

# **The Art of Making a Scientific Presentation**

# **TIPS FOR PRESENTING**

**ARRIVE 10 MINUTES EARLY**

**CHECK THE MICROPHONE PRIOR TO STARTING**

**Check the sound (listen)**

**Check for audience reception**

**CHECK THE AV EQUIPMENT PRIOR TO STARTING**

# **TIPS FOR PRESENTING**

**NO UHS, PAUSE**

**LOOK AT YOUR AUDIENCE**

**DESCRIBE YOUR SLIDES-the title, the x and y axes**

**LOOK AT YOUR SLIDES, POINT TO YOUR DATA**

**AND WHAT YOU ARE REFERING TO-**

**DON'T MAKE THE LISTENER TRY TO FIGURE  
OUT WHAT YOU ARE REFERING TO.**

**AVOID COMPLICATED SLIDES.**

# **TIPS FOR PRESENTING**

**KEEP THE WORD SLIDES TO A MINIMUM OF WORDS.**

**A 60 MINUTE TALK SHOULD LAST FOR NO MORE THAN 50 MINUTES.**

**A 10 MINUTE TALK IS A 10 MINUTE TALK.**

**LEAVE TIME FOR QUESTIONS.**

**THANK YOUR AUDIENCE AND ASK FOR QUESTIONS.**

# Practice

# Practice

# Practice

# Practice

# TIPS FOR PRESENTING

## The pros and cons of Powerpoint

### Pros;

Can make very **colorful** and fancy slides

Can animate slides

Can wait till the very last minute to make slides

Can spell check.

### Cons:

Can make very **colorful** and fancy slides

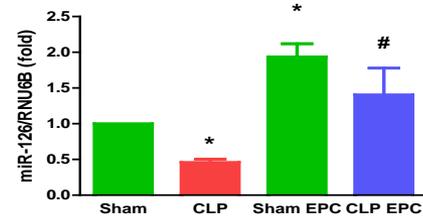
Can animate slides

Can wait till the very last minute to make slides

**Fill the slide with the figure/graph**

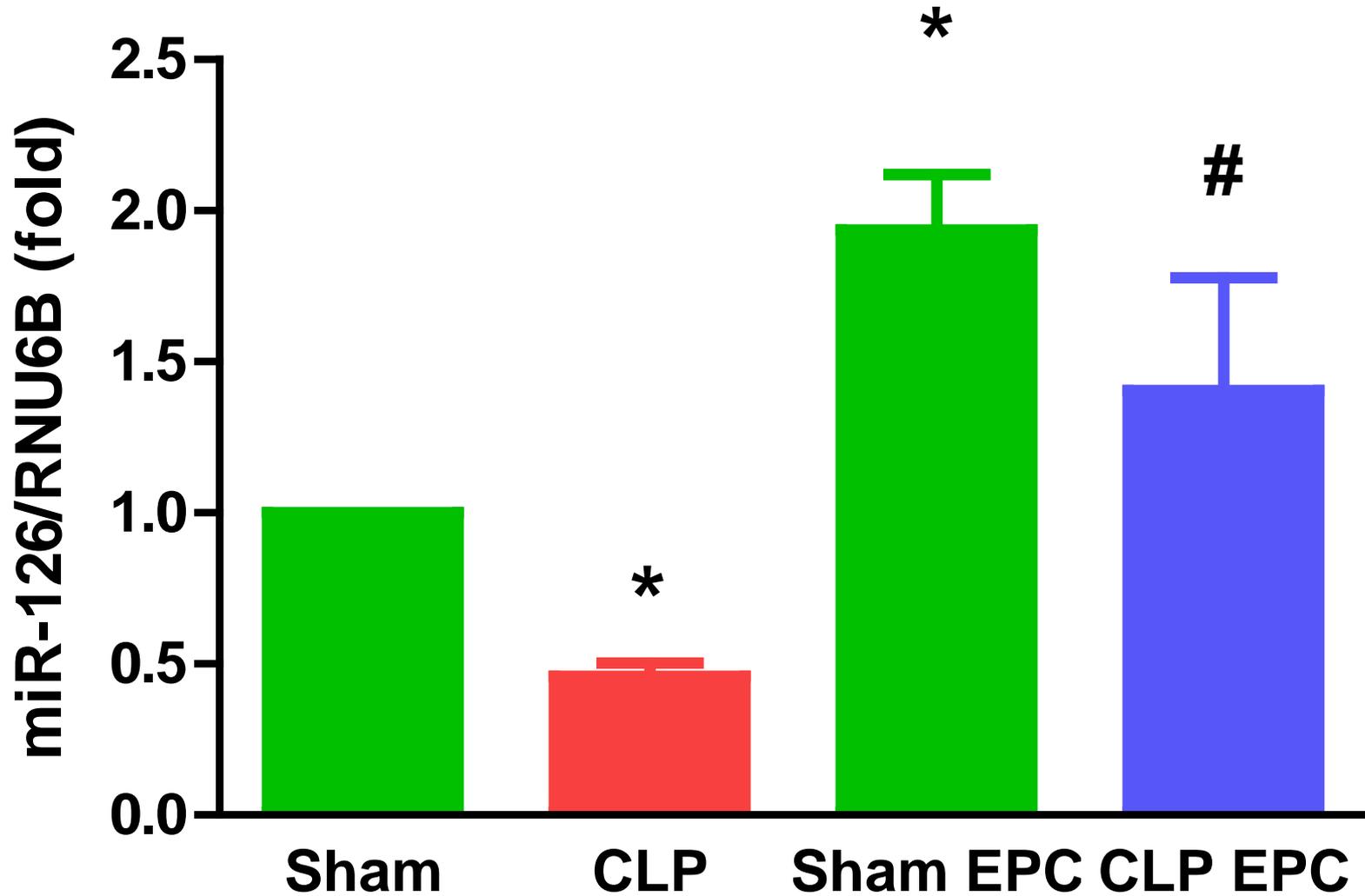
**Sit in the back of the auditorium  
and go through your slides.**

# Effects of EPCs on CLP-induced Plasma miR-126 Expression



\*  $p < 0.05$  compared to sham group. #  $P < 0.05$  compared to CLP group.  $N = 3-6$  mice/group.

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# **TIPS FOR PRESENTING**

**CHOOSE YOUR FONT SIZE AND COLORS CAREFULLY**

**SIT IN THE BACK OF THE AUDITORIUM AND MAKE  
SURE THAT YOU CAN SEE THE WORDS**

MAKING A SCIENTIFIC PRESENTATION TIMES -24

MAKING A SCIENTIFIC PRESENTATION HELVETICA-24

**MAKING A SCIENTIFIC PRESENTATION HELVETICA**

**MAKING A SCIENTIFIC PRESENTATION TIMES BOLD-24**

MAKING A SCIENTIFIC PRESENTATION-24

Making a scientific presentation -12

MAKING A SCIENTIFIC PRESENTATION TIMES

**MAKING A SCIENTIFIC PRESENTATION TIMES**

MAKING A SCIENTIFIC PRESENTATION HELVETICA

**MAKING A SCIENTIFIC PRESENTATION HELVETICA BOLD**

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MAKING A SCIENTIFIC PRESENTATION TIMES

MAKING A SCIENTIFIC PRESENTATION HELVETICA

**MAKING A SCIENTIFIC PRESENTATION HELVETICA BOLD**

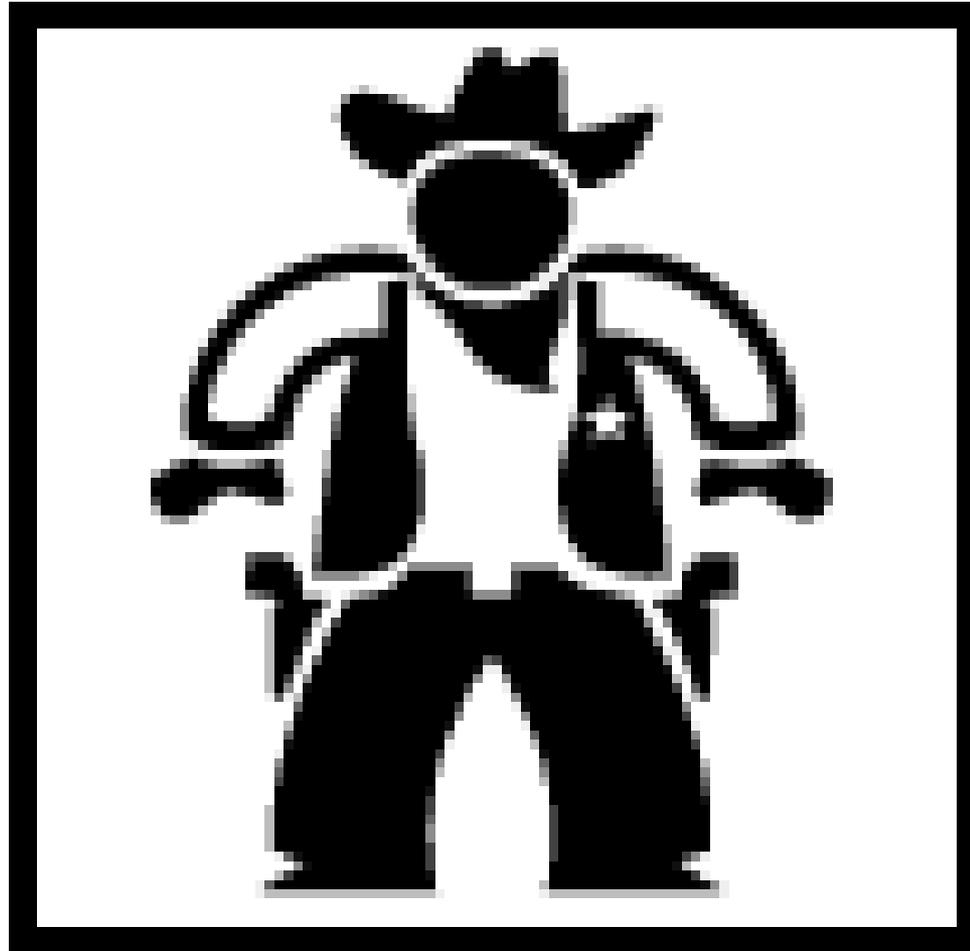
**MAKING A SCIENTIFIC PRESENTATION TIMES BOLD**

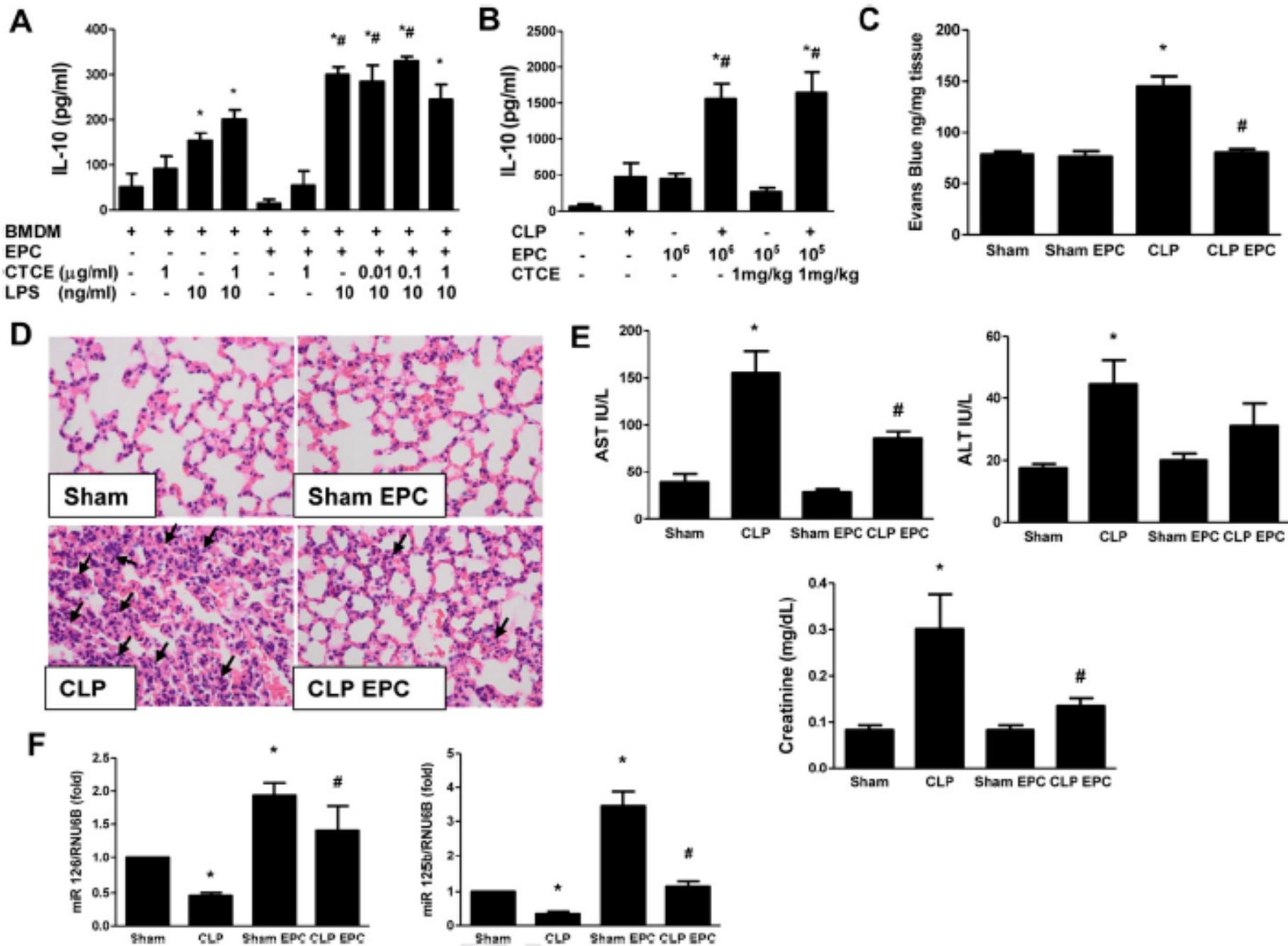
**MAKING A SCIENTIFIC PRESENTATION HELVETICA BOLD**

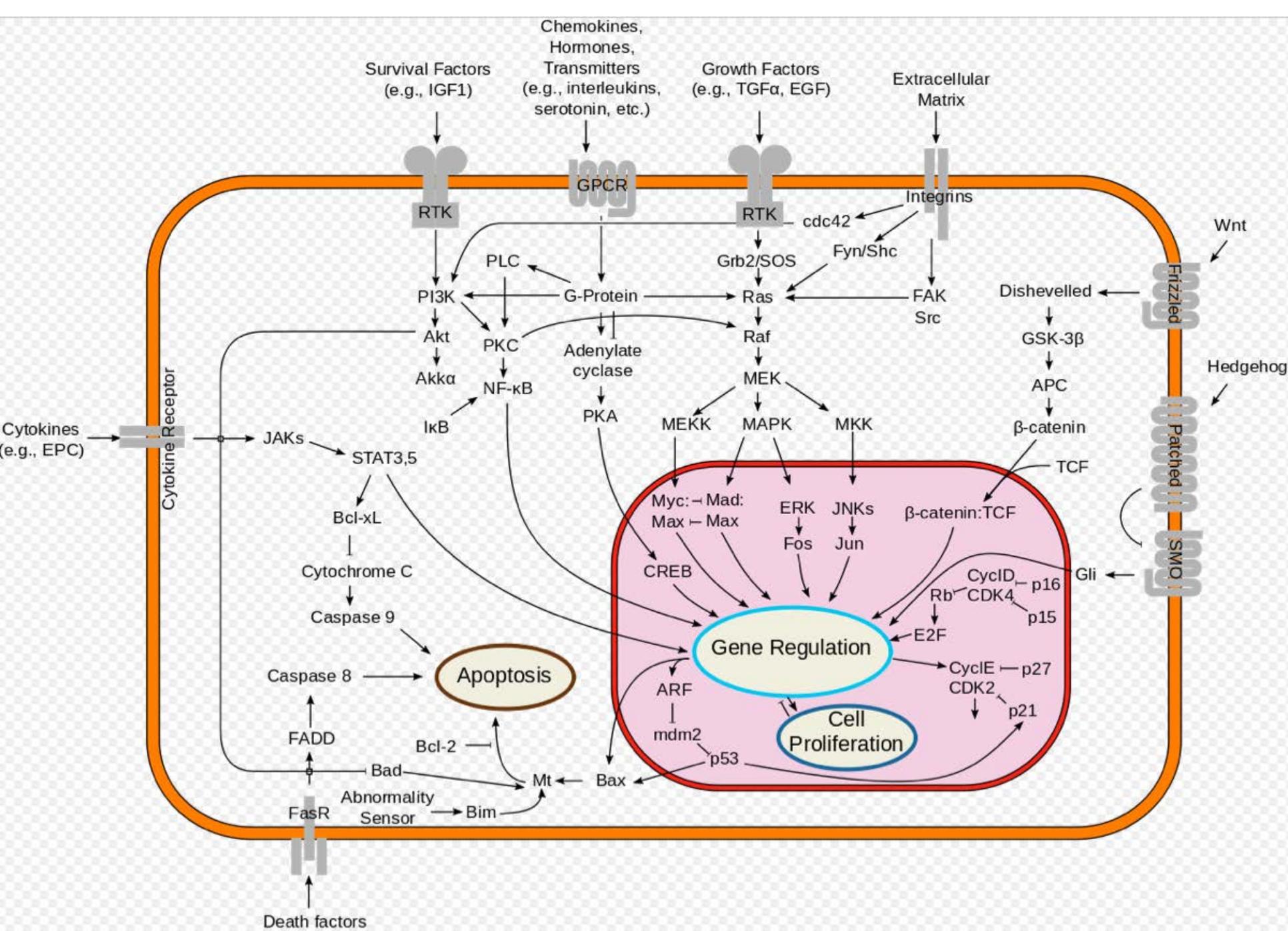
**MAKING A SCIENTIFIC PRESENTATION HELVETICA BOLD**

**DO NOTS**

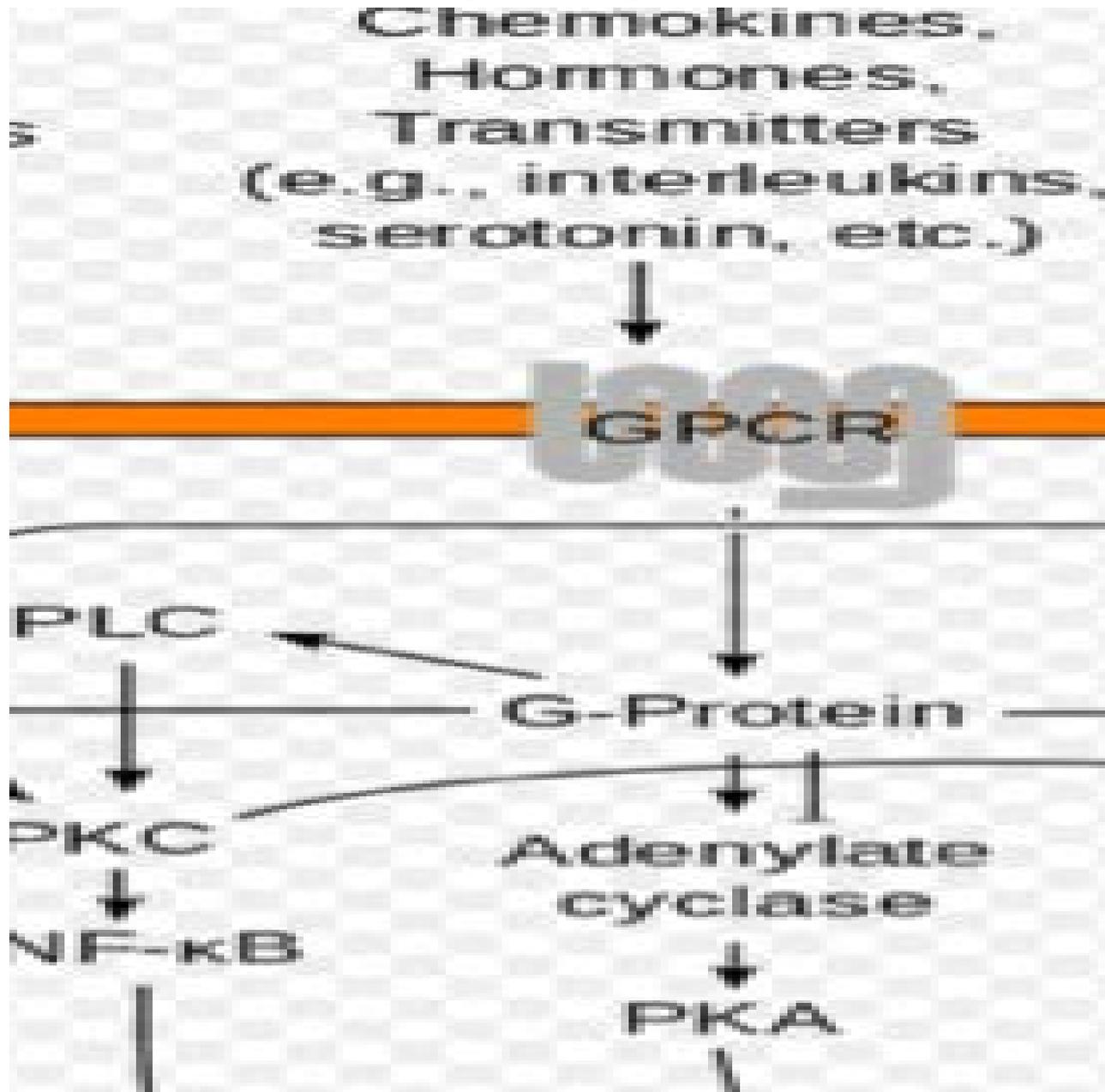
**You are not cowboys and cowgirls!**



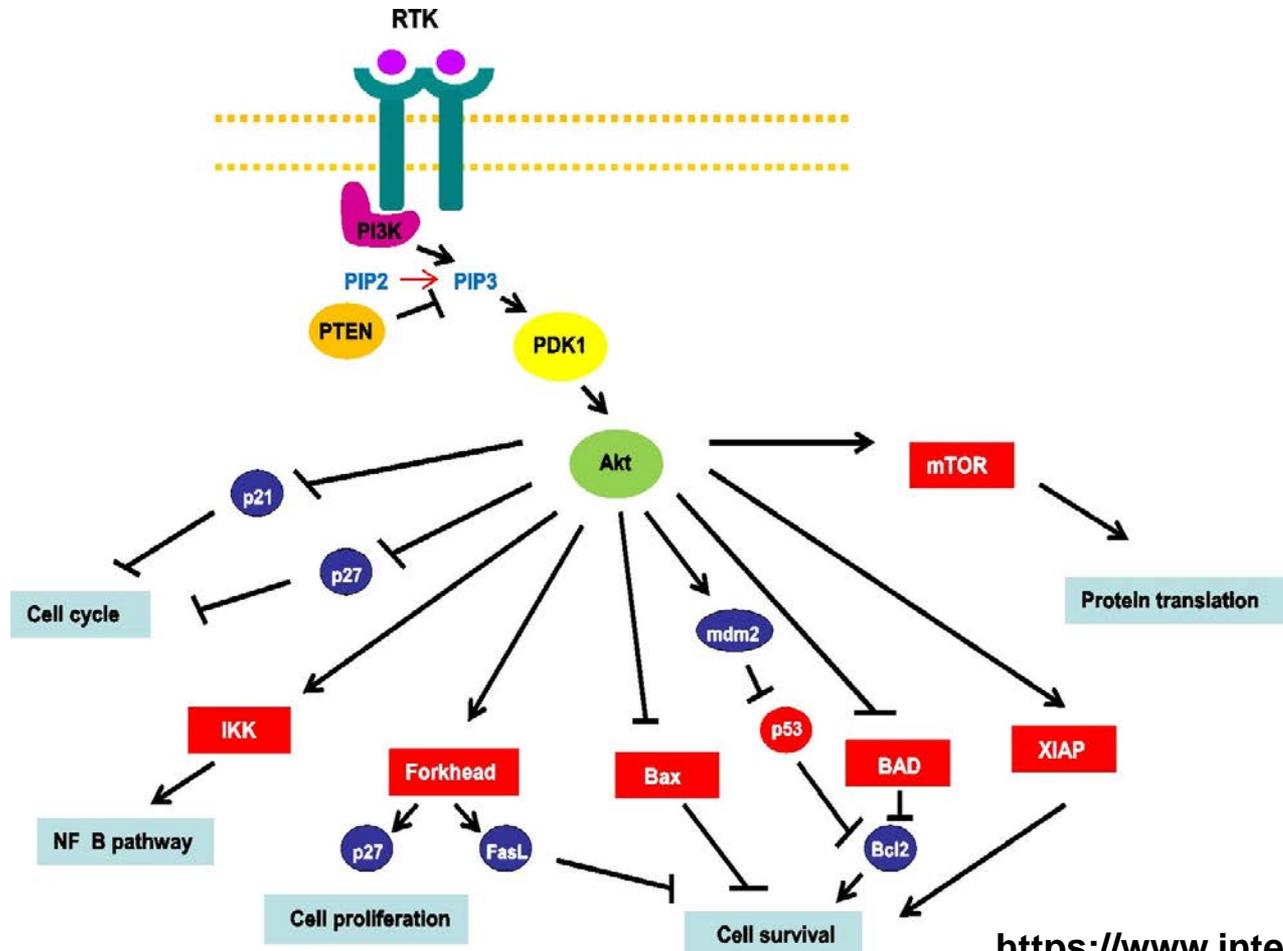




# GPCR signaling pathway



# The PI3K/AKT pathway



<https://www.intechopen.com/books/apoptosis-and-medicine/cell-death-and-cancer-novel-therapeutic-strategies>

# DON' T DO THIS

TP receptor	Stress fibers % positive
Wild-type	90% (389)
pcDNA3	10%* (132)
Wild-type+SQ29,548	39%* (128)
L222N	15%* (80)
L222A	33%* (51)
L222I	97% (34)
C223A	84% (163)
H227A	95% (41)
E240A	67%* (70)
E242A	64%* (119)
R235A	85% (40)
R237A	92% (39)
D238A	84% (51)
Δ323-343	84% (49)

**Table 1. Stress fiber formation for wild-type and mutant TP receptors.**

# **TIPS FOR PRESENTING**

**HOW MANY SLIDES SHOULD YOU HAVE FOR A TALK?**

**10 MINUTE TALK 10-12 DATA SLIDES**

**50 MINUTE TALK ~ 40 SLIDES**

# **The KISS Principle**

**KEEP IT SIMPLE STUPID**

# **TELL A STORY**

**TELL THEM WHAT YOU ARE GOING TO TELL  
THEM**

**INTRODUCTION AND BACKGROUND**

**TELL THEM**

**DATA**

**JUST ONE STORY**

**Develop a thread throughout-bridge  
the slides/data.**

**TELL THEM WHAT YOU TOLD THEM  
SUMMARY AND CONCLUSIONS**

# **INTRODUCTION/BACKGROUND**

**KEEP IT SUCCINCT AND TO THE POINT**

# **OBJECTIVE/HYPOTHESIS**

**FOCUS THE LISTENER**

# **METHODS**

**EXPLAIN THE EXPERIMENTAL PARADIGM**

# PRESENTING YOUR DATA

DATA SLIDES SHOULD HAVE THE FOLLOWING;

**A TITLE- Describes the slide**

**X & Y AXES CLEARLY LABELLED FOR GRAPHS**

**MEAN AND SEM OR STANDARD DEVIATION**

**N**

**P VALUES**

**DESCRIBE YOUR SLIDES**

**BRIDGE THE PRESENTATION OF YOUR SLIDES!!**

**DON' T JUST SHOW THE SLIDES**

**Rigor and reproducibility**

**Mind your p' s and n' s.**

# Affinity and density of wild type TP receptors in HEK 293 cells

	$K_d$ (nM)	$B_{max}$ (pmoles/mg)
Wild type (n=26)	$3.3 \pm 0.2$	$13 \pm 2$

# Affinity and density of wild type and mutant TP receptors in HEK 293 cells

	$K_d$ (nM)	$B_{max}$ (pmoles/mg)
Wild type (n=26)	$3.3 \pm 0.2$	$13 \pm 2$
L222N (n=5)	$1.1 \pm 0.4^*$	$0.5 \pm 0.1^*$
L222A (n=7)	$1.8 \pm 0.2^*$	$2.5 \pm 0.6^*$
L222I (n=6)	$1.7 \pm 0.2^*$	$4.2 \pm 0.9^+$

\* Compared to WT,  $P < 0.01$

+ Compared to WT,  $P < 0.05$

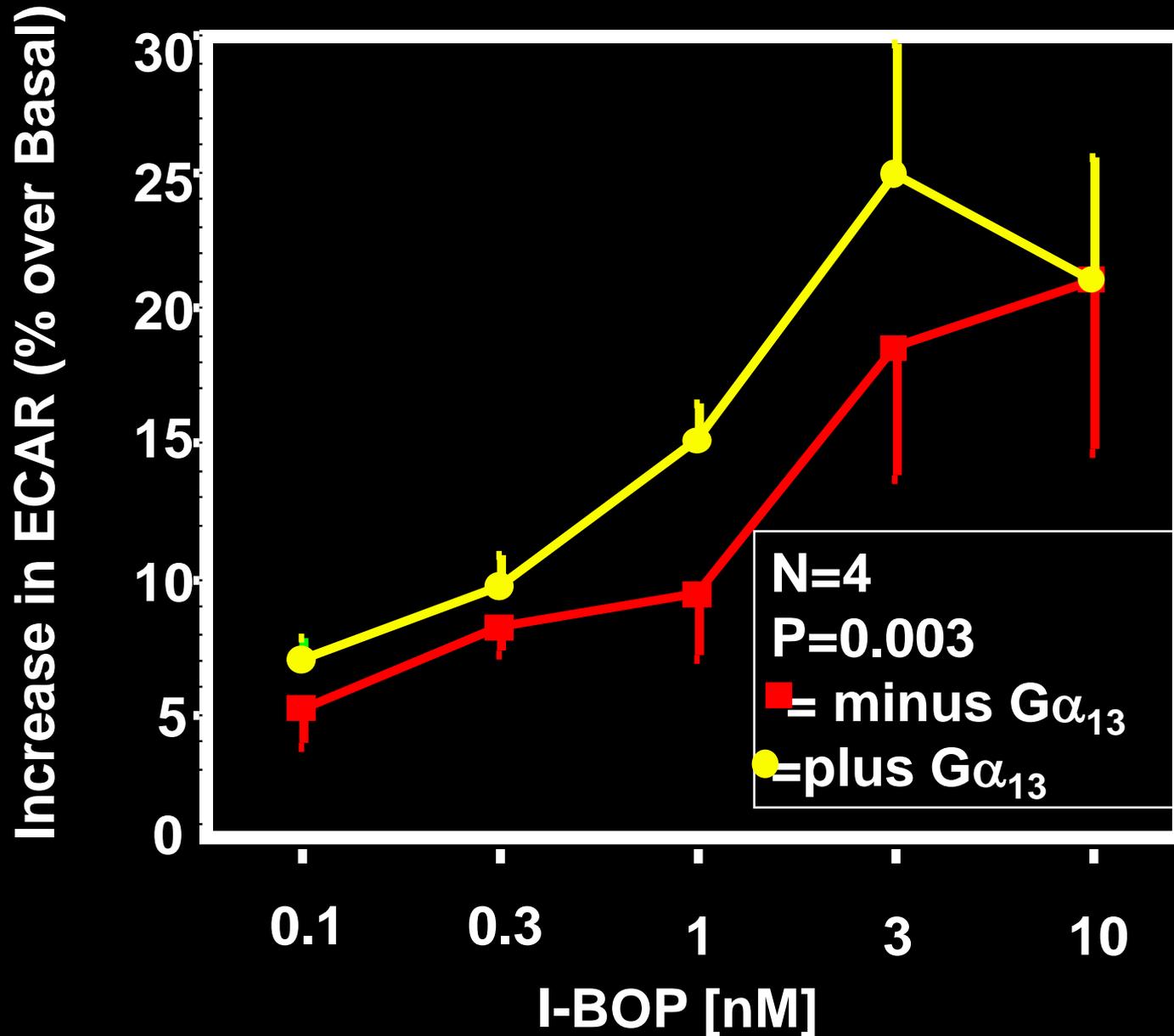
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L222I (n=6)	$1.7 \pm 0.2^*$	$4.2 \pm 0.9^+$
C223A (n=3)	$2.4 \pm 0.1^*$	$4.7 \pm 2.3^+$
C223S (n=6)	$2.0 \pm 0.2^*$	$2.8 \pm 0.4^+$

\* Compared to WT,  $P < 0.01$

+ Compared to WT,  $P < 0.05$

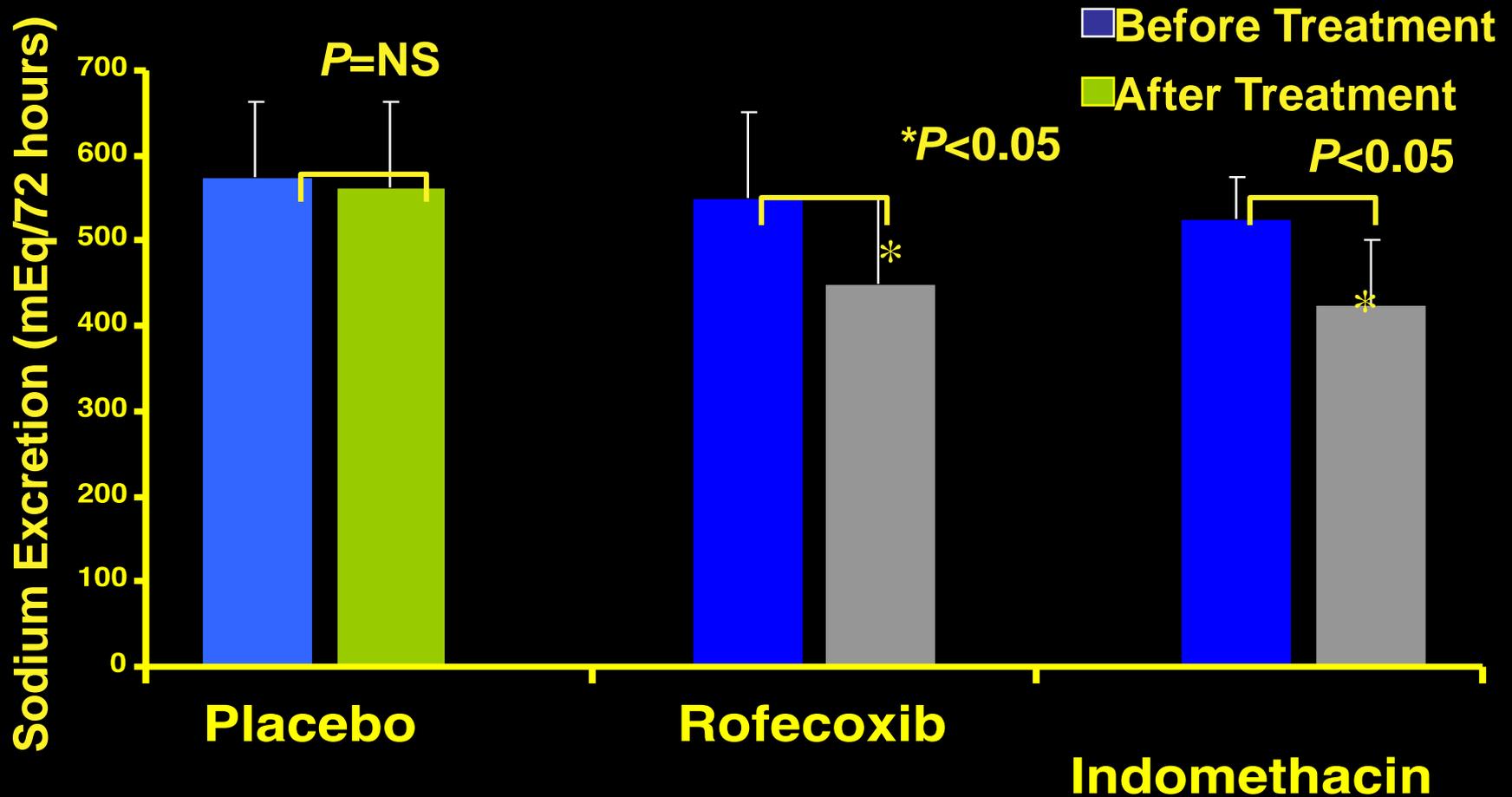
# ECAR FOR ALPHA ISOFORM OF TXA<sub>2</sub> RECEPTOR



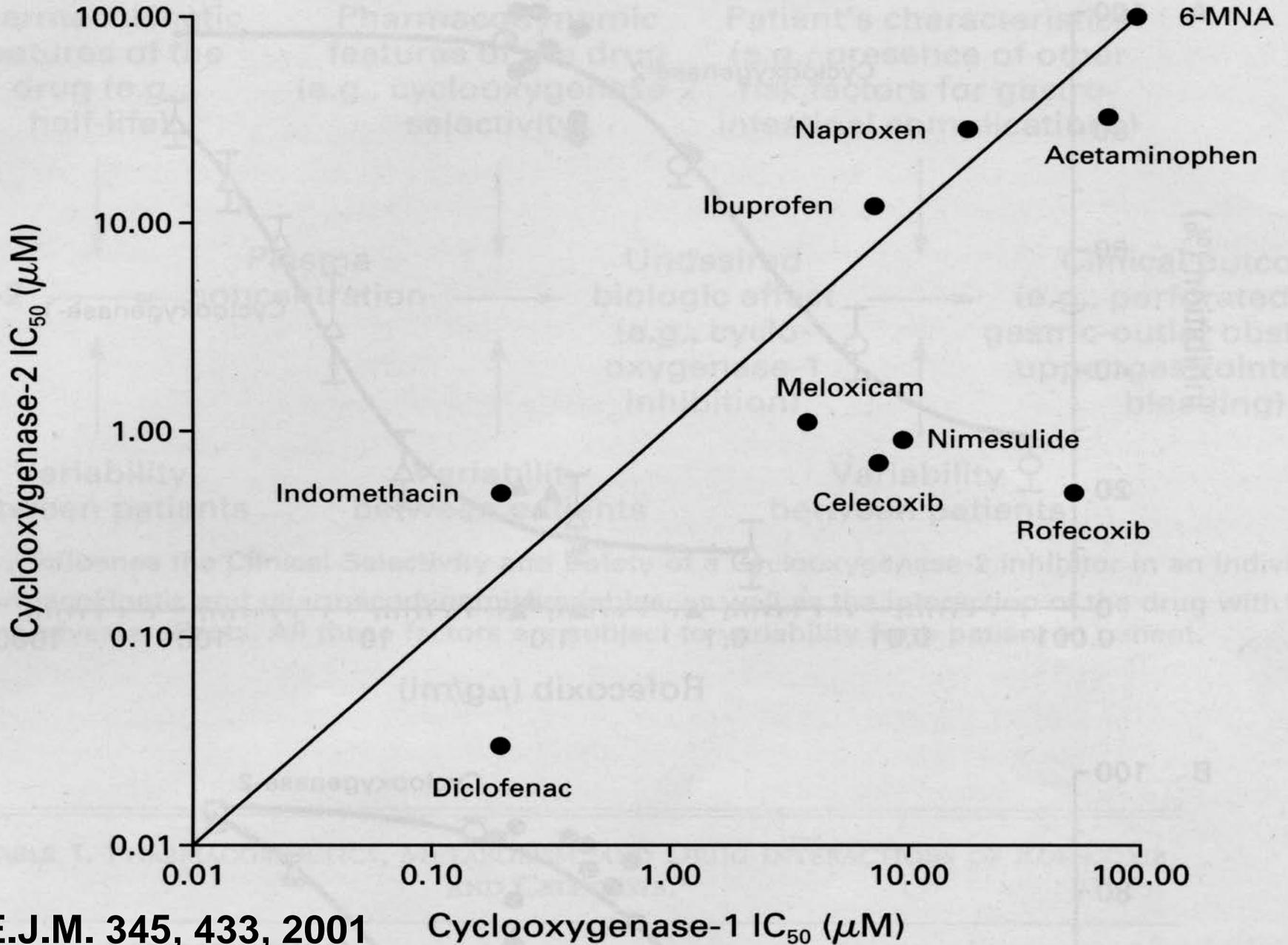
**QUOTING OTHER SCIENTISTS' PUBLICATIONS**

**GIVE THE FULL REFERENCE AT THE BOTTOM  
OF THE SLIDE**

# Renal Effects of Rofecoxib: 72 Hour Sodium Excretion



# Comparison of various drugs to inhibit COX-1 and COX-2



# **SUMMARY**

**LIST THE MOST IMPORTANT OBSERVATIONS**

# **CONCLUSION**

**SPECULATION, SIGNIFICANCE OF THE  
OBSERVATIONS AND/OR FUTURE DIRECTIONS**

# **ACKNOWLEDGEMENTS**

**DON' T FORGET TO THANK THE AUDIENCE**

**ASK IF THERE ARE ANY QUESTIONS**