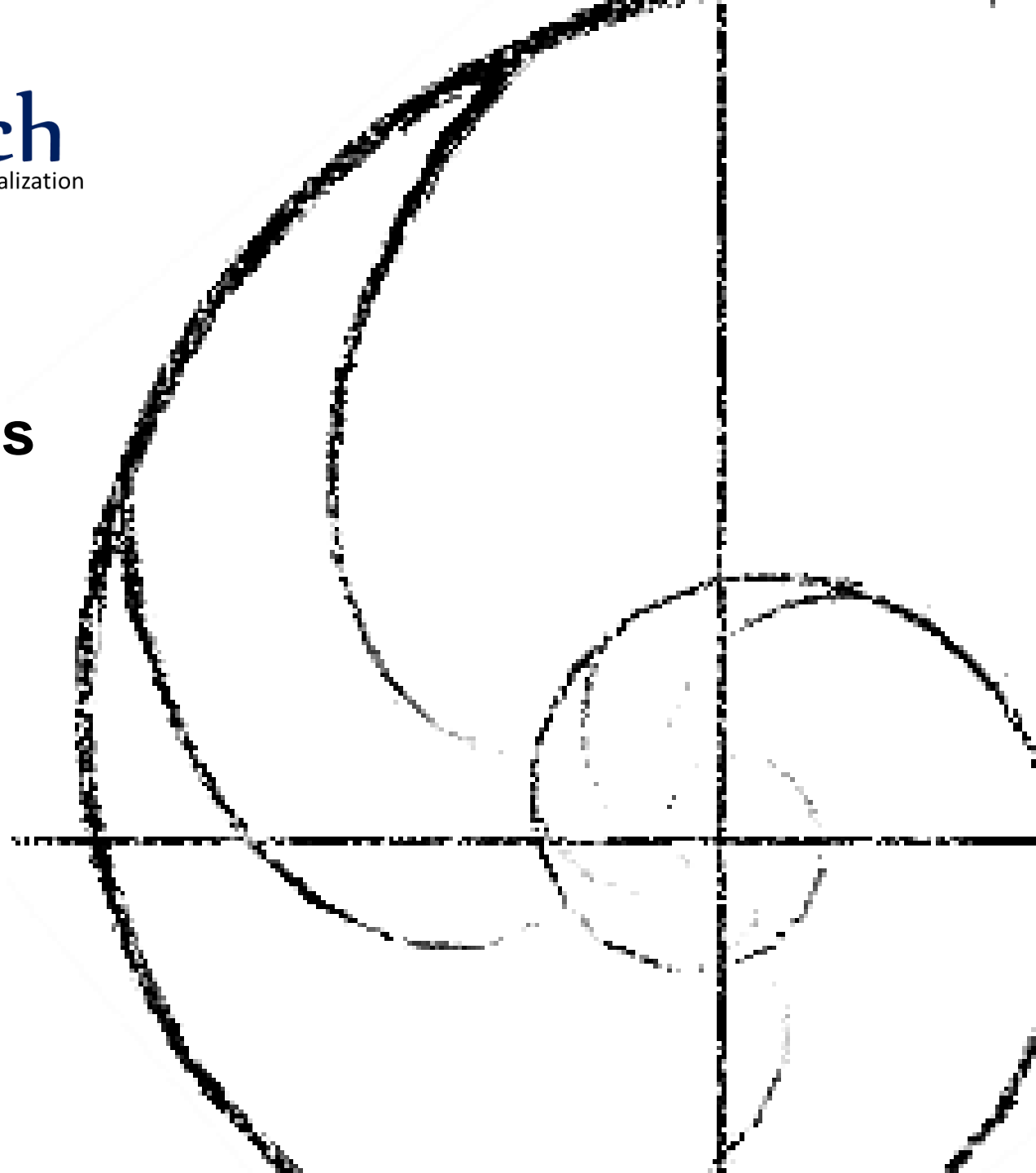




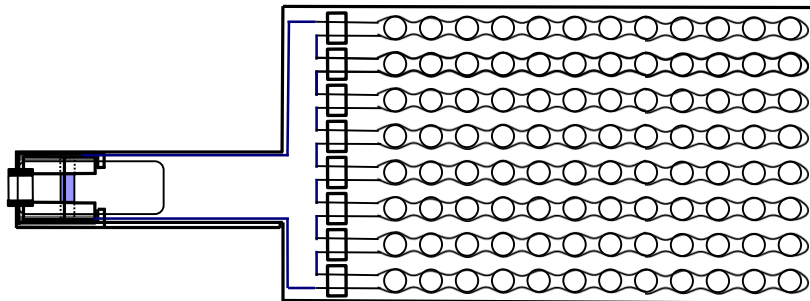
Alluvia Process

(Patent Pending)



START

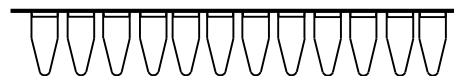
(Plate Loading Manifold (PLM) Top view)



(PLM Side view)

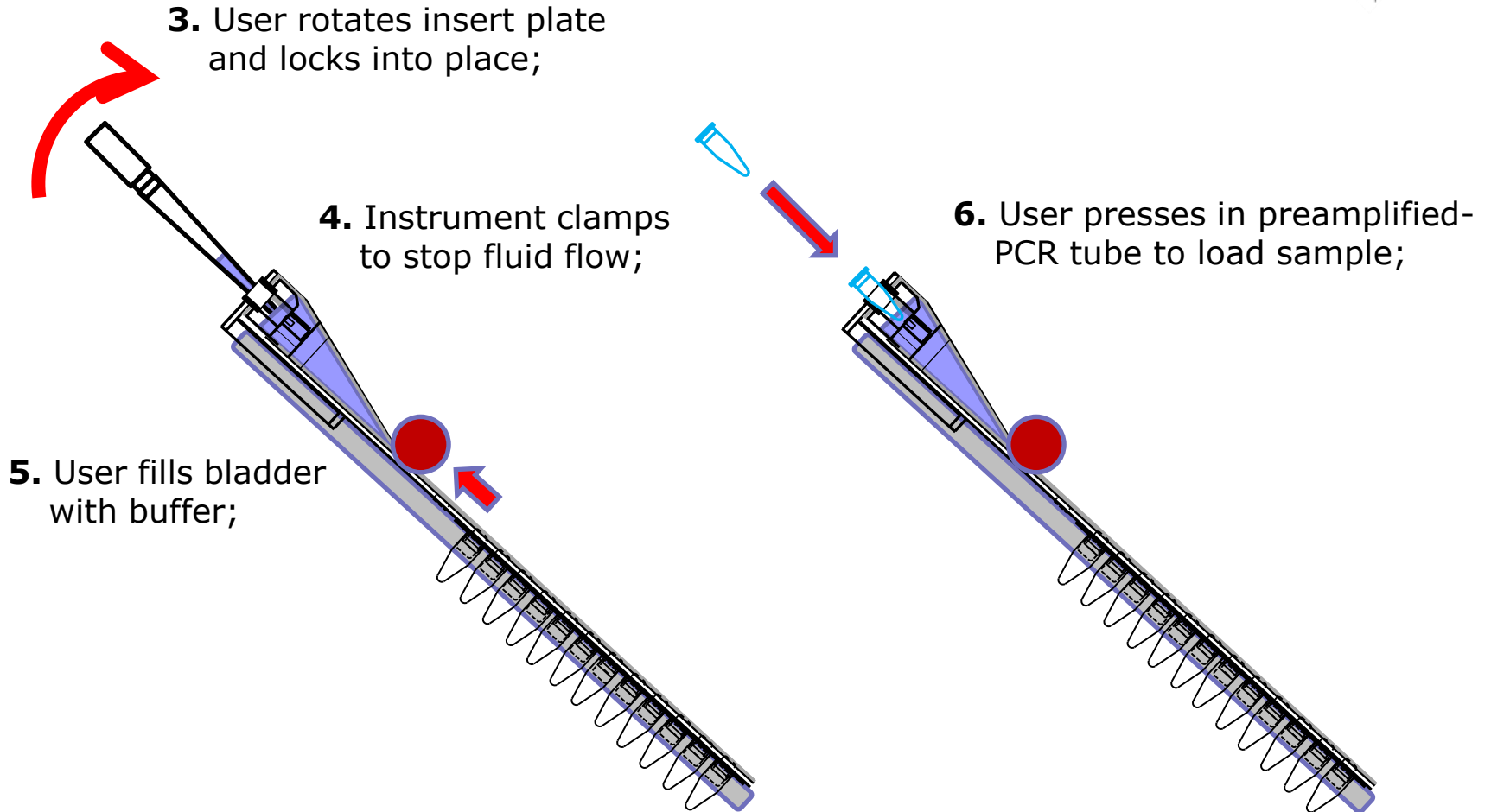


- 1.** Attach Alluvia PLM consumable to 96-well plate

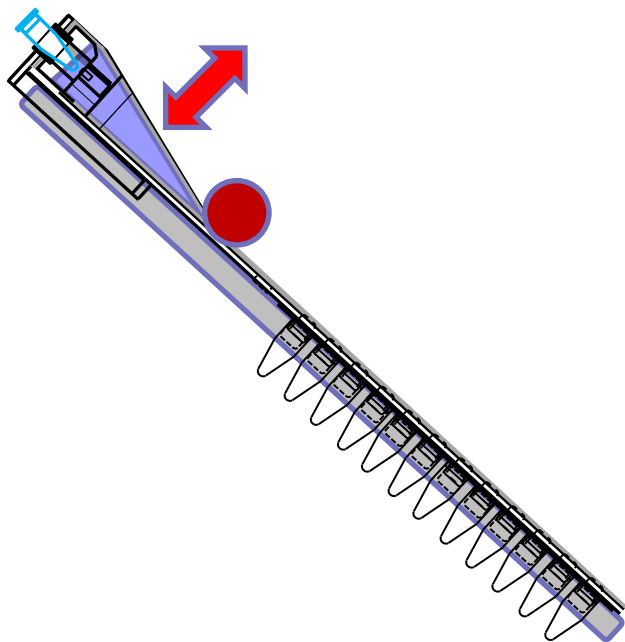


- 2.** Place PLM and plate on Alluvia instrument

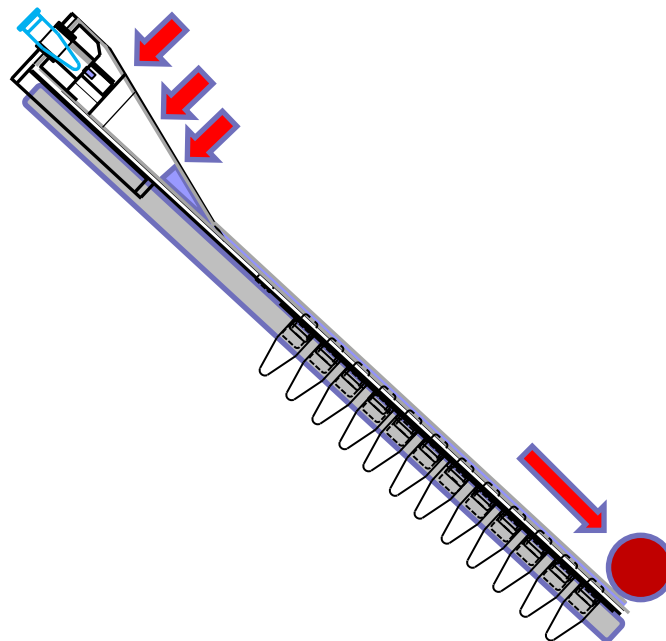




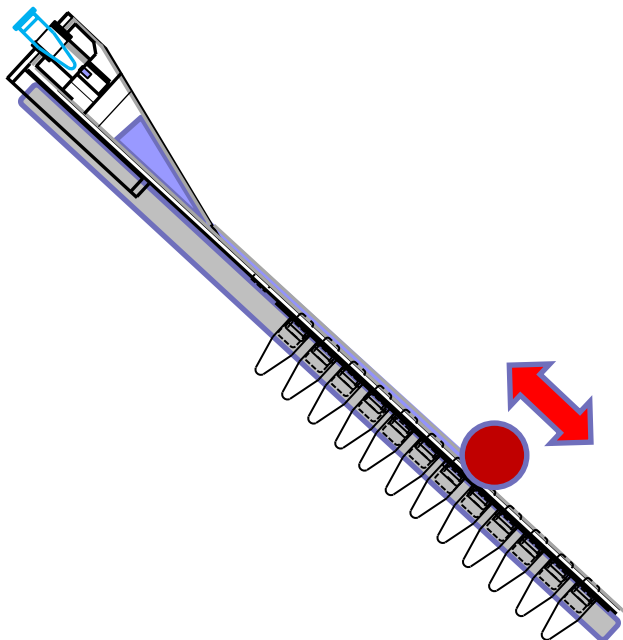
7a. Instrument mixes sample and buffer in bladder;



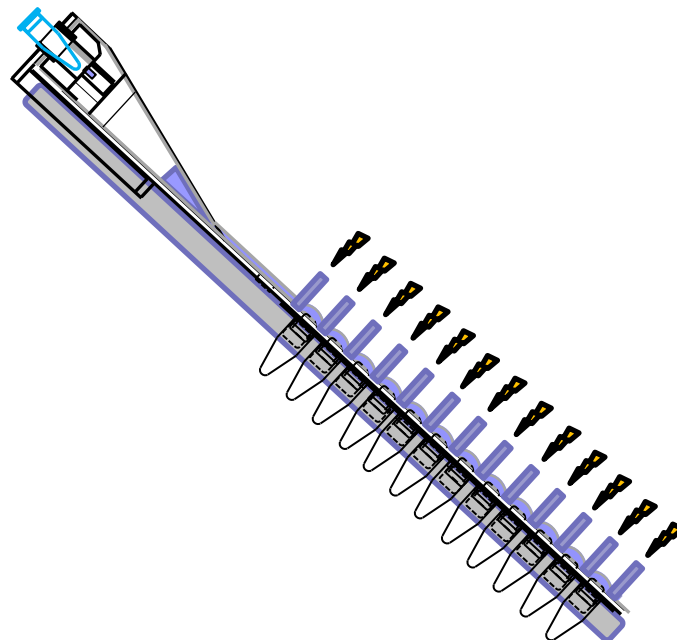
7b. Instrument presses bladder and releases clamp to flow mixed fluid into channels above wells;



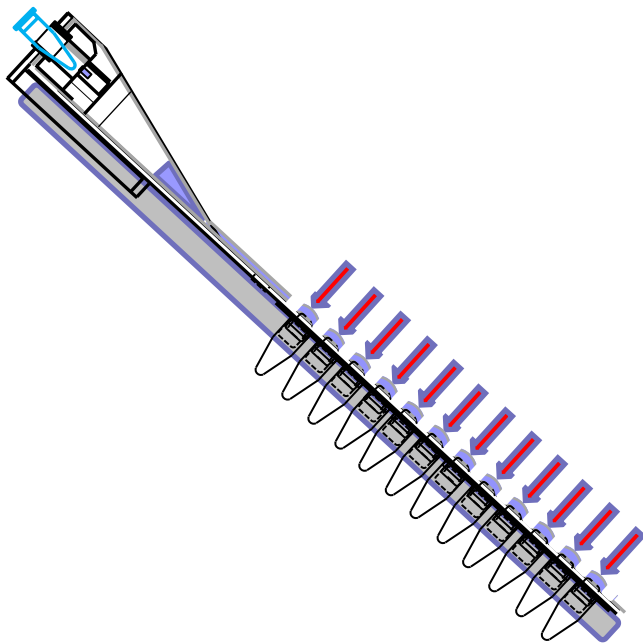
7c. Instrument uniformly distributes fluid in channels and clears any bubbles that may have entered;



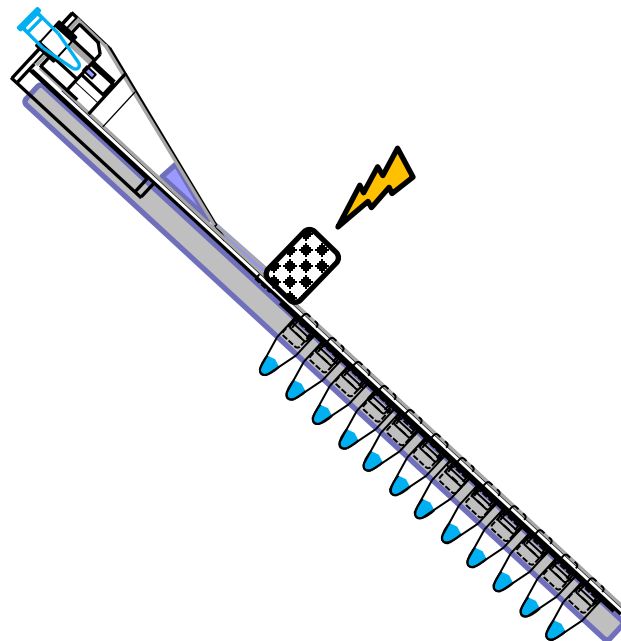
7d. Instrument welds channels between wells to form aliquots of fluid;



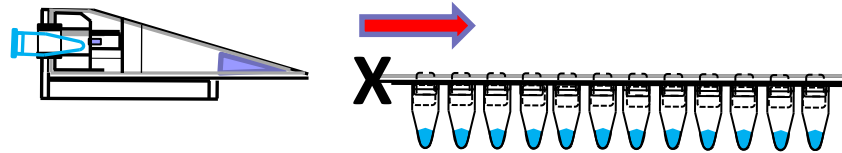
7e. Instrument presses on aliquots to rupture membranes transferring fluid into wells;



7f. Instrument welds cleaving zone of consumable at elevated conditions to degrade residual DNA at interface;



- 8.** Bladder portion of PLM consumable is cleaved and discarded;



- 9.** Well plate with Alluvia PLM consumable briefly mixed and centrifuged to concentrate liquid in bottom of wells.

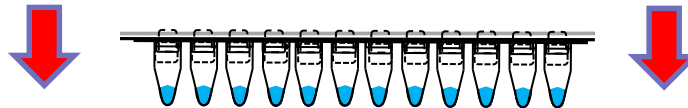


Plate is now ready for qPCR.

END