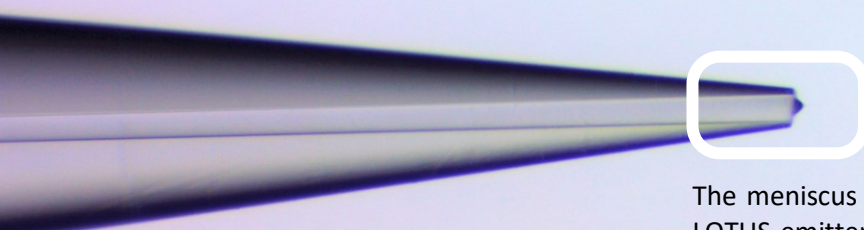
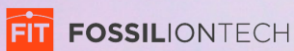


# LOTUS Sharp Singularity™

*"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.



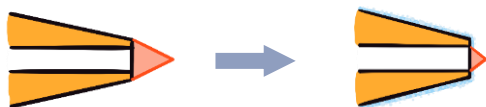
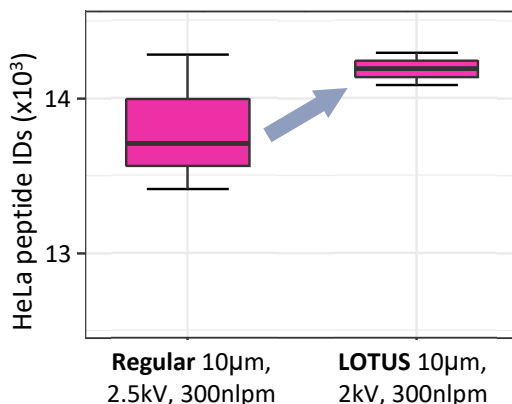
## More Peptide & Protein IDs, more consistently

LOTUS vs Regular 10 μm Sharp Singularity Emitters comparison\*:

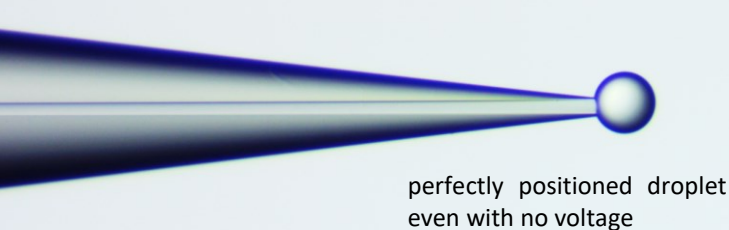
- 3.3% more peptide IDs,
- 5.5 fold reduction peptide ID variability

\*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:

