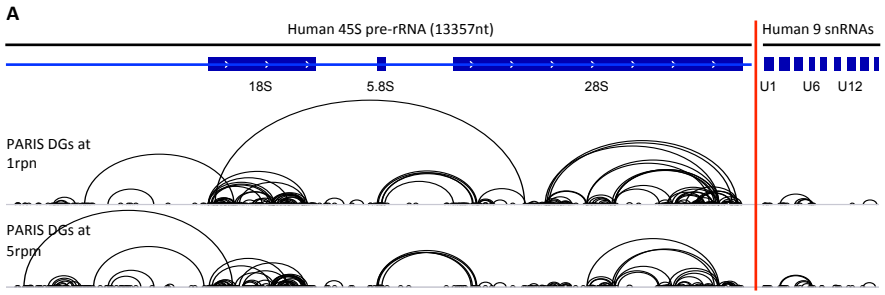
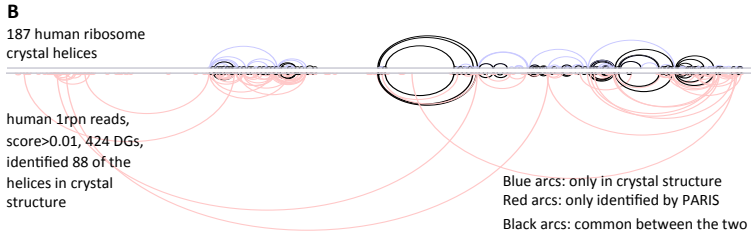
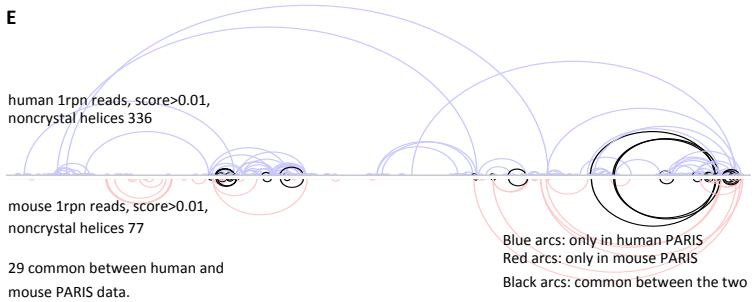
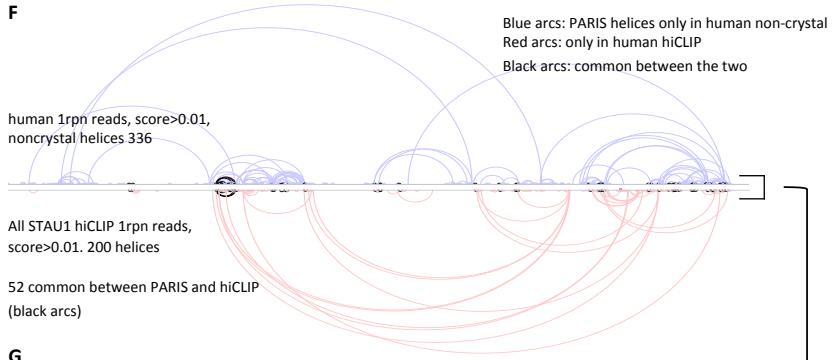
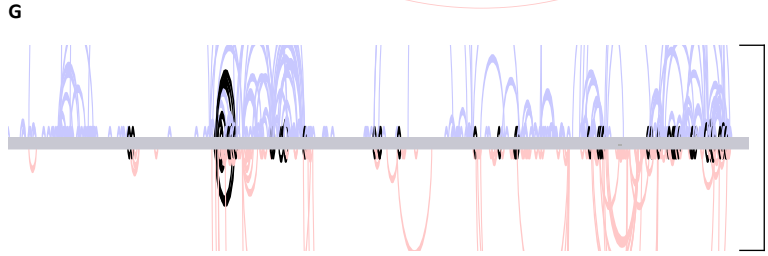
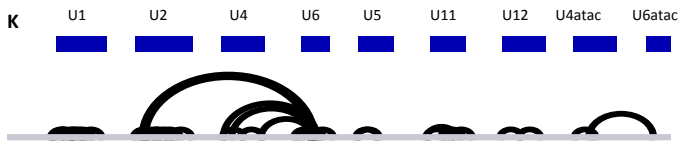

A
Human 45S pre-rRNA (13357nt)
Human 9 snRNAs
18S
5.8S
28S
U1
U6
U12
PARIS DGs at 1rpn
PARIS DGs at 5rpm

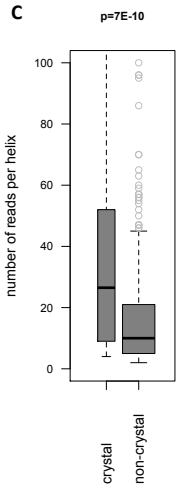

B
187 human ribosome crystal helices
human 1rpn reads, score>0.01, 424 DGs, identified 88 of the helices in crystal structure
Blue arcs: only in crystal structure
Red arcs: only identified by PARIS
Black arcs: common between the two

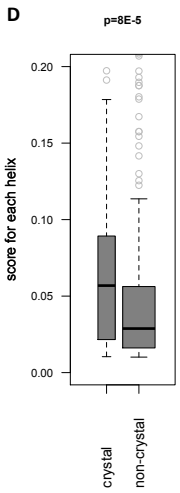

E
human 1rpn reads, score>0.01, noncrystal helices 336
mouse 1rpn reads, score>0.01, noncrystal helices 77
29 common between human and mouse PARIS data.
Blue arcs: only in human PARIS
Red arcs: only in mouse PARIS
Black arcs: common between the two

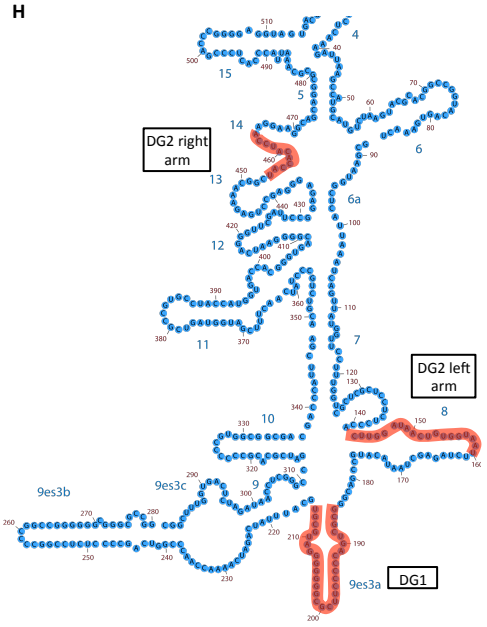

F
Blue arcs: PARIS helices only in human non-crystal
Red arcs: only in human hiCLIP
Black arcs: common between the two
human 1rpn reads, score>0.01, noncrystal helices 336
All STAU1 hiCLIP 1rpn reads, score>0.01. 200 helices
52 common between PARIS and hiCLIP (black arcs)

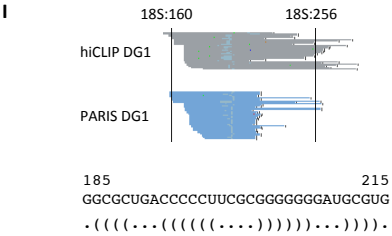

G

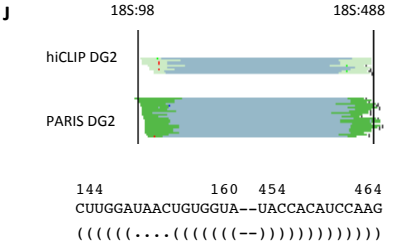

K
U1
U2
U4
U6
U5
U11
U12
U4atac
U6atac


C
p=7E-10
number of reads per helix
100
80
60
40
20
0
crystal
non-crystal


D
p=8E-5
score for each helix
0.20
0.15
0.10
0.05
0.00
crystal
non-crystal


H
DG2 right arm
DG2 left arm
DG1
9es3b
9es3c
9es3a


I
18S:160
18S:256
hiCLIP DG1
PARIS DG1
185
215
GGCGCUGACCCCCUUCGCGGGGGGGAUGCGUG
.((((...((((((....))))))...)))).


J
18S:98
18S:488
hiCLIP DG2
PARIS DG2
144
160
454
464
CUUGGAUAACUGUGGUA--UACCACAUCCAAG
((((((....(((((((--)))))))))))))