

Supplemental Materials

Molecular Biology of the Cell

Montaño-Gutierrez et al.

Supplemental information for

**Nano Random Forests to mine protein complexes and their relationships
in quantitative proteomics data**

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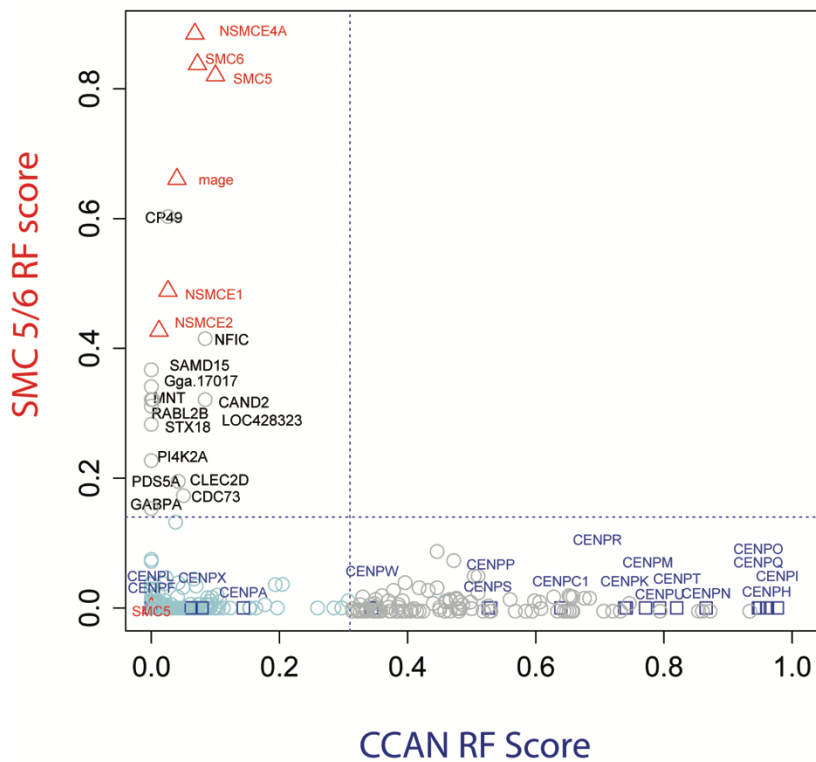
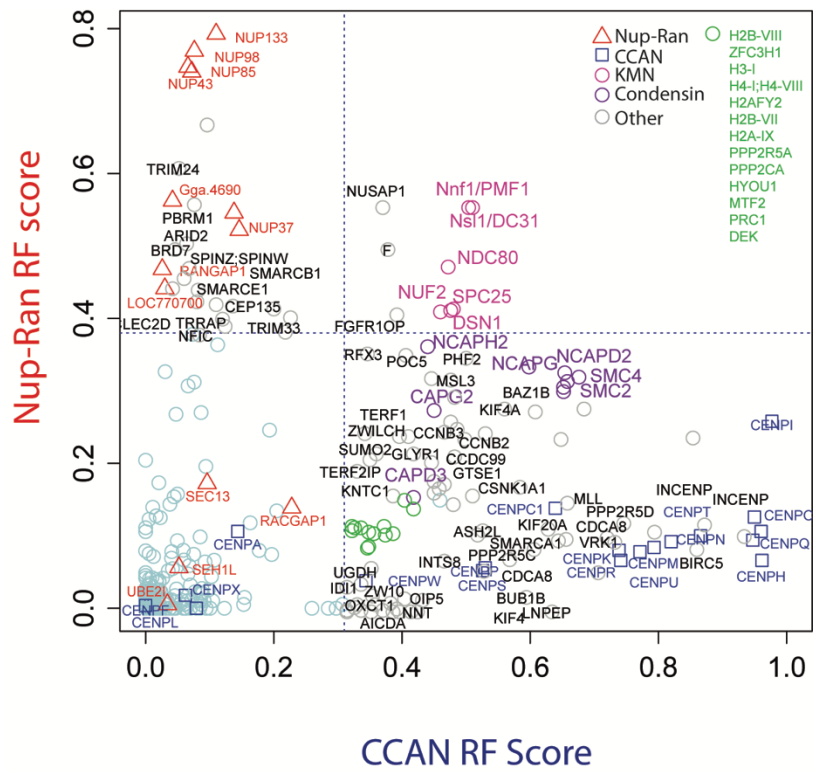
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Figure S1. Expanded version of 2D interdependency plots in Fig 3C(A) and 3D(B) shows proteins with functional association to either complex. A. Expanded version of 3C. Green list corresponds to proteins (histones) in green circle cluster. B. Expanded version of 3D. Names were slightly moved to avoid overlap.

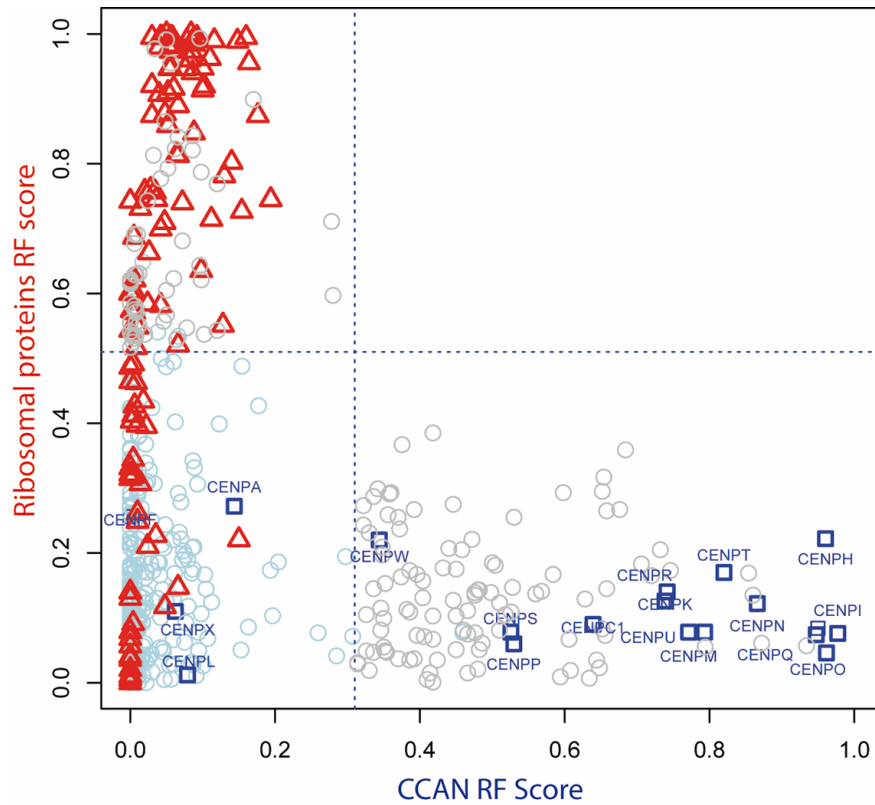
Figure S2. 2D interdependency plot between the Constitutive Centomere-Associated Network (CCAN, X axis, squares) and the ribosomal protein group (Y axis, triangles).

Table S1. nanoRF proteomics results table. Grey columns: the training factors used for each complex's nanoRF where 'T'= member of a complex, 'F'= hitchhiker, and '?'= unknown, proteins that are uncalled as any specific class. Orange Columns: the SILAC ratio columns used from the mitotic chromosome proteomics experiments, b) Colourless columns: each RF scores for each complex. Red-coloured entries are proteins that surpass each RF's cutoff score—i.e. they are significantly associated with the complex.

Table S2. Information about protein complexes and associations. Relevant information about the complex composition and statistics (MCC, AUC, RF cutoffs, hypergeometric tests).



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Ribosome class, significant (Δ) .-

RPS15	RPL13	RPL35	RPL23	MRPS17	RPS28	RPL39	
RPS21	RPL8	RPL7	RPS17	MRPS18A	RPL22	RPS25	MRPS5
RPS15A	RPL7A	RPL12	RPS3	MRPS30	RPL37	RPS13	MRPL19
RPS24	RPL27A	MRPL2	MRPL38	MRPS25	RPS12	RPS7	MRPL3
RPS10	RPL9	RPLP1	MRPS11	MRPS26	RPL35A		
RPL5	RPL31	MRPS22	MRPL18	RPS8	RPL23A		
RPL10	RPL17	RPS3A	MRPL44	RPS20	MRPS27		
RPL36	RPL15		RPLP0	MRPL46	MRPL48		
RPS29	RPS14		RPL11	MRPL15	RPSA		
RPS11	RPL26L1;RPL26		RPL27	RPS23	MRPS16		
			RPL6	RPL24	RPS4X;RPS4		

Ribosome class, significant associated .-

C2H18orf8	LOC100858795	REV3L
GNB2L1	SERBP1	DCAF12
EAF2	GTPBP10	Gga.22411
LOC100858238	RC.JMB04_14e22	HADHB
PTCD3	PWP1	PDCD2
EDEM3	LLPH	COX6C
NAP1L1	GLUD1	RG9MTD1
SRP14	GNL3	FILIP1
KIF13A	Gga.53205	YTHDC1
DNAJC21	NFIX	FECH
GOLIM4	SEC23IP	TMEM111
LOC100859914	RPF1	UBQLN1
GLUD1	MBD4	SMN
	MINA	