

# Accepted Manuscript

Phylogeography, genetic variability and structure of *Acanthamoeba* metapopulations in Iran inferred by 18S ribosomal RNA sequences; a systematic review and meta-analysis

Adel Spotin, Hamid Reza Moslemzadeh, Mahmoud Mahami-Oskouei, Ehsan Ahmadpour, Maryam Niyiyati, Seyed Hossein Hejazi, Fatemeh Memari, Jafar Noori

PII: S1995-7645(17)30710-1

DOI: [10.1016/j.apjtm.2017.08.011](https://doi.org/10.1016/j.apjtm.2017.08.011)

Reference: APJTM 512

To appear in: *Asian Pacific Journal of Tropical Medicine*

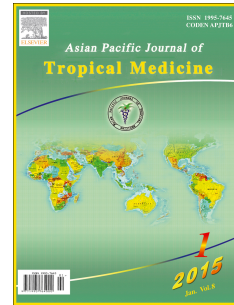
Received Date: 8 May 2017

Revised Date: 30 July 2017

Accepted Date: 10 August 2017

Please cite this article as: Spotin A, Moslemzadeh HR, Mahami-Oskouei M, Ahmadpour E, Niyiyati M, Hejazi SH, Memari F, Noori J, Phylogeography, genetic variability and structure of *Acanthamoeba* metapopulations in Iran inferred by 18S ribosomal RNA sequences; a systematic review and meta-analysis, *Asian Pacific Journal of Tropical Medicine* (2017), doi: 10.1016/j.apjtm.2017.08.011.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**Title:** Phylogeography, genetic variability and structure of *Acanthamoeba* metapopulations in Iran inferred by 18S ribosomal RNA sequences: A systematic review and meta-analysis

**Author:** Adel Spotin<sup>1</sup>✉, Hamid Reza Moslemzadeh<sup>1</sup>, Mahmoud Mahami-Oskouei<sup>2</sup>, Ehsan Ahmadpour<sup>2</sup>, Maryam Niyyati<sup>3</sup>, Seyed Hossein Hejazi<sup>4</sup>, Fatemeh Memari<sup>3</sup>, Jafar Noori<sup>2</sup>

**Affiliation:**

<sup>1</sup>*Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran*

<sup>2</sup>*Department of Parasitology and Mycology, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran*

<sup>3</sup>*Department of Medical Parasitology and Mycology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran*

<sup>4</sup>*Department of Parasitology and Mycology, School of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran*

**Key words:**

*Acanthamoeba* metapopulations

Genetic variability

Gene flow

Molecular phylogeny

Iran

✉First and corresponding author: Adel Spotin, Ph.D, Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran.

Tel: +98-04133344777

E-mail: Adelespotin@gmail.com, Spotina@tbzmed.ac.ir

Foundation project: This study was financially supported by Immunology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran.

**Article history:**

Received 8 May 2017

Received in revised form 30 July 2017

Accepted 10 August 2017

Available online 20 September 2017

Download English Version:

<https://daneshyari.com/en/article/8754087>

Download Persian Version:

<https://daneshyari.com/article/8754087>

[Daneshyari.com](https://daneshyari.com)