

**Summer Workshop in Fungal Biology for High School Teachers**  
**Hibbett lab, Biology Department, Clark University**  
**July 13-14, 2006**

**Location:** Lasry Biological Sciences Building, rooms 211/355

**Instructors/useful phone numbers:**

David Hibbett [dhibbett@clarku.edu](mailto:dhibbett@clarku.edu) (508) 793-7332

Jason Slot [jslot@clarku.edu](mailto:jslot@clarku.edu) (508) 793-7420

Biology Department office (secretary, Paula Kupstas): 793-7173

Campus Police: 793-7575

**Overview:** Our laboratory studies evolution and ecology of basidiomycetes (mushroom-forming fungi), using molecular approaches. This workshop will focus on fungal diversity and ecology, with a specific focus on the symbiotic relationships of *Monotropa uniflora*, the “indian pipes” plant. The goal of this workshop is to promote awareness of fungi and the inclusion of fungal topics in high school biology curricula. The content and activities of this workshop should translate well to high school classrooms. We would be happy to provide electronic copies of handouts, notes, and powerpoint files, and we will be available to consult regarding fungi during the school year.

**PDPs:** This workshop will count for 16 PDPs. Please give us your home address and we will have the certificate mailed directly to you.

**Schedule:**

<b>Thursday</b>	
<b>AM</b>	Introduction to the workshop <b>What is a fungus?</b> <ul style="list-style-type: none"> <li>• Morphology</li> <li>• Phylogeny</li> <li>• Ecological Roles—the monotrope symbiosis</li> </ul> How to collect mushrooms <b>Field trip:</b> Moose Hill Wildlife Area, Paxton MA
<b>PM</b>	<b>Fungal morphology and life cycles</b> <b>Activity:</b> Mushroom identification
<b>Friday</b>	
<b>AM</b>	<b>Molecular ecology of fungi</b> <ul style="list-style-type: none"> <li>• Genes</li> <li>• Laboratory methods</li> <li>• Bioinformatics</li> </ul> <b>Activity:</b> Identification of monotrope symbionts using molecular data and bioinformatics
<b>PM</b>	<b>Fungal taxonomy: molecules vs. morphology</b> <b>Activity:</b> Phylogeny estimation using molecular data