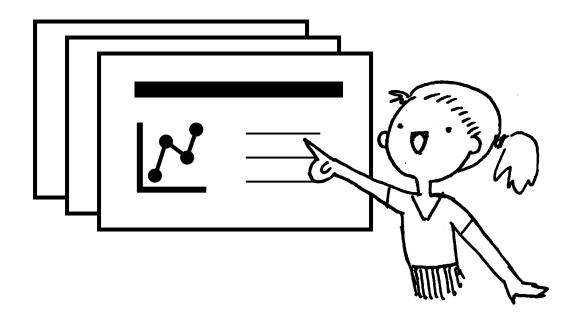
## Oral Presentations

20.109 Communication Workshop 4





Helping you communicate effectively. mitcommlab.mit.edu/be/

## Today's agenda:

Overview: keys to effective slide presentations

Extended resources on wiki

Work individually to edit your draft

Revise both slide design and accompanying script

Practice with a partner

Edit slide design based on feedback

Practice presenting in small groups

Get feedback on script and delivery

Work individually on remaining slides/script

Leave with completed slide and a framework for finishing your presentation

### Reflect and discuss

If you've been to an oral presentation of a journal article before, what is it like?

For everyone, what do you think a journal article presentation could be good for?

### Why do we present journal articles?



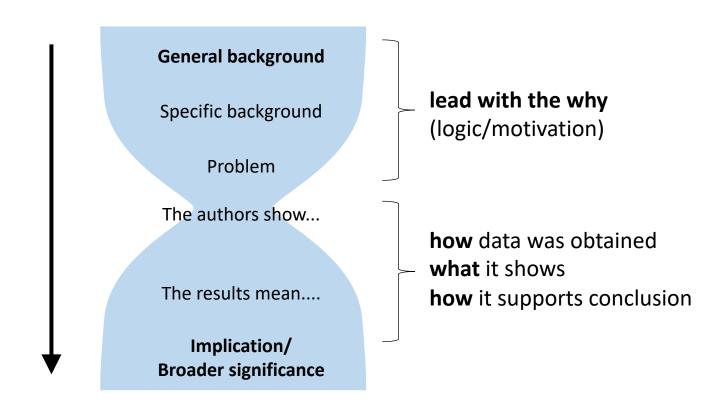
- Learn how work has been done
- Practice evaluating what might be done differently or next
- Improve YOUR communication and scientific reasoning skills

### 109 goal: show that you understand the paper

#### **Clearly present** to us:

- the **take-home** message
- why the experiments were done and how (methods!)
- How the conclusions were drawn from the results

## A compelling story begins and ends with a connection to larger context



## Organize your journal article presentation to **tell us a story**

Topic that everybody cares about

Why we need to know more

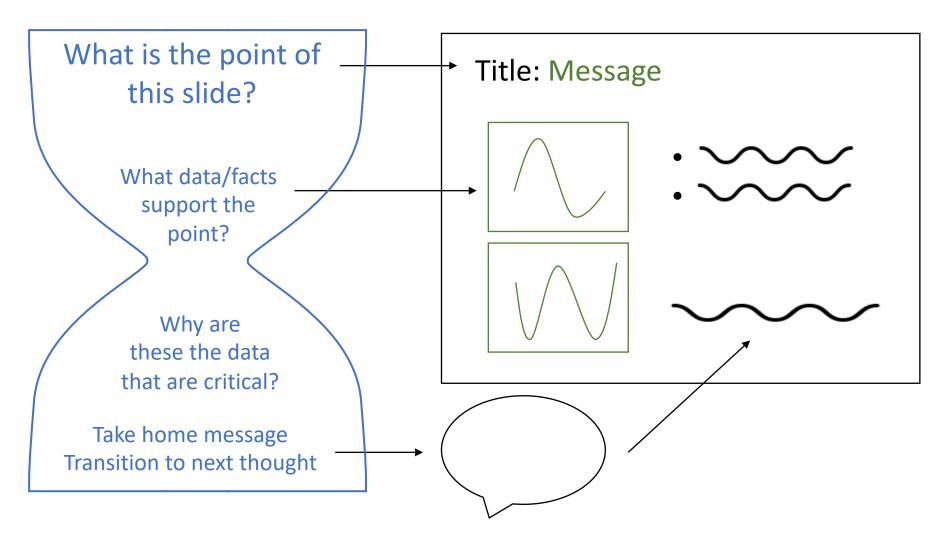
To address this, the authors show...

The results mean....

...how this work contributes to the topic everyone cares about

- Identify the main question/message
- Include only the essential results, key experiments and relevant data
- Connect results back to the message
- Explain logic & motivation with titles & transitions

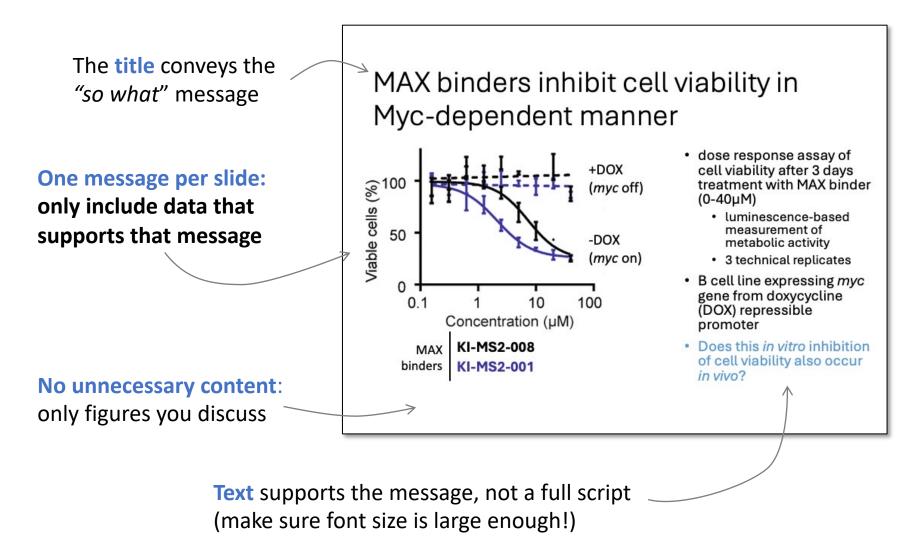
### Think about what you'll say with each slide!



Try not to read off a script.

Practice with a script then convert to bullet points

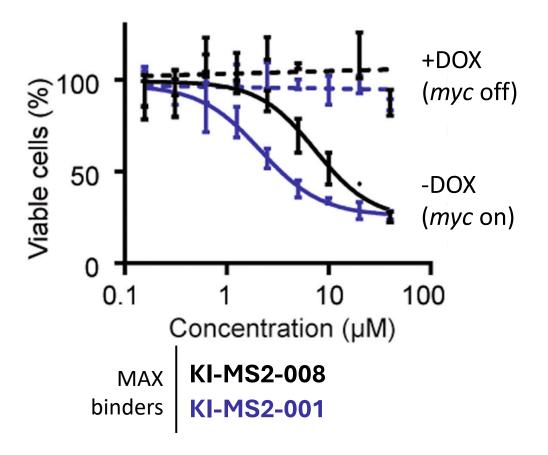
### Use all parts of your slide to support your message.



Previous slide:

# Discovery of small molecules that bind to MAX protein

# MAX binders inhibit cell viability in Myc-dependent manner



- dose response assay of cell viability after 3 days treatment with MAX binder (0-40µM)
  - luminescence-based measurement of metabolic activity
  - 3 technical replicates
- B cell line expressing myc gene from doxycycline (DOX) repressible promoter
- Does this in vitro inhibition of cell viability also occur in vivo?

#### 20 minutes

# Working individually, revise your draft slide and script

What is the main point of the slide, and how does it fit with your overall story?

#### Remember:

- titles as **messages** (1 message per slide)
- 1 slide ≈ **1min**
- balance detail between slides and script (effective redundancy)
- plan how you transition to/from this slide

#### 15 minutes

## With a partner, practice your slide and get feedback on the design

#### Giving feedback:

- can you briefly restate what the main point was?
- what questions do you have based on what you heard?
- what do you think your partner did well? could be improved?

#### Remember:

- titles as **messages** (1 message per slide)
- 1 slide ≈ **1min**
- balance detail between slides and script (effective redundancy)
- plan how you transition to/from this slide

Take the next 10min to collect your thoughts and further revise your slides based on feedback

#### **ACTIVITY**

# Practice delivery of your slide in a small group setting

What is the main point of the slide, and how does it fit with your overall story?

#### Giving feedback:

- can you briefly restate what the main point was?
- what questions do you have based on what you heard?
- what do you think you went well? could be improved?

## Audience Q/A is an opportunity to have a deeper conversation

#### Time

Let the questioner finish.

Give yourself time to think.

#### **Thought**

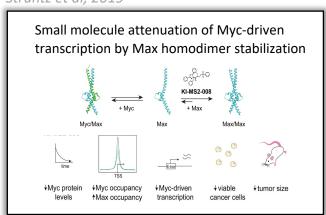
Make sure you understand the question.

Do your best, use your reasoning, but don't guess or just say you'll look into it.

#### What goes on the screen?



Struntz et al, 2019



Pro tip: have a summary slide up when you ask for questions!

## It's easy to avoid common pitfalls

| DON'T  | DO  |
|--|---|
| Start so late you don't have time to digest the paper            | Give yourself time to read the paper carefully 2-3 times                    |
| Be exhaustive (it's exhausting) List experiments chronologically | Be selective about what you present Tell a story                            |
| Lose points for time (9.5-10.5 min)                              | Practice until you hit the time limit                                       |
| Forget to cite which paper it is                                 | Include citation in your title slide  |
| Say "we did this"  | "The authors did this"  |
| Use illegible labels   | Use ≥20pt font<br>Make your own helpful figure labels<br>Use legible colors |

### Next steps

- slides and additional resources posted on the wiki ("Communication" tab)
- build remainder of your journal article presentation using similar strategies
  - can make an appointment with a Comm Fellow to practice delivery, content clarity, or anything else!
- next workshop: apply what you've learned so far! organize module 2 data into a narrative for your research article assignment

### Acknowledgements

- Chiara Ricci-Tam, Ph.D.
- Sean Clarke, Ph.D.
- Prerna Bhargava, Ph.D.
- Diana Chien, Ph.D.

