>Ardak Kakimova, <sup>1</sup>Kenzhegul Bolatkhan

<sup>1</sup>Department of Biotechnology, Al-Farabi Kazakh National University, Kazakhstan

Email: [zbolatkhan@gmail.com](mailto:zbolatkhan@gmail.com)

## **Selection of Active Strains of Microalgae for Obtaining Biodiesel Producers**

<sup>1</sup>Bolatkan Zayadan, <sup>1</sup>Ardak Kakimova, <sup>1</sup>Kenzhegul Bolatkhan, <sup>1</sup>Huma Balouch, <sup>1</sup>Fariza Sarsekeyeva

<sup>1</sup>Department of Biotechnology, Al-Farabi Kazakh National University, Kazakhstan

Email: [zbolatkhan@gmail.com](mailto:zbolatkhan@gmail.com)

## **ISSR Marker Based Genetic Diversity of Honey Bees Populations in Turkey**

<sup>1</sup>Ömer Yüzer, <sup>1</sup>Evin Güneç, <sup>2</sup>Ersin Doğaç, <sup>2</sup>Alper Tonguç

<sup>1</sup>Muğla Sıtkı Koçman University, Institute of Science, Department of Molecular Biology and Genetics, Muğla, Turkey

<sup>2</sup>Muğla Sıtkı Koçman University, Department of Molecular Biology and Genetics, Muğla, Turkey

Email: [alpertonguc@mu.edu.tr](mailto:alpertonguc@mu.edu.tr)

## **New Contributions to the Dolichopodidae (Diptera) Fauna of Muğla Province**

<sup>1</sup>Alper Tonguç, <sup>2</sup>Ömer Yüzer, <sup>1</sup>Ersin Doğaç

<sup>1</sup>Muğla Sıtkı Koçman University, Department of Molecular Biology and Genetics, Muğla, Turkey

<sup>2</sup>Muğla Sıtkı Koçman University, Institute of Science, Department of Molecular Biology and Genetics, Muğla, Turkey

Email: [alpertonguc@mu.edu.tr](mailto:alpertonguc@mu.edu.tr)

## **A Model Method for Using STEM Integration in the Training of the Discipline Biotechnology**

<sup>1</sup>A.A. Ramazanova, <sup>2</sup>G.I. Yernazarova, <sup>2</sup>S.K. Turasheva

<sup>1</sup>Kazakh National Women's Teacher Training University, Almaty, Kazakhstan

<sup>2</sup>Al-Farabi Kazakh National University, Almaty, Kazakhstan

Email: [Svetlana.turasheva@kaznu.kz](mailto:Svetlana.turasheva@kaznu.kz)

## **Application of Growth-promoting Cyanobacteria in Agriculture**

<sup>1</sup>A. I. Token, <sup>1</sup>Zh. A. Ramazanova, <sup>1</sup>F. K. Sarsekeyeva, <sup>1</sup>B. K. Zayadan

<sup>1</sup>Al-Farabi Kazakh National University, Almaty, Kazakhstan

Email: [Aziza93t@gmail.com](mailto:Aziza93t@gmail.com)

## **Isolation of Active Cultures of Lipid-producing Microalgae for Biodiesel Production**

<sup>1</sup>N. Bozymbayeva, <sup>1</sup>A. Orazgaliyev, <sup>1</sup>A. Utebayeva, <sup>1</sup>K. Bolatkhan

<sup>1</sup>Al-Farabi Kazakh National University, Almaty, Kazakhstan

Email: [bkenzhegul23@gmail.com](mailto:bkenzhegul23@gmail.com)

## **Diversity and Biological Activity of Culturable Endophytic Bacteria Associated with Marigold (*Calendula officinalis* L.)**

<sup>1\*</sup>Vyacheslav Shurigin, <sup>2</sup>Nils-Kåre Birkeland, <sup>3</sup>Aida Kistaubayeva, <sup>1</sup>Dilfuza Egamberdieva

<sup>1</sup>Faculty of Biology, National University of Uzbekistan, 100174, Tashkent, Uzbekistan

<sup>2</sup>Department of Biological Sciences, University of Bergen, NO-5020 Bergen, Norway

<sup>3</sup>Department of Biotechnology, Al-Farabi Kazakh National University, 050040, Almaty, Kazakhstan

Email: [aida\\_kaz@mail.ru](mailto:aida_kaz@mail.ru)

## **Maceration vs. Ultrasound-assisted Extraction: What is better for Extraction of *Salvia officinalis* L.?**

<sup>1</sup>Gaziza Zhumaliyeva, <sup>1</sup>Makhambetova Meruert, <sup>1</sup>Zhussupova Aizhan

<sup>1</sup>Al-Farabi Kazakh National University, Faculty of Biology and Biotechnology,

Department of Molecular Biology and Genetics, Almaty, Kazakhstan  
Email: [1gaziza\\_jumalieva@mail.ru](mailto:gaziza_jumalieva@mail.ru), [1Aizhan.Zhussupova@kaznu.kz](mailto:Aizhan.Zhussupova@kaznu.kz)

## **Current State of Natural Pasture Ecosystems of the Kurty Region**

<sup>1</sup>Margulan Iklassov, <sup>1</sup>Sabir T. Nurtazin, <sup>2</sup>Steven G. Pueppke

<sup>1</sup> Department of Biodiversity and Bio-resources, Faculty of Biology and Biotechnology, Kazakh National Al-Farabi University, Almaty 050040, Kazakhstan

<sup>2</sup> Center for European, Russian and Eurasian Studies, Michigan State University, 427 North Shaw Lane, East Lansing, MI 48864, USA

Email: [1kласovmargulan@gmail.com](mailto:1kласovmargulan@gmail.com)

## **Assessment of Biological activity of *Rhodiola rosea* L. Kazakhstan Altai**

<sup>1</sup>M. ZH. Zhumagul, <sup>1</sup>M.S. Kurmanbayeva

<sup>1</sup>Al-Farabi Kazakh National University, Kazakhstan, Almaty

Email: [1mzhakypzhan@mail.ru](mailto:1mzhakypzhan@mail.ru), [2kurmanbayevakz@gmail.com](mailto:2kurmanbayevakz@gmail.com)

## **Determination of Antioxidant Capacity and Total Secondary Metabolites of *Iris albicans* Extracts**

<sup>1</sup>Şerife Demirbaş, <sup>1</sup>Çiğdem Aydın, <sup>2</sup>Ramazan Mammadov. <sup>1</sup>Özge KILINÇARSLAN AKSOY, <sup>1</sup>Nahide DENİZ<sup>1</sup>

<sup>1</sup> Department of Biology, Faculty of Arts and Sciences, Pamukkale University, Denizli, Turkey

<sup>2</sup> Molecular Biology and Genetic Departments, Muğla Sıtkı Koçman University, Turkey

## **Results of introduction and selection work on the creation of a valuable gene pool of *Sorghum saccharatum* (L.) Moench as a highly productive bioenergetic plant in the M.M. Gryshko National Botanical Garden**

Dzhamal Rakhmetov, Olena Vergun, Svitlana Rakhmetova

M.M. Gryshko National Botanical Garden, National Academy of Sciences of Ukraine, Kyiv, Ukraine

Email: [rjb2000.16@gmail.com](mailto:rjb2000.16@gmail.com)