Table S1. Promoting effects of cyanobacteria on agricultural plants following different kind of treatment method.

Plant/treatment [1]	Promoting effects	Cyanobacterium/type of extracts	Reference
Bayam red, GS	Plant height, fresh and dry weight	*Spirulina platensis* Biomass	[1]
Chinese cabbage, S	Seedling dry weight	*S. platensis* Biomass	[1]
Coriander GS	Germination, plant fresh weight, shoot length, root length, dry weight	*Anabaena laxa* Suspension of cyanobacteria	[2]
Coriander GS	Plant fresh weight, shoot length, root length, dry weight	*Calothrix elenkinii* Suspension of cyanobacteria	[2]
Cucumber S	Germination, root and shoot length	*Scytonema bohmeri* HPLC methanol fraction	[3]
Cucumber L	Root number (LB), fresh weight (HB)	*Arthrospira platensis* Aqueous suspension with lyophilized biomass (LB), or with hydrolized biomass (HB)	[4]
Cumin GS	Dry weight	*Anabaena laxa* Suspension of cyanobacteria	[2]
Fennel GS	Plant shoot length	*A. laxa* Suspension of cyanobacteria	[2]
Fennel GS	Plant fresh weight, shoot length, root length, dry weight	*Calothrix elenkinii* Suspension of cyanobacteria	[2]
Lettuce L	Leaf area and fresh and dry weight and roots	*Arthrospira platensis* Hydrolized biomass	[4]
Lettuce L	Shoot length, root length, fresh biomass, dry biomass, Chl α, Chl b, carotenoids, concentrations of N, P, K, Ca, Mg, Fe, Mn, carbohydrates, fiber, protein	*Nostoc* sp. Cellular aqueous extracts	[5]
Okra S	Root weight, yield	*Anabaena* sp.+ *Providencia* sp consortium Fresh biomass	[6]
	Root weight	*Calothrix* sp. Fresh biomass	[6]
Pak Choy GS	Root length	*Arthrospira platensis* Biomass	[1]

Pea S	Seedling and plumule length	*Calothrix brevissima, Dolichospermum spiroides, Nostoc commune, N. muscorum, N. punctiforme, Scytonema bohmeri* Biomass wet extract-supernatant	[3]
Pea GS	Root depth, shoot length, dry weights, leaf area, chlorophyll α, chlorophyll b, carotenoid, carbohydrate, total N and P contents	*Nostoc entophytum, Oscillatoria angustissima* Fresh biomass	[7]
Radish L,S	Plant length, fresh mass, greenness index, plant micronutrient content	*Spirulina platensis* Filtrate aqueous-supernatant	[8]
Radish S	Plant length, fresh mass, greenness index, plant micronutrient content	*S. platensis* Homogenate- solid residue	[8]
Rice GS	Root length and wet weight, root dry weight, shoot length, amount of grains per spike, amount of spike per plant	*Nostoc carneum*, *N. commune* Wet biomass	[9]
Tomato GS	root length (APH, AM, AP) root dry weight (APH, AM), shoot length and dry weight (APH, AM, AP), chlorophyll α (APH, AM, AP), b (APH, AP) and carotenoids (APH, AM, AP), concentration in root of N (APH, AM), P (APH, AM, AP), K (APH, AM)	*Aphanothese sp.* (APH), *Arthrospira maxima* (AM), *A. platensis* (AP) Crude extracts by acid hydrolysis	[10]
Tomato S	Germination and seedling dry weight, stem seedling calibre	*Anabaena minutissima* Aqueous	[11]
Vine L	Leaf gas exchanges, berry weight	*Arthrospira platensis* Commercial product	[12]
Wheat Soil S	Grain yield, grain content of N, Zn, Mn, protein	*Anabaena* spp., *Calothrix* sp. Aqueous	[13]

[1] L, leaf; S, seed; F, fruit; GS, plant growth substrate.

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