

Botany 2104, Plant Form and Function: Library Assignment

Find three examples of the various adaptations for herbivory defense found in plants. Possibilities include:

mimicry

chemicals: irritants, toxins, anti-feedants

plant-microbe interactions (endophytes)

structures: spines, thorns, hard “shells”

(See http://evolution.berkeley.edu/evolibrary/article/evo_31 for information as to **what is** and **what is not** an adaptation in terms of evolution.)

One of your examples needs to come from the primary literature, one from the secondary literature, and one from a credible web site.

Write up the information you found as if you were writing the section on the herbivory defense for your essay. Your text will probably be 350-650 words long. Include in text citations in the essay and a literature cited list at the end of it. For literature citations, be sure to use CSE format. Include one illustration (figure or table). Be sure that the illustration has a legend (caption) and citation. Be sure to include a direction to the illustration in your write up.

10 points	Each of three reference types (primary literature, secondary literature, quality website) is used. The citation for each type is complete and in CSE format. In text citations are used and correctly formatted. One illustration is included. The illustration has a caption and citation. The illustration is referred to in the text and is used effectively to support the information in the text. Three types of herbivory defense are presented. The description for each defense includes the type of herbivore deterred by the defense and is clear as to what the evidence is that the example is a <i>successful herbivory defense</i> . The writing is substantially or completely free of mechanical errors. The writing is well organized and has a good narrative flow.
9 points	As for 10 points except for minor problems: the citations are incomplete or in the wrong format, in text citations &/or in text referral to the illustration are missing, the illustration is missing a caption or the source of the illustration is not credited.
8 points	As in 9 points and one of the following: citations are missing, the illustration is missing or is not used effectively, there are only two examples of an anti-herbivory adaptation, the evidence is missing for the success of the examples as herbivory defenses.
7 points	As in 9 points and two of the following: citations are missing, the illustration is missing or is not used effectively, there are only two examples of an anti-herbivory adaptation, the evidence is missing for the success of the examples as herbivory defenses. Mechanical errors are distracting. The narrative lacks flow &/or is not well organized.
6 points	The assignment is more incomplete than described for 7 points; mechanical errors detract from readability.
0 points	Assignment was not turned in or is so poorly done as to warrant no credit.

CSE Citation Formats

The following examples are from

<http://library.osu.edu/find/resources/citation-examples/cse/cse-style-guide-articles/>. Visit the BTNY 2104 home page (<http://faculty.weber.edu/sharley/2104/2104.htm>) for links to websites with more examples of these types of references plus others not shown here.

URLs: You may use a URL shortening service like bitly.com or tinyurl.com

Journal Article (Print)

Bibliography:

Meise CJ, Johnson DL, Stehlik LL, Manderson J, Shaheen P. 2003. Growth rates of juvenile Winter Flounder under varying environmental conditions. *Trans Am Fish Soc* 132(2):225-345.

In-Text:

(Miese et al. 2003)

Journal Article (Electronic)

Bibliography:

Leng F, Amado L, McMacken R. 2004. Coupling DNA supercoiling to transcription in defined protein systems. *J Biol Chem* [Internet]. [cited 2007 July 24]; 279(46):47564-47571. Available from: <http://www.jbc.org/cgi/reprint/279/46/47564>

In-Text:

(Leng et al. 2004)

Book:

Bibliography:

McCormac JS, Kennedy G. 2004. *Birds of Ohio*. Auburn (WA): Lone Pine, p. 77-78.

In-Text:

(McCormac and Kennedy 2004)

Book Chapter from an Edited Book

Bibliography:

McDaniel TK, Valdivia RH. 2005. New tools for virulence gene discovery. In: Cossart P, Boquet P, Normark S, Rappuoli R, editors. *Cellular microbiology*. 2nd ed. Washington (DC): ASM Press. p. 473-488.

In-Text:

(McDaniel and Valdivia 2005)

Web Page

Bibliography:

Abraham Lincoln Birthplace National Historic Site [Internet]. Washington: National Park Service (US); [updated 2003 Feb 11; cited 2003 Feb 13]. Available from: <http://www.nps.gov/abli/>.

In-Text:

(Abraham Lincoln Birthplace ... [updated 2003])

Firstauthor et al. is used in text when there are three or more authors. All of the authors' names are required for the citation list.