- Announcements, Old HW
- Lab Quiz
- Pre-lab Lecture
  - Your colony data
  - Gene options going forward
  - Today in Lab

Module 2, Day 3
Announcements, old HW

• This week’s BE seminar is on adult stem cells, nanomaterials, and tissue regeneration

• Module 2 draft introductions
  – Great job internalizing the overview-detail-conclusion structure! Keep working on sentence-to-sentence flow.
  – Avoid laundry lists of facts in the final draft; instead stick with most relevant information and contextualize it.
  – Rules of thumb for citation:
    - don’t cite “general” knowledge
    - cite the original source (not where you read it)
    - cite info. at 1st mention and anywhere far removed
Your Data (colony #)

<table>
<thead>
<tr>
<th>Team</th>
<th>Gene or Unk#</th>
<th>No DNA</th>
<th>pRS414</th>
<th>+PCR product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>Unk.3</td>
<td>0</td>
<td>1200</td>
<td>1, 2 = 3</td>
</tr>
<tr>
<td>Green</td>
<td>Sgf73</td>
<td>0</td>
<td>1475</td>
<td>0</td>
</tr>
<tr>
<td>Blue</td>
<td>YHR (lacI)</td>
<td>0</td>
<td>CN</td>
<td>0, 3 = 3</td>
</tr>
<tr>
<td>Pink</td>
<td>Sgf 11</td>
<td>0</td>
<td>186</td>
<td>0</td>
</tr>
<tr>
<td>Purple</td>
<td>Unk 8</td>
<td>0</td>
<td>1200</td>
<td>0</td>
</tr>
</tbody>
</table>

What do we learn from each column?
Your Choices: OPTION 1

- The following strains are available through the Yeast TAP-tag collection (cf. Yeast Deletion Project)
  - SGF73
  - Unknown 3
  - Unknown 5
  - Unknown 8

CAVEATS:
- They are C-terminally tagged...maybe
- They have HIS not TRP marker
- They do not have his4-917delta insert

- PCR today
- you need other primers
- can't test for
  - SAGA Suppression
  - of effect
Your Choices: OPTION 2

- The following strains are available through us:
  - SPT3-TAP+TRP
  - SPT7-TAP+TRP
  - SGF11-TAP+TRP

CAVEATS:
- These have been partially (SGF11) or well-characterized (SPT3, SPT7)
- These are in the same genetic background as your experiment (so his4-917delta)
- The SPT3-TAP+TRP is our + control (awkward)
Today’s Lab

• Colony PCR
  Lyse cells by microwaving
  All else is ~same as you’ve done before.

• Set up Overnights
  Use the rest of the colony you use for setting up 3 overnights
  1) NY420 = TRP+ version of NY411
  2) Candidate A
  3) Candidate B

• Journal Article Discussion
For next time...

• Write-up transformation results + conclusions
• Revise M&M (not to hand-in)

• Plan ahead for phenotype testing: if you want plates besides what’s listed, let us know by 5PM tomorrow. Take some time to plan now.
### Your Plan

<table>
<thead>
<tr>
<th>Team</th>
<th>Candidate A</th>
<th>Candidate B</th>
<th>Other media FNT?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>SGF 73 (+115)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td>Ukn3 (18P) Ukn3</td>
<td></td>
<td>hydroxywera</td>
</tr>
<tr>
<td>Blue</td>
<td>Ukn1</td>
<td>Ukn2</td>
<td></td>
</tr>
<tr>
<td>Pink</td>
<td>SGF11</td>
<td>SGF11</td>
<td></td>
</tr>
<tr>
<td>Purple</td>
<td>SGF11</td>
<td></td>
<td></td>
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</tbody>
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