

# Publications of Plant-Based Protein Research

*Two peer-reviewed journals have published research on the 4Life discovery of plant-based transfer factors--a culmination of five years of scientific inquiry.*

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Two international, peer-reviewed scientific journals have published late-breaking research on the [4Life](#)

discovery of plant-based transfer factors. These publications represent the culmination of more than five years of scientific inquiry.



“

4Life discovered transfer factors in egg yolk. We patented a technique for stabilizing the transfer factor molecule in liquid form. Our legacy of research continues into the world of plant proteins.”

*4Life Founder David Lisonbee*

Authors of the academic journal *Molecules* describe the discovery of transfer factors in plant seeds in the article *Discovery of Transfer Factors in Plant-Derived Proteins and an In Vitro Assessment of Their Immunological Activities*: “Here, a library of 100 plants with high protein contents was screened to find plant-based proteins that behave like transfer factor....”

In the *Journal of Applied Sciences*, authors Vaclav Vetyicka from the University of Louisville Department of Pathology and 4Life Chief Scientific Officer Dr. David Vollmer investigate upcycled protein isolates from *Brassica napus*

(a flowering plant from the mustard or cabbage family) as a potential source for plant-based transfer factor.

In *Transfer Factors from Animal and Plant-Based Sources: A Proteomics Comparison*, Vetyicka and Vollmer write: “This study highlights *Brassica napus* as a promising plant-based alternative to animal-based transfer factors. Proteomic analysis revealed that *Brassica napus* shares key peptides, such as defensins, with bovine colostrum.”

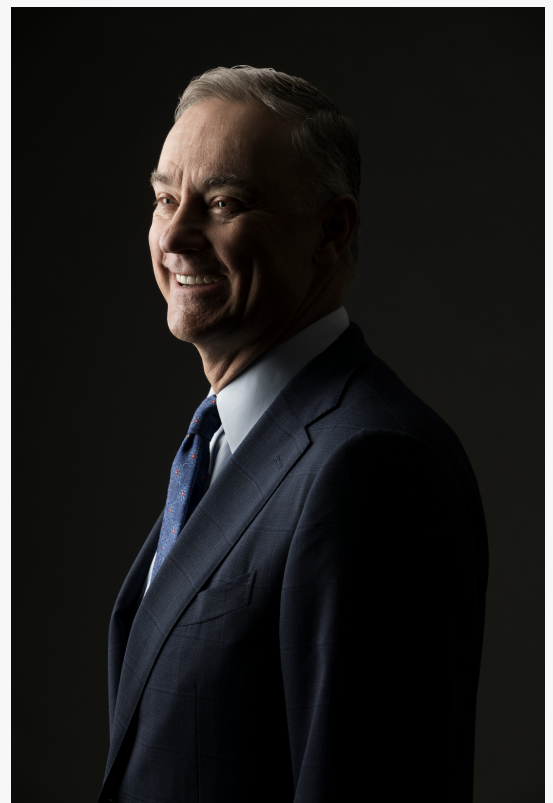
4Life Founder [David Lisonbee](#): “4Life discovered transfer factors in egg yolk. 4Life developed a patented technique for stabilizing the transfer factor molecule in liquid form. 4Life is the only

company in the world to offer a targeted line of transfer factor products. With over 80 worldwide patents, our legacy of research continues into the world of plant proteins.”

In late 2024, the World Plant-Based Innovation Awards designated 4Life’s “Plant-based Transfer Factor Research” as winner in the Protein Innovation category.

4Life, The Immune System Company®, and the first to bring transfer factor research to market, has offices in dozens of countries to serve the company’s worldwide customers.

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4Life Founder David Lisonbee.

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