

Supplementary Table S1. Specific search terms (MeSH terms) for collecting research articles from 2005 to 2019.

Micronutrients		Macronutrients		
Polyphenols	Vitamins, Minerals, and Trace elements	Carbohydrates	Fats	Proteins
Micronutrients, Polyphenols, Anthocyanine, Catechin, Caffeic acid, Chlorogenic Acid, Daidzein, Epicatechin, Genistein, Phloridzin, Quercetin, Epigallocatechin-3-gallate, Resveratrol, Fruit polyphenol, Tea polyphenol, Wine polyphenol	Micronutrients, Vitamin, Manganese, Cyanocobalamine, Tocopherol, Retinoic acid, Calcium, Magnesium, Iron, Phosphorus, Zinc, Selenium, Iodine	Macronutrients, Arabinoxylan, Chitosan, Galacto-Oligosaccharides, Inulin, Fructan, Lactose, Oligofructose, Resistant starch, High carbohydrate diet, Low carbohydrate diet, High fibre diet	Macronutrients, High fat diet, HFD, Flaxseed, Fish oil, Palm oil, Lard, Safflower oil, PUFA, Low fat diet	Macronutrient, High protein, Protein, Casein, Soybean, Crude protein, Mung bean

The above MeSH terms were combined with the words below to narrow down the search:

AND Gut Microbiota AND/OR Human, Rat, in-vitro, NOT review.