OPERATING THE DYNAPRO PLATE READER II DLS

CORE FACILITY USERS ONLY
THIS DOCUMENT IS A REFRESHER
DO NOT USE IF NOT TRAINED BY 106 STAFF
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SAMPLE

- THE DLS IS NOT A PRECISE ESTIMATOR OF MW. IT ESTIMATES DISTRIBUTIONS AND THEIR VARIANCE.
- FILTER YOUR SAMPLE IMMEDIATELY BEFORE MEASURING. 0.02 uM. YOU ARE UNLIKELY TO GET USEFUL DATA OTHERWISE.
- CENTRIFUGATION DOES NOT SUBSTITUTE FILTRATION. FILTER.

LOAD SAMPLE

- USE GEL LOADING TIPS.
- MAKE SURE YOU ARE LOADING EMPTY WELLS.
- USING 30 TO 50 uL, LOAD SAMPLE INTO A WELL BY PLACING THE TIP IN THE BOTTOM OF A WELL. DISPENSE SLOWLY TO 1st STOP.
- AVOID BUBBLES. REMOVE ANY THAT APPEAR.

TURN ON THE INSTRUMENT

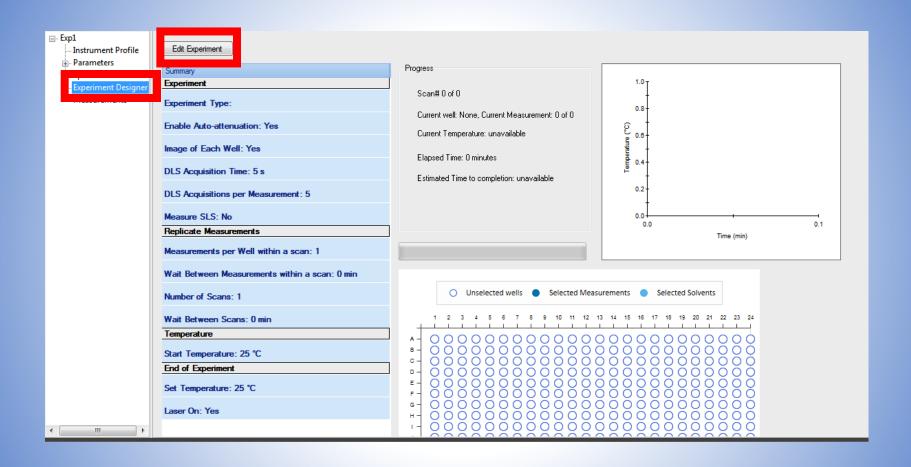
- FLIP THE SWITCH ON THE FRONT PANEL UNDER THE RIGHT SIDE.
- WAIT FOR THE MAIN CONTROL PANEL TO DISPLAY INSTRUMENT CONTROLS.
- THE MAIN PANEL IS A TOUCH SCREEN. CLICK "DOOR" TO LOAD YOUR SAMPLE.
- ONCE YOUR SAMPLE IS LOADED, PRESS THE SAME BUTTON AGAIN. DO NOT ATTEMPT A RUN UNTIL A GREEN INDICATOR NEXT TO THE DOOR BUTTON SAYS "CLOSED".

OPEN DYNAMICS

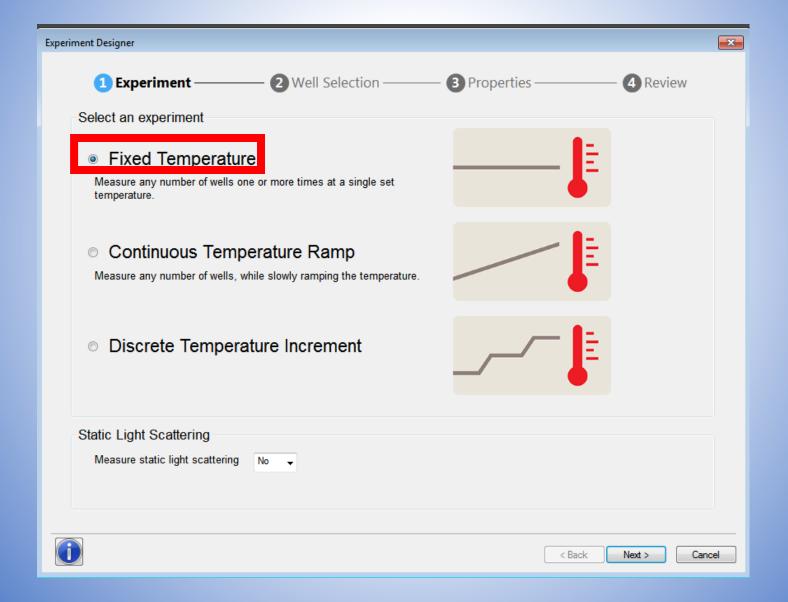
- CLICK THE ICON ON THE DESKTOP.
- IGNORE AND CLOSE ALL PROMPTS APPEARING IN THE PROGRAM.
- GO TO FILE → NEW.
- CLICK THE CONNECT ICON TO CONNECT TO THE INSTRUMENT.



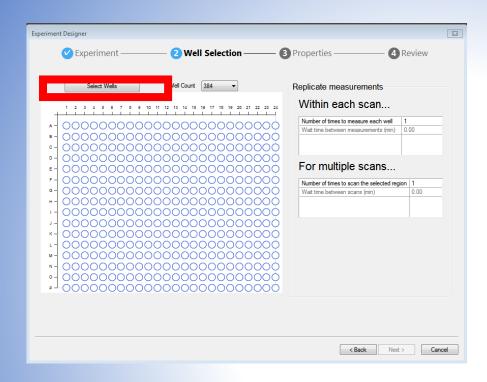
CLICK "EXPERIMENT DESIGNER" THEN "EDIT EXPERIMENT".



SELECT "FIXED TEMPERATURE" THEN "NEXT".

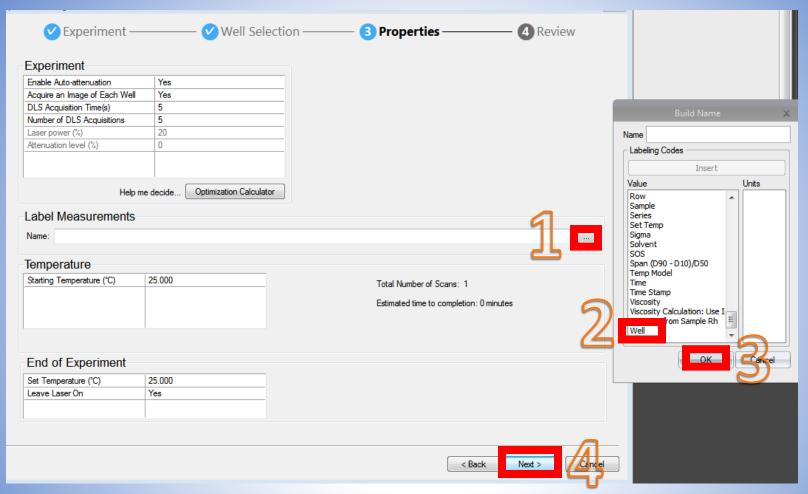


SELECT "SELECT WELLS"



- A POPUP WINDOW WILL ALLOW YOU TO CLICK EACH WELL YOU WANT TO MEASURE.
- SELECTED WELLS WILL APPEAR BLUE.
- · CLICK "OK".

• CLICK THE "..." BUTTON.



- SELECT "WELL".
- CLICK "OK" AND THEN "NEXT".
- REVIEW AND CLICK "FINISH".

SELECT THE GREEN START BUTTON.



- A DIALOGUE BOX WILL APPEAR AND ASK YOU WHERE TO SAVE THE EXPERIMENT.
- SAVE YOUR DATA IN:

C:/→WYATT→WYATT DLS DATA→PI LAST NAME→YOUR NAME

 THE EXPERIMENT WILL RUN ON ITS OWN NOW. THE GREEN INDICATOR WILL TURN RED, YELLOW, AND GREEN AGAIN WHEN FINISHED.

UNLOADING SAMPLE/ MACHINE OFF

- ON THE INSTRUMENT DISPLAY TAKE OVERMANUAL CONTROL BY CLICKING THE DOOR BUTTON AGAIN.
- THE DOOR WILL OPEN. TAKE OUT THE PLATE AND PROTECT THE BOTTOM. NO FINGERPRINTS OR SURFACES. SEAL STORE IN CLEAN AREA USING ORANGE PROTECTOR FOR THE BOTTOM.
- CLICK THE DOOR BUTTON AGAIN TO CLOSE THE DOOR.
- YOU CAN NOW TURN OFF THE DLS USING THE SWITCH ON THE FRONT RIGHT BOTTOM.

DATA ANALYSIS

- DO NOT BELIEVE REPORTED VALUES WITHOUT BEING TRAINED TO ASSESS QUALITY DATA.
- CONTACT MICHAEL COLLAZO FOR TRAINING.
- TEXT (805) 982-0606.