

## Viruses Essential Agents Of Life

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Viruses are essential agents within the roots and stem of the tree of life Luis P. Villarreal, Guenther Witzany To cite this version: Luis P. Villarreal, Guenther Witzany. Viruses are essential agents within the roots and stem of the tree of life. Journal of Theoretical Biology, Elsevier, 2010, 262 (4), pp.698. 10.1016/j.jtbi.2009.10.014.

### **Viruses are essential agents within the roots and stem of ...**

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Viruses are now considered to play major roles in the evolution of life. Because they have genes that are not found in any cellular organism they seem to be remnants of early stages of life on earth. Besides their disease causing features and actions as genetic parasites viruses have lifestyles that are clearly symbiotic and even symbiogenetic.

### **Luis P. Villarreal - UC Irvine - Faculty Profile System**

Viruses, however, parasitize essentially all biomolecular aspects of life. That is, they depend on the host cell for the raw materials and energy necessary for nucleic acid synthesis, protein...

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Viruses are essential agents within the roots and the stem of the tree of life. Journal of Theoretical Biology. 262:698-710. 2010. Villarreal, Luis P. "Viruses and the placenta: the essential virus first view.". Apmis 124.1-2 (2016): 20-30.

### **Viruses: Essential Agents of Life by Günther Witzany ...**

viruses can tell us whether or not they are truly essential agents of life. Acknowledgements This work was supported by The Academy of Finland (grant 251013 and The Centre of Excellence program in...

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are part of an integrated network of gene regulation. Within this virus- rst perspec-tive, viruses are

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the most abundant genetic sequences on this planet, and cellular genomes, their natural habitat, are a limited resource for this abundance. From this point, what are the essential agents of life became immediately clear

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The stable insertion of a copy of their genome into the host cell genome is an essential step of the life cycle of retroviruses.