



# Aug 17, 2021

# ♦ Long-range correlation character Investigation of SARS-CoV-2 Genbanks

### Sid Ali Ouadfeul<sup>1</sup>

<sup>1</sup>Algerian Petroleum Institute



This protocol is published without a DOI.

Coronavirus Method Development Community



#### DISCLAIMER

DISCLAIMER - FOR INFORMATIONAL PURPOSES ONLY; USE AT YOUR OWN RISK

The protocol content here is for informational purposes only and does not constitute legal, medical, clinical, or safety advice, or otherwise; content added to <a href="protocols.io">protocols.io</a> is not peer reviewed and may not have undergone a formal approval of any kind. Information presented in this protocol should not substitute for independent professional judgment, advice, diagnosis, or treatment. Any action you take or refrain from taking using or relying upon the information presented here is strictly at your own risk. You agree that neither the Company nor any of the authors, contributors, administrators, or anyone else associated with <a href="protocols.io">protocols.io</a>, can be held responsible for your use of the information contained in or linked to this protocol or any of our Sites/Apps and Services.

#### **ABSTRACT**

The main goal of this propotoc is to use the 1D Wavelet Transform Modulus Maxima lines (WTMM) method to investigate the Long-Range Correlation (LRC) through the estimation of the the so-called Hurst exponent of isolate SARS-CoV-2 coronavirus RNA sequence, the Knucleotidic, Purine, Pyramidine, Ameno, Keto and GC DNA coding are used.

# PROTOCOL CITATION

Sid Ali Ouadfeul 2021. Long-range correlation character Investigation of SARS-CoV-2 Genbanks. **protocols.io** 

https://protocols.io/view/long-range-correlation-character-investigation-of-bxeppjdn

# LICENSE

This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

CREATED

Aug 17, 2021

LAST MODIFIED

Aug 17, 2021

PROTOCOL INTEGER ID

52399

DISCLAIMER:

DISCLAIMER - FOR INFORMATIONAL PURPOSES ONLY; USE AT YOUR OWN RISK

The protocol content here is for informational purposes only and does not constitute legal, medical, clinical, or safety advice, or otherwise; content added to <u>protocols.io</u> is not peer reviewed and may not have undergone a formal

approval of any kind. Information presented in this protocol should not substitute for independent professional judgment, advice, diagnosis, or treatment. Any action you take or refrain from taking using or relying upon the information presented here is strictly at your own risk. You agree that neither the Company nor any of the authors, contributors, administrators, or anyone else associated with <u>protocols.io</u>, can be held responsible for your use of the information contained in or linked to this protocol or any of our Sites/Apps and Services.

1	Step 1 includes a Step case.
	step case
	untitled case
2	DNA Coding using the Knucleotidic, Purine, Pyrimidine, Ameno, Keto and GC methods  1) The Knucleotidic DNA coding: T=2, G=-2, A=1, C=-1  2) Purine coding A=G=1, C=T=-1  3) Pyrimidine C=T=1, A=G=-1.  4) Ameno groupe: A=C=1, G=T=-1.  5) Keto coding G=C=1, A=C=-1.
3	Continuous Wavelet transform calculation using the complex Morelet Analyzing wavelet
	S(t) is the Coded Genbank
4	Maxima of the Modulus of the Continous Wavelet Transform Calculation
5	Partition Function Calculation
6	Calculation of Spectra of exponents and Singularities Calculation
7	Long-Range Correlation character Invertigation besed on the estmated Hurst Exponent