

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

Announcements, old HW

- This week's BE seminar is ~~on adult stem cells, nanomaterials, and tissue regeneration~~ ^{cancelled}
- 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) ^{→ textbook}
 - cite info. @ 1st mention, and anywhere far removed ^{↓ relate it to your exp.}

Your Data (colony #)

Team	Gene or Unk#	No DNA	pRS414	+PCR product
Yellow	Unk3	0	1200	1, 2 = 3
Green	Sgf73	0	1475	0
Blue	YHR ^(we1)	0	CN	0, 3 = 3
Pink	Sgf11	0	186	0
Purple	Unk 8	0	1200	0

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 defect

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.

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- Set up Overnights → (protein) western, getting RNA
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

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- 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

Team	Candidate A	Candidate B	Other media FNT?	
Yellow	SGF 73 (+115)		hydroxyurea	
Green	Ukn3 (1RP)	Ukn3	/	
Blue	Ukn1	Ukn1	/	
Pink	SGF 11	SGF 11	—————→	
Purple	SGF 11		/	