PREVIOUS WINNERS

2016  PROF. NATALIE Q. BALABAN  Racah Institute of Physics, Faculty of Science  Biological Physics of Self-replication

2015  PROF. ESIYAM SARI  Racah Institute of Physics, Faculty of Science  Understanding the Universe

2014  PROF. MOHAMMAD BIRAN  Departments of Asian Studies, and Islamic and Middle Eastern Studies, Institute of Asian and African Studies, Faculty of Humanities  Inner Asian History: Mobility, Empire, and Cross-Cultural Contacts in Medieval Eurasia

2013  PROF. BOYAN BANERJEE  Institute of Chemistry and the Hebrew University Research Center for Molecular Dynamics, Faculty of Science  Developing New Theoretical and Computational Techniques to Enable Determination of the Energy Levels of Charge Carriers in Large Molecular Systems and Nanocrystals

2012  DR. EYAL NEISHA  Institute of Chemistry, Silberman Institute of Life Sciences, Faculty of Science  Developing Novel Microscopy and Spectroscopic Imaging Techniques to Understand Genome Plasticity in Stem Cells

2011  PROF. DAVID WEISBURG  Institute of Criminology, Faculty of Law  Pioneering research on White Collar Crime, Policing, and Crime Prevention

2010  PROF. MORIS AVIGOR  Department of Psychology and Program in Cognitive Sciences, Faculty of Social Sciences  Understanding the Brain: How it Develops, What it Does, and Why it Goes Wrong

2009  PROF. SAMIR TAVOLA-ZAY-AWAD  Department of Biological Chemistry, Silberman Institute of Life Sciences, Faculty of Science  Structural Biology of Neurotransmitter Proteins, Focusing on Dopamine Cations and ATPases

2008  PROF. URI BANIN  Institute of Chemistry and the Center for Nanoscience & Nanotechnology, Faculty of Science  Major Advancements in the Science and Technology of Nanocrystals and the Development of Hybrid Nano-Particulate Nanoparticles

2007  PROF. HOWARD CEZAR  Department of Developmental Biology and Cancer Research, Institute for Medical Research Israel-Candia, Faculty of Medicine  Establishing the Cerebrospinal-Lymphatic System and its Role in Human Development

THE KLACHKY PRIZE
FOR THE ADVANCEMENT
OF THE FRONTIERS OF SCIENCE
AT THE HEBREW UNIVERSITY OF JERUSALEM

June 2017
The Klachky Prize for the Advancement of the Frontiers of Science is an annual prize founded by the late Ms. Rachel Klachky. The prize is given to Hebrew University faculty members or academic units for their achievements in:

- The Advancement of Science
- The Advancement of Scientific Research
- The Advancement of Scientific Knowledge
- The Advancement of the Frontiers of Science

New Academic Developments
Academic Ventures

As a researcher, Karim Adiprasito is fascinated by connections between different areas of mathematics, in particular the interplay between combinatorial (or discrete) and continuous structures. An important instance of such a phenomenon is the Maxwell-Cremona correspondence, which goes back to late Renaissance study of statics in architecture. He used this technique to study (discrete) partial differential relations which govern, for instance, the behavior of flowing water or electromagnetic fields to solve a problem going back to Legendre more than 200 years ago. Furthermore, he used this technique to describe combinatorially how algebraic objects intersect, which led to the solution of a famous conjecture of Rota. Currently, he is working with a student to analyze algorithms in scientific computing using their symmetries and attempting to understand extremal properties of certain algebraic objects.

Karim Adiprasito is German by nationality. He owes his name to an Indonesian grandfather who came to Germany as an engineer and first introduced young Karim to mathematics through asking him mathematical riddles every time he visited. Adiprasito earned his Ph.D. in differential geometry and combinatorics in 2013 at Freie University Berlin in Germany with Günter Ziegler. Subsequently, he undertook post-doctorate work at the Institute des Hautes Études Scientifiques (IHES) near Paris and the Institute for Advanced Study (IAS) at Princeton before joining The Hebrew University.