



OPEN ACCESS

Approved by:

Frontiers Editorial Office,
Frontiers Media SA, Switzerland

***Correspondence:**

Roger Woodgate
woodgate@nih.gov

[§]These authors share first authorship

†ORCID:

Alexandra Vaisman
orcid.org/0000-0002-2521-1467
John P. McDonald
orcid.org/0000-0003-2482-148X
Mallory R. Smith
orcid.org/0000-0003-1450-7825
Sender L. Aspelund
orcid.org/0000-0003-0726-4028
Thomas C. Evans Jr.
orcid.org/0000-0001-5406-0146
Roger Woodgate
orcid.org/0000-0002-2521-1467

‡Present address:

Sender L. Aspelund,
Novavax, Inc., Gaithersburg, MD,
United States

Specialty section:

This article was submitted to
Structural Biology,
a section of the journal
Frontiers in Molecular Biosciences

Received: 20 November 2021

Accepted: 22 November 2021

Published: 15 December 2021

Citation:

Vaisman A, McDonald JP, Smith MR,
Aspelund SL, Evans TC and
Woodgate R (2021) Corrigendum:
Identification and Characterization of
Thermostable Y-Family DNA
Polymerases η , ι , κ and Rev1 From a
Lower Eukaryote,
Thermomyces lanuginosus.
Front. Mol. Biosci. 8:819157.
doi: 10.3389/fmolb.2021.819157

Corrigendum: Identification and Characterization of Thermostable Y-Family DNA Polymerases η , ι , κ and Rev1 From a Lower Eukaryote, *Thermomyces lanuginosus*

Alexandra Vaisman^{1†§}, John P. McDonald^{1†§}, Mallory R. Smith^{1†}, Sender L. Aspelund^{1‡}, Thomas C. Evans Jr^{2†} and Roger Woodgate^{1*†}

¹Laboratory of Genomic Integrity, National Institute of Child Health and Human Development, National Institutes of Health, 9800 Medical Center Drive, Bethesda, MD, United States, ²New England Biolabs Incorporated, Ipswich, MA, United States

Keywords: thermostable fungi, Y-family DNA polymerases, phylogenetic analysis, translesion DNA synthesis, DNA polymerase η , DNA polymerase ι , DNA polymerase κ , REV1

A Corrigendum on

Identification and Characterization of Thermostable Y-Family DNA Polymerases η , ι , κ and Rev1 From a Lower Eukaryote, *Thermomyces lanuginosus*

by Vaisman A, McDonald JP, Smith MR, Aspelund SL, Evans TC and Woodgate R (2021). *Front. Mol. Biosci.* 8:778400. doi: 10.3389/fmolb.2021.778400

In the original article, there was a formatting issue in **Figure 6** as published. This occurred when the image was converted from a PC generated pdf to an Apple Macintosh generated tif for publication. The corrected **Figure 6** appears below.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Publisher's Note: All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.

Copyright © 2021 Vaisman, McDonald, Smith, Aspelund, Evans and Woodgate. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

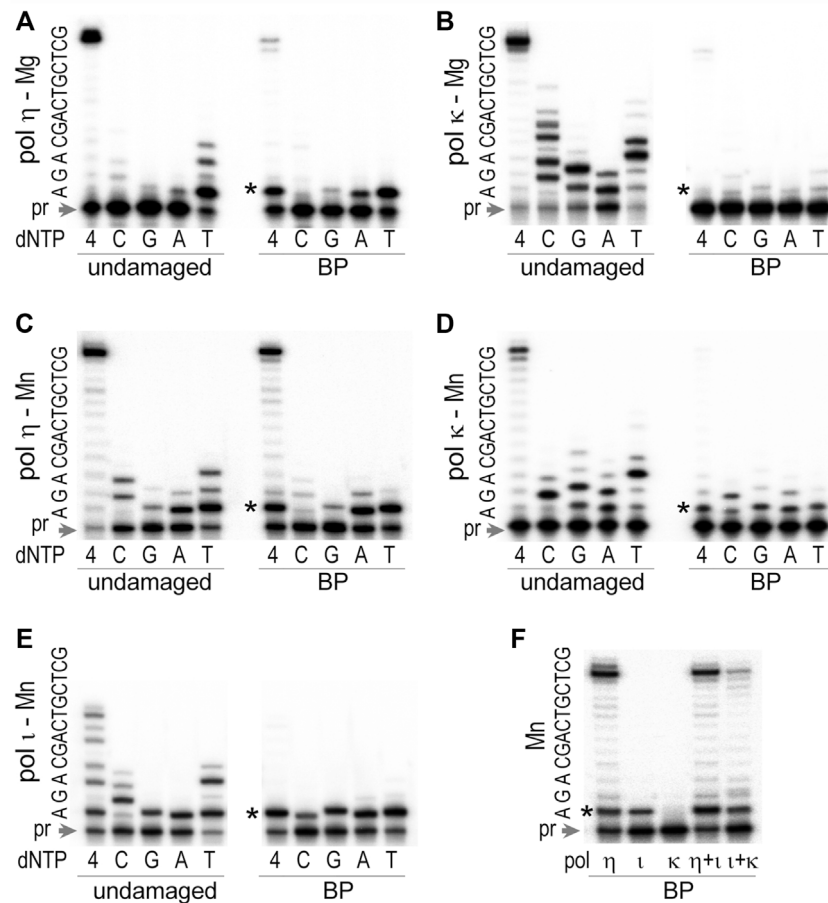


FIGURE 6 | TLS past *trans*-S-BPDE-dA by *T. lanuginosus* pols. The ability to bypass BPDE-dA was assayed for **(A)** pol η in the presence of 4 mM Mg $^{2+}$, **(B)** pol κ in the presence of 4 mM Mg $^{2+}$, **(C)** pol η in the presence of 4 mM Mn $^{2+}$, **(D)** pol κ in the presence of 4 mM Mn $^{2+}$, **(E)** pol ι in the presence of 4 mM Mn $^{2+}$, and **(F)** individual, or a mixture of various pols in 4 mM Mn $^{2+}$. The substrate used in these assays was made by annealing of the 32 P labeled primer 5'-CACTGCAGACTCTAAA-3' and either an undamaged or BPDE-containing template 5'-GCTCGTCAGCAG**A**TTTAGAGTCTGCAGTG-3', where the underlined bold A stands for the undamaged, or BPDE modified dA. Reactions contained 100 μ M each of individual nucleotide (dC, dG, dA, and dT) or a mixture of all four dNTPs as indicated in the figure and were carried out at 37°C for 10 min. Concentrations of enzymes were 0.17 pM for pol η , 0.32 pM for pol κ , and 0.15 pM for pol ι . The sequence of the template immediately downstream of the primer (pr) is shown on the left-hand side of each gel pair. The star (*) indicates the position of the adduct.