

Natural Compounds From Algae And *Spirulina Platensis* Its

Extracellular polymeric substance For instance, the EPS from *Arthrospira platensis* Extracellular polymeric substances (EPS) are natural polymers of high molecular weight secreted by microorganisms into their environment. and various functional substituents such as methyl, acetate, pyruvate, sulfate groups, and proteins. EPS in the matrix of biofilms provides compositional support and protection of microbial communities from the harsh environments. Components of EPS can be of different classes of polysaccharides, lipids, nucleic acids, proteins, lipopolysaccharides, and minerals. EPS establish the functional and structural integrity of biofilms, and are considered the fundamental component that determines the physicochemical properties of a biofilm a11a8a0495

Today cultured microalgae is used as direct feed for humans and land-based farm animals, and as feed for cultured aquatic species such as molluscs and the early larval stages of fish and crustaceans. It is

a potential candidate for biofuel production.
Microalgae can grow 20 or... a11a8a0495
Archive 5←Archive 10Archive 11Archive 12Archive 1
3Archive 14Archive 15 a11a8a0495

Spirulina (dietary supplement) The three species are *Arthrospira platensis*, *A. maxima*, and *A. fusiformis*. The three species are *Arthrospira platensis*. Spirulina is the dried biomass of cyanobacteria (blue-green algae) that can be consumed by humans and animals. *A. maxima* is its own species. Spirulina is the dried biomass of cyanobacteria (blue-green algae) that can be consumed by humans and animals. *A. fusiformis*, and *A. maxima*. L. Recent research has further moved all these species to *Limnospira fusiformis*. *A. fusiformis* is also found to be insufficiently different from *L. a11a8a0495*

Vegetarianism may be adopted for various reasons. Many people object to eating meat out of respect for sentient animal life. Such ethical motivations have been codified under various religious beliefs as well as animal rights advocacy. Other motivations for vegetarianism are health-related, political, environmental, cultural, aesthetic, economic, taste-related, or relate to other personal preferences. a11a8a0495 Cyanobacteria are probably the most numerous taxon to have ever existed on Earth and the first organisms known to have produced oxygen, having appeared in the

middle Archean eon and apparently originated in a freshwater or terrestrial environment. Their photopigments can absorb the red- and blue-spectrum frequencies of sunlight (thus reflecting a greenish color) to split water molecules into hydrogen ions and oxygen. The... a11a8a0495

Cyanobacteria The name "cyanobacteria" (from Ancient Greek κύανος (kúanos) 'blue') refers to their bluish green (cyan) color, which forms the basis of cyanobacteria's informal common name, blue-green algae. Some microalgae contain substances
Cyanobacteria (sy-AN-oh-bak-TEER-ee-ə) are a group of autotrophic gram-negative bacteria of the phylum Cyanobacteriota that can obtain biological energy via oxygenic photosynthesis. are sold as food, notably *Arthrospira platensis* (Spirulina), *Aphanizomenon flos-aquae* (Klamath Lake AFA), and others a11a8a0495

Culture of microalgae in hatcheries The main forms of production occur in small scale ponds with artificial mixers. *Chlorella* and *Spirulina* (*Arthrospira platensis*). *Arthrospira platensis* is a Microalgae or microscopic algae grow in either marine or freshwater systems. They are primary producers in the oceans that convert water and carbon dioxide to biomass and oxygen in the presence of sunlight a11a8a0495

The oldest documented use of microalgae was 2000 years ago, when the Chinese used the cyanobacteria *Nostoc* as a food source during a famine. Another type of microalgae, the cyanobacteria *Arthrospira* (*Spirulina*), was a common food source among populations in Chad and Aztecs in Mexico as far back as the 16th century. a11a8a0495

Nasrin Moazami in 1976 from the Faculty of Medicine at Laval University. She received her Ph. D. *Vitro Assessment of the Cytotoxic Effects of Secondary Metabolites from Spirulina Platensis on Hepatocellular Carcinoma,*” Egyptian Liver Journal 10/11, 2020 Nasrin Moazami is an Iranian medical microbiologist and biotechnologist. Moazami is the pioneer of biotechnology and microalgae-based fuels in Iran a11a8a0495

Whereas a biotic stress would include living disturbances such as fungi or harmful insects, abiotic stress factors, or stressors, are naturally occurring, often intangible and inanimate factors such as intense sunlight, temperature or wind that may cause harm to the plants and animals in the area affected. Abiotic stress is essentially unavoidable. Abiotic stress affects animals, but plants are especially dependent, if not solely dependent, on environmental factors, so it is particularly... a11a8a0495

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"Characterization and bioavailability of
vitamin B12-compounds from edible algae".
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Algae fuel These fuels have no practical significance
but remain an aspirational target in the biofuels
research area. When made from seaweed
(macroalgae) it can be known as seaweed fuel or
seaweed oil. "Biomass Nutrient Profiles of
Three Microalgae: *Spirulina platensis*, *Chlorella*
vulgaris, and *Isochrysis galbana*",. Also, algae
fuels are an alternative to commonly known biofuel
sources, such as corn and sugarcane. Journal of
Food Science. (2003). 68 (4): Algae fuel, algal
biofuel, or algal oil is an alternative to liquid fossil
fuels that use algae as the source of energy-rich oils
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Single-cell protein fusiformis, L. Industrial
agriculture is marked by a high water footprint, high
land use, biodiversity destruction, general
environmental degradation and contributes to
climate change by emission of a third of all

greenhouse gases; production of SCP does not necessarily exhibit any of these serious drawbacks. As of today, SCP is commonly grown on agricultural waste products, and as such inherits the ecological footprint and water footprint of industrial agriculture. indica). The biomass or protein extract from pure or mixed cultures of algae, yeasts, fungi or bacteria may be used as an ingredient or a substitute for protein-rich foods, and is suitable for human consumption or as animal feeds. maxima and L. Cyanobacteria ("blue-green algae"): Spirulina (Limnospira platensis, L. Aphanizomenon flos-aquae Algae (photosynthetic eukaryotes): Single-cell proteins (SCP) or microbial proteins refer to edible unicellular microorganisms. However, SCP may also be produced a11a8a0495

Abiotic stress The non-living variable must influence the environment beyond its normal range of variation to adversely affect the population performance or individual physiology of the organism in a significant way. Plant 114 405-413. Physiol. of salinity stress on photosystem II function in cyanobacterial Spirulina platensis cells. Lei, Gang; Shen, Ming; Li, Zhi-Gang; Abiotic stress is the negative impact of non-living factors on the living organisms in a specific environment a11a8a0495

A small number of towns and cities around the world are exclusively vegetarian or have outlawed

meat, including... a11a8a0495 Cultivated worldwide, "spirulina" is used as a dietary supplement or whole food. It is also used as a feed supplement in the aquaculture, aquarium, and poultry industries. a11a8a0495

Vegetarianism A person who practices vegetarianism is known as a vegetarian. It may also include abstaining from eating all by-products of animal slaughter. 40 (3): 276–279.
Bibcode:2004CNatC Vegetarianism is the practice of abstaining from the consumption of meat (red meat, poultry, seafood, insects, and the flesh of any other animal). "Chemical Composition of *Spirulina platensis* Cultivated in Uzbekistan". MKh (2004). Chemistry of Natural Compounds a11a8a0495

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