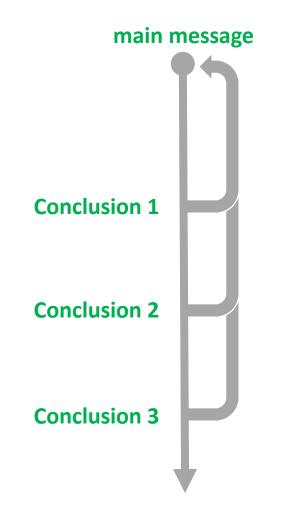
Tips for slide presentation and design

Additional Resources

Create a single storyline.

Identify a take-home message; everything else leads to it.



Straight chronology is a common trap, but it's actually confusing.

The authors ligated DNA into a plasmid, then they transformed it into cells, then they looked at fluorescence data,

and then they had a calcium sensor.

But *why* did they do these things? Lead with the why.

A story conveys logic & motivation

The authors wanted to engineer a calcium sensor's binding sensitivity.

To change the binding site, they did sitedirected mutagenesis,

then they expressed the mutant protein in cells,

and then they assessed its binding properties with a fluorescent assay.

Good slides are a lot like good figures

- 1. Ask "What would help my audience understand this faster?"
- 2. If you're not going to talk about something, leave it out.

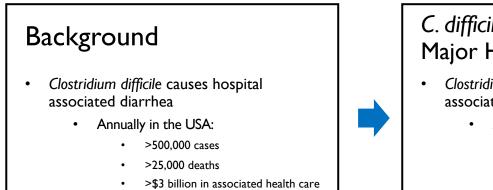
- Make slide title a take-home message (conveys "so what" rather than just "what")
- Show minimal essential data
- Maximize signal-to-noise ratio

Control time and space by separating, adding, and subtracting the original figures

• **Effective redundancy**: align visual, written, + spoken!

Effective titles communicate a take-home message

- concise (2 lines max) and describe main point
- 1 idea per slide



expenses

C. difficile Infections are a Major Healthcare Burden

- Clostridium difficile causes hospital associated diarrhea
 - Annually in the USA:
 - >500,000 cases
 - >25,000 deaths
 - >\$3 billion in associated health care expenses
- **TIP**: Start with a deck of blank slides and ADD ONLY TITLES to check logical flow, then populate the slides with support for the message

Effective titles communicate a take-home message

	DON'T use	INSTEAD use
	General descriptions of "what"	Sentences that answer "so what?"
Method	EMK-1 Knockdown	EMK1 was knocked down in MDCK (kidney) cells using siRNA
Results	Ca-switch	MDCK cells form a lumen after extracellular calcium changes
	Mitochondrial ROS induction in cell lines	Mitochondrial ROS induction is decreased in adk knockout cells
	Comparison of primer specificity	Primer 1 is better than Primer 2 at differentiating closely-related HIV strains

Ask yourself two questions over and over:

What would help my audience understand this faster?

Am I going to talk about everything on this slide?

What is on the slide:

- Title is a message
- Minimize NOISE

What you are saying:

- Align spoken & visual
- No extras

Demo: presenting multi-panel figures

PowerPoint basics: 3. Style

Don't drown the audience with data.

Less is more.



Susan McConnell (Stanford), Designing effective scientific presentations Link: https://youtu.be/Hp7Id3Yb9XQ review excerpt from timestamp 20:56 until 25:18

Avoid light or bright colors and tiny fonts

Am I legible?

Templates are just visual noise. Avoid them.

My name - Today - Where we are

