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Research Interests

RNA folding and structure, RNA post-transcriptional regulation, Pol II regulation

Strengths or Unique Resources

Chemical probing technologies for measuring RNA structures in cells

Type of collaborator you seek

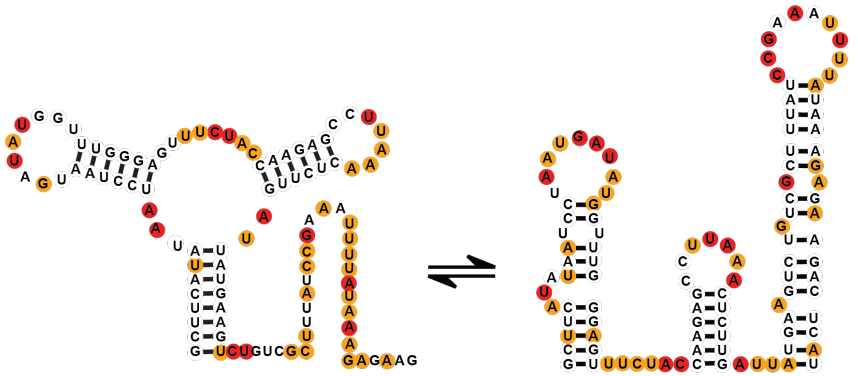
Anyone interested in relationship between RNA folding and function

Publication List (link & qr code)

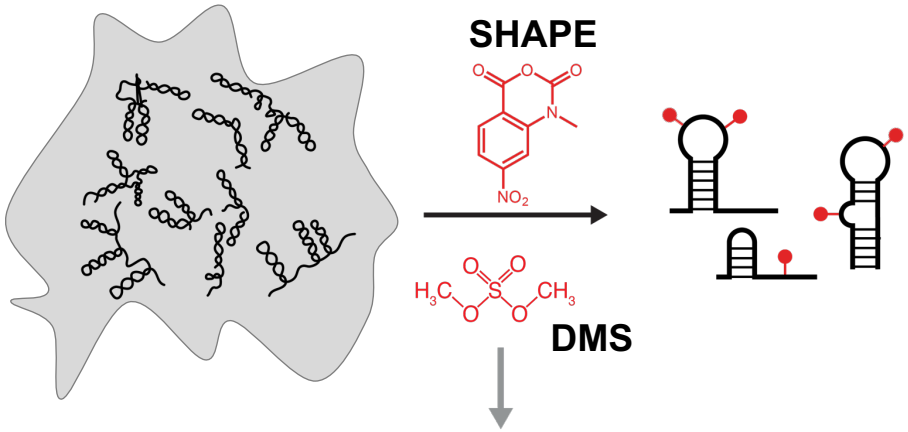
Lab or Faculty website (link & qr code)

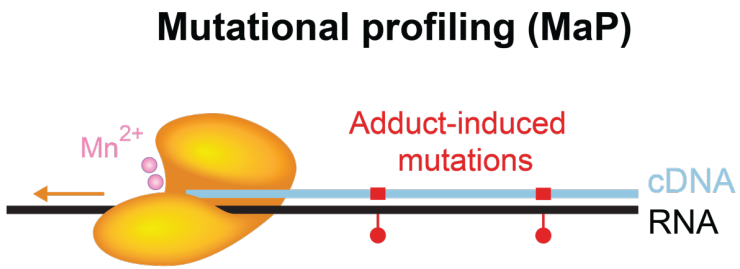
mustoelab.org

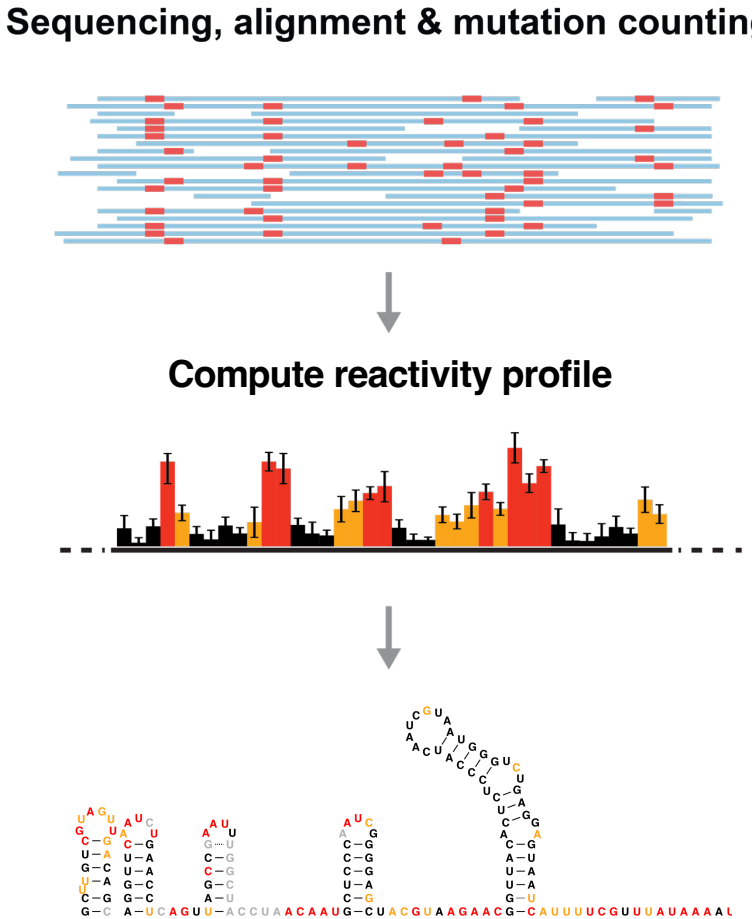
LinkedIn (link & qr code)



Chemical probing and Mutational Profiling (MaP) enables high-throughput measurement of RNA structure

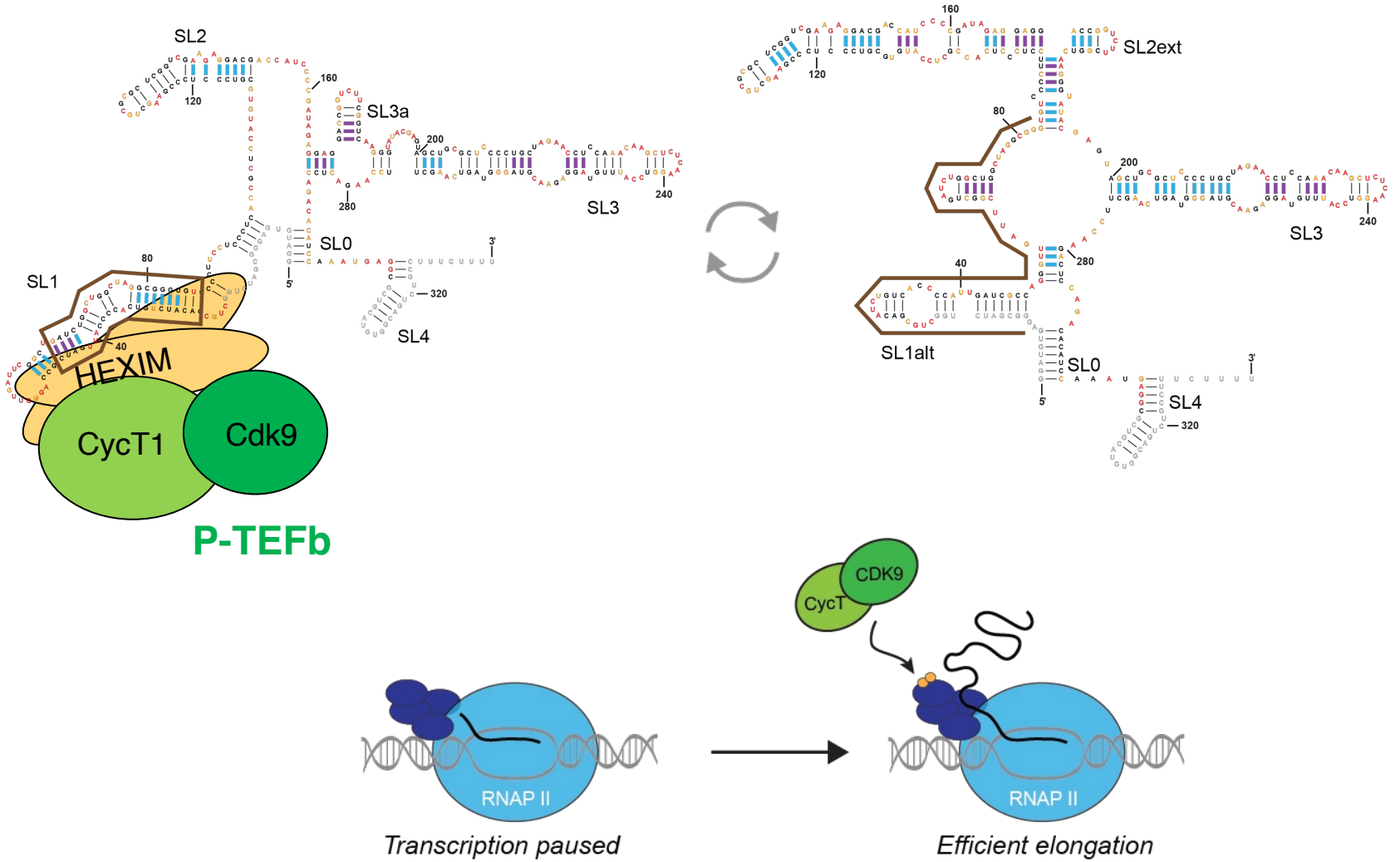


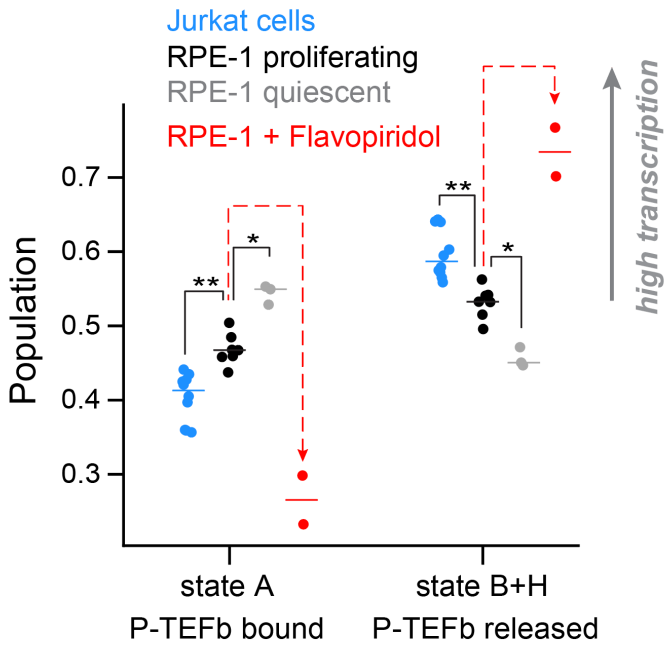




Siegfried et al, *Nat. Methods* (2014)
Homan et al, *PNAS* (2014)
Weeks, *Biopolymers* (2015)

Single-molecule chemical probing reveals that human 7SK RNA functions as a structural switch to bind and sequester P-TEFb





Olson et al, *Mol Cell* (2022)