

The effect of triclosan on the permeability of mitochondrial membranes and lecithin liposomes

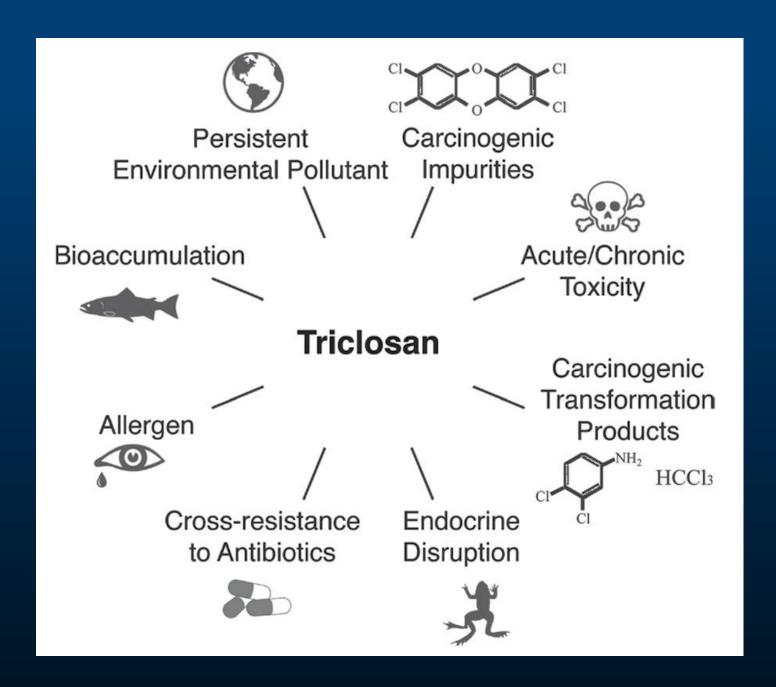
Mikhail Dubinin

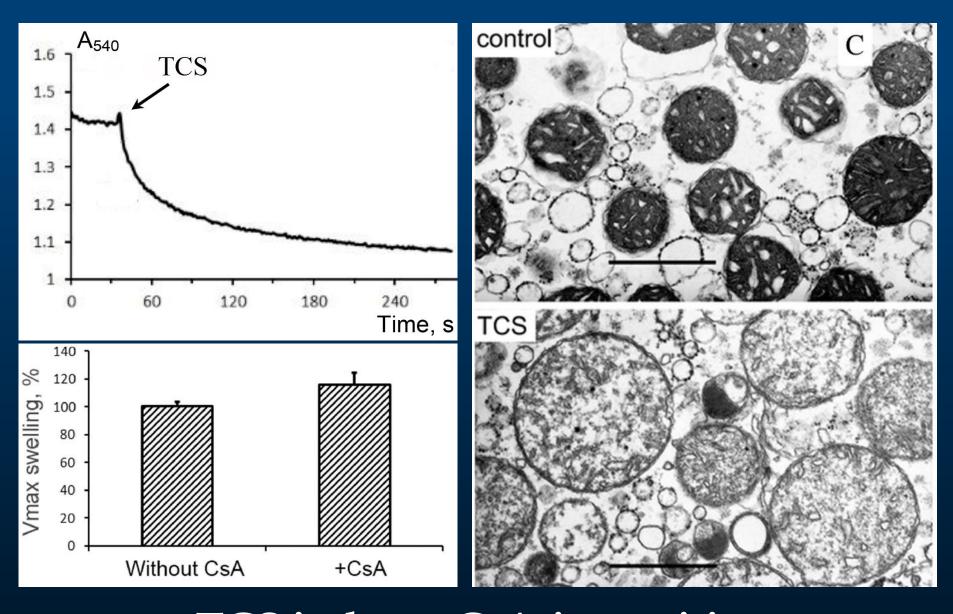
Mari State University

The chemical structure of triclosan

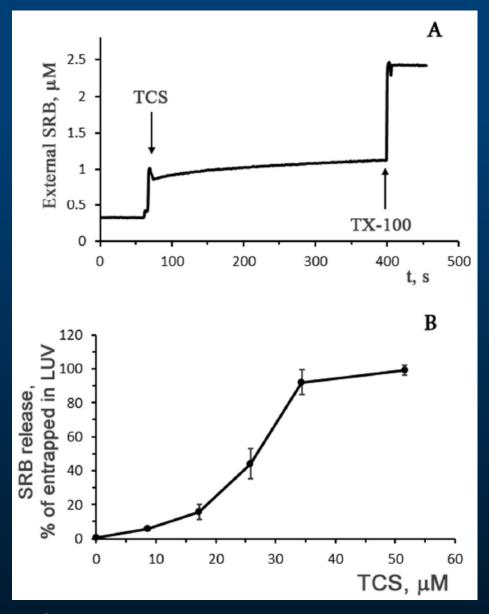
Sources of triclosan







TCS induces CsA-insensitive mitochondrial swelling



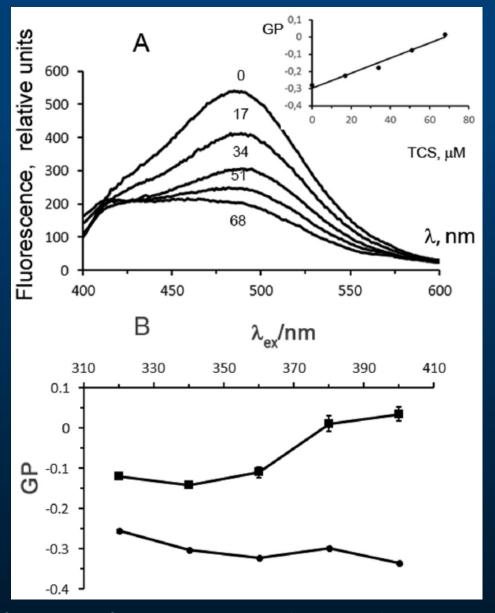
Effect of TCS on the permeabiluty of lecithin liposomes

H₃C N CH₃

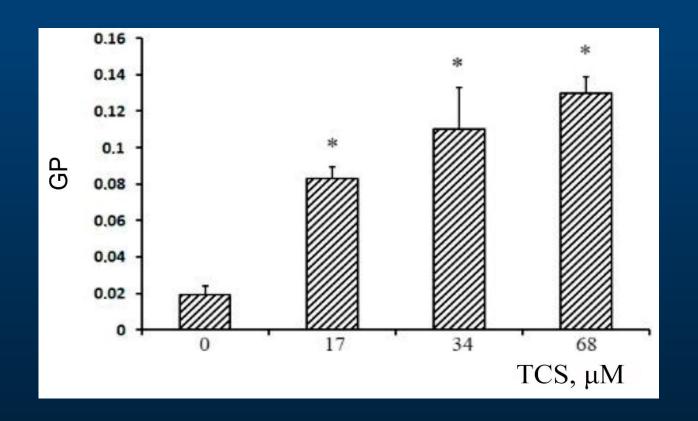
Laurdan (6-Dodecanoyl-2-Dimethylaminonaphthalene)

$$GP = \frac{I_B - I_R}{I_B + I_R}$$

where I_B and I_R are the emission intensities at 440 and 490 nm respectively



Effect of TCS on laurdan GP in egg-PC liposomes



Dependence of the GPlaurdan in the membrane of rat liver mitochondria on the concentration of TCS

