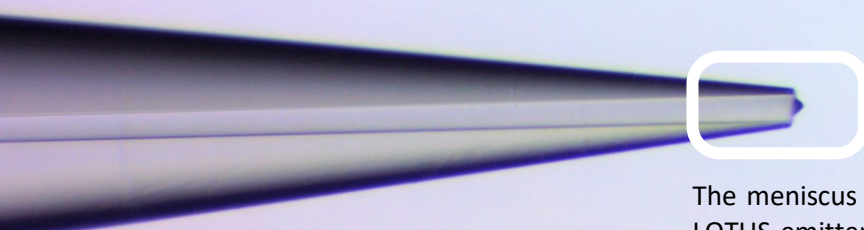


LOTUS Sharp Singularity™

"Water surrounds the lotus flower, but does not wet its petals"
-- Buddha --



The meniscus is anchored at the inner diameter of the LOTUS emitter because its surface is hydrophobic. This produces less evaporation, lower voltages, better ionization efficiency, and a more consistent spray.

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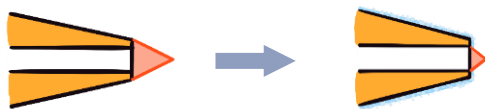
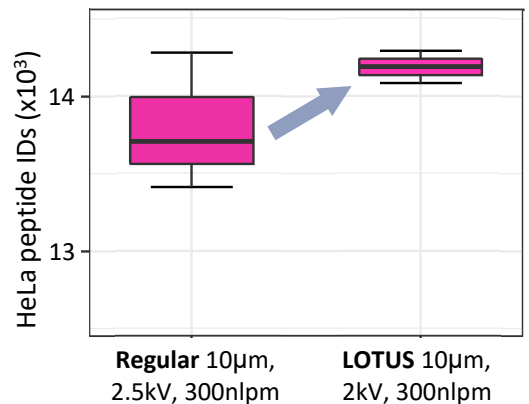
More Peptide & Protein IDs, more consistently

LOTUS vs Regular 10 µm Sharp Singularity Emitters comparison*:

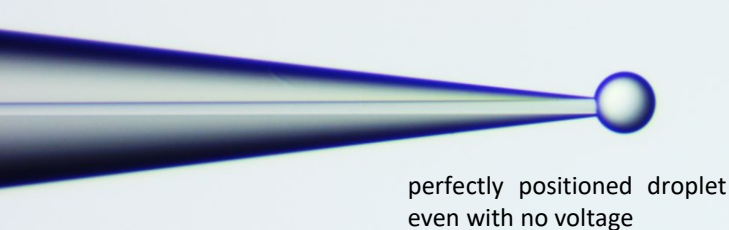
- **3.3% more peptide IDs,**
- **5.5 fold reduction peptide ID variability**

*Method: HeLa 50 ng injections, Ultimate 3000; Exploris 480, 75µm-200mm C18 1.7µm Waters Column. All emitters were conditioned by flushing two runs before analysis.

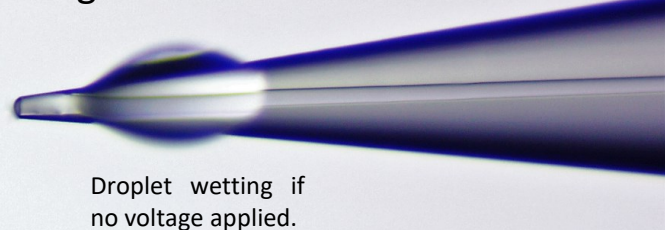
The LOTUS emitters lock the nano-electrospray meniscus inside the ID of the emitter. For the same emitter geometry, this results in a smaller meniscus, with a more stable anchorage.



LOTUS:



Regular:



The Sharp Singularity™
nESI Emitters