**Mosquito Walkthrough**

>System and machine are always left on

>contact Craig MaCaroy for access

* Click mosquito icon on the desktop and initialize for use
* File open
  + OS(c:) programfiles:\TTPLabTech\Mosquito\protocols\kudryashov\hanging drop 1 protein 200nL
* Leave all settings as they are and click the protocol tab
* Load plates: Protein sample, Solution plate, cover slip in that order left to right ensuring that they are not resting on top of the metal tab in the lower right corner of their respective slot on the track with A1 in the top left position
* The track can be moved left to right using the ‘park right’ or ‘park left’ commands

Sample strip plate

* Place the plastic sample strip in the far left column of the appropriate plate and place the mill colored magnetic cover over the top
* In each of the eight wells place 3.5µL of protein ensuring no bubbles are introduced (touch the bottom of each well with the tip before ejecting and do not push the pipet past the first stop to help this)

Solution plate

* This plate should have at least 100µL of solution per well

Cover slip plate

* Using the solid black plate wet the top using your finger with just enough water to get it damp (not dripping wet)
* Remove cover from the plastic plate cover and place it on the wet side of the metal plate, sticky side up
* Line up the three circles on the metal plate in the three corresponding corners of the cover slip centering them as much as possible
* Clear the track region of everything
* **ALWAYS KEEP TRACK CLEAR WHEN RUNNING/PARKING TO ONE SIDE OR THE OTHER**
* When everything is in place click ‘Run’ in the bottom left corner of the screen
* Ensure you do not tug or have tension on the strip of tips
* When the machine is done running remove all plates
* Place the solution plate on the mill colored tray with three vertical pegs aligning it against the one on the left and two at the top with A1 in the top left position
* Take the cover slip plate and flip it upside down (the previously added water will keep the slip attached when inverted)
* Place over the solution plate with the arrow pointing towards the top left aligning it with the arrow on the stand
* Press down hard against the solution plate while keeping the cover slip plate held against the metal pegs
* Remove the metal cover slip plate and ensure the cover slip is aligned correctly
* Remove the thin protective cover from the top side of the cover slip and store the plates at the appropriate temperature
* Check daily for crystal formation