I. Overview of Session 5 S13: Figures and Tables

II. Figures (and Legends)

A. Submitting for publication (including thesis)

1. Format 8 and1/2 inches by 11

a. Additional formatting journal dependent

2. Possible figure presentation forms (Guharoy & Chakrabarti, 2005; Mergny et al., 2005)

http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=16221766

http://nar.oxfordjournals.org/cgi/content/full/33/16/e138

a. Scatter "x-y" plot

b. Histogram

c. Schematic (or related representation)

d. Spectra

3. Legends; submitted as group separately

a. Title 'sentence'

b. Additional description

c. Parts if applicable

i. Can include "additional description" specific to each part

d. Example (for Figure 1 from Mergny et al., 2005) of Legend by parts as would be in a manuscript (followed consecutively by the rest of the Legends for Figures 2 and 3), where all Legends together on one page; note as more Legends added would continue to fill another page of the manuscript!!

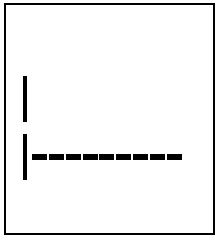
Figure Legends

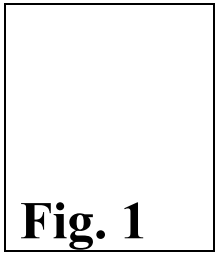
Figure 1. Example of a thermal difference spectrum *and related spectra*. The structure in this determination is the antiparallel 'basket' G-quadruplex form observed in Na^+ solution for the human telomere repeat sequence 5'-AGGG(TTAGGG)$_3$. (**A**) Circular dichroic spectrum, expressed as molar ellipticity. (**B**) UV absorbance spectra (expressed as molar extinction, M^{-1} cm^{-1}) at 20°C (solid line) and 90°C (dashed line). (**C**) Thermal difference spectrum resulting from the subtraction of the 20°C spectrum in (B) from the 90°C spectrum.

Figure 2. *Title sentence. Further detail (note, if a scatter plot one could write:* "Concentration of DNA duplex (ordinate) noted in mg per ml is plotted against time (abscissa) in hours)."

Figure 3. "Blah. Blah. …"

Also note on the manuscript hard copy we will put the label for each of the Figures on a separate sheet (same format after each figure) just following the specific Figure. Allows Editor to have Figure Label (e.g. Fig. 1) photocopy on back of the Figure.





4. Cite Figures, Tables and relevant equations. Note the paragraphs in Results adjacent to quote (see just below) in Guharoy and Chakrabarti (2005), where Figure citations in text are in ascending order (i.e. the numbers increase one integer starting w/ 1; same for Tables and equations).

"The striking similarity of the division of a specific interface into core and rim regions and the separation based on the degree of conservation of interface residues can be seen in Fig. 3. The use of Eq. **2**…"

B. Poster (Figure Legends that can include even more text than usual)

C. Oral presentation (limited Figure Legends)

III. Tables

A. No actual legends, title sentence & annotations; still cite in text e.g. Table 1 (do NOT abbreviate such as Tbl. 1)

1. See Guharoy and Chakrabarti (2005) Table 1 and example on next page

B. Submitting for publication 8 and1/2 inches by 11 format

IV. Useful examples of graphics related software

A. Excel (can even be modified by Paint or PhotoShop)

1. ChemDraw (or ISIS/Draw 'freeware' or its successors) for simple molec. structures http://bbruner.org/obc/isis.htm

B. More sophisticated software e.g. SigmaPlot or GraphPad

V. Actual Figures and Table

VI. Job Application with Cover Letter and Resume Assignment H/O)

Table II. Percent accuracy comparison for SABLE2 and homology-based parameter filters (and the associated SVM).

PDB IDs	No. of Res.	No. of Strongly Hydro-phobic Res. (SHP)	No. of Patch Res.	No. of SHP Patch Res. (SHPPR)	Surface Acce-ssible SHPPR	Core SHPPR	Prediction Accuracy of SHPPR							
							Homology				SABLE2			
							Binary		Buried		Binary		Buried	
							Freq	Per-cent	Freq	Per-cent	Freq	Per-cent	Freq	Per-cent
1OKI	210	62	39	6	5	8	3	60.00	5	62.50	1	20.00	8	100.00
1PNE[a]	139	46	14	10	5	5	0	0.00	3	60.00	3	60.00	5	100.00
1UGM	125	41	18	7	1	10	1	100.00	7	70.00	0	0.00	10	100.00
1YPQ	135	43	15	9	6	6	0	0.00	6	100.0	6	100.0	3	50.00
1LS9	91	27	12	4	3	2	0	0.00	2	100.0	0	0.00	2	100.00
1BTN	106	32	9	0	0	0	0	n/a	0	n/a	0	n/a	0	n/a
1CSG	119	36	13	10	5	7	2	40.00	6	85.71	3	60.00	4	57.14
1REC	190	59	6	6	4	2	0	0.00	2	100.0	0	0.00	1	50.00
1CMK	350	124	12	10	3	9	0	0.00	7	77.78	1	33.33	7	77.78
1VIN	236	101	6	2	0	4	0	n/a	4	100.0	0	n/a	4	100.00
1CHK	238	65	6	3	0	4	0	n/a	4	100.0	0	n/a	3	75.00
1OPR	213	73	22	3	2	2	0	0.00	1	50.00	1	50.00	1	50.00
2HFT[b]	202	62	19	10	2	11	0	0.00	10	90.90	1	50.00	6	54.54
1CEO	340	128	8	2	1	6	0	0.00	6	100.0	0	0.00	6	100.00
1WHI[b]	122	41	7	6	4	2	0	0.00	2	100.0	0	0.00	2	100.00
Total :	2772	940	206	88	41	78	6	14.63	65	83.33	16	39.02	62	79.49

[a] In Manesh and original 10-set.

[b] Dual patches; others have single patches.