

Review of: "Why We Stop Synthesizing Essential Amino Acids: The Extracellular Protein Hypothesis"

Claudio Casella¹

¹ Universidad de Oviedo

Potential competing interests: No potential competing interests to declare.

The hypothesis formulated by the author is interesting, but it should be improved by adding experimental and bibliographic data to support this theory.

Below are some ideas for improving the article:

- Clarify the definitions of intracellular proteins and extracellular proteins, specifying that the latter derive from the former.
- Clarify the amino acid composition of the two categories of proteins (intra- and extracellular).
- Add to a table or improve tables by adding statistical and sequence comparison data of relevant intra/extracellular proteins of human origin and explain functional differences.
- Use the acronym AA for the word "amino acids" to avoid repetitions in the text; also use acronyms for non-essential AAs and essential AAs.
- On page 4, on the fact of synthesis costs in units of phosphate bonds, clarify whether it refers to GTP or ATP.
- The order of the figures must be sequential. Correct the order of the figures based on the citations reported in the text.
- Correct in references 1 and 22, names.