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K. Madhavan Nair, Little Flower Augustine

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Food synergies for improving bioavailability of micronutrients from plant foods

K. Madhavan Nair^a and Little Flower Augustine^b

^a Scientist F, Micronutrient Research, National Institute of Nutrition, Indian Council of

Medical Research, Jamai-Osmania PO, Hyderabad, 500007, Telangana, India, email:

nairthayil@gmail.com, Fax: 04027019074

^b ICMR centenary post doctoral research fellow, Micronutrient Research, National Institute of

Nutrition, Jamai-Osmania PO, Hyderabad, 500 007, Telangana, India, email.

Lf1707@gmail.com.

Running title: Food synergies and micronutrient bioavailability

Abstract

Plant foods are endowed with micronutrients but an understanding of bioavailability is

essential in countries primarily dependent on plant based foods. Bioavailability depends

majorly on food synergies. This review examines the nature of certain food synergies and

methods to screen and establish it as a strategy to control micronutrient deficiency in the

populations. Strong evidence on the synergistic effect of inclusion of vitamin C rich fruits

and non-vegetarian foods in enhancing the bioavailability of iron has been demonstrated. Fat

is found to be synergistic for vitamin A absorption. Red wine and protein have been explored

for zinc absorption and effect of fat has been studied for vitamin D. Methods for screening of

bioavailability, and biomarkers to demonstrate the synergistic effects of foods are required.

Translation of food synergy as a strategy requires adaptation to the context and

popularization of intelligent food synergies.

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