



OPEN ACCESS

EDITED AND REVIEWED BY
Christopher P. F. Marinangeli,
Protein Industries Canada, Canada

*CORRESPONDENCE
Stuart M. Phillips
✉ phillis@mcmaster.ca

SPECIALTY SECTION
This article was submitted to
Clinical Nutrition,
a section of the journal
Frontiers in Nutrition

RECEIVED 24 October 2022
ACCEPTED 28 November 2022
PUBLISHED 12 April 2023

CITATION
Phillips SM (2023) Corrigendum: Current
concepts and unresolved questions in dietary
protein requirements and supplements in
adults. *Front. Nutr.* 9:1078528.
doi: 10.3389/fnut.2022.1078528

COPYRIGHT
© 2023 Phillips. This is an open-access article
distributed under the terms of the [Creative
Commons Attribution License \(CC BY\)](#). The use,
distribution or reproduction in other forums is
permitted, provided the original author(s) and
the copyright owner(s) are credited and that
the original publication in this journal is cited, in
accordance with accepted academic practice.
No use, distribution or reproduction is
permitted which does not comply with these
terms.

Corrigendum: Current concepts and unresolved questions in dietary protein requirements and supplements in adults

Stuart M. Phillips*

McMaster University, Hamilton, ON, Canada

KEYWORDS

sarcopenia, critical illness, chronic illness, lean body mass, leucine, creatine

A corrigendum on

[Current concepts and unresolved questions in dietary protein requirements and supplements in adults](#)

by Phillips, S. M. (2017). *Front. Nutr.* 4:13. doi: 10.3389/fnut.2017.00013

In the published article, there was a typographical error in [Table 1](#) as published. The corrected [Table 1](#) and its caption appear below.

The author apologizes for this error and states that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.

References

1. Rutherfurd SM, Fanning AC, Miller BJ, Moughan PJ. Protein digestibility-corrected amino acid scores and digestible indispensable amino acid scores differentially describe protein quality in growing male rats. *J Nutr.* (2015) 145:372–9. doi: 10.3945/jn.114.195438
2. FAO. *Dietary Protein Quality Evaluation in Human Nutrition.* Rome: FAO (2013).
3. Herreman L, Nommensen P, Pennings B, Laus MC. Comprehensive overview of the quality of plant- and animal-sourced proteins based on the digestible indispensable amino acid score. *Food Sci Nutr.* (2020) 8:5379–91. doi: 10.1002/fsn3.1809
4. Anwar D, El-Chaghaby G. Nutritional quality, amino acid profiles, protein digestibility corrected amino acid scores and antioxidant properties of fried tofu and seitan. *J Fac Food Eng Suceava.* (2019) XVIII:176–90.
5. Reynaud Y, Buffière C, Cohade B, Vauris M, Liebermann K, Hafnaoui N, et al. True ileal amino acid digestibility and digestible indispensable amino acid scores (DIAAS) of plant-based protein foods. *Food Chem.* (2021) 338:128020. doi: 10.1016/j.foodchem.2020.128020
6. Ahrens S, Venkatachalam M, Mistry AM, Lapsley K, Sathe SK. Almond (*Prunus dulcis* L.) protein quality. *Plant Foods Hum Nutr.* (2005) 60:123–8. doi: 10.1007/s11130-005-6840-2
7. Nosworthy MG, Neufeld J, Frohlich P, Young G, Malcolmson L, House JD. Determination of the protein quality of cooked Canadian pulses. *Food Sci Nutr.* (2017) 5:896–903. doi: 10.1002/fsn3.473
8. Stuart PS, Bell SJ, Molnar J. Use of tryptophan-fortified hydrolyzed collagen for nutritional support. *J Diet Suppl.* (2008) 5:383–400. doi: 10.1080/19390210802519689

TABLE 1 PDCAAS and DIAAS scores for selected isolated proteins and foods.

Food	PDCAAS	DIAAS	Limiting AA
MPC ¹	1.00	1.18	Met + Cys
WPI ¹	1.00	1.09	Val
SPI ¹	0.98	0.90	Met + Cys
PPC ¹	0.89	0.82	Met + Cys
RPC ¹	0.42	0.37	Lys
Whole milk ²	1.00	1.43	Met + Cys
Cooked peas ¹	0.58	0.82	Met + Cys
Cooked rice ¹	0.62	0.59	Lys
Almonds ⁵	0.35	0.40	Lys
Chickpeas ⁶	0.52	0.67	Trp
Tofu ^{3,4}	0.70	0.97	Met + Cys
Corn-based cereal ¹	0.08	0.01	Lys
Hydrolyzed collagen ⁷	0.0	0.0	Trp

PDCAAS, protein digestibility-corrected amino acid score; DIAAS, digestible indispensable amino acid score for adolescents and adults; MPC, milk protein concentrate; WPI, whey protein isolate; SPI, soy protein isolate; PPC, pea protein concentrate; RPC, rice protein concentrate.

¹Values from Rutherfurd et al. (1).

²Values from FAO (2) and Herreman et al. (3).

³Values for PDCAAS from Anwar and El-Chaghaby (4).

⁴Values for DIAAS from Reynaud et al. (5).

⁵Values from Ahrens et al. (6).

⁶Values from Nosworthy et al. (7).

⁷Hydrolyzed collagen has a PDCAAS and DIAAS score of 0 since it contains no tryptophan (Trp) and is very low in methionine (8).