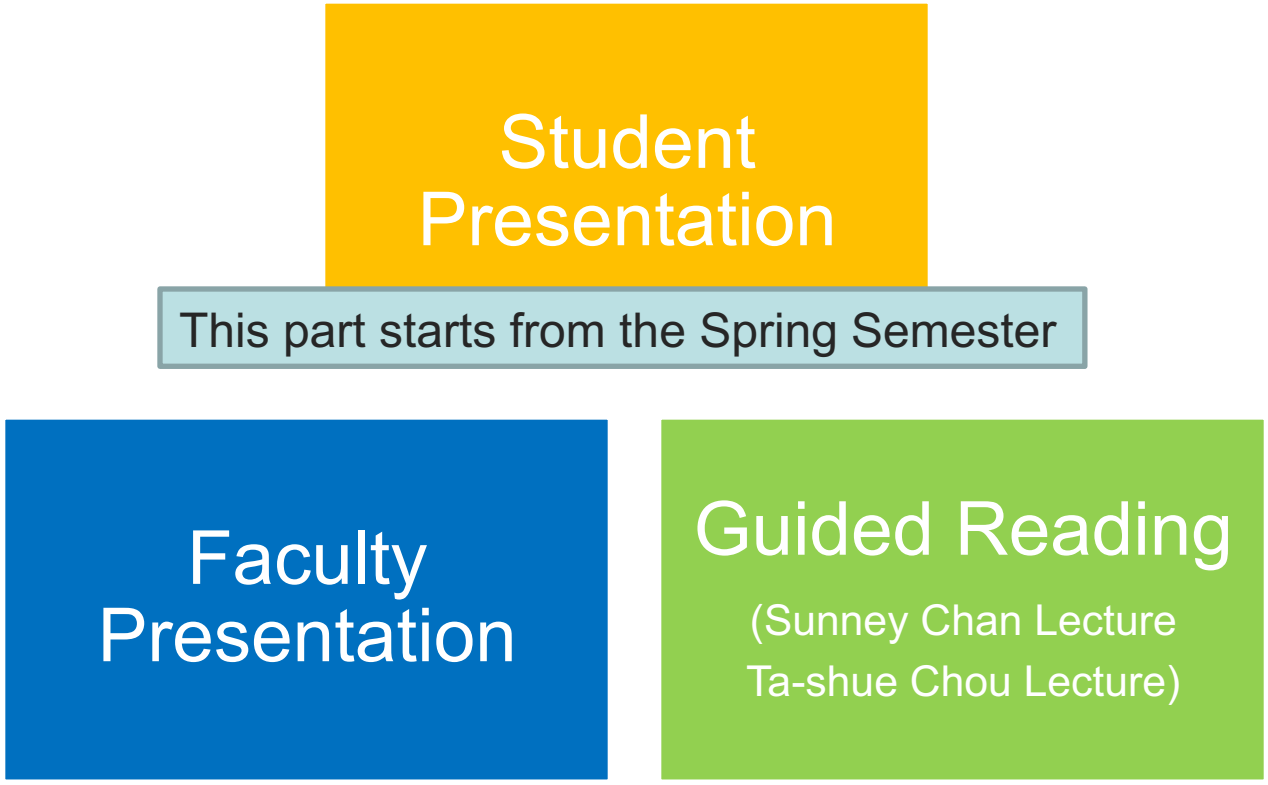
Seminar 2016 Fall ~ 2017 Spring



Week	Seminar Wed	14:30 – 16:30	Week	Seminar Wed	14:30 – 16:30
1	2016/9/14	A. Chao, Ito (趙奕姈) B. Chiang, Ming-Hsi (江明錫) Introduction to Lab Security	9	2016/11/09	No Class Midterm Exam Week
2	2016/09/21	A. Kuo, Chun-Hong (郭俊宏) B. Lee, Hsien-Ming (李賢明)	10	2016/11/16	A. Shie, Jiun-Jie (謝俊結) B. Chiang, Ming-Hsi (江明錫)
3	2016/9/28	A. Chein, Rong-Jie (陳榮傑) B. Liang, Po-Huang (梁博煌)	11	2016/11/23	A. Wang, Cheng-Chung (王正中) B. Sun, Chung-Ming (孫仲銘)
4	2016/10/05	Chiang, Ming-Hsi (江明錫) Guided Reading for Oct. 7th Sunney Chan Lecture	12	2016/11/30	A. Huang, Joseph Jen-Tse (黃人則) B. Chang, Wei-Hau (章為皓)
5	2016/10/12	A. Chiang, Ming-Hsi (江明錫) Sunney Chan Lecture Q&A B. Ong, Tiow-Gan (王朝諺)	13	2016/12/07	No Class School Holiday
6	2016/10/19	A. Lee, Yuan-Pern (李遠鵬) B. Chen, Yu-Ju (陳玉如)	14	2016/12/14	A. Chen, Chin-Ti (陳錦地) B. Chung, Cedric Po-Wen (鍾博文)
7	2016/10/26	A. Yu, Hsiao-hua (尤嘯華) B. Chen, Jiun-Tai (陳俊太)			
8	2016/11/02	A. Hsu, Chao-Ping (許昭萍) B. Wang, Chien-Lung (王建隆)			

Guided Reading

- **Get ready for Sunney Chan Lecture**

Michael A. Marletta

Polysaccharide Monooxygenases:

Structure and Function

Here are reading materials related to the lecture.

They are uploaded to the *Cloud* or ask Elyse for them.

Cellulose Degradation by Polysaccharide Monooxygenases

William T. Beeson,[1] Van V. Vu,[2] Elise A. Span,[2] Christopher M. Phillips,[3] and Michael A. Marletta[2]

[1]Department of Chemistry, University of California, Berkeley, California 94720

[2]Department of Chemistry, The Scripps Research Institute, La Jolla, California 92037; email: marletta@scripps.edu

[3]BP Biofuels Advanced Technology Inc., San Diego, California 92121

Annu. Rev. Biochem. 2015, 84, 923

ELSEVIER

Available online at www.sciencedirect.com

ScienceDirect

Current Op Struc

The framework of polysaccharide monooxygenase structure and chemistry

Elise A Span[1] and Michael A Marletta[2,3]

Current Opinion in Structural Biology 2015, 35, 93

JACS

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

Communication

pubs.acs.org/JACS

JACS 2012, 134, 890

Oxidative Cleavage of Cellulose by Fungal Copper-Dependent Polysaccharide Monooxygenases

William T. Beeson,[†,⊥] Christopher M. Phillips,[‡,⊥] Jamie H. D. Cate,[†,‡,§,∥] and Michael A. Marletta*[,†,‡,§,∥,#]

[†]Department of Chemistry, [‡]Department of Molecular and Cell Biology, and [§]California Institute for Quantitative Biosciences, University of California, Berkeley, California 94720, United States

[∥]Division of Physical Biosciences, Lawrence Berkeley National Laboratory, Berkeley, California 94720, United States

Guided Reading

- September: Browse the assigned papers
  - What are the key points?
  - Where do you have difficulties?
- Oct. 5: Meet the local expert (Prof. Ming-Hsi Chiang)
  - Introduction on the background and research of the lecturer
  - Q&A and discussion on the content of the assigned papers
- Oct. 7~8: Sunney Chan Lecture
- Oct. 12: Q&A and Reflection
  - How did the scientist get inspired?
  - What are the potential applications of his work?
  - Based on your background, what do you appreciate in his work?
  - Does his work have an impact on yours?

Grading

- Participation
- Attendance
- Your presentation

Seminar Presentation Skill

Ito Chao (IC)
Courtesy of Jun-Yi Leu (IMB)
Chao-Ping Hsu (IC)

Presentation

- Including
  Background introduction,
  Key questions or specific aims of the work,
  Experimental model system or designs,
  Results and result interpretation,
  Conclusions,
  Discussion of the significance

Presentation

- Including
  Who are the authors?
  Background introduction,
  Key questions or specific aims of the work,
  Experimental model system or designs,
  Results and result interpretation,
  Conclusions,
  Discussion of the significance

Background Introduction

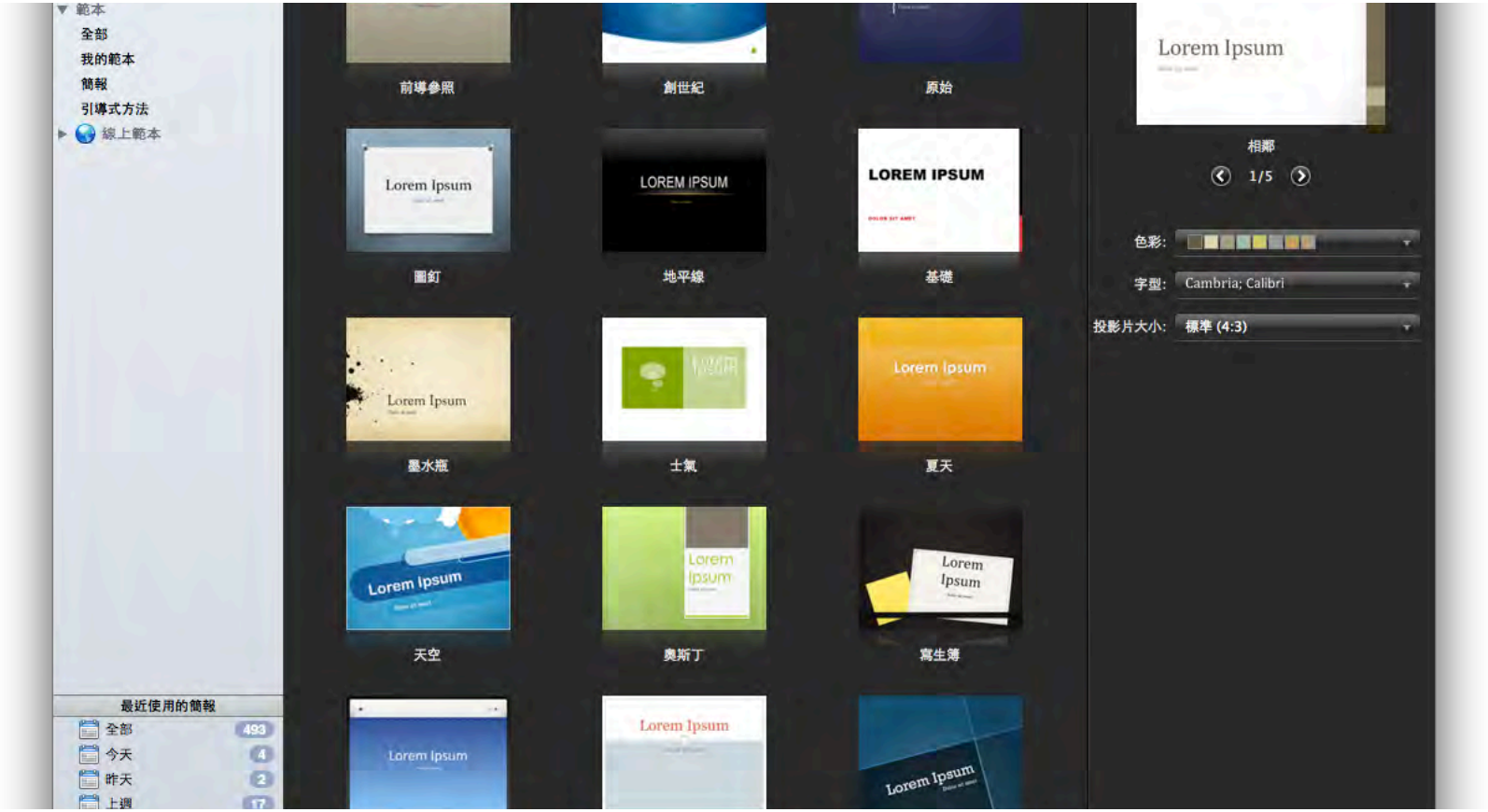
- Who is your audience?
  - -general or specific
  - -about one quarter of the time should be used for the introduction

Tips for preparing a PPT

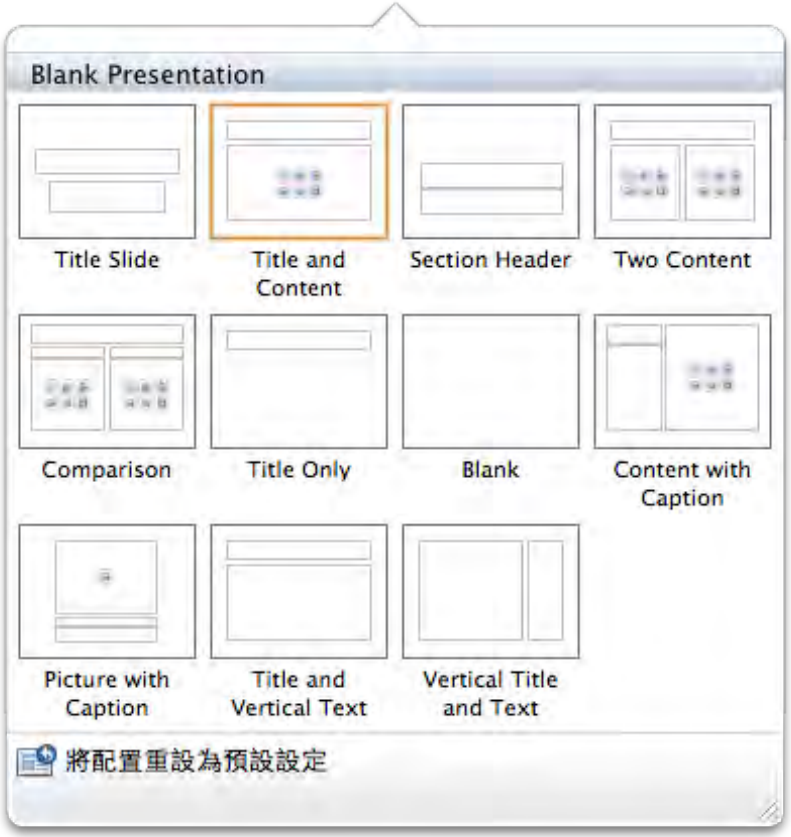
- Include a brief title on each page.

- A good slide gives at least 60% of the information you want to deliver to the audience.

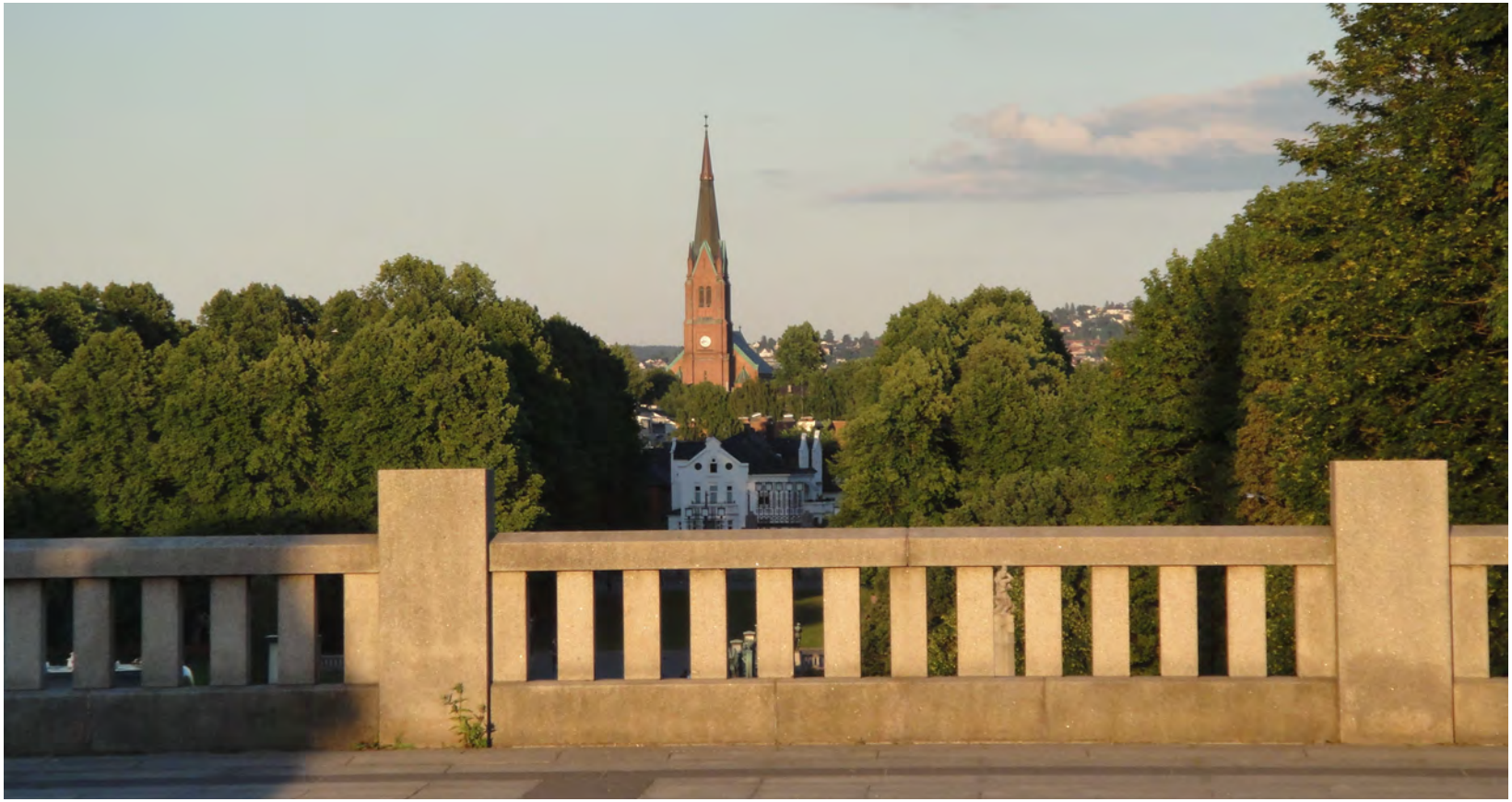
Choose a simple template



Take advantage of the pre-set masters



What should be put “here”?



The variety of Sushi

I like all kinds of Sushi

There are raw and cooked fish in sushi varieties

What do you want to say here?

What do you want to say here?

Check spelling!!

Chek speling!!

Check spellling!!

Font Size

- A minimum of 24 is necessary.
- A minimum of 24 is necessary. 12
- A minimum of 24 is necessary. 14
- A minimum of 24 is necessary. 18
- A minimum of 24 is necessary. 20
- A minimum of 24 is necessary. 24
- A minimum of 24 is necessary. 28
- A minimum of 24 is necessary. 32

Font Style

Avoid Serif Fonts

X •MCB seminar in IMB (Times New Roman 24)

X •MCB seminar in IMB (Modern No. 20 24)

Use Sans-Serif Fonts

•MCB seminar in IMB (Arial 24)

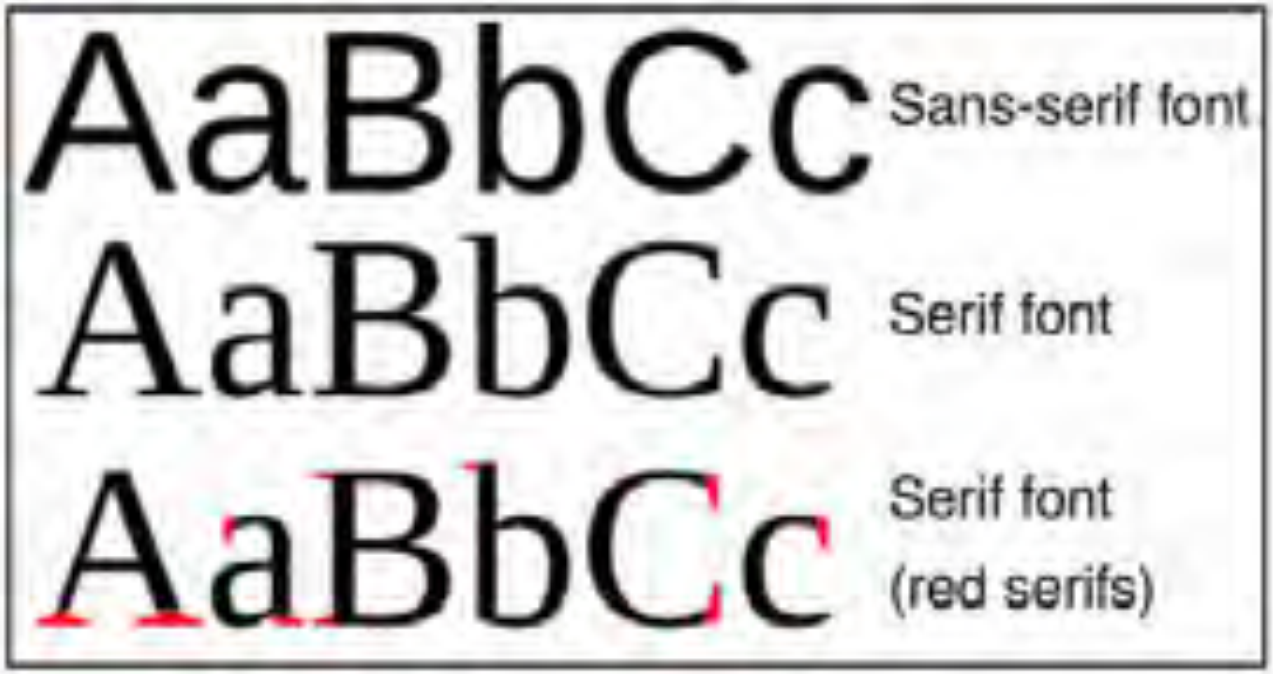
• MCB seminar in IMB (Calibri 24)

•MCB seminar in IMB (Helvetica 24)

Easily Legible Cursive font

•MCB seminar in IMB (Comic Sans MS)

•MCB seminar in IMB (Chalkboard)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Serif font
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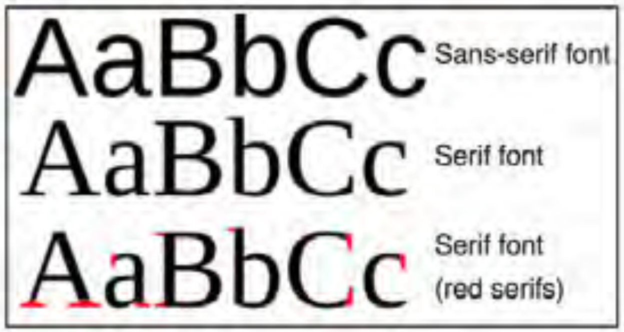
Serif font
(red serifs)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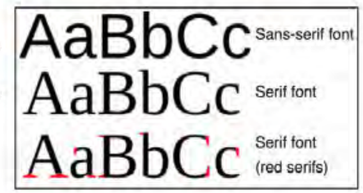
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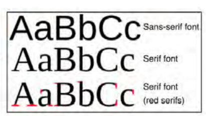
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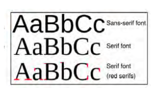
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Serif font
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Serif font
(red serifs)


AaBbCc
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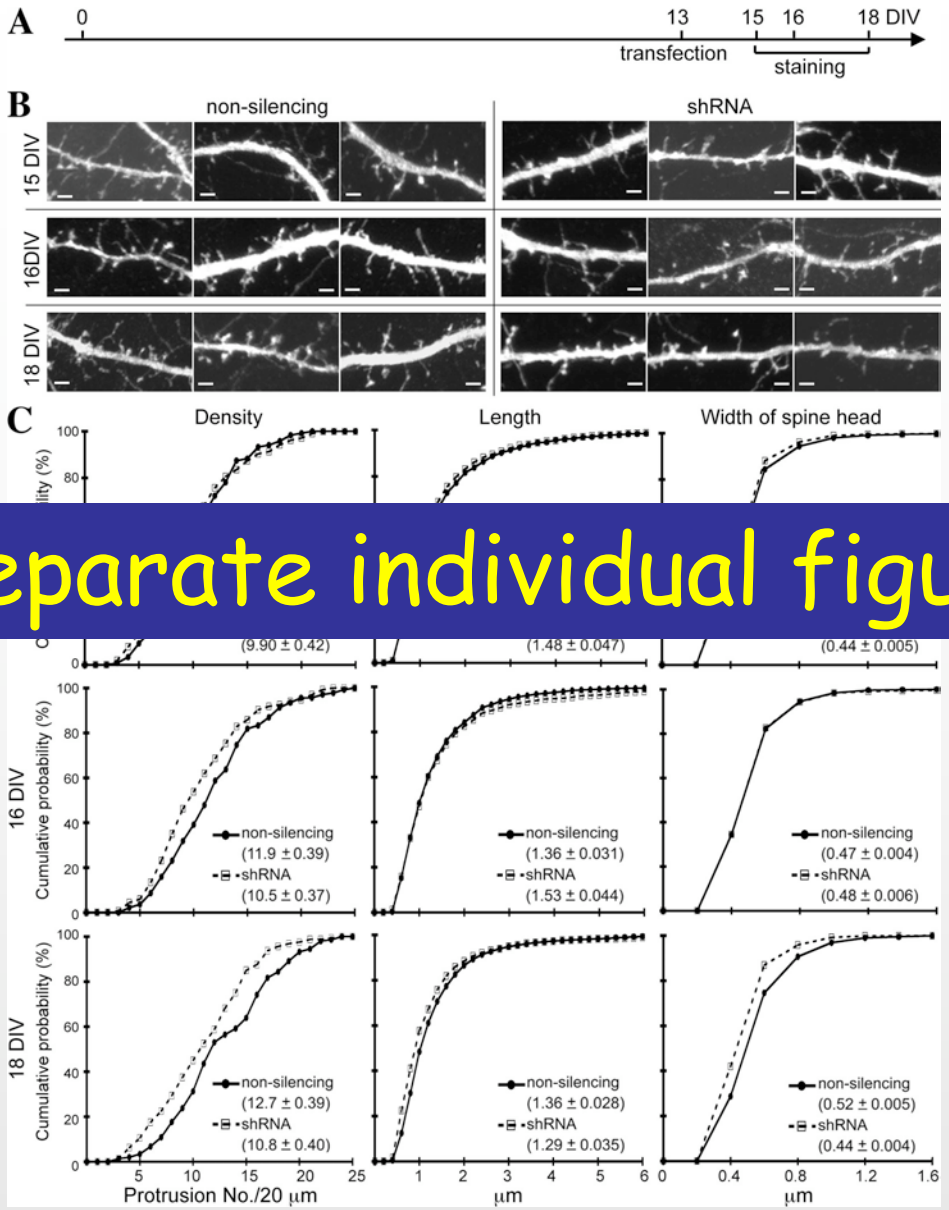
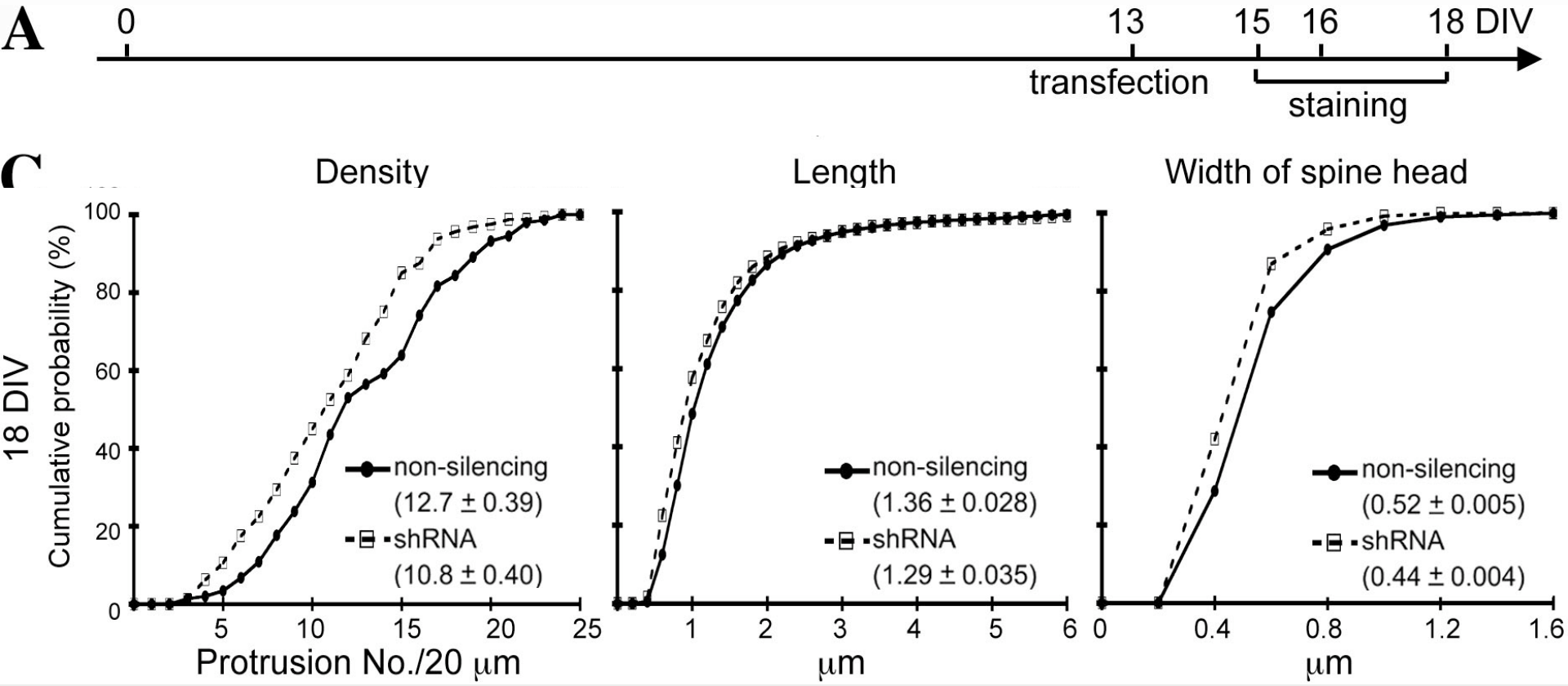
How to make a slide - **Too small!**

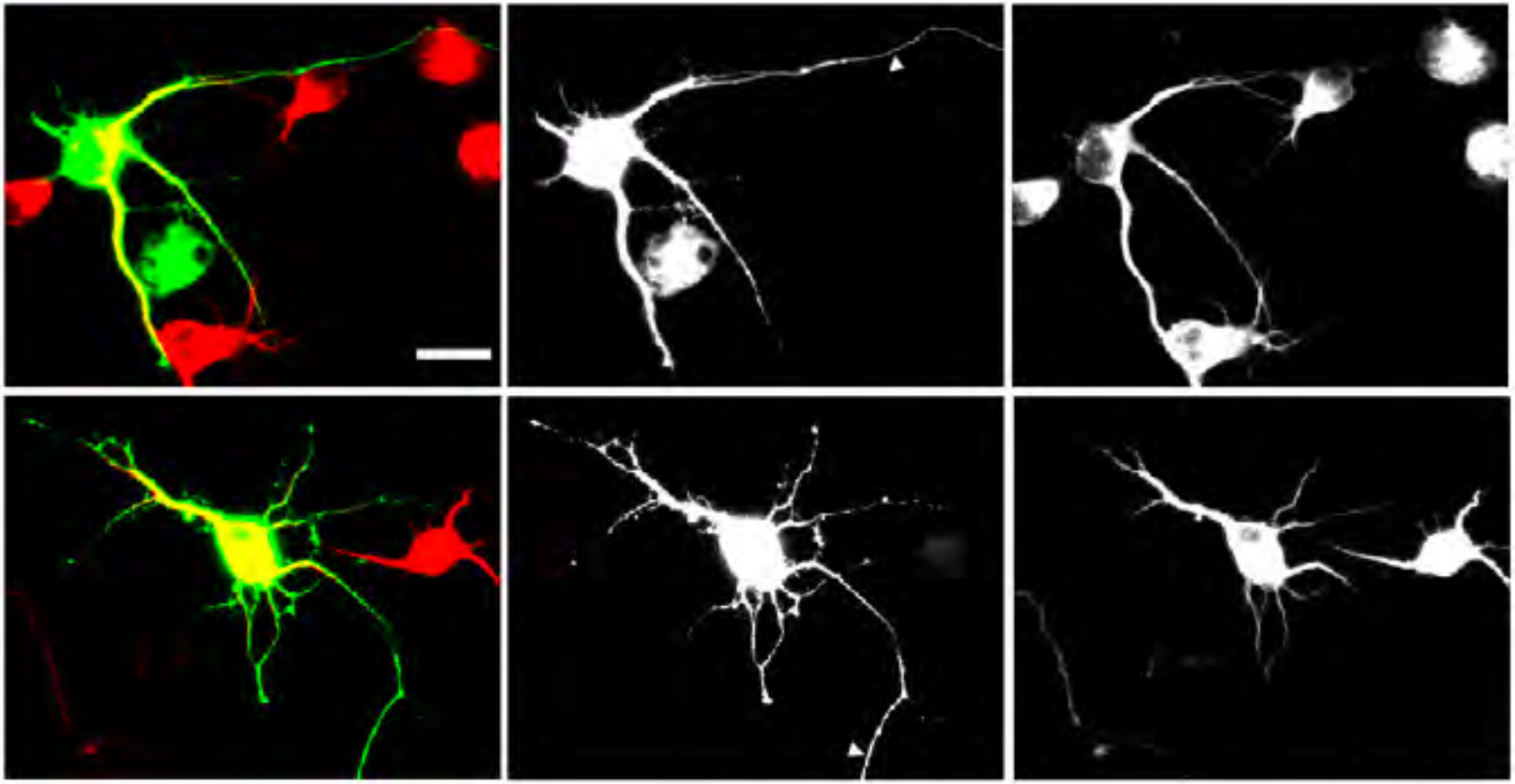


Separate individual figures

Solution

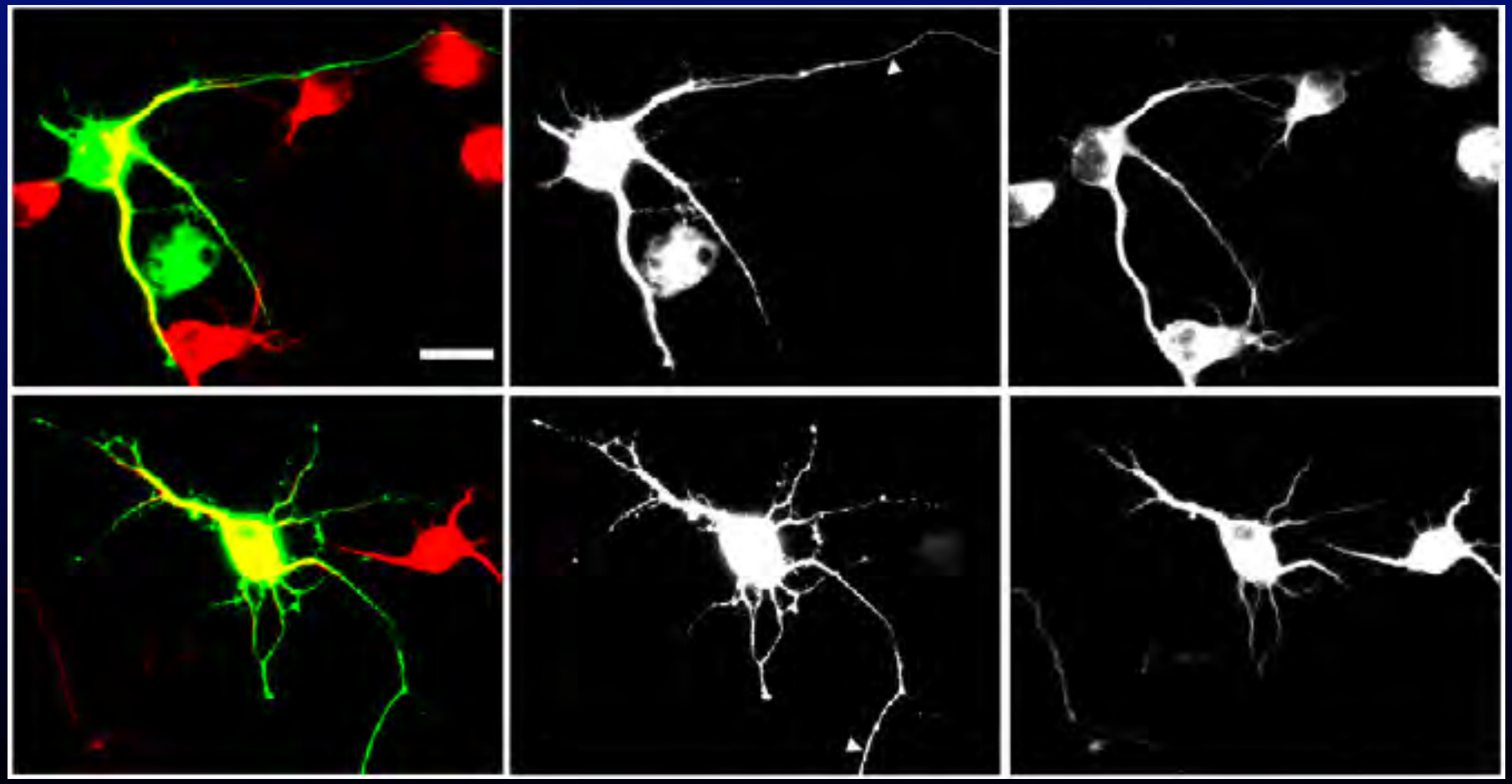

A
0
13
15
16
18 DIV
transfection
staining
Density
Length
Width of spine head
18 DIV
Cumulative probability (%)
non-silencing
(12.7 ± 0.39)
shRNA
(10.8 ± 0.40)
Protrusion No./20 μm
non-silencing
(1.36 ± 0.028)
shRNA
(1.29 ± 0.035)
μm
non-silencing
(0.52 ± 0.005)
shRNA
(0.44 ± 0.004)
μm

How to make a slide - Bright background



Solution

A dark background, such as dark blue, gray or black, helps!



How to make a slide - Contrast

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

In a dark blue or black background

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

How to make a slide - Contrast

In a white or light gray background

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

Strong contrast color is required

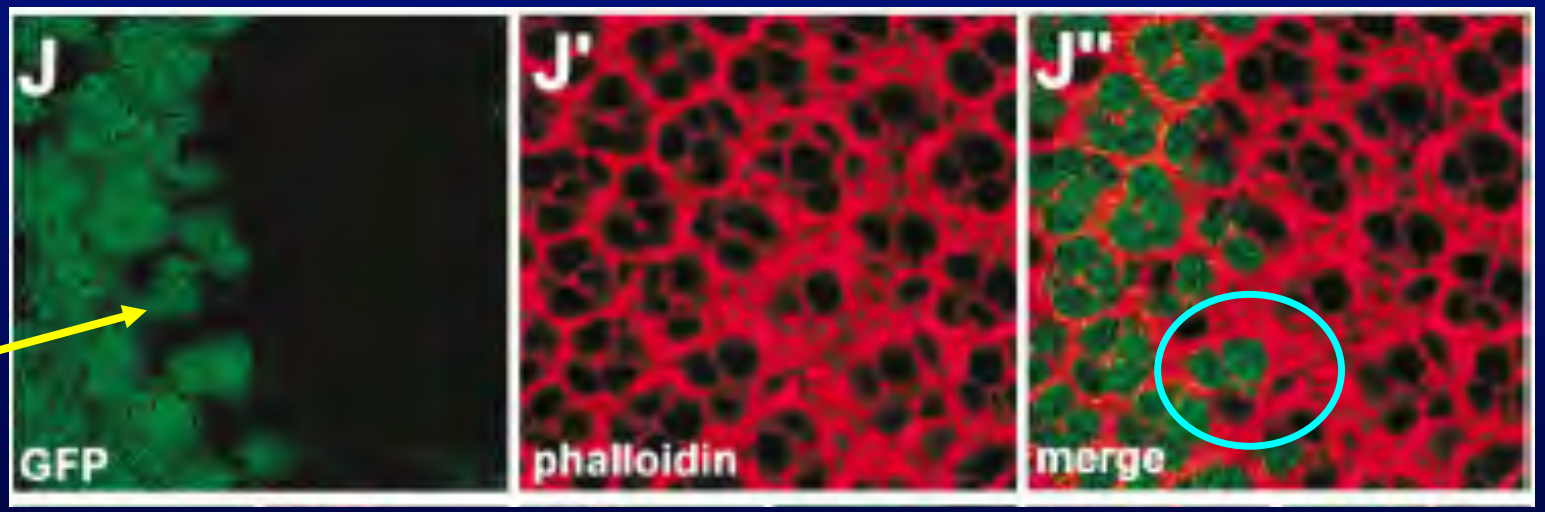
Strong contrast color is required

Strong contrast color is required

Using arrows or other marks

Uses text boxes to help

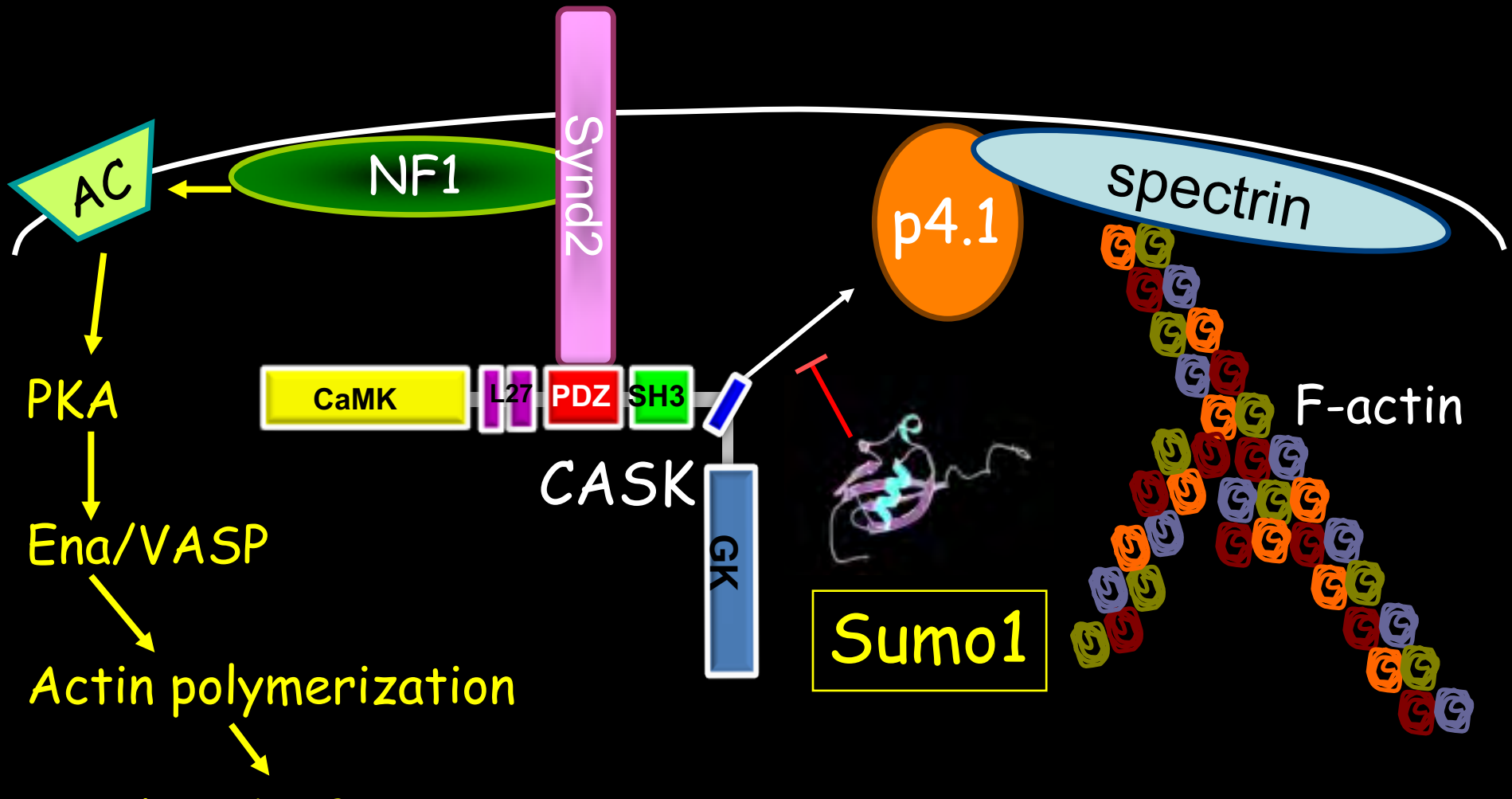
Avoid extra animations



Drawings help explain complicated issues

- Especially for experimental designs and conclusions
- A wordy slide is the last thing that you want to do…

Drawing a model for the conclusion



Lin et al., 2007, JCB
Chao et al., 2008, JCB

Specific instructions for this course

- Reading only the selected paper is not enough (unless you have worked on the same topic for more than 10 years…)
- Read and understand relevant materials
- Understand the techniques used in the paper

Specific instructions for this course

- Control your time
  - practice practice practice
  - avoid too many slides
- Provide questions so your audience can think about them
- For the audience, don't be afraid of asking questions