Figure is clearly labeled and easy to read

Short description in italics

Concise explanation in plainfont.

Figure number in bold

Figure 1. *Binding Model of Nictotine in nAChR.* Nicotine makes a cation pi interaction with Trp B and a hydrogen bond with water.

Entire caption should be about as wide as the figure, and should only be a few sentences at most. The rest of the explanation can go in your report/paper.

Table number and title in bold and above table.
They are numbered independently of figures

Data in clear organized fashion. Gridlines not always necessary. Whatever makes the presentation clearest and easiest to follow

Optional: description or explanation can go below the table

Table 1. EC_{50} values, Hill coefficients, and relative efficacies*

| Agonist	Mutation	EC_{50}, nM	n_H
S-Nic	WT	120 ± 5	1.3 ± 0.05
	Leu	120 ± 3	1.5 ± 0.05
	Lah	800 ± 30	1.3 ± 0.04
S-MPP	WT	11,000 ± 400	1.7 ± 0.08
	Leu	14,000 ± 900	1.5 ± 0.11
	Lah	1,100 ± 40	1.5 ± 0.05
ACh	WT	360 ± 20	1.3 ± 0.07
	Leu	440 ± 20	1.3 ± 0.08
	Lah	3,000 ± 100	1.2 ± 0.04
CCh	WT	7,200 ± 80	1.3 ± 0.02
	Leu	7,900 ± 200	1.2 ± 0.03
	Lah	29,000 ± 800	1.2 ± 0.04
Ch	WT	140,000 ± 4,000	1.6 ± 0.06
	Leu	140,000 ± 20,000	1.2 ± 0.09
	Lah	150,000 ± 5,000	1.4 ± 0.05
Epi	WT	0.79 ± 0.04	1.4 ± 0.07
	Leu	0.58 ± 0.05	1.5 ± 0.15
	Lah	2.9 ± 0.06	1.3 ± 0.03

*All studies showed current values at +70 mV, normalized to −110 mV, ≤0.08, confirming the A2B3 stoichiometry. Errors are standard error of the mean. Epi is epibatidine. Mutations identified as "Leu" represent recovery of the wild-type receptor by nonsense suppression.
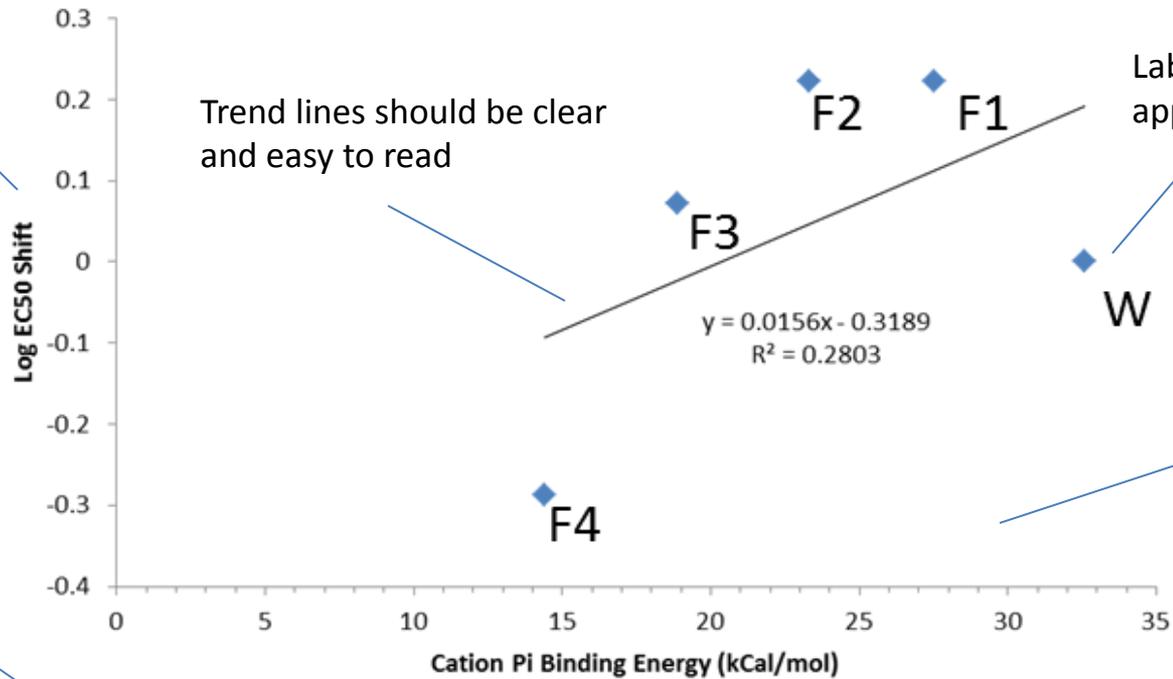
Figure 2. *Cation Pi plot at Trp B in α4β2 nAChRs*. This site does not show a trend indicative of a cation pi interaction between metanicotine and the tryptophan residue.

Good Plot
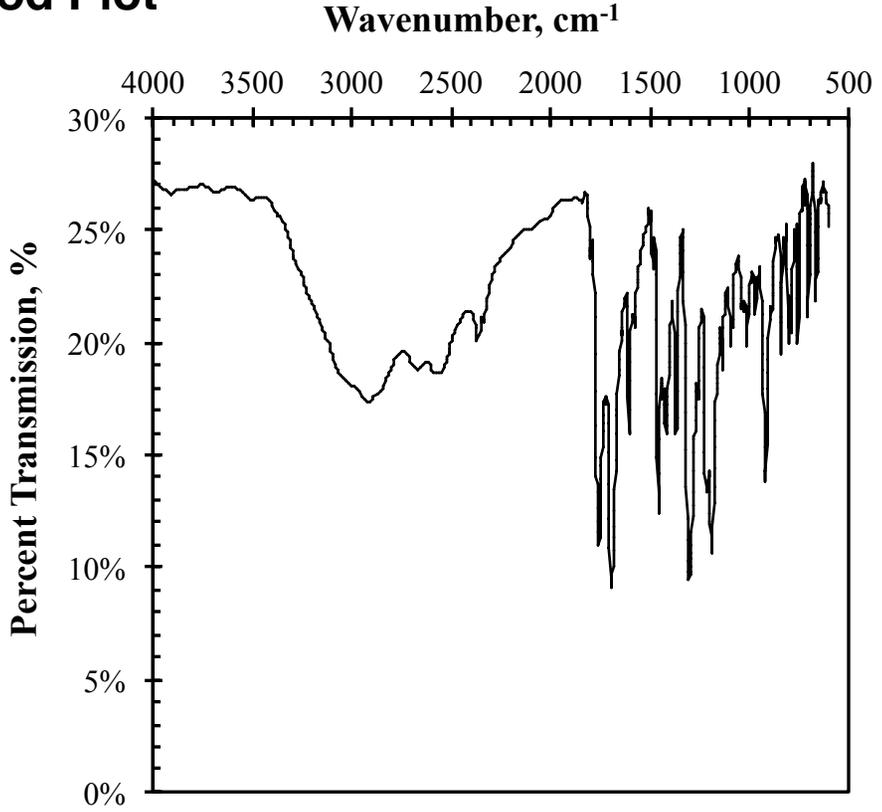
Wavenumber, cm^{-1}

Axes: X-axis on top, plotted from high-to-low wavenumber, scaled with a minimum of empty space on either side. Use appropriate number (500, 1000, 1500, etc.), use large font.

Y-axis on left, plotted with high % transmission on top. Use appropriate numbers, use large font.

Labels: Label your axes with a 1-2 word description and units, use large-bold font.

Plot Line: Use a thin black line. Do **<u>not</u>** use markers, colors,, dashes, or thick lines. These all obscure the data.

Plot Style: Make your plots square. Make your plots scaled to the data. Make formatted lines all the same shade of black/gray and line thickness. Use one font style throughout. Remove unnecessary items.

Ugly "Excelly" Plot

Thick line, obscures fine detail of data

Why are the formatting lines in gray, the numbers in black, and the plot line in blue? Just use black.

Empty space… zoom in

What is this box for?

Series1

Key shows only one item… delete

gridlines… why?

No axis labels, what do these numbers mean?

X-axis on the bottom and backwards