



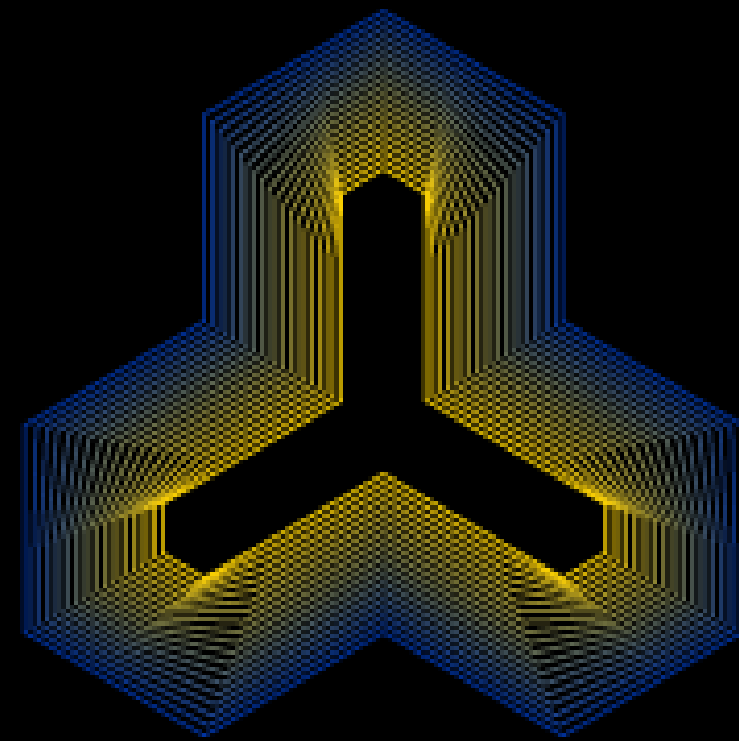
SmartLab



LABVO.TECH
by NIKYANG

20th Anniversary project of NIKYANG
Presenter Wing LO

SmartLab Features



SMARTASSISTANT

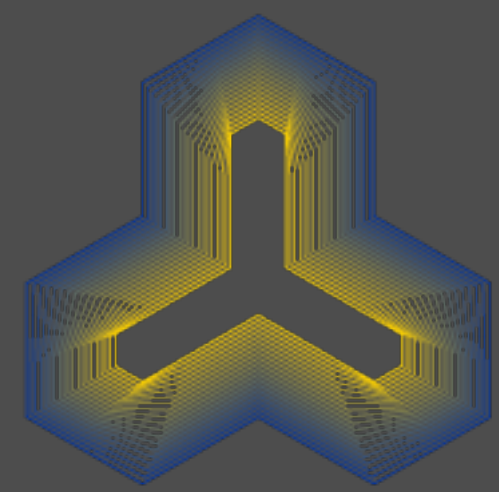
SmartGuide

SmartLog

AutoSteps

SuperVision

SmartGuide / Voice Login



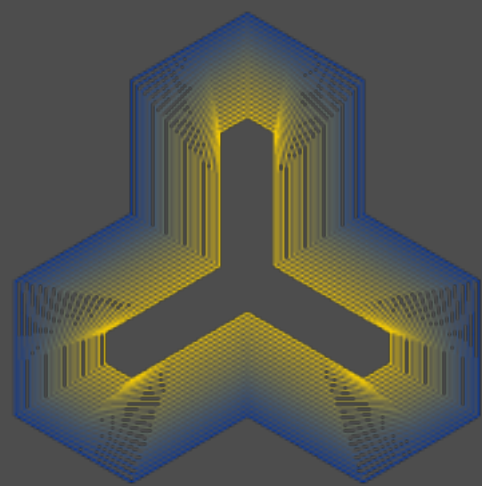
Login user



Dr. Ben Peng



SmartGuide / Voice Login



Hi Dr,
Which project do your want to continue?



Experimant#031

TCM Sampling



Experiment#004

DNA Extraction



Experiment#011

QuEChERs
Food Safety

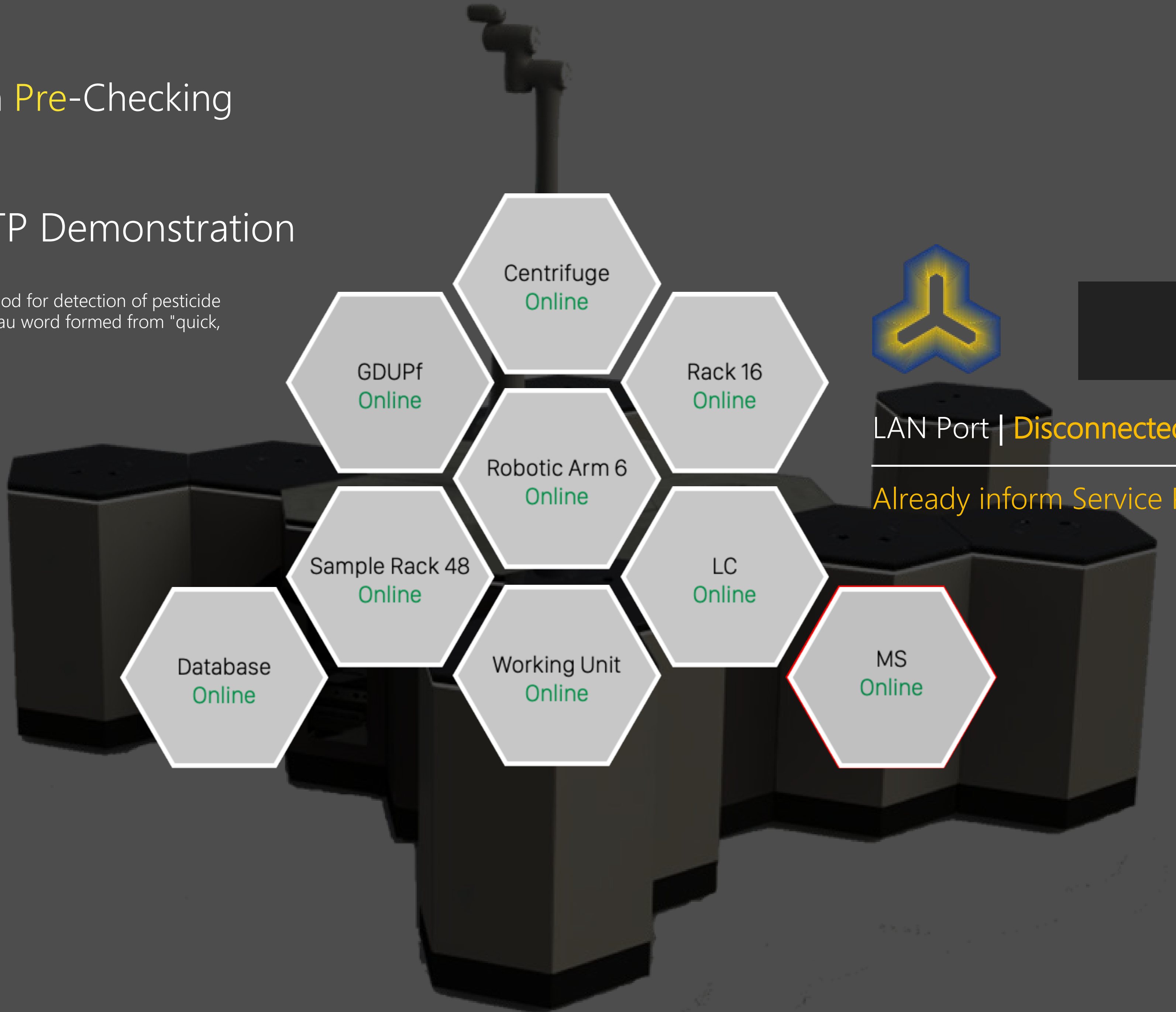


SmartGuide / System Pre-Checking

Experiment #011

QuEChERS for HKSTP Demonstration

QuEChERS is a solid phase extraction method for detection of pesticide residues in food. The name is a portmanteau word formed from "quick, easy, cheap, effective, rugged, and safe".




SmartGuide / Status update



Lab Guide+

Explorer #30

Workflow	Times	Est Time	Type
Extraction/Partitioning			
Weight sample	1		
Store in rack	1		
Robot pick	1		
Solvent dispensing	30		
10ml Acetonitrile (MeCN)	30		
100ul Internal standard	1		
<hr/>			
Dispersive SPE clean-up			
<hr/>			
Analysis LC-MS/MS			
<hr/>			



Estimated Time: 2h 38m

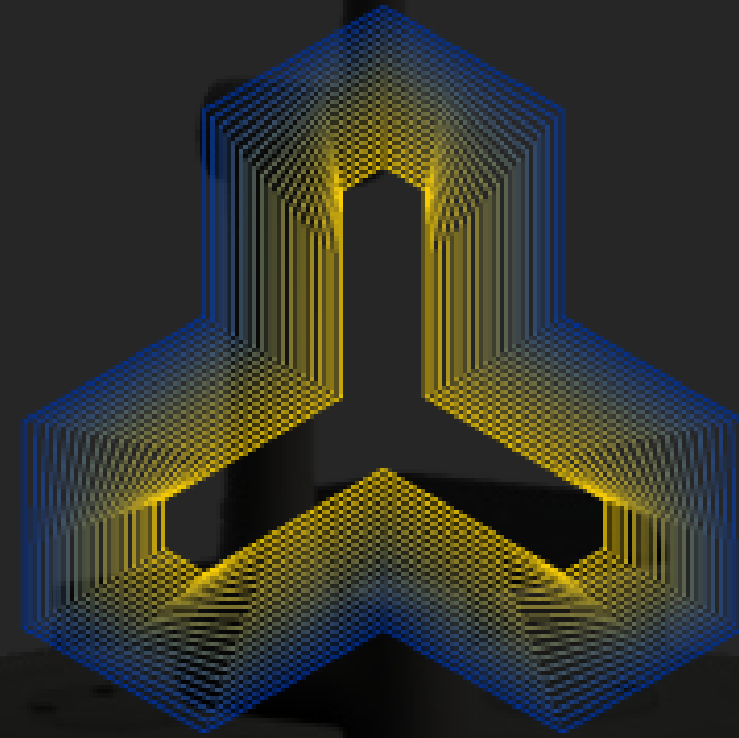
Lab Guide+

Sample Preparation for LC Analyses

Prepare Cartridge

Open Sample

SmartLab Features



SMARTASSISTANT

SmartLog

3 Projects / Experiments consumption in coming 3 months

Experiment#031
TCM Sampling

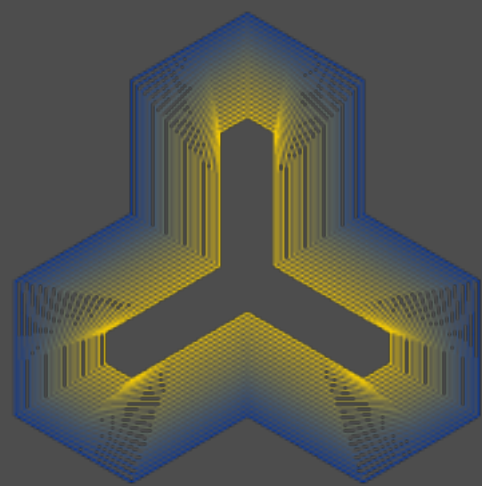
Experiment#004
DNA Extraction

Experiment#011
Food Safety

Consumable

Solvent A	3500 ml	Solvent A	4800 ml	Solvent A	1000 ml
MgSO4	36g	MgSO4	36g	MgSO4	36g
NaCl	95g	NaCl	95g	NaCl	95g
C6H6Na2O7	20g	C6H6Na2O7	20g	C6H6Na2O7	20g

SmartLog / Material master



Hi Dr,
Order placed storage is not enough to complete your task.
Do you want to order **Solvent A (3500 ml)** ?

Yes

No

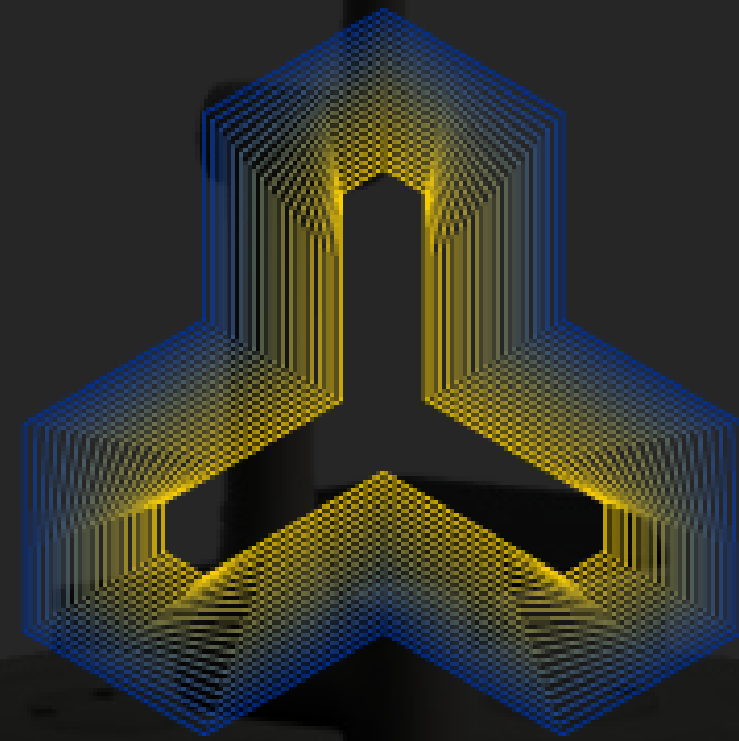
Consumable

Solvent A 4800 ml

Current storage

Solvent A 1300 ml

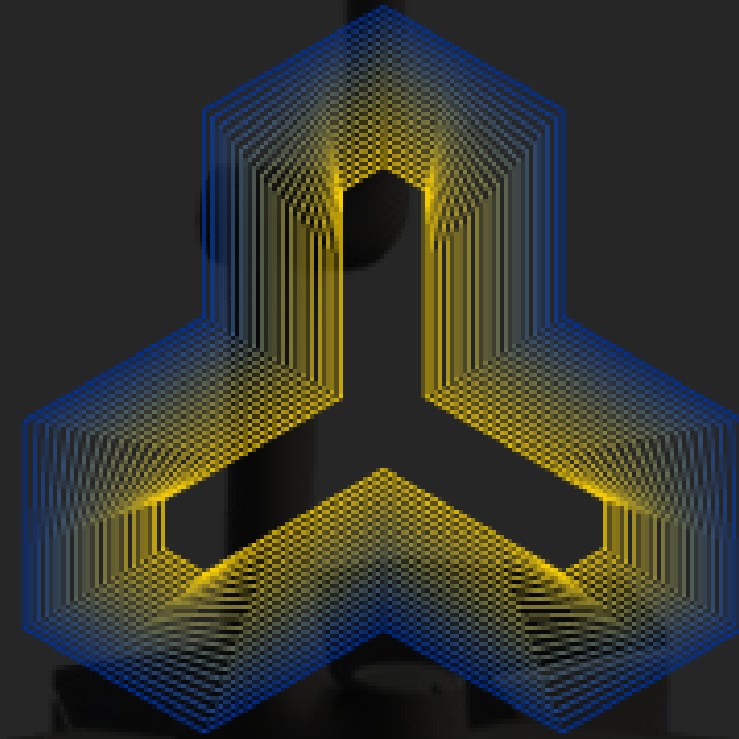
SmartLab Features



SMARTASSISTANT

AutoSteps

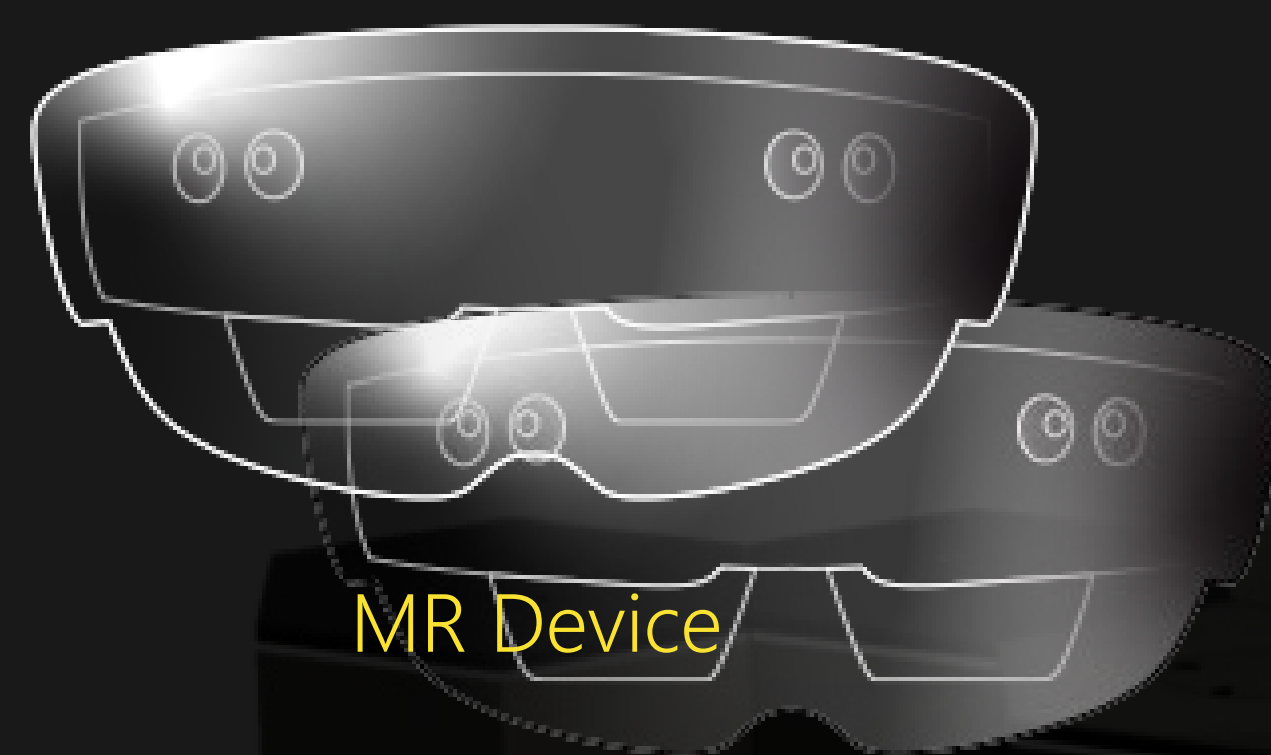
SmartLab Features



SMARTASSISTANT

SuperVision

SuperVision | Sync + Remote + Multi



MR Device

MR for researcher



Micro Camera

TV / Video Conference

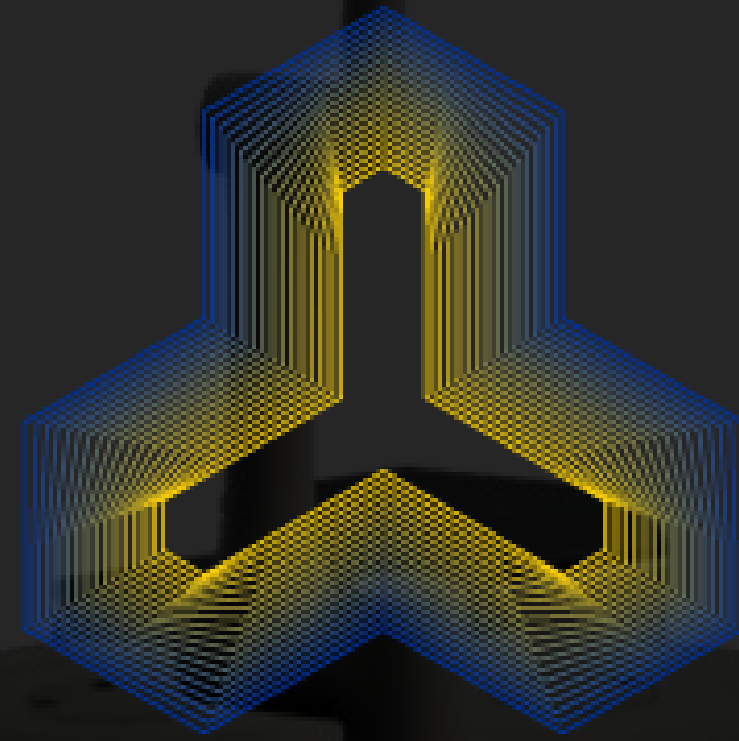


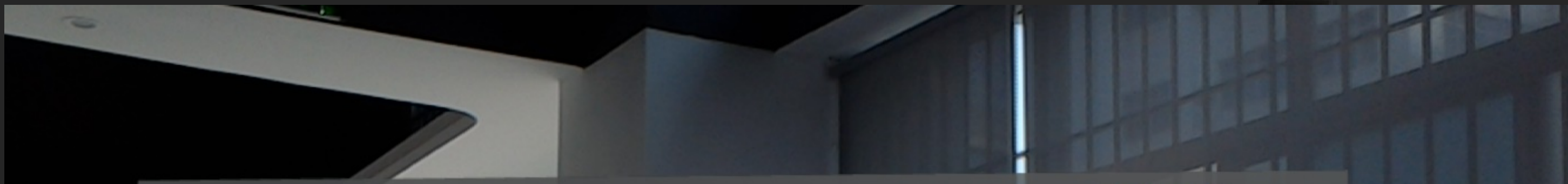
Sync what you see

Mobile



Show case





Smart Guide

▶ 1# Weigh Sample

2# Transfer Vial

3# Add Acetonitrile

4# Transfer Vial Back

5# Add Internal Standard

6# Add Salt

7# Mixing

8# Centrifugation

9# Transfer Supernatant

10# Dispersive SPE Cleanup

11# Mixing

12# Centrifugation

13# Sample Storage

Start Workflow (Operation)

SmartLab Server: 192.168.11.100

Voice Login

Dr. BruceJennifer Fu

Robotic Arm

ONLINE



SmartLab Server: 192.168.11.100

Queenie NgGuest

Smart Guide WFR42 ACTIVE

▶ 1# Weigh Sample

2# Transfer Vial

3# Add Acetonitrile

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5# Add Internal Standard

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7# Mixing

8# Centrifugation

9# Transfer Supernatant

10# Dispersive SPE Cleanup

11# Mixing

12# Centrifugation

13# Sample Storage

Start Workflow (Operation)

Stop Workflow (Operation)

Tecan Spark

Integra Pipette 1

DNA Workspace

thermo mixer

Centrifuge

Autodosage

Robotic Arm

Balance

Integra Pipette 2

GDUP

Robotic Tool Station

Homogenizer

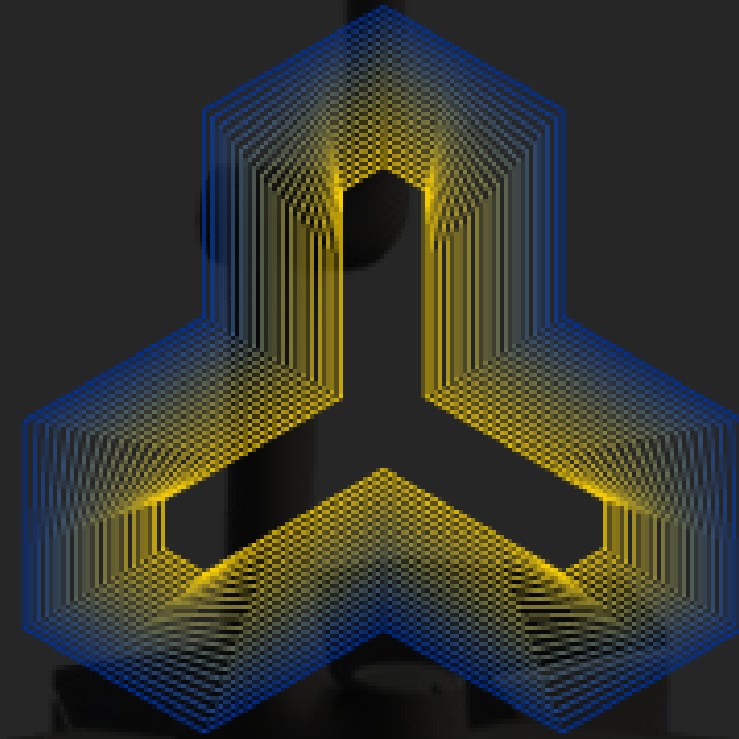
KNF Rotary Evaporator

P-cam Comb

Demo Comb

Next Step

SmartLab



IMPOSSIBLE?  I'm possible

NIKYANG

Thank you for making time to see SmartLab!

nikyang.com/smartlab