### Accepted Manuscript

Exon-based phylogenomics strengthens the phylogeny of Neotropical cichlids and identifies remaining conflicting clades (Cichliformes: Cichlidae: Cichlinae)

Katriina L. Ilves, Dax Torti, Hernán López-Fernández

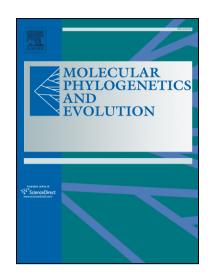
PII: S1055-7903(17)30521-3

DOI: https://doi.org/10.1016/j.ympev.2017.10.008

Reference: YMPEV 5944

To appear in: Molecular Phylogenetics and Evolution

Received Date: 13 July 2017
Revised Date: 5 October 2017
Accepted Date: 6 October 2017



Please cite this article as: Ilves, K.L., Torti, D., López-Fernández, H., Exon-based phylogenomics strengthens the phylogeny of Neotropical cichlids and identifies remaining conflicting clades (Cichliformes: Cichlidae: Cichlinae), *Molecular Phylogenetics and Evolution* (2017), doi: https://doi.org/10.1016/j.ympev.2017.10.008

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.

## **ACCEPTED MANUSCRIPT**

Exon-based phylogenomics strengthens the phylogeny of Neotropical cichlids and identifies remaining conflicting clades (Cichliformes: Cichlidae: Cichlinae)

## Katriina L. Ilves $^{1,2*}$ , Dax Torti $^{3,4}$ , and Hernán López-Fernández $^{1,5}$

- <sup>1</sup> Department of Natural History, Royal Ontario Museum, 100 Queen's Park, Toronto, ON M5S 2C6 Canada
- <sup>2</sup> Current address: Biology Department, Pace University, 1 Pace Plaza, New York, NY 10038
- <sup>3</sup> Donnelly Sequencing Center, University of Toronto, 160 College Street, Toronto, ON M5S 3E1 Canada
- <sup>4</sup> Current address: Ontario Institute for Cancer Research, MaRS Center, 661 University Avenue, Toronto, ON M5G 0A3 Canada
- 5 Department of Ecology and Evolutionary Biology, University of Toronto, 25 Willcocks Street, Toronto, ON M5S 3B2 Canada
- \*Corresponding author at: Biology Department, Pace University, 1 Pace Plaza, New York, NY 10038; email: katriina.ilves@gmail.com

#### **Abstract**

The phenotypic, geographic, and species diversity of cichlid fishes have made them a group of great interest for studying evolutionary processes. Here we present a targeted-exon next-generation sequencing approach for investigating the evolutionary relationships of cichlid fishes (Cichlidae), with focus on the Neotropical subfamily Cichlinae using a set of 923 primarily single-copy exons designed through mining of the

#### Download English Version:

# https://daneshyari.com/en/article/8649069

Download Persian Version:

https://daneshyari.com/article/8649069

<u>Daneshyari.com</u>