



Improvement of nutritional quality of food crops with fertilizer: a global meta-analysis

Muhammad Ishfaq¹ · Yongqi Wang² · Jiuliang Xu³ · Mahmood Ul Hassan⁴ · Hao Yuan⁵ · Lianlian Liu⁶ · Boyi He⁷ · Irsa Ejaz² · Philip J. White⁸ · Ismail Cakmak⁹ · Wei-Shan Chen² · Jiechen Wu⁹ · Wopke van der Werf⁷ · Chunjian Li¹ · Fusuo Zhang¹ · Xuexian Li¹

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Abstract

Providing the world's population with sufficient and nutritious food through sustainable food systems is a major challenge of the twenty-first century. Fertilizer use is a major driver of crop yield, but a comprehensive synthesis of the effect of fertilizer on the nutritional quality of food crops is lacking. Here we performed a comprehensive global meta-analysis using 7859 data pairs from 551 field experiment-based articles published between 1972 and 2022, assessing the contribution of fertilization with a wide set of plant nutrients to the nutritional quality of food crops (i.e., fruits, vegetables, cereals, pulses/oil crops, and sugar crops). On average, fertilizer application improved crop yield by 30.9% (CI: 28.2–33.7%) and nutritional quality (referring to all nutritionally relevant components assessed: carbohydrates, proteins, oil, vitamin C, representative mineral nutrients, and total soluble solids) by 11.9% (CI: 10.7–12.1%). The improvements were largely nutrient- and crop species dependent, with vegetables being the most responsive. Potassium, magnesium, and micronutrients played important roles in promoting crop nutritional quality, whereas the combined application of inorganic and organic source(s) had the greatest impact on quality. Desirable climatic conditions and soil properties (i.e., silt loam, soil organic matter 2.5–5.0%, and pH 4.5–8.5) supported further enhancements. Considering cross-continent responsiveness, the increase in the nutritional quality of food crops with fertilizer application was greatest in Africa. In a nutshell, our findings pave the way towards a quantitative understanding of nutrient management programs and responsible plant nutrition solutions that foster the sustainable production of nutritious and healthy food crops for human consumption.

Keywords Soil and environmental conditions · Soil fertility and plant nutrition · Agriculture production · Biofortification · Human health · Food security

Xuexian Li
steve@caas.edu.cn

¹ Department of Plant Nutrition, College of Resources and Environmental Sciences; the State Key Laboratory of Nutrient Use and Management (SKL-NUM), Ministry of Education, China Agricultural University, Beijing 100193, China
² College of Agronomy and Biotechnology, China Agricultural University, Beijing 100193, China
³ Ecological Sciences Department, The James Hutton Institute, Invergowrie, Dundee DD2 5DA, UK

⁴ Faculty of Engineering and Natural Sciences, Sabancı University, Istanbul 34956, Turkey
⁵ Environmental Technology Group, Wageningen University & Research, 6706, AK, Wageningen, The Netherlands
⁶ Department of Sustainable Development, Environmental Science and Engineering (SEEDS), KTH Royal Institute of Technology, SE-100 44, Stockholm, Sweden
⁷ Centre for Crop Systems Analysis, Wageningen University, 6706, AK, Wageningen, The Netherlands

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Date Palm Cultivation Food and Agriculture Organization of the United Nations, 2002 This publication provides a basic introduction to date palm propagation, production and protection techniques. Chapters cover botanical and systematic description, origin, geographical distribution and nutritional value, economic importance, climatic requirements, orchard management, harvesting and diseases and pests of date palm.

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