ESRF	**Experiment title:** Cambridge MRC Block Allocation Group	**Experiment number:** LS1669
Beamline: ID14-1/14-2	**Date of experiment:** from: 20 Apr 00 to: 22 Apr 00	**Date of report:** 28 Jul 00
Shifts: 3	**Local contact(s):** Hasan Belrhali	*Received at ESRF:*

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Report:

1. Importin-beta – FxFG nucleoporin complex: We collected a 2.8 Å native data set for P212121 crystals (a second crystal form) of a complex between residues 1-442 of human importin-beta and the FF5 FxFG repeat construct of yeast Nsp1p. The lattice constants were a=67.11 Å, b= 125.35 Å, c=266.67 Å. The data was much less anisotropic than for the P21212 crystal form and was 94.7% complete to 2.8 Å. A molecular replacement solution has been obtained and is currently being refined.

Data statistics (highest shell):
Rmerge 9.2% (38.7%); I/sigma 5.5 (1.7); mult 3.9 (3.4)
Refinement (current, partial):
R-factor 24.9%; R-free 29.2%

2. Mog1p mutant: We also collected a complete 1.85Å native data set for a Mog1p point mutant E65A and obtained a fully-refine structural solution by molecular replacement.

Data statistics (highest shell)
Rmerge 4.6% (7.6%), I/sigma 6.4 (8.9), completeness 99.9% (99.9%), multiplicity 3.5 (3.6)
Refinement:
R-factor 20.9% (24.9%), bond rms 0.011 Å, angle rms 1.5 degrees

3. 1.6Å data for new P21 crystal form of NTF2:
Data set is currently being refined.

4. Msp A79K mutant data set:
We collected a complete data set but twinning has prevented a final MR solution.