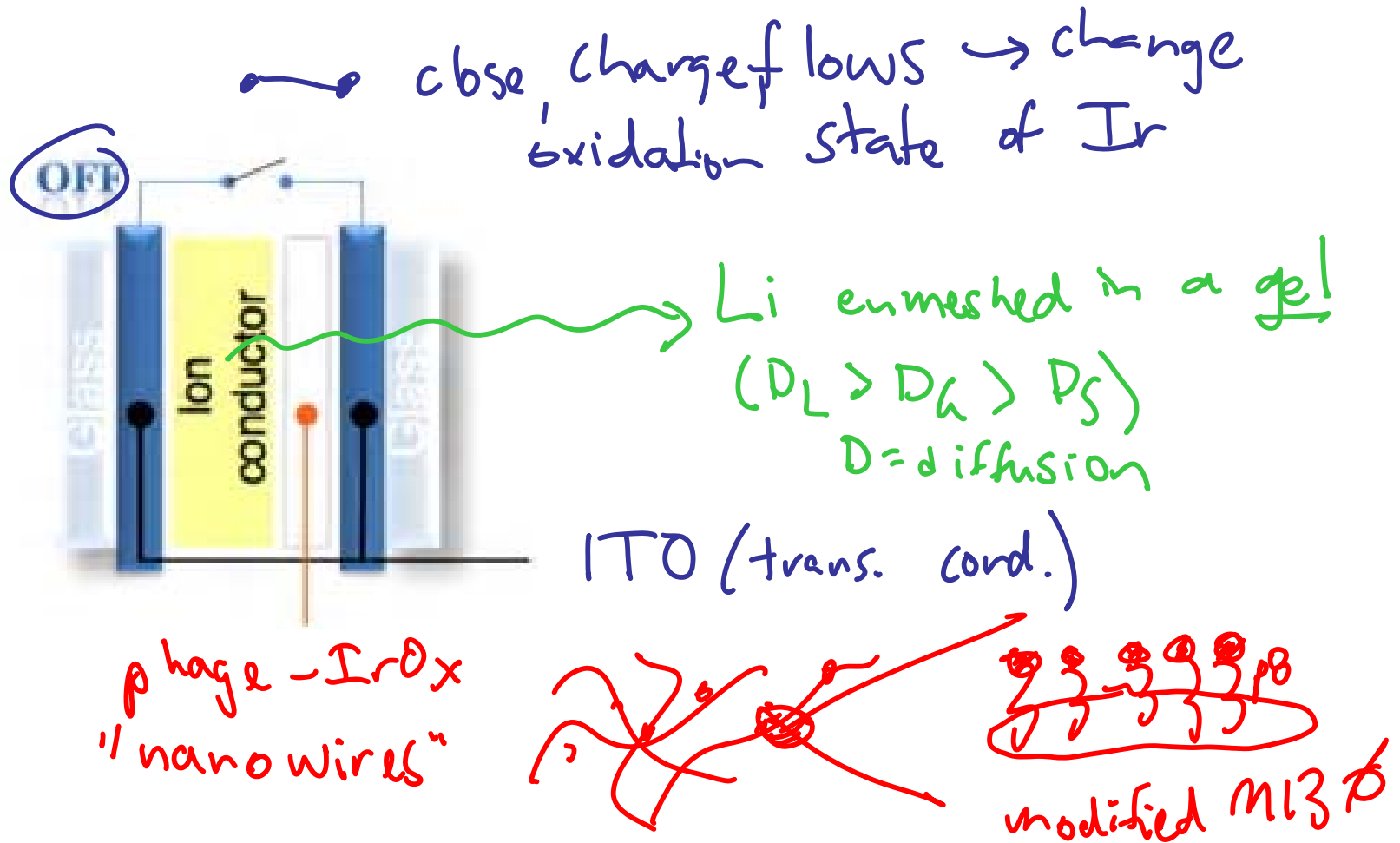


- Announcements
- Lab Quiz
- Pre-lab Lecture
 - ❖ ECD System
 - ❖ Today in Lab, FNT

Announcements

- BE Seminar this week is Prof. Matt Lang
biophysics, cytoskeletal proteins
- Proposal presentations next Friday
- Tuesday, Dec. 9th
 - Discussion + evaluations during lecture
 - Lab party afterward (food, games, etc.)

Electrochromic Device



Original image from Yoon Sung Nam

Future Areas of Research

ITO drawbacks:

- high cost
- limited supply of iridium
- fragile and inflexible
- costly deposition under vacuum

Carbon nanotubes as possible replacement?

Slide content from N. Kuldell

Status of phage and IrOx particles

- Phage - low PFU → use for TEM

supplement w/ high PFU ~~Ø~~ for ECD
(from AB lab)

- IrOx

horvath
→ x/n

Ir compound + sodium citrate

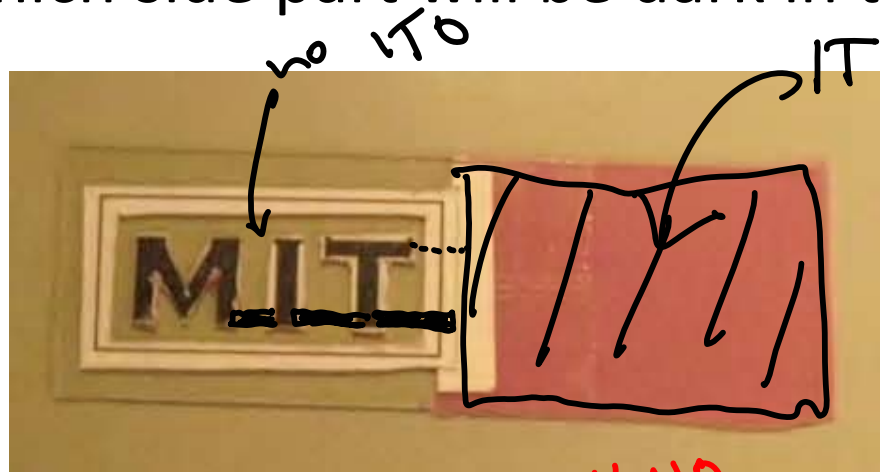
Wait 24 hrs → we waited 48 hrs.

Ion exchange, H₂O₂

Supplemented w/ AB lab materials

Today in Lab

- Prepare pattern on a slide
 - Must etch on the ITO side → use multimeter (in Ω 's)
 - Ensure that pattern is connected to ITO!
 - Which side part will be dark in the ECD?



* be careful using the exacto knives → wear safety glasses

↑ HCl, HNO₃ - teaching faculty

- Etch slide with aqua regia, clean and expose
- Today, FNT continue work on proposal