

What Can Biologists Learn from Economic Theory?

New mini-review published in Frontiers in Microbiology gives insight.

ROCHESTER, NEW YORK, UNITED STATES OF AMERICA, April 6, 2016 /EINPresswire.com/ -- The Center for the Biology of Chronic Disease (CBCD) announces the publication of a new mini-review by Hanan Polansky and Adrian Javaherian. The mini-review identifies the economic principles underlying three biological systems, microRNAs, receptors, and latent viruses. The mini-review is entitled “3-Econsystems: MicroRNAs, Receptors, and Latent Viruses; Some Insights Biology Can Gain from Economic Theory.” The mini-review was published on March 23, 2016 in the leading medical journal, Frontiers in Microbiology.



Concerning all three systems discussed in the mini-review, the authors wrote that “all three include competing molecules and a limiting molecule that binds the competing molecules. Such systems are extensively researched by economists. In fact, the issue of limited resources is the defining feature of economic systems. Therefore, we call these systems ‘econsystems.’ In an econsystem, the allocation of the limiting molecule between the competing molecules determines the behavior of the system. A cell is an example of an econsystem. Therefore, a change in the allocation of a limiting molecule as a result of, for instance, an abnormal change in the concentration of one of the competing molecules, may result in abnormal cellular behavior, and disease ... this review shows that in all three

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Greg Bennett, CBCD

cases, the allocation of the limiting molecule between the competing molecules determines the behavior of the system. We believe that these systems hold the key to some of the most important questions in biology today.” (1)

The mini-review can be found on Pubmed here:
<https://www.ncbi.nlm.nih.gov/pubmed/27047480>

The full mini-review can be found on the publisher’s website, here:
<http://journal.frontiersin.org/article/10.3389/fmicb.2016.00369/full>

The biological systems, which include microRNAs and ligand receptors are heavily researched. In fact, more than 48,000 papers are listed on Pubmed.gov that cover issues related to microRNA. In addition, there are over 138,000 papers on the subject of ligand receptors. In contrast, the idea that latent viruses establish an econsystem with cellular genes, a relationship that is called “microcompetition” is new and under-researched.

The principles of the Theory of Microcompetition were first described by Hanan Polansky in 2003 in his book entitled “Microcompetition with Foreign DNA and the Origin of Chronic Disease.” In this book,

he explains how foreign DNA fragments can cause many major diseases. The book has been read by more than 5,000 scientists around the world, and has been reviewed in more than 20 leading scientific journals.

The Theory of Microcompetition is far-reaching. It applies to many viruses, many genes, and many diseases. The CBCD encourages doctors and other healthcare professionals to read Dr. Polansky's book, which predicted that viruses would be the cause of most major diseases, including certain cancers, more than ten years ago. (2)

"The concept of Microcompetition (or Starved Gene) will change our approach in the study of chronic diseases and will furthermore give scientists a higher level of understanding in biology." - Dr. Marc Pouliot, PhD (See more reviews of Dr. Polansky's book at: <http://www.cbcd.net/reviews.htm>)

For a free copy of Dr. Polansky's book, and to learn more about the Theory of Microcompetition, visit <http://www.cbcd.net> and click on free download.

References:

(1) Polansky H., Javaherian, A. "3-Econsystems: MicroRNAs, Receptors, and Latent Viruses; Some Insights Biology Can Gain from Economic Theory", Frontiers in Microbiology, Published March 23, 2016.

<http://journal.frontiersin.org/article/10.3389/fmicb.2016.00369/full>

(2) Free book by Hanan Polansky on Microcompetition with Foreign DNA

<http://www.cbcd.net/Book.php>

Greg Bennett
CBCD
585-250-9999
email us here

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