

## Accepted Manuscript

One step beyond a ribosome: The ancient anaerobic core

Filipa L. Sousa, Shijulal Nelson-Sathi, William F. Martin

PII: S0005-2728(16)30383-8  
DOI: doi: [10.1016/j.bbabbio.2016.04.284](https://doi.org/10.1016/j.bbabbio.2016.04.284)  
Reference: BBABIO 47681

To appear in: *BBA - Bioenergetics*

Received date: 25 November 2015  
Revised date: 3 February 2016  
Accepted date: 5 April 2016



Please cite this article as: Filipa L. Sousa, Shijulal Nelson-Sathi, William F. Martin, One step beyond a ribosome: The ancient anaerobic core, *BBA - Bioenergetics* (2016), doi: [10.1016/j.bbabbio.2016.04.284](https://doi.org/10.1016/j.bbabbio.2016.04.284)

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.

**Running title:** The ancient core

One step beyond a ribosome: The ancient anaerobic core

Filipa L Sousa<sup>a,\*</sup>, Shijulal Nelson-Sathi<sup>a</sup>, William F. Martin<sup>a</sup>

<sup>a</sup> Institute for Molecular Evolution, Heinrich-Heine Universität Düsseldorf, Universitätsstrasse 1, 40225 Düsseldorf, Germany

\* Author for correspondence: filipa.sousa@hhu.de

Phone: +49-211-811-3554

Abbreviations:

HCO – Heme-copper oxygen reductase, cytochrome c oxidase, complex IV

LGT – lateral gene transfer

NOR – Nitric oxide reductase

WL – Wood-Ljungdahl

SAM – S-adenosyl methionine

SLP – substrate level phosphorylation

"It must be clear that all the changes and the original life forms are dependent upon energy as well as material capture and flow."

Williams and Fraústo da Silva (2003)

Download English Version:

<https://daneshyari.com/en/article/10795268>

Download Persian Version:

<https://daneshyari.com/article/10795268>

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