

# **Jose Manuel Barroso gave a lecture to students of Nazarbayev University**



## JOSE MANUEL BARROSO GAVE LECTURE TO STUDENTS OF NAZARBAYEV UNIVERSITY

Former chairman of European Commission Jose Manuel Barroso gave a lecture to students of Nazarbayev University. The European politician has devoted his lecture to international relations of the European Union and its response to the global crisis. Students of the School of Humanities and Social Sciences and the Graduate School of Public Policy of Nazarbayev University have also discussed the development of European integration, as well as developing relations between the European Union and Kazakhstan.





## II INTERNATIONAL CONFERENCE ON PERSONALIZED MEDICINE AND GLOBAL HEALTH



Personalized Medicine & Global Health

On May 13-14, 2015, Center for Life Sciences, Nazarbayev University launched II International Conference on Personalized Medicine and Global Health.

Scientists from leading universities of European Union, Japan, Israel, Korea, Russia, Ukraine and United States, senior management of research organizations, educational institutions, healthcare industry representatives, officials and representatives of Government of Kazakhstan attended this year's conference.

The Conference united scientists from different countries, with different backgrounds and research interests. During the two-day conference the participants were focused on developments in the field of global and topical issues of biomedicine such as achievements and prospects of personalized medicine, multi-omic technology and their applications, bioinformatics, systems biomedicine, global health and microbiome research.

The Conference program included two panel sessions, "Genomic and Personalized Medicine Era: Challenges and Opportunities" and "Microbiome and Human health". Moreover, within the conference the workshops and poster sessions for young scientists and students, masters, postdoctoral students, and "Best poster presentation" competition among young scientists were held.

Zhaxybay Zhumadilov Director of the Center for Life Sciences in his welcoming speech said: "The conference aims to provide an innovative and comprehensive overview of the latest scientific development of genomic and personalized medicine, bioinformatics, and global health. We hope that this annual event will serve as an interactive platform for open and constructive exchange of views on the innovative achievements of genomic and personalized medicine, establishing a scientific basis of global health, development of international cooperation in innovative areas of research in the biomedical field".

It should be noted that scientists and experts in the field of genomics, gerontology, biomedicine and bioengineering gathered together in Astana for the second time to discuss innovations in the field of genomic and personalized medicine the most important in this area are the study of malignant diseases, cardiovascular diseases, autoimmune diseases, pathology of pregnancy, pharmacogenomic studies, population genomics, bioinformatics and other studies.

Center for Life Sciences of Nazarbayev University conducts active research in the abovementioned areas. For example, Center conducted a study in the field of genomic and personalized medicine on the project "Genome and Transcriptome profile of esophageal cancer", "Development and clinical assessment of Haloplex cardiogenetic panel for detecting genetic predisposition and diagnosis of cardiac arrhythmias" and other projects. In the field of global health Nazarbayev University has launched a study of the human microbiome (human microbiota regarded as a body organ that promotes human health and is sensitive to any, even minor changes of internal and external environment. And so it is an excellent indicator of the health, the current study will help to develop effective non-invasive methods of early diagnosis disease). The world scientific community launched the project in 2007; Kazakhstan joined the study in 2012, and in 2015 was officially recognized as a member of the International Consortium of Human microbiome.



## DR. BEN GORTZEL "ARTIFICIAL INTELLIGENCE" LECTURE



On May 18th, 2015 Dr, Ben Gortzel held "Artificial Intelligence" lecture to students of University.

Dr. Ben Gortzel is one of the world's leading researchers and experts in artificial general intelligence (AGI), natural language processing, cognitive science, data mining, machine learning, computational finance, bioinformatics, and virtual gaming; Chief Scientist of financial prediction firm Aidya Holdings; Chairman of Artificial Intelligence software company Novamente LLC.

## DR. MICHAEL GOLDFARB "EMERGING AND FUTURE DIRECTIONS IN REHABILITATION ROBOTICS"



Nazarbayev University hosted lecture of Dr. Michael Goldfarb "Emerging and Future Directions in Rehabilitation Robotics", which will take place on Wednesday May 20th, 2015.

Michael Goldfarb, PhD, is the H. Fort Flowers Professor of Mechanical Engineering in the School of Engineering, with secondary appointments as a Professor of Electrical Engineering, and Professor of Physical Medicine and Rehabilitation in the School of Medicine at Vanderbilt University. Dr. Goldfarb is the director of the Center for Intelligent Mechatronics, the mission of which is to develop intelligent assistive devices that improve quality of life for people with physical disabilities.

Dr. Goldfarb has published over 170 technical papers on related topics, including papers that were awarded best - paper awards in 1997, 1998, 2003, 2007, 2009, and 2013. Recent work includes the development of robotic limbs for upper and lower extremity amputees, and the development of lower limb exoskeletons for individuals with spinal cord injury and stroke. Abstract of his topic is attached.

## ASTANA ECONOMIC FORUM

Will robots take away jobs in the future? How will labor market be transformed as a result of emergence of disruptive technologies? These and other related questions were discussed at NU session "Disruptive Technologies: Impact on Society and Labor Market" during the Astana Economic Forum on May 21, 2015.

Moderator of the session was President Shigeo Katsu.





## THE DAY OF COMMEMORATION OF VICTIMS OF POLITICAL REPRESSION AND HUNGER

The Day of Commemoration of Victims of Political Repression and Hunger event held annually on May 31st in Kazakhstan, took place at the Graduate School of Education of Nazarbayev University.

A large number of students and professors of NU, as well as the representatives of People's Assembly of Kazakhstan, research fellows from the ALZHIR museum (Akmola Camp of Wives of Motherland's "Traitors") participated in the event.

The participants spoke about one of the worst periods in the history of Kazakhstan, caused by the brutal



policy of repression hundreds of thousands of innocent people resulting in them being killed and tortured. Among the victims were prominent figures of science, culture and politics. Another dark page of the history which was remembered during the event was the mass hunger during the 1930s which affected every family in Kazakhstan, and cost millions of people their lives.

A minute of silence was observed to the memory of the victims of political repression and hunger.

One of the highlights of the event was the presentation of the manuscript of the poem "Kyz-Jibek", which was saved by two political prisoners of Karlag – a Kazakh and a Kyrgyz. This manuscript is one of the versions of the famous Kazakh poem "Kyz-Jibek". These two prisoners were among more than a million prisoners, representatives of over 100 nationalities in Karlag. Assistant-Professor from Nazarbayev University Graduate School of Education Duishon Shamatov, who received this unique manuscript, shared its very interesting story: Manuscript had a long history through an intriguing passing of it from hand-to-hand through many years. His relative, Kuzebay ata was given this manuscript from his Kazakh friend with whom he had become good friends. The manuscript had been kept carefully in their family in Kyrgyzstan. Professor Duishon Shamatov was fully conscious of the importance of this document for the students of the university. He knew they should learn about how it was found and about its significant value. He knew they should see this manuscript which symbolizes the friendship of these two nations. "The manuscript of the favorite and widely popular poem of "Kyz-Jibek", saved by the Karlag prisoners is a living memory of the dark pages of history when the repressive regime attempted to destroy the most educated intellectual elite. The poem is interesting to our students because it contains the best images and ideals for our youth", said Duishon Shamatov.

Marzhan Baubekova  
**МАРЖАН БАУБЕКОВА**  
*Математика*  
*Хобби: Үлкен теннис*  


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*Mathematics*  
*Hobby: Playing tennis*



# МАУСЫМ / JUNE 2015

Ас / M	Сс / T	Ср / W	Бс / T	Жм / F	Сб / S	Жк / S
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## МАМЫР / MAY

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## ШІЛДЕ / JULY

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