

# *Saion Biotechnology Japan*

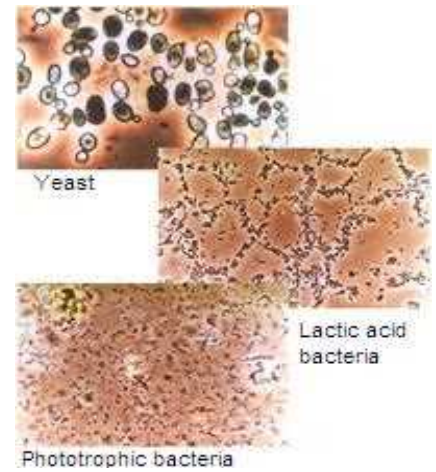
(Saion-EM)



*Besco-Japan introduces healthy and safe bio-technology*

EM stands for (effective Microorganisms). EM is a combination of various beneficial, naturally occurring microorganisms; mostly used for or found in foods. EM contains beneficial organisms from 3 main genera: photosynthetic bacteria, lactic acid bacteria and yeast, etc.

They change soil micro flora and fauna so that disease-inducing soil becomes disease-suppressing soil, which in turn has the capability to develop into zymogene soil. The anti-oxidation effects of these microorganisms pass directly to the soil or indirectly to plants maintaining their NPK and CN ratio. This process increases the humus content of the soil and is capable of sustaining high quality food production.



Barren lands, Saline-Alkaline soils, Deserted lands can be treated and can be converted into Fertile soils.



Once the soils are treated, not only turn into fertile soils but also grow healthy crops with high yield. EM Technology is not only good for conventional but also for organic farming practices. EM is natural, it's neither chemical nor synthetic, and it's also not genetically modified (Non-GMO).

### Benefits:

EM is not a fertilizer, however a regular use of EM in combination with organic matter, following benefits are achieved:

- Maintains pH level of the soil
- Improves humus content in the soil
- Improves biological environment of the soil and suppress the growth of pathogens
- Decomposes organic matter fast (animal manures, crop residues and compost, etc.)
- Improves the uptake of Nitrogen, Phosphorous, Potassium and Micro-Nutrients to the plant
- Neutralizes chemical and pesticide effects in the soil
- Improves yield and quality of crop
- Develops immunity and resistance in the crop to prevent from disease and insect attack
- EM Technology is Cost-effective, Natural, Safe and Easy to handle, while applications no need of masks and

gloves

## EM Technology for Animal Husbandry:



Milk & Meat



Wool and Meat



Eggs & Meat



Prawn & Fish



**With regular use of EM in Animal feed and water, following benefits are achieved:**

- Improves immunity and health and prevents from disease
- Improves digestive system and feed consumption ratio
- Improves living environment, suppresses odor and flies
- Reduces mortality rate
- Produces good quality dung/manure
- Reduces the use of antibiotics and medicine
- Prevents from viral and bacterial infections
- Improves quality of milk, egg or meat
- EM Technology is Cost-effective, Natural, Safe, Easy to handle, and gives No Side Effect



## Environment Management

### 1) Deodorization

- a) Garbage collection and treatment stations
- b) Poultry, Dairy farms
- c) Slaughter House
- d) Fish or Food Market
- e) Pets
- f) Indoor, Kitchen, Toilets

### 2) Waste Treatment (Bioremediation & Recycling)

- a) Municipal Solid Waste (garbage, sewage sludge/slurry, etc.)
- b) Industrial Waste (sludge and solid waste of Oil/Petroleum Refinery, Leather Tannery, etc.)
- c) Contaminated Waters (municipal and industrial waste waters)
- d) Hazardous Waste (Hydrocarbon, Radioactive, NORM, etc.)
- e) Contaminated Soil and Land Treatment



### Probiotic:

EMzyme 500ML (antioxidant & enzymes refreshment drink)





In early 80s, Saion-EM Bio-Technology was developed in Okinawa-Japan  
by Dr. Teruo Higa in collaboration with Sanko Sangyo Co., Ltd.  
We are disseminating and promoting this Biotechnology world-wide since then.



*Since 1983*



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