



This is to certify that

## Ali ABDELAAL

participated in and completed the

Joint ICGEB-ICTP-APCTP Workshop on Systems Biology and Molecular Economy of Microbial Communities

Co-sponsors:

International Centre for Genetic Engineering and Biotechnology (ICGEB)
Asia Pacific Center for Theoretical Physics (APCTP)

3 - 7 July 2017

ICTP, Trieste, Italy

Directors: D. Segre' (Boston University), S. Levin (Princeton University), V. Venturi (ICGEB), Pan-Jun Kim (KAIST) Local Organizer: M. Marsili

Janus S

Fernando Quevedo, Director





## Joint ICGEB-ICTP-APCTP Workshop on Systems Biology and Molecular Economy of Microbial Communities

ICTP, Trieste, Italy 3 - 7 July 2017

Trieste, 6 July 2017

## TO WHOM IT MAY CONCERN

This is to certify that

Dr. Ali Abdelaal, Assistant Professor, Damietta University, Egypt and ICGEB, Integrative Biology Department, Microbial Engineering Group, New Delhi, India

attended the Joint ICGEB-ICTP-APCTP Workshop on Systems Biology and Molecular Economy of Microbial Communities held at the Abdus Salam International Centre for Theoretical Physics from 3 - 7 July 2017, and presented a poster entitled Global patterns of pectin degradation revealed through metagenomic mining.

Yours sincerely, Shipper notar

Erica Sarnataro Workshop Secretary