



BiophysicsWeek

March 22–26, 2021

IBB International Virtual Symposium on the Importance of Biophysics in Solving Biological Problems

(March 25, 2021)

<https://ibb.ut.ac.ir/IBB-BW2021>

Institute of Biochemistry and Biophysics (IBB),
University of Tehran, Tehran, Iran
(25 March 2021, 5 Farvardin 1400)

Free registration

Interdisciplinary Theoretical & Experimental Approaches in
Education, Training, Research, Discoveries, Innovation
To Understand Molecular Mechanisms in Biological Systems

<https://ibb.ut.ac.ir/IBB-BW2021>

<https://usern.tums.ac.ir>

<https://www.biophysics.org>

Telegram: @usern_net

Email: Biophysics.ibb@ut.ac.ir

Link to the sessions: <https://www.skyroom.online/ch/tums2/usern>

Affiliated to the world Biophysical Week

<https://www.biophysics.org/outreach/biophysics-week/affiliate-events>

In collaboration with

USERN (Universal Scientific Education and Research Network) SCIENCE WITHOUT BORDERS
UNESCO/UNITWIN (Interregional NETWORK in Biophysics, Biotechnology and Environmental Health)

President and Scientific Director: Prof. Hamid Mobasheri

Program

Thursday (March 25) (5-1-1400) Morning Sessions (09:00-12:00 IST) Afternoon Sessions (14:00-18:00, IST)		
08:30-09:00 (GMT 04:00-04:30)	Registration	
09:00-09:15 (GMT 04:30-04:45)	Opening Ceremony	Quran Iran National Anthem Message of Dean of IBB Message of Scientific Director Message of USERN Chairman Message of UNESCO Chairman
Timing Morning Session (09:00-12:00 IST)	Biophysical Approaches (in different aspects)	
Members of panel: Prof. Hamid Mobasheri, Dr. Naira Baghdasaryan, Prof. Sinerik Ayrapetyan		
09:15-09:30 (04:45-05:00 GMT)	Prof. Hamid Mobasheri Department of Biophysics Institute of Biochemistry and Biophysics University of Tehran, Iran	Physics of Biological systems
09:30-10:00 (05:00-05:30 GMT) (Armenia 09:00-9:30)	Dr. Naira Baghdasaryan UNESCO Chair-Life Sciences International Postgraduate Educational Center, Armenia	The effect of environmental factors on physico-chemical properties of water and water solutions
10:00-10:30 (05:30-06:00 GMT) (Armenia 09:30-10:00)	Prof. Sinerik Ayrapetyan UNESCO/UNITWIN Network, UNESCO Chair-Life Sciences International Postgraduate Educational Center, Armenia	Non-thermal intensity microwaves; biological effects and practical applications
10:30-10:45 (GMT 06:00-06:15)	Discussion	
10:45-11:00 (GMT 06:15-06:30) Coffee Break	Video	IBB and Iran Interdisciplinary aspects of Biophysics considered
Members of panel: Prof. Andrey B. RUBIN, Dr. Zeinab Shankayi, Prof. Hassan Tavakoli		
(11:00-11:30, IST) (GMT 06:30-07:00)	Dr. Zeinab Shankayi Faculty of Physiology and Biophysics, Baghyatollah Medical Sciences University, Tehran, Iran	Electroporation: Advanced physical techniques for gene and drug delivery
11:30-12:00 (GMT 07:00-07:30)	Prof. Hassan Tavakoli Baghyatollah Medical Sciences University, Tehran, Iran	Coupling of electromagnetic fields in biological systems
12:00-12:15 Discussion (GMT 07:30-07:45)	Video	Iran Culture and Music
Lunch and Prayer Break		

Afternoon Session (1400-1700) (09:30-12:30 GMT)		
Members of panel: Prof. H. Mobasheri, Prof. Tom McLeish, Prof. Andrey B. Rubin		
14:00-14:30 (09:30-10:00 GMT)	Prof. Tom McLeish Department of Physics, Centre for Medieval Studies, Humanities Research Centre University of York Heslington, York, UK	Computational analysis of dynamic allostery and control in the SARS-CoV-2 main protease
14:30-15:00 (GMT 10:00-10:30) (Moscow, 13:00-13:30)	Prof. Andrey B. Rubin Department of Biophysics Moscow State University, Russian Academy of Sciences	Principles of biophysical education and the contents of General course on Biophysics
15:00-15:15 (GMT 10:30-10:45)	Discussion	
15:15-15:30 (GMT 10:45-11:00) Coffee Break	Video	IBB and Iran Joint biophysical considered matters
Members of panel: Prof. Sinerik Ayrapetyan, Prof. Sumanta Goswami, Dr. Arefeh Seyedarabi		
15:30-16:00 (GMT 11:00-11:30)	Dr. Arefeh Seyedarabi Department of Biochemistry Institute of Biochemistry and Biophysics University of Tehran, Iran	Macromolecular X-ray Crystallography to Solve Important Biological Problems
16:00-16:30 IST (GMT 11:30-12:00) (New York time, 07:30-08:00)	Prof. Sumanta Goswami Albert Einstein College of Medicine, Michael F. Price Center, and Chair, Department of Biology Yeshiva University, New York, USA	SMART solution to the COVID-19 pandemic
16:30-16:45 (GMT 12:00-12:30)	Discussion	
16:45-17:00	Closing statements and ceremony	