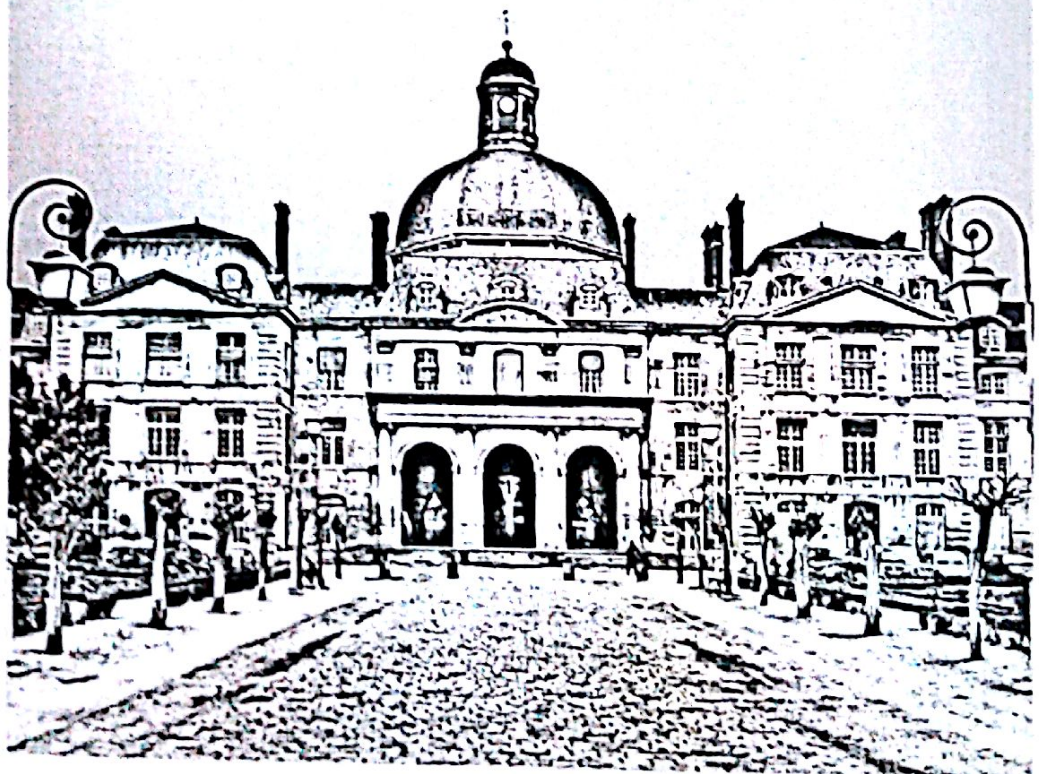


# The Fifth International Conference on Biology and Medical Sciences

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## Contents

<b>Biological sciences</b> .....	<b>3</b>
<b>Section 1. General biology</b> .....	<b>4</b>
<i>Jakeli Julieta, Kristine Makharadze</i>	
Gene Pool of New Zealand species at Batumi Botanical garden .....	4
<i>Imomova Dilfuza Anorovna, Ortikova Mokhira Izbosarovna, Ishonqulov Baxodir Muratovich</i>	
The part of heredity in bringing up the commissar people .....	6
<i>Klimchuk Alexandr Tikhonovich, Klimchuk Svetlana Kuandykovna, Nashenov Zhangozy Bolatovich</i>	
Biology of the Siberian elm in the conditions of extremely continental climate of Zhezkazgan region .....	9
<i>Kodirov Gayrat Urakboyevich, Ishonkulova Dilafruz Ulugbekovna, Xoldorova Muhayyo Otaqulovna, Usanov Ulugbek Nurullayevich</i>	
The biology of sort of <i>Peganum harmala</i> L. ....	14
<i>Kritckaia Tatiana Alexeevna, Kashin Alexandr Stepanovich</i>	
<i>In vitro</i> conservation of some of endangered calciphilic plants in Saratov region .....	17
<i>Mavlonov Xudargan Mavlonovich, Imomova Dilfuza Anorovna, Khorakulova Nodira Husanovna, To'raqulova Visola Xudoyqulovna</i>	
The perspectives of originating intensive gardens in Jizzakh region .....	24
<i>Rysmambetova Galiya Mukachevna, Bayzhigitov Kulakhmet Bayzhigitovich</i>	
Anatomic–morphological variability <i>Elaeagnus angustifolia</i> L. under different environmental conditions .....	30
<i>Khmelevskaya Anna Vasilievna, Karaeva Irina Taymurazovna</i>	
The study of the prospects for the use of wild food and medicinal plants in the Republic of North Ossetia-Alania .....	36
<b>Section 2. Physico-chemical biology</b> .....	<b>42</b>
<i>Bogolyubova Irina, Bogolyubov Dmitry</i>	
An immunocytochemical study of the perinucleolar heterochromatin in early mouse embryos .....	42
<b>Section 3. Physiology</b> .....	<b>46</b>
<i>Mambetpaeva Bakhyt Smagulovna, Bekbayev Assylkhan Zhalaushanovich</i>	
The physiology of the pulmonary circulation in white rats .....	46
<i>Mitaeva Yaroslava Igorevna, Mozherov Artem Mikhailovich, Mukhina Irina Vasil'evna</i>	
Network $Ca^{2+}$ - cell activity field CA3 hippocampal slices of rat early and late postnatal development .....	49

<i>Rakhmanov Akramjon Muzaffarovich, Tursunbaev Anvar Karimovich, Choltoyeva Fotima Fayzievna</i>	
Kidneys function in children with rheumatoid arthritis .....	89
<i>Styazhkina Svetlana Nikolaevna, Kostareva Elena Urievna, Ledneva A. V., Ahkiyamov Ravil Raficovich, Kuzmina Anastasiya Vladimirovna, Faimov Linar Faridovich</i>	
Relevance of cytological research.....	93
<i>Toshpulatova Arofat Ziyovutdinovna, Buzrukov Botir Tulkunovich, Zakirhodjaeva Dilorom Asrorovna, Toshpulatov Jamoliddin Ziyovutdinovich, Temirova Saodat Yorovna</i>	
Ophthalmic display of Marfan syndrome in children.....	97
<i>Ulyanova Marina Ilyinichna, Provotorov Vyacheslav Mikhailovich</i>	
Chronic obstructive pulmonary disease and anemia .....	101
<i>Urazbakhtin Ilham Irikovich, Fayzullina Guzel Akhtyamovna, Alalikin Alexander Evgenievich, Kondratyev Victor Trifonovich, Shamsutdinov Rustem Ramilevich</i>	
Clinical case of the treatment of solitary bone cyst of the mandible .....	106
<i>Usmanov Shuhrat Urazalievich</i>	
Optimization of detection and treatment of osteoporosis in children.....	110
<i>Feoktistov Vitaliy Aleksandrovich, Sajlauuly Galymbek, Baimbetova Dinara Suleymenovna, Dryupin Aleksey Pavlovich, Berkut Maria Vladimirovna</i>	
Features of early detection and surgical approach with suspected injury to the heart .....	115
<i>Cherkasov Mikhail Fedorovich, Cherkasov Denis Mikhailovich, Starcev Yurii Mikhailovich, Melikova Sabina Gadgievna, Skuratov Andrei Vladimirovich</i>	
Experience of videoendoscopic surgical treatment complicated forms of hiatal hernias .....	118
<b>Section 2. Biomedical science .....</b>	<b>125</b>
<i>Zhamanbayeva Gulzhan T., Murzakhmetova Maira K., Tuleukhanov Sultan T., Danilenko Michael</i>	
Enhanced antileukemic action of combined extracts from Kazakhstan medicinal plants.....	125
<i>Islomov Abdumovlon Yuldashevich, Aykhodjayev Bakhrom Kamoliddinovich, Turgunova Ximoyat Zaynutdinovna, Ibragimov Jasur Nodirovich, Abrorova Barno Toxir qizi, Arifdjanova Jonona Farrukh qizi</i>	
Clinic-etiological characteristic of middle otitis among children .....	129

## Section 2. Biomedical science

*Zhamanbayeva Gulzhan T.,  
Al-Farabi Kazakh National University, Almaty,  
Department of Biophysics and Biomedicine, PhD-student  
E-mail: gulzhan\_t.82@mail.ru*

*Murzakhmetova Maira K.,  
Head, Laboratory of membrane physiology,  
Institute of human and animal physiology, Almaty  
E-mail: mairamur@mail.ru*

*Tuleukhanov Sultan T.,  
Al-Farabi Kazakh National University,  
Head, Department of Biophysics and Biomedicine  
E-mail: sultan.tuleuhanov@kaznu.kz*

*Danilenko Michael,  
Head, Department of Clinical Biochemistry & Pharmacology,  
Ben-Gurion University of the Negev, Beer-Sheva, Israel  
E-mail: misha@bgu.ac.il*

### **Enhanced antileukemic action of combined extracts from Kazakhstan medicinal plants**

Acute myeloid leukemia (AML) is a hematological malignancy that results from transformation of multipotent hematopoietic progenitors and leads to accumulation of immature myeloid cells in the bone marrow<sup>1</sup>. AML is the most common acute leukemia affecting adults, and its incidence increases with age. Although the overall annual incidence of AML in the USA is ~ 4.3 per 100,000, the most recent estimate from the Surveillance, Epidemiology, and End Results Program (SEER, 2011) is 17.5 per 100,000 among the ≥65 year-old population. About 21,000 new cases of

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<sup>1</sup> Shipley J.L., Butera J.N. Acute myelogenous leukemia//Exp Hematol. – 2009, – Vol. 37, – No. 6, – P. 649–658.