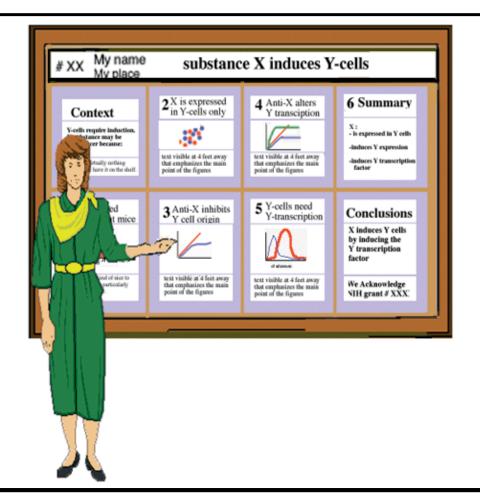
Creating effective posters



How to emphasize your message

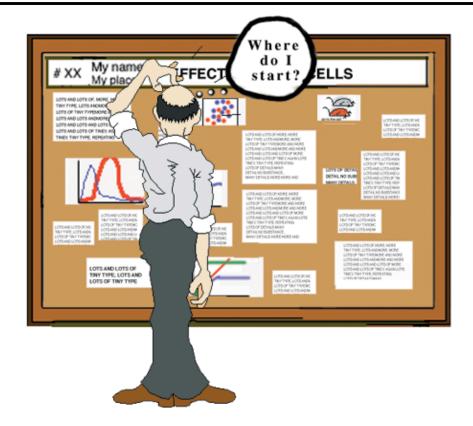
How to emphasize your message

Kathryn Tosney

A presentation that reveals ineffective and effective strategies for emphasizing your message

How to obscure your message

Creating effective posters



Many of your presentations are not talks:

They are posters

Are your posters effective?

Do they attract enthusiastic audiences?

Or, do they attract only competitors?

This presentation shows both positive and negative examples to help you increase your clarity and impact

How to obscure your message

Creating effective posters



This tutorial is also available online:

http://biology.lsa.umich.edu/research/labs/ktosney/file/PostersHome.html

Or access the link via my home page:

http://www-personal.umich.edu/~ktosney/

How to obscure your message

What is a Poster?

A poster is not a research paper stuck to a board An effective poster uses a visual grammar

It doesn't tell: It SHOWS

It expresses your points in graphical terms

It avoids visual chaos

- •no jagged edges
- no multi-sized boards

It guides the viewer by using a visual logic

- •an hierarchical structure
- •emphasis on the main points

It displays the essential content--the messages--

- •in the title
- •in the main headings
- •in the graphics

It indicates relative importance graphically

- •large type for each main point
- •small type for details

Main headings explain

- •avoid uninformative headings like "results"
- •explicitly reveal the point

All elements are visible from 4 feet away

How to obscure your message

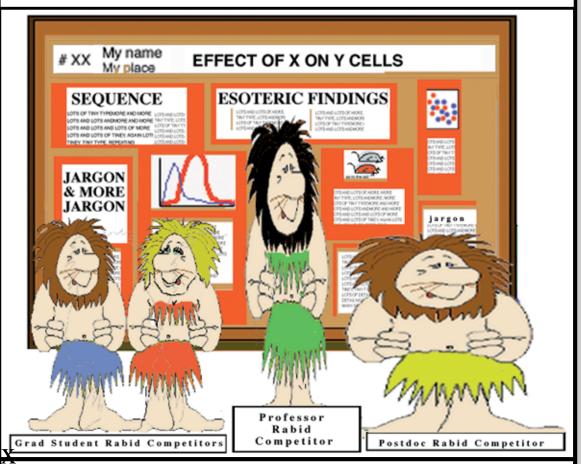
Poster presentation styles

Part one

How to Obscure Your Message

A set of eleven examples illustrate often-used design features that obscure your message

1. Design for your competitors



Be so opaque that only your most rabid competitors can follow your work.

Directives

omit

- •context
- •interpretations
- •conclusions

use

- •jargon
- •abbreviations

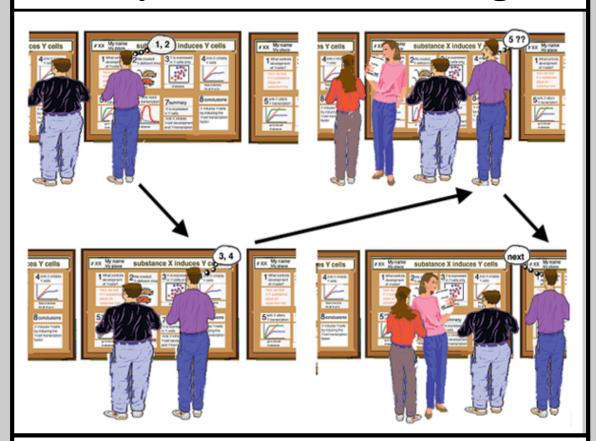
Consequences

maximum opacity

- •highly esoteric
- •few understand
- deters readers

you may need further ploys to deter highlymotivated competitors How to obscure your message

2. Lay out in rows, left to right



Your viewers will move quickly past your poster and read only the top row

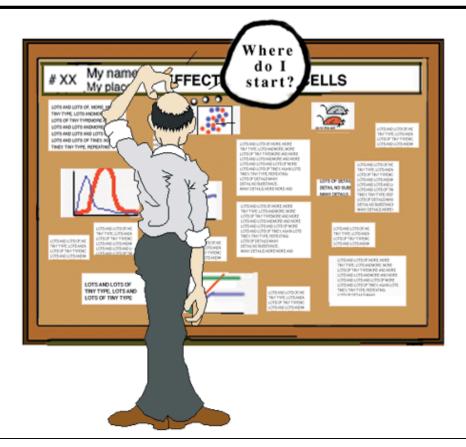
Viewers who read the top row will be unable to fight their way back to the beginning Viewers will quietly proceed to the next poster, thus saving you the annoyance of an audience

How to obscure your message

How to obscure your message

How to obscure your message

3. Let them guess the sequence



Avoid clues that would help people follow your presentation

Omit

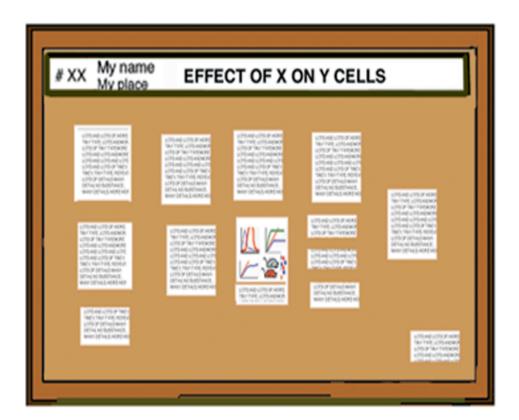
- •numbers
- •letters
- •arrows
- •logical sequence

Or use

- tiny numbers
- •obscure placement
- •Roman numerals
- •Greek letters

- •spread panels randomly
- •let viewers hunt for the next section
- •with luck, viewers will associate the wrong legend and figure and be unable to scoop you!

4. Emphasize text, not graphics



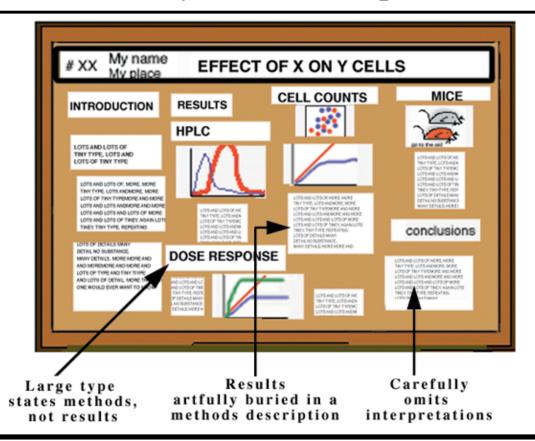
Use a publication-style format

Don't show: tell!

- a publication-style format supplies every detail
- with luck, most people will have insufficient time to read your poster
- •simply staple up your manuscript, to imply you will soon publish this work
- •if you do use figures, omit legends

How to obscure your message

5. Be wordy, but avoid explanations



Avoid substance or explicit statements

Omit the message

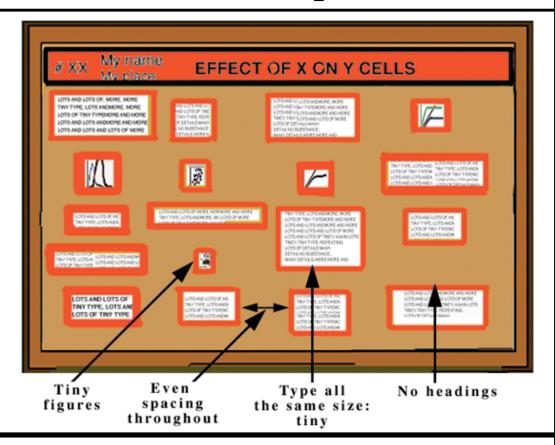
- highlight methods with large typeface
- bury points in methods
- avoid interpretations
- never state conclusions
- avoid being explicit: refer to "the response" but never identify it

Be wordy

- use passive voice
- use complex sentences
- never use one word when you can use ten
- repeat text in legends
- explain everything-except the main point

How to obscure your message

6. Avoid emphasis



De-emphasize substance visually

Think small

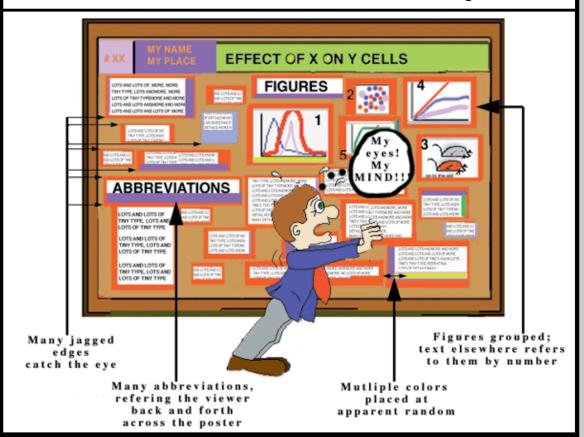
- put main points in the tiniest type
- •make all figures tiny
- on graphs, use
 - •thin lines
 - •bars with patterns
 - •grays, no color
 - detailed keys

Try for homogeneity

- mount each paragraph, heading and figure on its own board
- •separate each board by the same space
- •use the same size type for headings and text

How to obscure your message

7. Distract them visually



Try for utter chaos

Maximize variety

- panels different sizes
- •panels different shapes
- •panels fail to line up
 - •many jagged edges
 - •catch the eye
- many colors
 - •purple, chartreuse
 - •try to blind the innocent bystanders

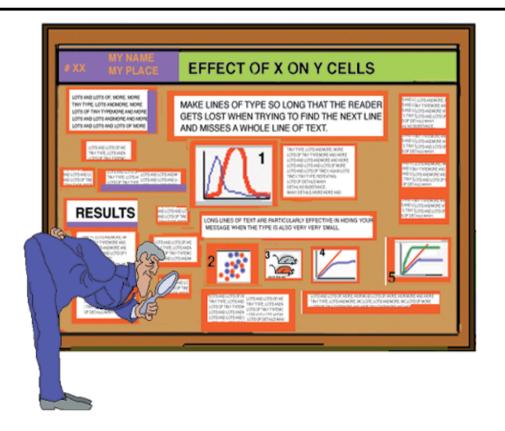
Refer them elsewhere

- •many cross-references
- •group all figures
 - •legends elsewhere

How to obscure your message

- •text elsewhere
- •refer to figs by #
- many abbreviations
- •list definitions
 - •in a separate place
 - •fail to define the central term

8. Make text hard to read



Try to make text impenetrable

Start with tiny text

- •use 10-12 point type
- •only text without content--"results"-should be readable
- •small text will exclude senior researchers with reading glasses •a bonus!

Then become arcane!

- •use sans serif Helvetica
- •center all type
- •or use right-adjusted
- •use only UPPER CASE
- •use lines of text so long that readers lose their place

How to obscure your message

9. Never draw conclusions



Never specify real information

Don't commit yourself

- avoid strong statements
- •to conclude, repeat results • "Antibody
 - abolishes the response"
 - •NOT "X is essential to apoptosis"
- •use a non-committal title •"Effect of X on Y" (insert relevant X, Y)

Cover your ass

How to obscure your message

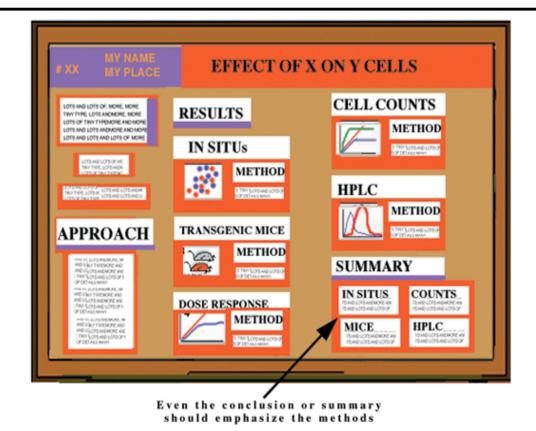
How to obscure your message

- •conclude: "This issue needs further study" virtually
 - everything needs further study, so
- you can't be faulted •if you are vague enough, no one will

know why you did your

study

10. Be methods-oriented



Emphasize methods, not message

Be thorough

identify every method
in great detail
emphasize methods
identify methods
(not results)
in all headings
to conclude, again

emphasize the methods

used to obtain the results

Benefits

How to obscure your message

- •show your main concern
 - •is with methods
 - not with concepts
- •many job offers!!
 - •as a technician...
 - •some lab heads like hands without a thinking head attached

11. Give a detailed tour



Be compulsively complete

Read every line

- •read all the text
- •trace each graph line
- •dwell on the approach
 - every method
 - •every step
- •be biographical
 - •its about YOU!
 - don't reveal purpose

Hints

- •speak in a hesitant tone •a whisper is ideal
- •stand with your back to your audience
 - •many people will be able to escape
 - you may have to hold onto people's arms

How to obscure your message

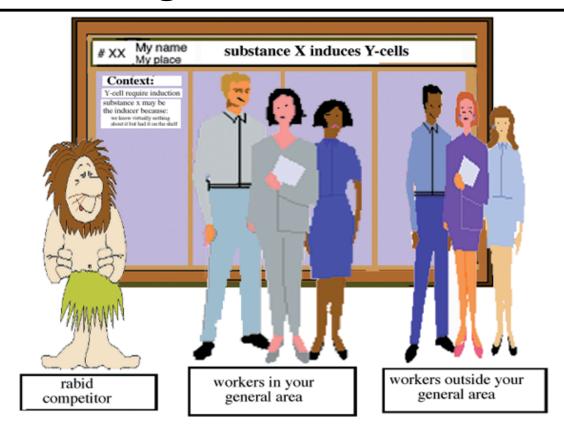
Poster presentation styles

Part two

How to Emphasize Your Message

A set of eleven examples illustrate design features that will emphasize your message

1. Design for three audiences



Attract more than your competitors

Rabid competitors

- •come anyway
- •need no effort to attract
- •not your main audience!

Workers in your area

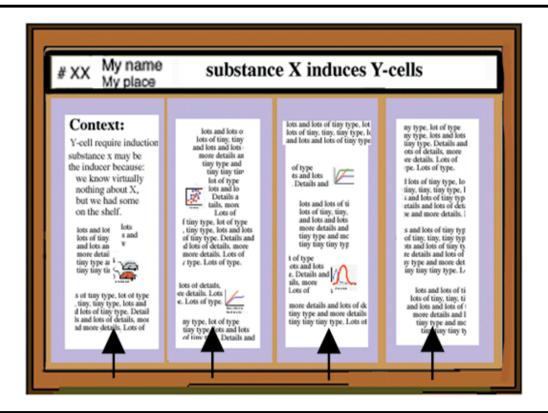
- •your main audience
- attracted by
 - •accessible poster
 - need context

Workers outside your general area

- •bonus audience
- need explanation of the problem and solution
- •attracted by accessible message
- •will provide links to distant fields

How to emphasize your message

2. Layout in column format



Your audience reads left to right

Smooth traffic

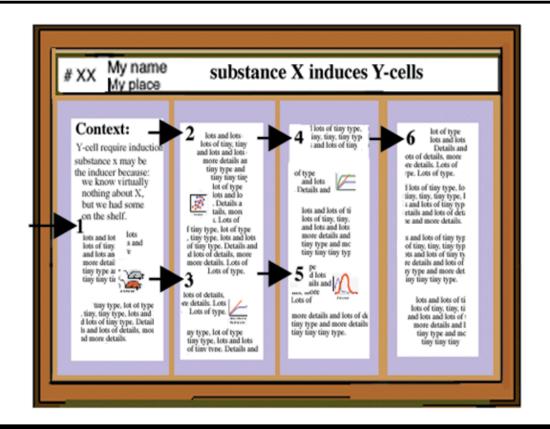
If the poster is organized in columns then viewers can view all of a column before they move to the next column

Avoid gridlock

If the poster is organized in rows, viewers must fight their way back to the beginning

How to emphasize your message

3. Indicate the sequence



Supply clues

Use

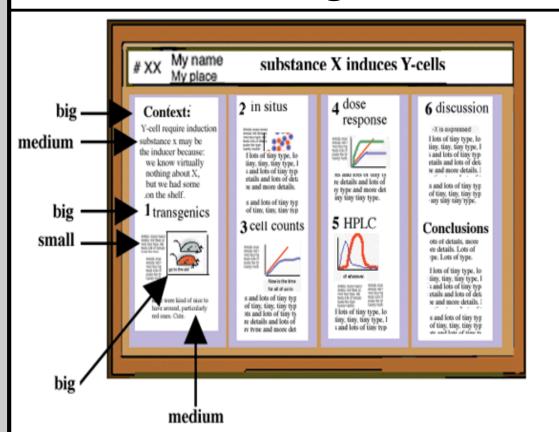
- •numbers
- •letters
- •arrows
- •logical sequence

Be visual

- •sequences are easier to follow if panels are ordered visually
- panels in regular columns are easier to follow than panels placed asymmetrically

How to emphasize your message

4. Use visual grammar



Use a graphic hierarchy

Show, don't tell

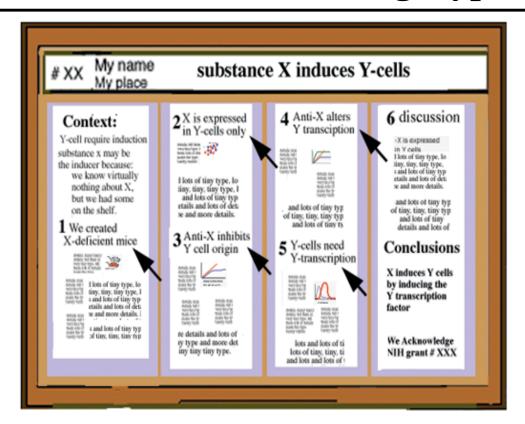
- •use figures
- use graphs
- visuals should dominate the poster visually

Visually reflect the relative importance

How to emphasize your message

- •if it is important,
 •make it BIG
- •type size proportional to importance
 - •title: largest
 - •heading: medium
 - •text: smaller

5. The essential is in large type



Take-home messages in big headings

Be explicit

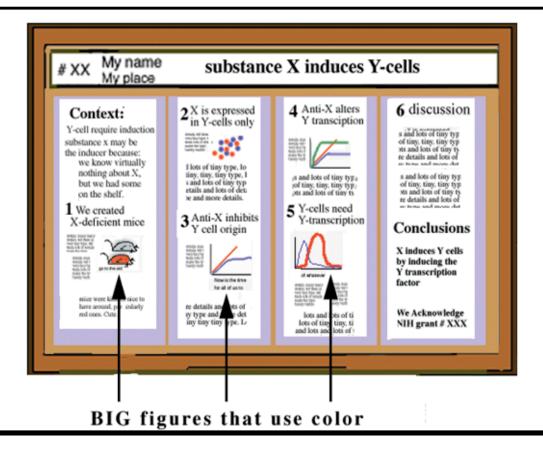
- •headings emphasize experimental logic
- identify results explicitly
 instead of "results"
 say "transgenics
 grow extra feet"
 instead of "in
 situs"
 say "X is expressed
 only in Y cells"

Message, not categories

- •headings identify THE results explicitly, rather than merely indicating "results are below"
- •forego the temptation to classify results by methods alone

How to emphasize your message

6. Emphasize material visually



Graphic elements should dominate

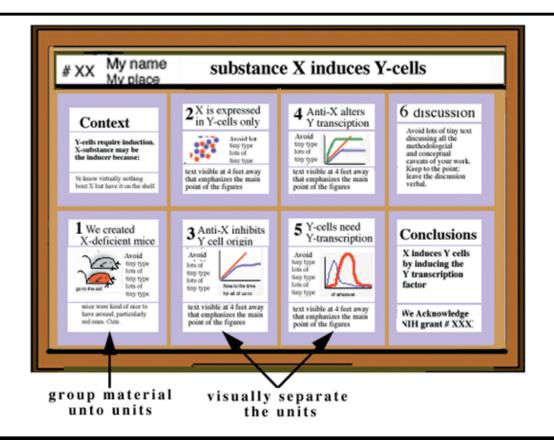
Think graphic

- •graphics, cartoons, figures, not tables
- •color to emphasize
- •color to link words and images
- •bold lines, color to distinguish differences

Think accessible

- •formats that don't require keys
- •explanations directly on the figures
- minimizeabbreviations
- •no cross-references

7. Avoid visual distraction



Organize information visually

Maximize order

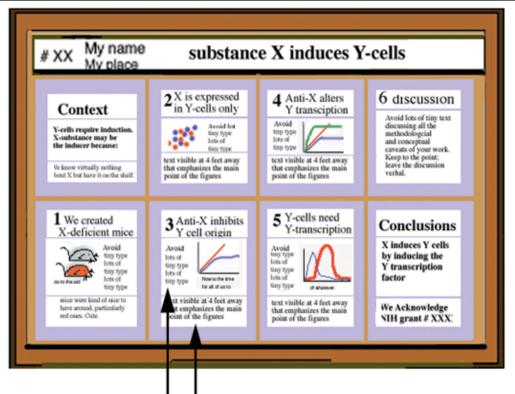
- •panels similar sizes
- •panels similar shapes
- panels line up
- elements grouped
 heading, figure,
 text form a single,
 conceptual unit

Color for emphasis

How to emphasize your message

- use color for
- emphasis
- color consistent
 - if your molecule is red in one panel, make it red in all
- muted or neutral background

8. Make text readable



Text is readable at a distance

simple, direct, and readable

Readability criteria

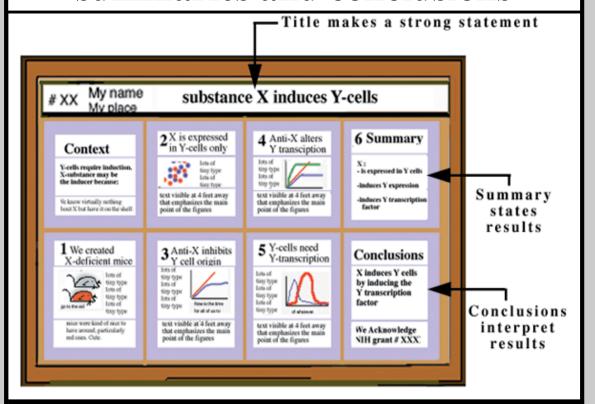
- •title, major headings
 - •readable at 6 feet
 - attract viewer
- supporting material
 - •readable at 4 feet
- details
 - •kept to a minimum
 - •readable at 3 feet

For readability

How to emphasize your message

- •keep text compact
- •single-space text
- •space between units
- not right-adjusted
- use both upper and lower case

9. Differentiate data, summaries and conclusions



Step beyond merely stating results

Commit yourself

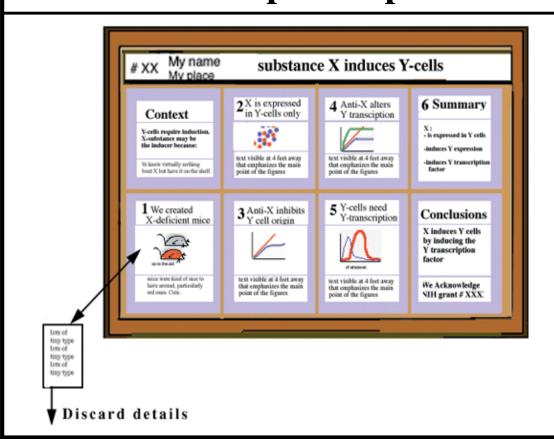
- •summaries only restate results
- •conclusions interpret and tell significance
 - do not justrepeat the results
 - •state your interpretations

Be bold and explicit

How to emphasize your message

- •make the strongest statements your data will support
- don't soft-peddle exciting findings
- make the title as explicit as you can

10. Keep it simple



Edit ruthlessly

Simplify

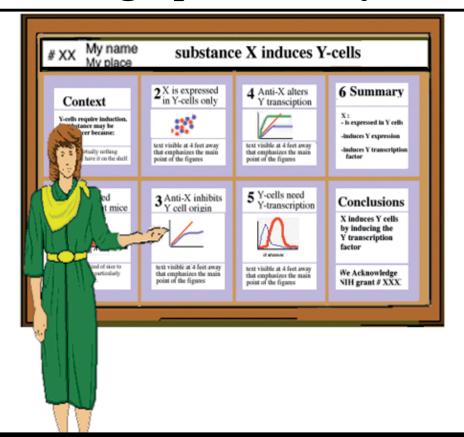
- details detract
- •simple messages are most memorable
- •mock-up your poster
 - dump details
 - •omit all you can
 - •edit all text
 - simplify verbiage

Supply details verbally

- •if the methods are really innovative, prepare handouts
- carry your newest, hottest data in a folder to share with the elite

How to emphasize your message

11. Use the graphics when you talk



Focus on the evidence: the graphics

Don't read it: use it as a visual aid

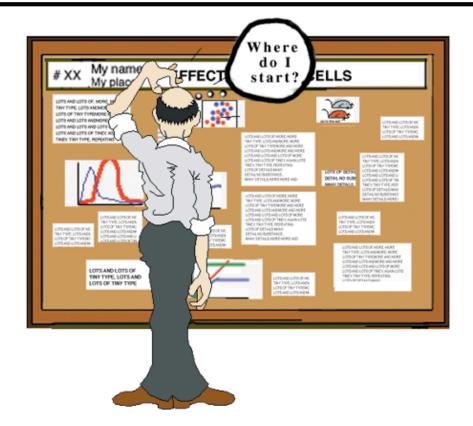
- •face your audience
- •tell them the context
 - •the big problem
 - •why it is important
 - your answer to it
- as you talk, point to and look at the graphics

Practice an effective and efficient talk

- •a 5-min talk
- •a 2-min synopsis
- •effectively use the graphic evidence
- practice handling questions mid-stream

How to emphasize your message

Creating effective posters



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http://biology.lsa.umich.edu/research/labs/ktosney/file/PostersHome.html

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