

15<sup>th</sup> International Congress on **American Pathology and Oncology Research**  
&  
International Conference on **Microbial Genetics and Molecular Microbiology**  
December 03-04, 2018 | Chicago, USA

**Probiotics with *Lactobacilli* origin differently act on the growth of hospital-acquired multidrug-resistant *Klebsiella Pneumoniae***

Lilit Malkhasyan<sup>1</sup> and Astghik Z Pepoyan<sup>2</sup>

<sup>1</sup>International Association for Human and Animals Health Improvement, Armenia

<sup>2</sup>Armenian National Agrarian University, Armenia

The positive effects of probiotic *lactobacilli* on human organism are known. Previously we suggested the use of Verhulst's equation (VE) for the evaluation of the growth of gut isolates from the patients with Familial Mediterranean fever disease. We used VE for the characterization of the growth of hospital-acquired multidrug-resistant *Klebsiella pneumoniae* strain in current investigations. The differences in the duration of the growth preparatory and logarithmic phase, as well as in the specific growth rate of the pathogen were detected under the influence of putative probiotic *lactobacilli* strains: *L. rhamnosus* str. Vahe, *L. rhamnosus* str. ASAP, *L. rhamnosus* str. Lacto-G, *L. plantarum* str. ZPZ and *L. delbrueckii* str. IAHAHI. The strain-specific effects of *lactobacilli* on pathogen's growth show a possibility to use VE in the design of pharmacokinetics of probiotics. This study was supported by the International scientific Technical Center (A-2134).

**Biography**

Lilit Malkhasyan received her MSc from the Armenian National Agrarian University (specialty:children and functional nourishment technology). She is an active member of the International Association for Human and Animals Health Improvement, Yerevan, Armenia. She is the author of three scientific publications.

lmalkhasyan@gmail.com

**Notes:**