

## Letters to Editor / Erratum

Dear Editor,

I thank you for the editorial effort of BR to publish “Foundational errors ...” (Valenzuela, 2013) so it will be known to Prof Valenzuela’s international peers.

Allow me though, to point out an error in the 3<sup>rd</sup> column vector of his “Stochastic Mutational Matrix for 4 Bacteria” of **APPENDIX 3**. It should be understood that this is not just a mathematical error, but rather an important fact of its underlying biology.

It says:  
(3<sup>rd</sup> column vector)

It should say  
(column 3)

**APPENDIX 3**

Stochastic mutational matrix for 4 bacteria

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$$\begin{array}{c} m^2(1-m)^2 \\ 2m(1-m)^3 + m^2(1-m)^2 \\ m^0(1-m)^4 + 4m^2(1-m)^2 + m^4(1-m)^0 \\ 2m(1-m)^3 + m^2(1-m)^2 \\ m^2(1-m)^2 \end{array}$$


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**APPENDIX 3**

Stochastic mutational matrix for 4 bacteria

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$$\begin{array}{c} m^2(1-m)^2 \\ 2m^1(1-m)^3 + 2m^3(1-m)^1 \\ m^0(1-m)^4 + 4m^2(1-m)^2 + m^4(1-m)^0 \\ 2m^3(1-m)^1 + 2m^1(1-m)^3 \\ m^2(1-m)^2 \end{array}$$


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I have little doubt that the Valenzuela (2013) paper will be one of those with most citations in BR for many years to come.

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PS: Generally, stochastic matrices are written with the line vectors as the stochastic vectors, not the column vectors, e.g. the ITO matrices of Prof CC Li (Li CC, 1955)

### REFERENCES

VALENZUELA C Y (2013) Foundational errors in the Nearly-Neutral theories of evolution in relation to the Synthetic Theory. Is a new evolutionary paradigm necessary?. Biol Res 46:2, (pg. 104).  
LI C C (1995) Population Genetics. Univ Chicago Press. Chicago, Ill.