

PUBLICATIONS

First author:

Busan S, Weidmann CA, Sengupta A, Weeks KM. Guidelines for SHAPE reagent choice and detection strategy for RNA structure probing studies. *Biochemistry* (2019). [pdf](#)

Busan S, Weeks KM. Accurate detection of chemical modifications in RNA by mutational profiling (MaP) with ShapeMapper 2. *RNA* (2018). [pdf](#)

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Second author:

Giannetti CA, **Busan S**, Weidmann CA, Weeks KM. SHAPE probing reveals human rRNAs are largely unfolded in solution. *Biochemistry* (2019). [pdf](#)

Mustoe AM, **Busan S**, Rice GM, Hajdin CE, Peterson BK, Ruda VM, Kubica N, Nutiu R, Baryza JL, Weeks KM. Pervasive Regulatory Functions of mRNA Structure Revealed by High-Resolution SHAPE Probing. *Cell* (2018). [pdf](#)

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Other:

Grayeski PJ, Weidmann CA, Kumar J, Lackey L, Mustoe AM, **Busan S**, Laederach A, Weeks KM. Global 5'-UTR RNA structure regulates translation of a SERPINA1 mRNA. *Nucleic Acids Res* (2022). [pdf](#)

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Smola MJ, Rice GM, **Busan S**, Siegfried NA, Weeks KM. Selective 2'-hydroxyl acylation analyzed by primer extension and mutational profiling (SHAPE-MaP) for direct, versatile and accurate RNA structure analysis. *Nat Protoc* (2015). [pdf](#)

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Li C, Pleil KE, Stamatakis AM, **Busan S**, Vong L, Lowell BB, Stuber GD, Kash TL. Presynaptic inhibition of gamma-aminobutyric acid release in the bed nucleus of the stria terminalis by kappa opioid receptor signaling. *Biol Psychiatry* (2012). [pdf](#)