

Eastern Mediterranean Health Genomics and Biotechnology Network (EMGEN) was created in 2004 for representatives of selected centers of excellence in (health related) Molecular biology, Biotechnology & genomics in the Eastern Mediterranean Region by recommendation of WHO/EMRO efforts.

A variety of projects have been accomplished Since EMGEN was found which include exchange of researchers for scientific projects, collaboration between Iranian and regional scholars, introduction of papers, books, journals and useful all-inclusive databases, containing research centers, 1200 companies and also more than 7000 active scientists in the field of genomics and health biotechnology. In this regard at 2015, EMGEN signed a five year Memorandum of Understanding (MoU) between Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), M.A.H Qadri Biological Research Center and National Center for Proteomics (NCP) of Pakistan, separately, to joint scientific activities. Both sides briefed each other about the programs of their respective organizations and thoroughly discussed various areas of collaboration.

EMGEN and AIESEC (Association Internationale des Étudiants en Sciences Économiques et Commerciales) amend and extend their agreement to continue activities like exchange scientists for 5 more years.

Also a Memorandum of Understanding (MOU) was signed to foster cooperation between Eastern Mediterranean Health Genomics and Biotechnology Network (EMGEN), Bioinformatics Research Center of Sabzevar, Afghanistan National Public Health Institute (ANPHI), and Cheragh Medical Institute & Hospital (CMI), through mutual cooperation in the areas of education, research and industrial/production collaboration.

The MoU's focus points are collaborative projects, researcher exchange, and to hold common scientific events such as conferences, seminars, workshops, mutual cooperation, also helping to develop industrial parts of countries.

We felt that we have the capabilities to expand our range of activities. Thus, we launched the collaboration with Iranian Biotechnology Development Council which is located in Presidential Deputy for Science and Technology through bilateral negotiations and meetings. We signed a contract with the council. The items of cooperation are listed as below:

1. To develop a national road map for biotechnology.
2. To prepare a regional database consisting of detailed specifications of researchers.
3. To hold international webinars having pre-agreed topics.
4. To organize internal seminars in order to look for comprehensive solutions for knowledge-based biotechnology companies.

EMGEN organizes International training workshops and webinars to develop research outcomes and improve capabilities such as lab works with bioinformatics software and etc.

The workshops and webinars include lectures, and teaching by various professions. List of Past webinar's were shown in table 1 and 2. The past webinar's participants were from I.R.Iran, Kuwait, Qatar, United Arab Emirates, USA, Australia, china, India, Pakistan and etc.

Table1. Time and Title of EMGEN's Webinars

Webinar Title	Time
Antimicrobial Susceptibility Testing	1th November, 2015
Bioinformatics Softwares in Biotechnology Research: How to Work with NCBI and GenBank	20th December, 2015
Bioinformatics Softwares in Biotechnology Research: How to Work with NCBI and GenBank	4th January, 2016

Application of Biotechnology in Design, Implementation and Evaluation of Strategies for Malaria Control Program	11th January, 2016
Biotechnology Application <i>Escherichia coli</i> Protein Expression	18th January, 2016
Bioinformatics Softwares in Biotechnology Research: Introduction to Vector NTI	25th January, 2016
How to Lead High-tech Biotechnology Research: Basics and Application of Circular Dichroism (CD) in Protein Biopharmaceutical Analysis	April 19, 2016

Table2. EMGEN workshops

Workshop Title	Time
Instrumental analysis methods	24-25 <sup>th</sup> February, 2016
Academic writing	27-28 <sup>th</sup> January, 2016
Advanced analytical methods in quality control labs for food drug and biotechnology products	12 <sup>th</sup> January, 2016
Advanced analytical methods in quality control labs for food drug and biotechnology products	13-15 <sup>th</sup> October, 2015

The principles of HPLC and its medical, pharmaceutical & biological applications	25-26 <sup>th</sup> August, 2015
Tips and tricks in the fundamental concepts of GMP and GLP for health related industries (International)	25-30 <sup>th</sup> July, 2015
Advanced analytical methods in quality control labs for food drug and biotechnology products	21-23 <sup>th</sup> July, 2015
Scientific research methods and paper writing	16-17 <sup>th</sup> June, 2015
Analytical methods in quality control labs for food drug and biotechnology products	30-31 <sup>th</sup> May, 2015
Structural bioinformatics	6-7 <sup>th</sup> January, 2015
Instrumental analysis methods in quality control labs	20-21 <sup>th</sup> June, 2014
Immunoinformatics	6 <sup>th</sup> August, 2014
Chemoinformatics	5 <sup>th</sup> August, 2014
Chemoinformatics	6 <sup>th</sup> September, 2014
Instrumental analysis methods used in biotechnology	6-7 <sup>th</sup> September, 2014

The practical roles of R&D in pharmaceutical based GMP aspects (International)	10-11 <sup>th</sup> March, 2014
Structural bioinformatics	6-7 <sup>th</sup> May, 2013
Structural Bioinformatics	24-25 <sup>th</sup> April, 2013
Structural Bioinformatics	3 <sup>th</sup> July, 2013
Scientific paper writing	20-21 <sup>th</sup> August, 2013
HPLC	15-16 <sup>th</sup> December, 2013
Scientific paper writing	4-5 <sup>th</sup> December, 2013
HPLC	20-21 <sup>th</sup> December, 2013