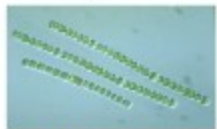


# 9 Things You Should Know About Harmful Algal Blooms (HABs) cont.

## 3. CYANOBACTERIA CAN BE TOXIC

- \* Liver, nerve, or skin toxins (cyanotoxins)
- \* Selectively produced by many genera—but not very predictable
- \* Widely distributed but not often at acutely toxic levels
- \* Analyses are available for some but not *all* of these toxins
- \* Exposure routes include Ingestion, Inhalation, and skin contact



### **Anabaena or Dolichospermum**

- microcystins (liver)
- Anatoxin-a/a(s) (nerve)
- Saxitoxins (nerve)



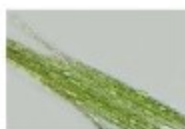
### **Microcystis**

- Microcystin (liver)
- Toxin is most common and easily measured



### **Cylindrospermopsis**

- Cylindrospermopsins (liver)
- Saxitoxins (nerve)
- Benthic/epiphytic rather than planktonic



### **Aphanizomenon**

- Anatoxin-a (nerve)
- Cylindrospermopsins (liver)
- Saxitoxins (nerve)

