

# nanoLiter Cool Wave™ Dispenser for MS Sample Intro/Prep; Fluidics R&D & More!

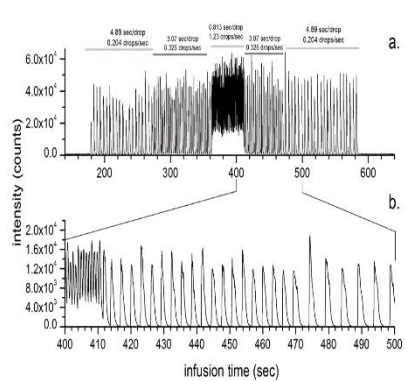
ESI

ONE DEVICE FOR BOTH TECHNIQUES !

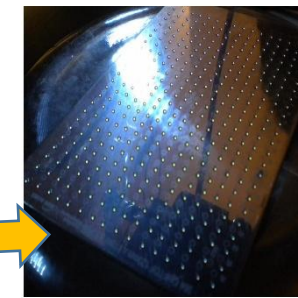
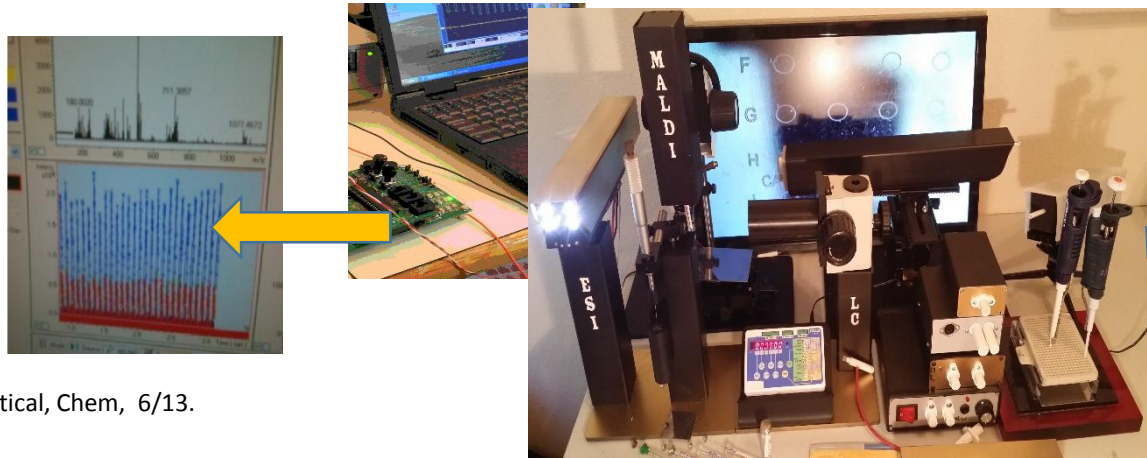
MALDI

NEW 21<sup>st</sup> century sample handling, prep fluidic tool set for ESI, MALDI, Sample Prep and R&D and other simple fluidic apps.

nLs yields **major** sensitivity, reproducibility increases for ESI, MALDI with the SAME device! Dispense **viscous** liquids, cells, blood, serum, polymers into/near any ESI ! nanoLiter Cool Wave is the lowest cost, fastest, most efficient and versatile, ESI sample introduction, MALDI dispensing tool in the world, literally! Shoot droplets in a line like this.....! Get it?



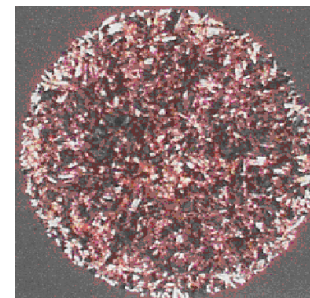
G. Groenewold, et al, INL, Analytical, Chem, 6/13.



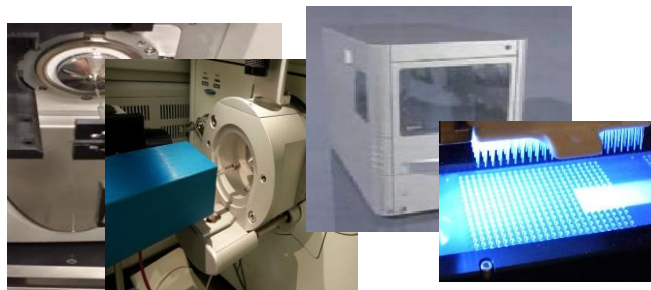
1.0 msec!



Ca. 35 nLs



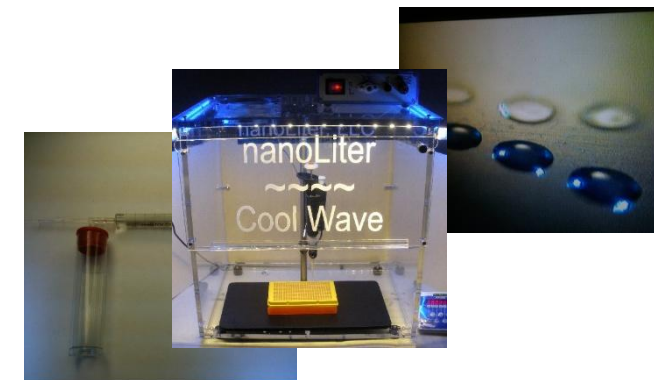
J. Harmon et al, USF



Fastest, most efficient MS sample introduction/prep. in world, literally!  
 Makes excellent MALDI, SIMS, LDI crystals. See M. Gross, et al JASMS 08/08.  
 Morph your **pump** into an ion source !!! that can also be a non-touch dispenser!!!  
 Shoot cells, liquids into your MS. Do droplet research. Is ESI 100x more sensitive?  
**100% IBF ESI/LC/MS is more sensitivity than nano-Spray ! ASMS 2014 ,in press.**

Save precious samples, expensive labeled standards.  
 Make experiments safer, produce 10-100x less waste. IBF is GREEN tech!  
 With full purchase, we often consult and train.

**License IP, including international positions available.**



MS syringes with 100 removable tips, \$149.00.  
 Ask about Pipette/MS. Explore LO 3D printing.