PLNT 310: Plant Propagation

Research strategies and citation

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Today’s Session

- Searching tips
- Citing your sources
Propagation of *peperomia obtusifolia*
Academic information sources

Reference Materials
- Encyclopedias, dictionaries

Books

Journal Articles

Synthesis
- Broad or in-depth perspective of a topic

Specific point of view on a precise question
Research tips

Tip #1: Boolean terms

Specify your search using AND, OR, NOT:

**AND**
(cuttings AND peperomia)

- **Restricts a search**
  All words/concepts appear in the results

**OR**
(peperomia OR piperacea)

- **Expands a search**
  Results contain either one or both words/concepts

**NOT**
(piperacea NOT piper)

- **Restricts a search**
  Excludes results with the words/records
Tip #2: Nesting

Clarify your search using parentheses:

```
tree AND pruning OR grafting
```

is not the same as...

```
tree AND (pruning OR grafting)
```
Research tips

Tip #3: Truncation

Search alternate endings of a word:

propagat*  →  propagates
            propagated
            propagating
            propagation
Research tips

Tip #4: Phrase searching

Use quotation marks around keywords to search a phrase:

leaf cuttings vs. "leaf cuttings"

leaf AND cuttings
Keywords may be found together or separated

leaf cuttings
Keywords will be found together
Tip #4: Phrase searching

Use quotation marks around keywords to search a phrase:

leaf cuttings vs. "leaf cuttings"

Leaf blablabla
Bla bla bla Bla bla bla
Bla bla bla cuttings
Bla bla bla Bla bla bla

Bla blablabla
Bla bla bla Bla bla bla
leaf cuttings
Bla bla bla Bla bla bla
Bla bla bla Bla bla bla
Bla bla bla Bla bla bla
Example of a simple search query

(propagating peperomia obtusifolia using cuttings)

(cutting* OR propagat*)

AND

(“peperomia obtusifolia” OR peperomia OR piperaceae)
## Refine search

<table>
<thead>
<tr>
<th>Too many results?</th>
<th>Too few results?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Add limits:</td>
<td>• Try broader terms</td>
</tr>
<tr>
<td>• Year of publication</td>
<td>• Add more synonyms</td>
</tr>
<tr>
<td>• Geography</td>
<td>• Check the references of a relevant article/book</td>
</tr>
<tr>
<td>• Use more narrow or specific concepts</td>
<td>• Try a different database</td>
</tr>
</tbody>
</table>
Variation among genotypes may result from several factors including the production of heat-shock proteins (Hum-Musser et al., 1999). Organisms produce heat-shock proteins to respond to heat stress (Somers et al., 1989). These proteins function as molecular chaperones and may be crucial for cell survival under heat stress (Waters et al., 1996). Hum-Musser et al. (1999) evaluated heat-tolerant proteins in seeds germinated under heat stress for several genotypes, including lines are planted in the early fall and selected throughout the winter and spring in Alma, AR. Average high temperatures for Alma range from 24°C (75°F) to 35°C (95°F), and recurrent selection of lines that are able to germinate and tolerate these or higher temperatures may have resulted in improved heat tolerance among University of Arkansas spinach germplasm. Recurrent selection has been shown to be a successful strategy in

**Literature Cited**


What to include in a reference

Book:
- Author name(s)
- Year of publication
- Title
- Publisher
- Place of publication

Magazine/article:
- Author name(s)
- Year of publication
- Article Title
- Journal Title
- Volume
- Issue
- Pages
What to include in a reference

**Example (book)**

**Example (book chapter)**

**Example (journal article)**
Citing Electronic Information

Must include
• Date the resource was accessed
• URL

Example (journal article)

Example (website)
Getting help

Ask me:

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