



**Icy Insects:**  
*The mechanisms and evolution of being frozen solid*

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The ability of some insects to survive internal ice formation was first described over 200 years ago, yet we still do not understand the underlying mechanisms, nor are we able to induce robust freeze tolerance in non-freeze tolerant insects.

I will discuss what is known about insect freeze tolerance, and how the approaches we have taken in the past may have led to dead-ends. I will then describe new approaches being taken in my laboratory to elucidate the mechanisms underlying freeze tolerance in insects.



Friday July 31<sup>st</sup> at 10.15 at  
Zoophysiology (1131-127)