Supplementary Data

Determining the architectures of macromolecular assemblies

Frank Alber*, Svetlana Dokudovskaya*, Liesbeth M. Veenhoff*, Wenzhu Zhang, Julia Kipper, Damien Devos, Adisetyantari Suprapto, Orit Karni-Schmidt, Rosemary Williams, Brian T. Chait, Michael P. Rout, and Andrej Sali
Nature 450, 683-694, 2007.

The molecular architecture of the nuclear pore complex

Frank Alber*, Svetlana Dokudovskaya*, Liesbeth M. Veenhoff*, Wenzhu Zhang, Julia Kipper, Damien Devos, Adisetyantari Suprapto, Orit Karni-Schmidt, Rosemary Williams, Brian T. Chait, Andrej Sali, and Michael P. Rout
Nature 450, 695-701, 2007.

Localization volumes of all nups in .mrc format:

download and save .mrc files with rigth mouse button.

all localization volumes combined 456 proteins

NUP192 16 protein copies
NUP188 16 protein copies
NUP170 16 protein copies
NUP159 8 protein copies
NUP157 16 protein copies
POM152 16 protein copies
NUP133 16 protein copies
NUP120 16 protein copies
NUP116 8 protein copies
NUP1 8 protein copies
NUP100 8 protein copies
NIC96-1 16 protein copies
NIC96-2 16 protein copies
NPS1-1 16 protein copies
NPS1-2 16 protein copies

NUP85 16 protein copies
NUP84 16 protein copies
NUP82-1 8 protein copies
NUP82-2 8 protein copies
NUP145C 16 protein copies
NDC1 16 protein copies
GLE1 16 protein copies
NUP60 8 protein copies
NUP59 16 protein copies
NUP57 16 protein copies
NUP53 16 protein copies
NUP145N-1 8 protein copies
NUP145N-2 8 protein copies
NUP49 16 protein copies
NUP42 8 protein copies
GLE2 16 protein copies
SEH1 16 protein copies
POM34 16 protein copies
SEC13 16 protein copies

Contact Frequency Information

Contact frequencies of all pairs of nups:

CONTACTFREQUENCIES.txt

Contact frequencies of specific nups sorted by their values:

NUP192
NUP188
NUP170
NUP159
NUP157
POM152
NUP133
NUP120
NUP116
NUP1
NUP100
NIC96
NPS1
NUP85
NUP84
NUP82

NUP145C
NDC1
GLE1
NUP60
NUP59
NUP57
NUP53
NUP145N
NUP49
NUP42
GLE2
SEH1
POM34
SEC13

Contact frequencies that are statistically significant increased (P-val <0.001) from their initial value (based on all composites):

increased frequencies

Contact frequencies that are statistically significant reduced (P-val <0.001) from their initial value (based on all composites):

reduced frequencies

Software

To enable the computations described in these papers, we developed the RESTRAINER module that will be available as part of the Integrative Modeling Platform (IMP) software (http://salilab.org/imp/).