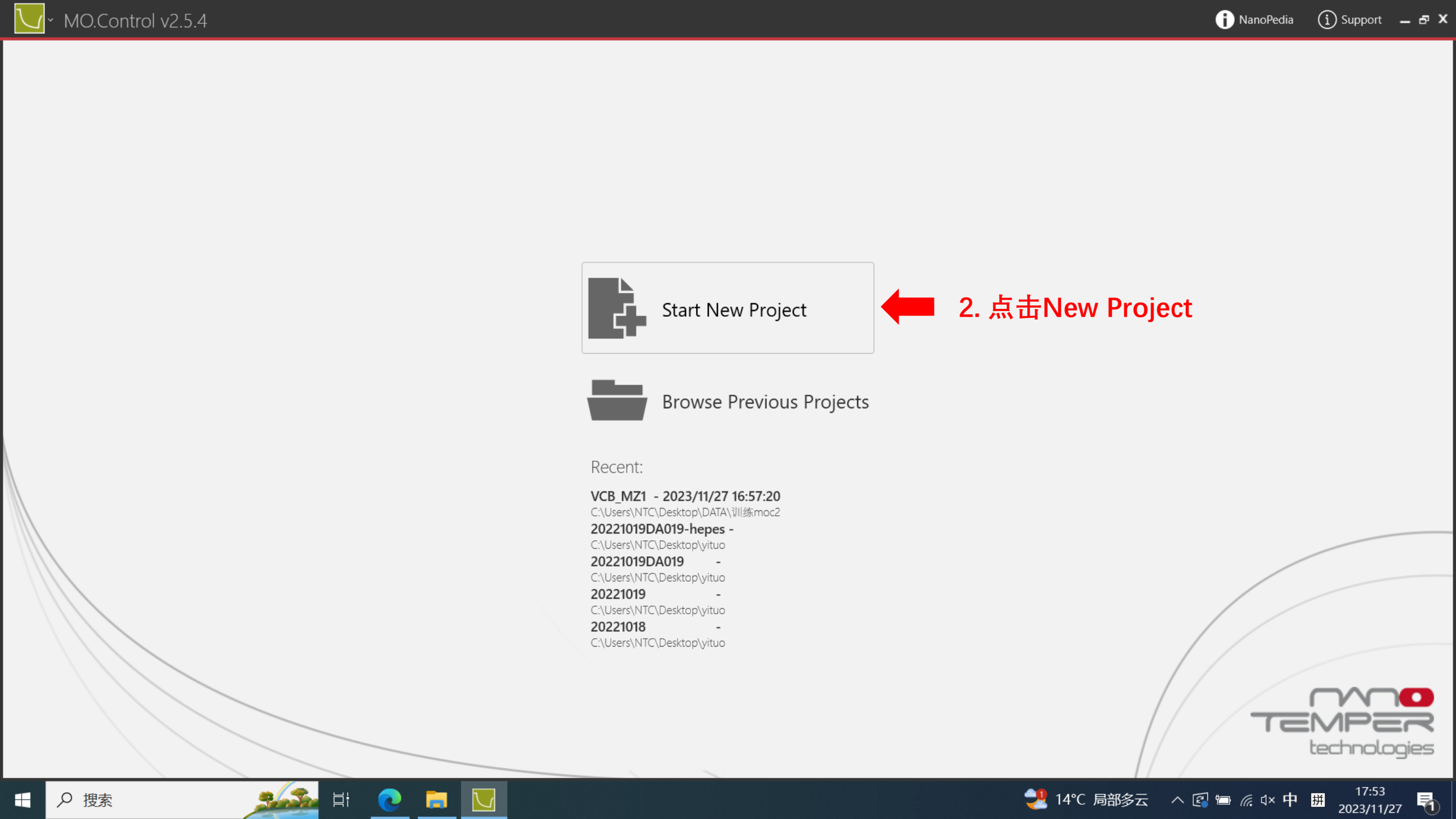
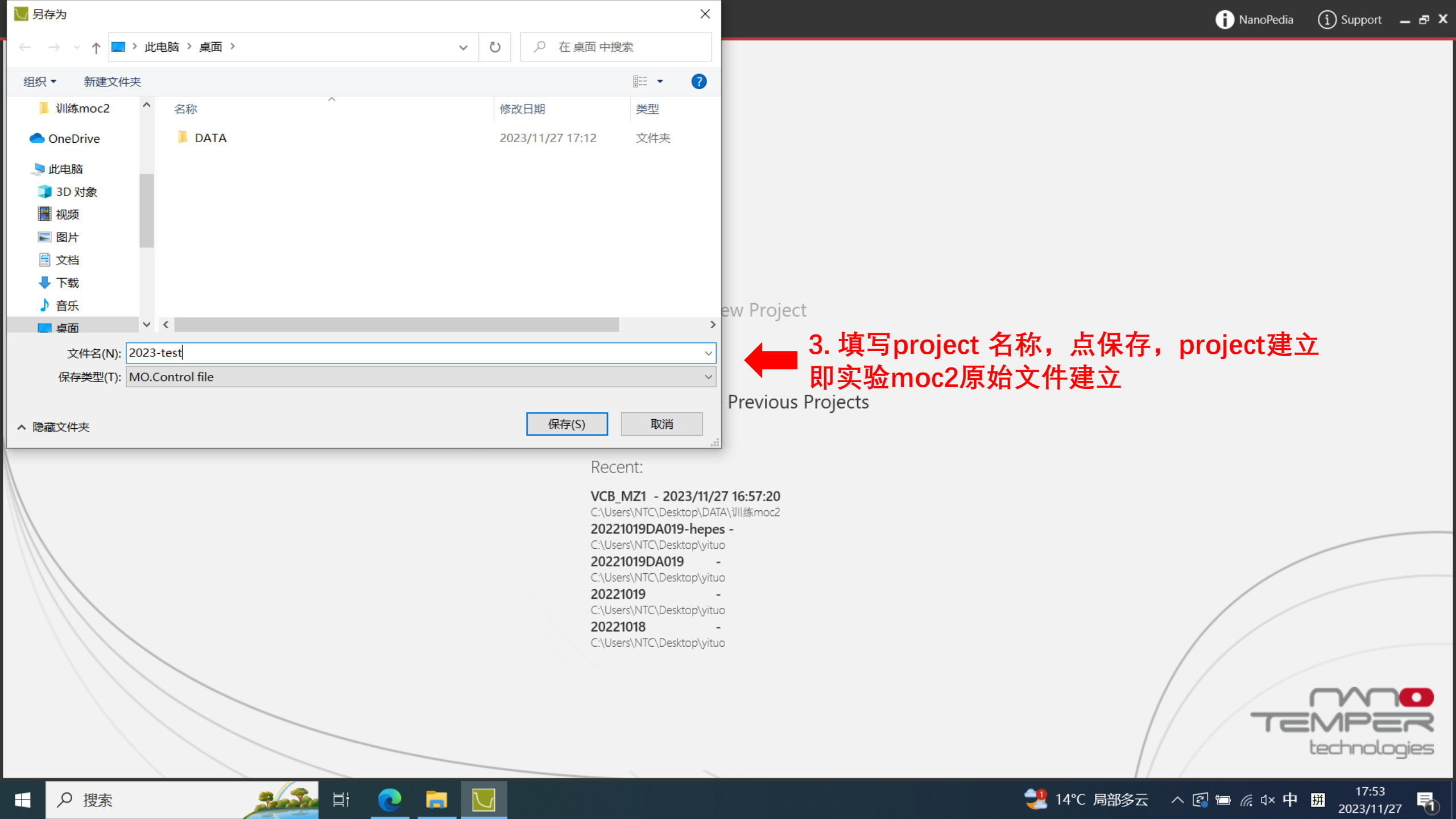

Recycle Bin
Data
LibreOffice 6.2
MO.Control 2 (x86)
TeamViewer
SunloginClient
1. 打开MO. Control 2 控制软件并打开仪器右后方的开关
MOTEMPER


MO.Control v2.5.4
NanoPedia
Support
Start New Project
2. 点击New Project
Browse Previous Projects
Recent:
VCB_MZ1 - 2023/11/27 16:57:20
C:\Users\NTC\Desktop\DATA\训练moc2
20221019DA019-hepes -
C:\Users\NTC\Desktop\yituo
20221019DA019 -
C:\Users\NTC\Desktop\yituo
20221019 -
C:\Users\NTC\Desktop\yituo
20221018 -
C:\Users\NTC\Desktop\yituo
TEMPER
technologies
搜索
14°C 局部多云
中
17:53
2023/11/27


另存为
此电脑 › 桌面 ›
在 桌面 中搜索
组织
新建文件夹
训练moc2
OneDrive
此电脑
3D 对象
视频
图片
文档
下载
音乐
桌面
名称
修改日期
类型
DATA
2023/11/27 17:12
文件夹
文件名(N): 2023-test
保存类型(T): MO.Control file
隐藏文件夹
保存(S)
取消
NanoPedia
Support
ew Project
3. 填写project 名称，点保存，project建立
即实验moc2原始文件建立
Previous Projects
Recent:
VCB_MZ1 - 2023/11/27 16:57:20
C:\Users\NTC\Desktop\DATA\训练moc2
20221019DA019-hepes -
C:\Users\NTC\Desktop\yituo
20221019DA019 -
C:\Users\NTC\Desktop\yituo
20221019 -
C:\Users\NTC\Desktop\yituo
20221018 -
C:\Users\NTC\Desktop\yituo
TEMPER
technologies
搜索
14°C 局部多云
中
17:53
2023/11/27

Project Overview

Close
Save

Experiments (0)

Monolith X Change

Ratio 670nm / 650nm Change

Please select a binding mode

4. 点击Binary binding，进入互作实验测定。

Binary binding ?

Ternary binding ?

Get online help

Protein Labeling Assistant ?

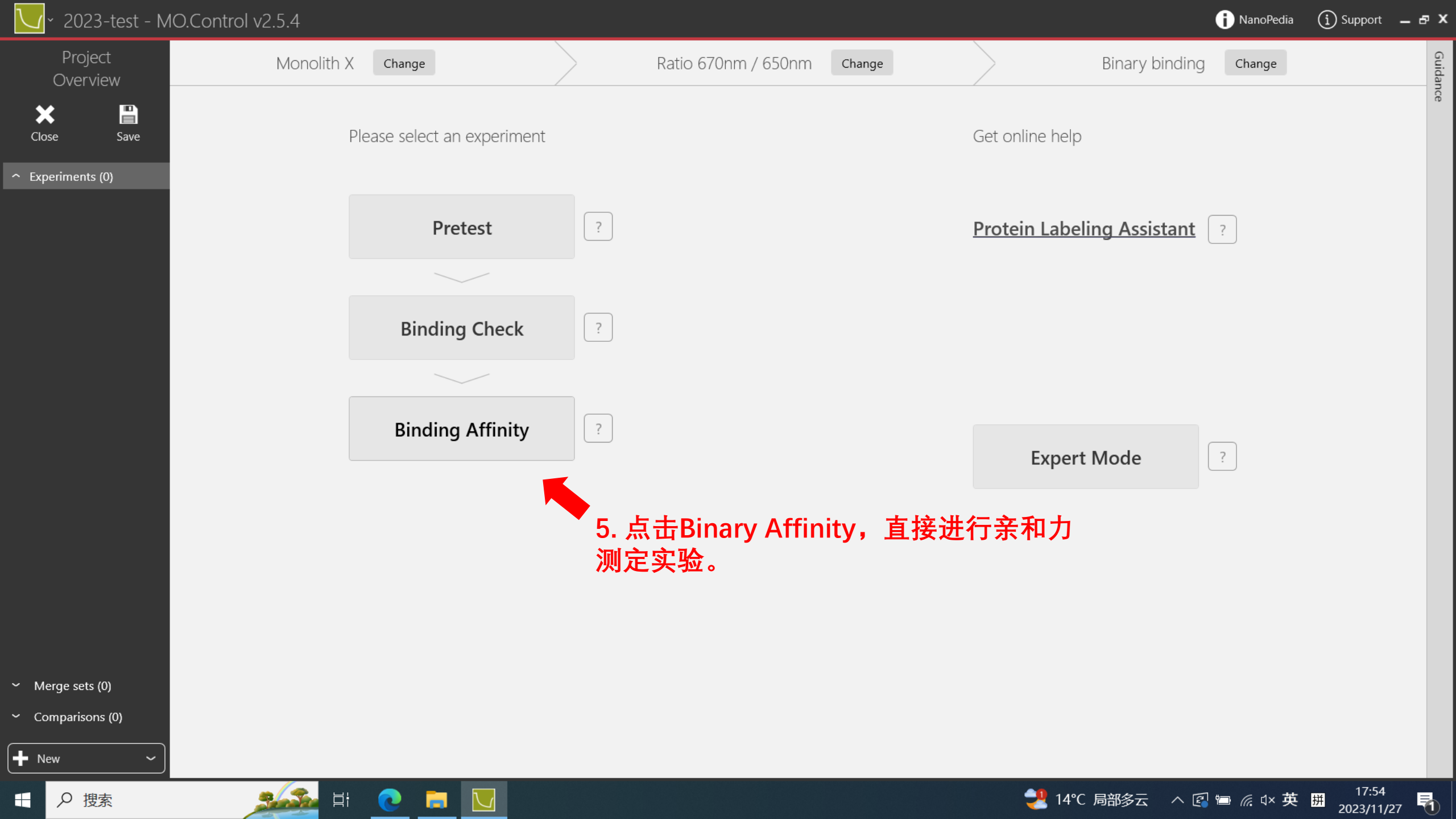
Expert Mode ?

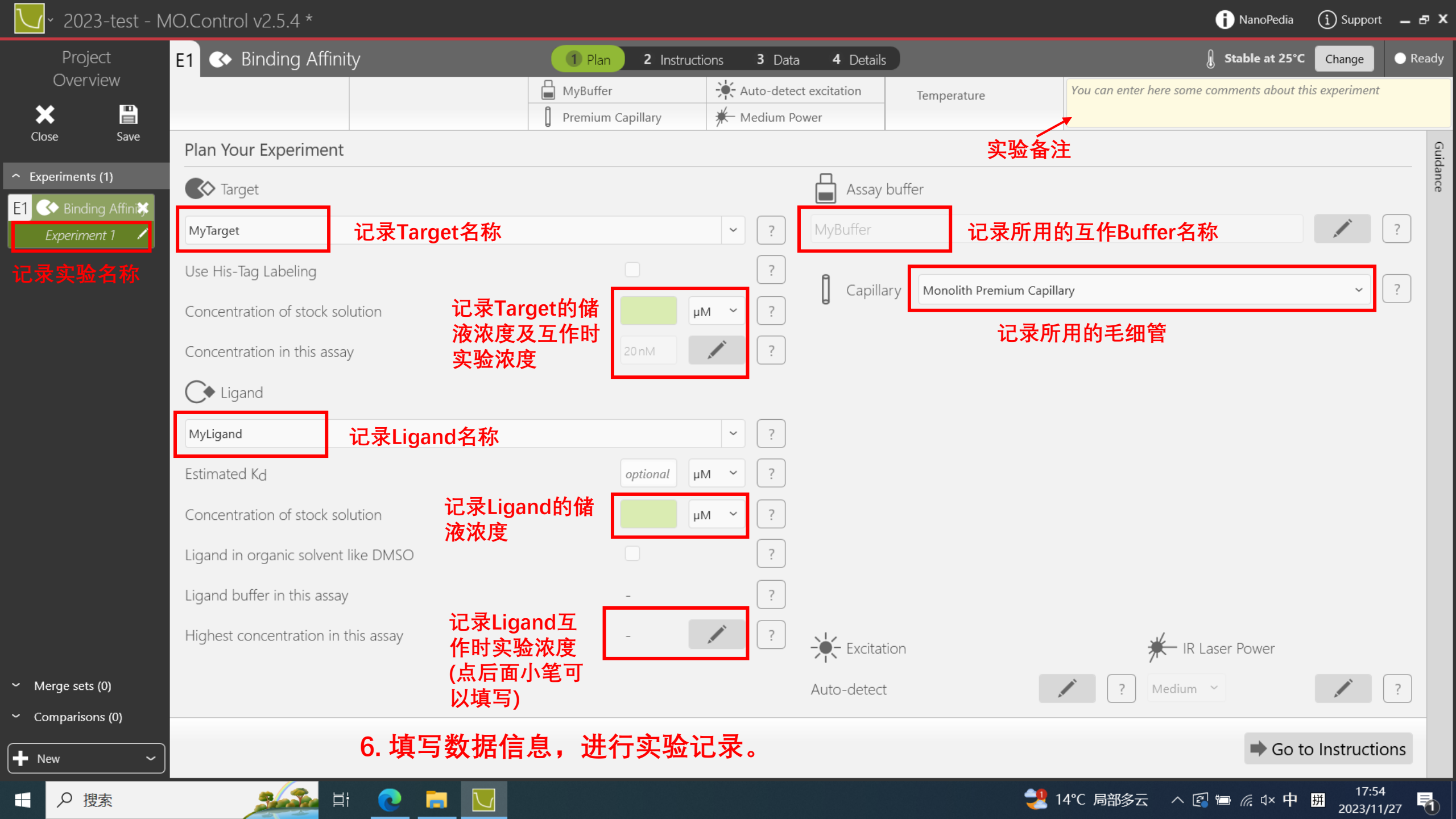
Guidance

Merge sets (0)

Comparisons (0)

New


2023-test - MO.Control v2.5.4
NanoPedia
Support
Project Overview
Close
Save
Experiments (0)
Merge sets (0)
Comparisons (0)
New
Monolith X
Change
Ratio 670nm / 650nm
Change
Binary binding
Change
Guidance
Please select an experiment
Pretest
Binding Check
Binding Affinity
Get online help
Protein Labeling Assistant
Expert Mode
5. 点击Binary Affinity，直接进行亲和力测定实验。
搜索
14°C 局部多云
英
17:54
2023/11/27


2023-test - MO.Control v2.5.4 *
NanoPedia
Support
Project Overview
Close
Save
Experiments (1)
E1 Binding Affinity
Experiment 1
记录实验名称
E1 Binding Affinity
1 Plan
2 Instructions
3 Data
4 Details
Stable at 25°C
Change
Ready
MyBuffer
Premium Capillary
Auto-detect excitation
Medium Power
Temperature
You can enter here some comments about this experiment
实验备注
Plan Your Experiment
Target
MyTarget
记录Target名称
Use His-Tag Labeling
Concentration of stock solution
µM
Concentration in this assay
20 nM
记录Target的储液浓度及互作时实验浓度
Ligand
MyLigand
记录Ligand名称
Estimated Kd
optional
µM
Concentration of stock solution
µM
记录Ligand的储液浓度
Ligand in organic solvent like DMSO
Ligand buffer in this assay
-
Highest concentration in this assay
-
记录Ligand互作时实验浓度(点后面小笔可以填写)
Assay buffer
MyBuffer
记录所用的互作Buffer名称
Capillary
Monolith Premium Capillary
记录所用的毛细管
Excitation
Auto-detect
IR Laser Power
Medium
Guidance
Merge sets (0)
Comparisons (0)
New
6. 填写数据信息，进行实验记录。
Go to Instructions
搜索
14°C 局部多云
17:54
2023/11/27

2023-test - MO.Control v2.5.4 *

NanoPedia | Support

Project Overview

Close | Save

Experiments (1)

E1 Binding Affinity

Aptamer-AMP

E1 Binding Affinity

1 Plan | 2 Instructions | 3 Data | 4 Details

Stable at 25°C | Change | Ready

Aptamer	AMP	C Buffer	Auto-detect excitation	Temperature	You can enter here some comments about this experiment
20 nM	5 mM	Capillary	Medium Power		

Plan Your Experiment

Target

Aptamer

Use His-Tag Labeling

Concentration of stock solution: 40 nM

Concentration in this assay: 20 nM

Ligand

AMP

Estimated Kd: optional µM

Concentration of stock solution: 10 mM

Ligand in organic solvent like DMSO

Ligand buffer in this assay: 50.0%

Highest concentration in this assay: 5 mM

Assay buffer

C Buffer

Capillary: Monolith Capillary

Excitation

Auto-detect

IR Laser Power

Medium

Guidance

Merge sets (0)

Comparisons (0)

New

7. 填写完成后，点击Go to Instructions，进入仪器指导界面

Go to Instructions

搜索

14°C 局部多云

17:57

2023/11/27

Aptamer 20 nM | AMP 5 mM | C Buffer | Capillary | Auto-detect excitation | Medium Power | Temperature

You can enter here some comments about this experiment

Instructions

Below are detailed instructions on how to prepare the samples necessary for your experiment. For general information on binding affinity experiments, refer to the guidance on the right.

The minimum required stock solution and buffer volumes for this experiment are:

200 µl target stock solution (**40 nM** of **Aptamer**)
30 µl ligand stock solution (**10 mM** of **AMP**)
200 µl buffer of the ligand stock solution (**ligand buffer**)

1. Start by preparing the following intermediate samples:

a. No predilution required. Use **200 µl** of **40 nM Aptamer** stock solution for the following steps.
b. No predilution required. Use **30 µl** of **AMP** for the following steps.
c. No predilution required. Use **200 µl** of **ligand buffer** for the following steps.

2. Prepare a serial dilution of the ligand using the ligand buffer.

Remember to discard **10 µl** of the lowest concentration sample in tube **16** to get an equal volume of **10 µl** in all samples.

More info

3. Add 10 µl of 40 nM Aptamer to each tube from 16 to 1 and mix by pipetting.

More info

4. Dip a Monolith capillary into each tube from 1 to 16, put them in

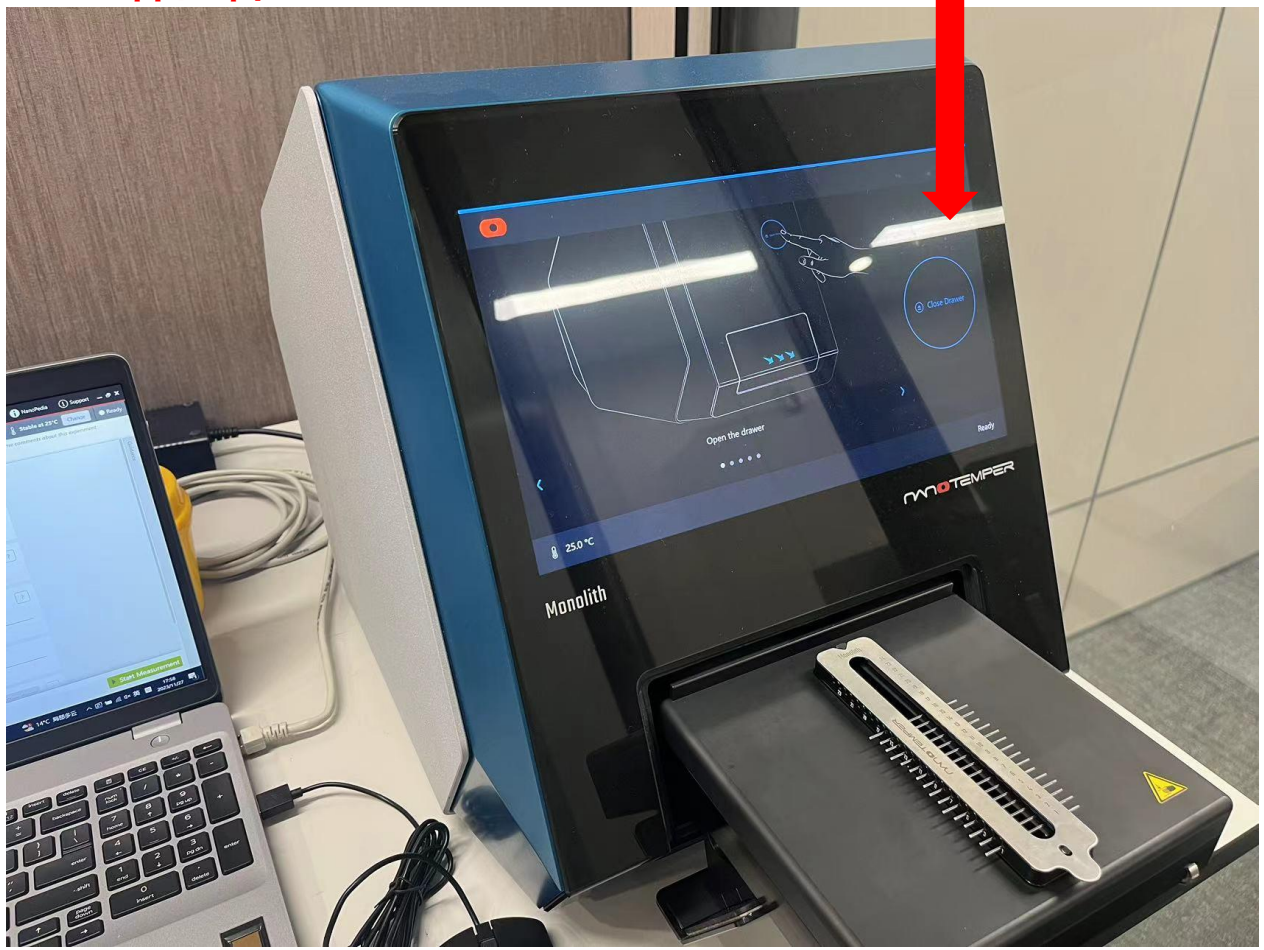
Open drawer

Guidance

仪器指导界面是仪器根据您填写的信息提供的样品稀释方案及混合互作指导。
若您样品已稀释准备好,则可直接进行倍比稀释，混合互作后毛细管取样。

8. 触屏点击Open Drawer，打开样品台

9. 放置好毛细管后，触屏点击Close Drawer，仪器收回样品台



Aptamer 20 nM | AMP 5 mM | C Buffer | Capillary | Auto-detect excitation | Medium Power | Temperature

You can enter here some comments about this experiment

Experiments (1)
E1 Binding Affinity
Aptamer-AMP
Merge sets (0)
Comparisons (0)
New

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More info

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More info

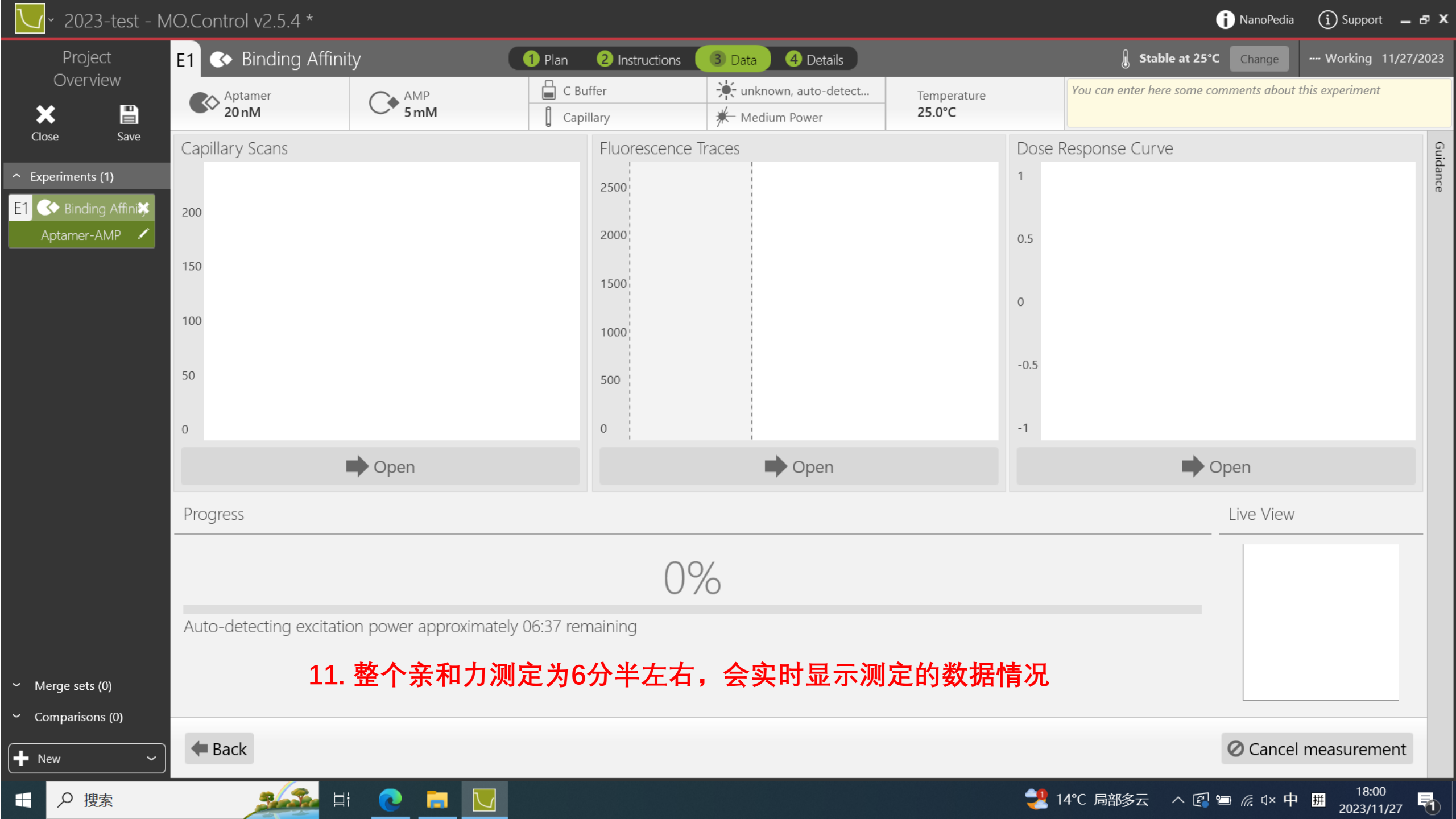
4. Dip a Monolith capillary into each tube from 1 to 16, put them in

Open drawer

Guidance

Back | Print Instructions | Start Measurement

10. 样品放置完成后，点击Start Measurement，仪器开始运行，进行检测


2023-test - MO.Control v2.5.4 *
NanoPedia
Support
Project Overview
Close
Save
Experiments (1)
E1
Binding Affinity
Aptamer-AMP
Merge sets (0)
Comparisons (0)
New
E1
Binding Affinity
1 Plan
2 Instructions
3 Data
4 Details
Stable at 25°C
Change
Working 11/27/2023
Aptamer
20 nM
AMP
5 mM
C Buffer
Capillary
unknown, auto-detect...
Medium Power
Temperature
25.0°C
You can enter here some comments about this experiment
Capillary Scans
200
150
100
50
0
Open
Fluorescence Traces
2500
2000
1500
1000
500
0
Open
Dose Response Curve
1
0.5
0
-0.5
-1
Open
Guidance
Progress
0%
Auto-detecting excitation power approximately 06:37 remaining
Live View
11. 整个亲和力测定为6分半左右，会实时显示测定的数据情况
Back
Cancel measurement
搜索
14°C 局部多云
18:00
2023/11/27

2023-test - MO.Control v2.5.4 *

NanoPedia | Support

Project Overview

Close | Save

Experiments (1)

E1 Binding Affinity

Aptamer-AMP

E1 Binding Affinity

1 Plan | 2 Instructions | 3 Data | 4 Details

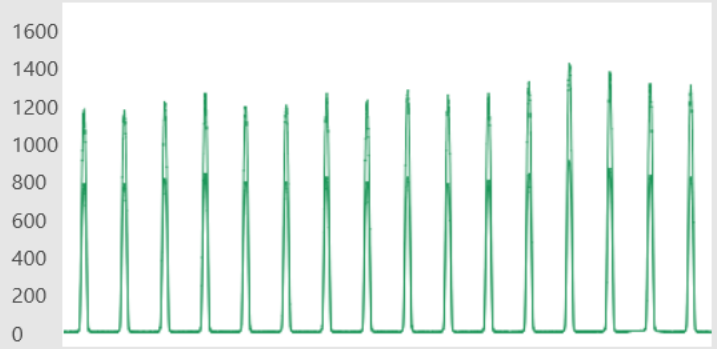
Stable at 25°C | Change | Completed 11/27/2023

Aptamer 20 nM | AMP 5 mM | C Buffer | Capillary | 50% excitation | Medium Power | Temperature 25.0°C

You can enter here some comments about this experiment

Guidance

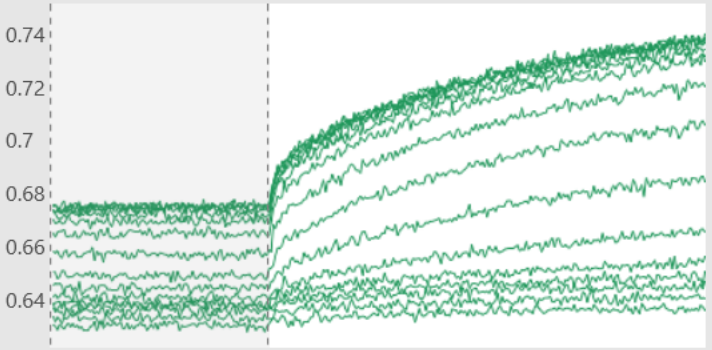
Capillary Scans



- Fluorescence intensity
- No fluorescence variation
- No adsorption

Review

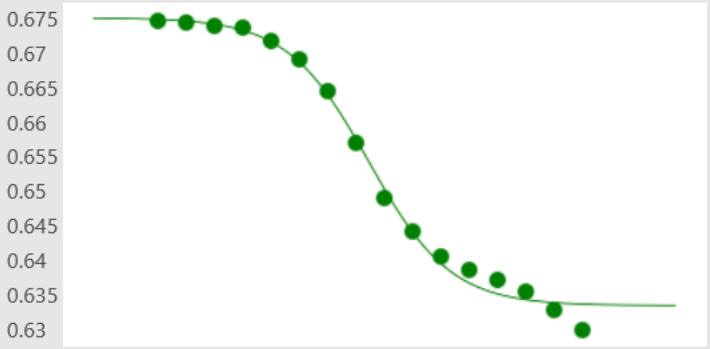
Fluorescence Traces



- No aggregation
- No photobleaching rate changes

Review

Dose Response Curve



- Signal/Noise ratio is large enough to detect binding

Review

Result

Kd = 26.9 µM

Things to check

If there are not enough data points at either the low ligand concentration or the high ligand concentration ends, consider adjusting the starting concentration of your ligand

12. 测定完成后，点击+Binding Affinity，软件会加载之前填写的参数，便于进行重复实验，或者+New 选择 Experiment开始新的实验。

Merge sets (0)

Comparisons (0)

New

Back

+ Binding Affinity