

## Soy in Food: What is that doing in there? Fermented Foods

1	What	· ic a	fermen	ted food?

- 2. How do fermentative microorganisms impact the safety and quality of fermented foods?
- **3.** For each of the fermented foods below, describe how their safety, shelf life, or sensory attributes have been impacted by the metabolic byproducts of fermentative organisms:

fermentative organisms:
Beer:
Pickles:
Bread:
Yogurt:
4. For each of the products and places below, indicate a relevant fermented food Cabbage (Germany):
Cabbage (Korea):
Soybeans (Indonesia):
Soybeans (Japan):
Soybeans (West Africa):
Tea (China):

**5.** Why might fermented meat or soy products be important to a culture before the advent of refrigeration?

## Protocol for making natto:

- a. Soak 1 cup of soybeans in water overnight
- b. Bring water and soybeans to a boil, boil for 10 min
- c. Drain beans and transfer to fermentation container
- d. Mix in 2-3 Tbs of the starter culture and cover with a moist cloth, then lid
- e. Transfer to incubator, store between 100-115°F for 24 hrs.
- f. Transfer to the refrigerator for up to 24 hrs.
- **6.** Note the changes in the soybeans after each step in production. How might you interpret the effect of the microbial growth on the macromolecular content in soybeans?