

### **Effect of fluoxetine on the growth of the blood worm, *alitta virens***

Pharmaceuticals in the water system are becoming an increasing concern since it has been discovered that they can cause effects at low concentration rates. Fluoxetine, commonly Prozac™, is one of the most commonly used anti-depressant. 0, 0.125 ug L<sup>-1</sup>, and 0.5 ug L<sup>-1</sup> fluoxetine spiked water was used to discover the effects on the growth of *Alitta virens* over four weeks. It was found that there were no effects of fluoxetine on growth; however, some behavioral observations were observed which suggests that fluoxetine could have an impact on behavior in *A. virens*. It is advised that behavioral studies on the effect of fluoxetine on *A. virens* be conducted in the future. Also, using environmentally relevant pharmaceutical mixtures in future studies would be useful to determine interactions between pharmaceuticals within organisms.