

Supervisor

- *Prof. Karen Tanino*
- department; Plant Sciences
- specialization
plant abiotic stress physiology
eco-physiology etc...



- ✘ My research field is molecular biology and biochemistry.
(especially mammalian)
I'm interested in protein 3D structure...

CLS (Canadian Light Source)

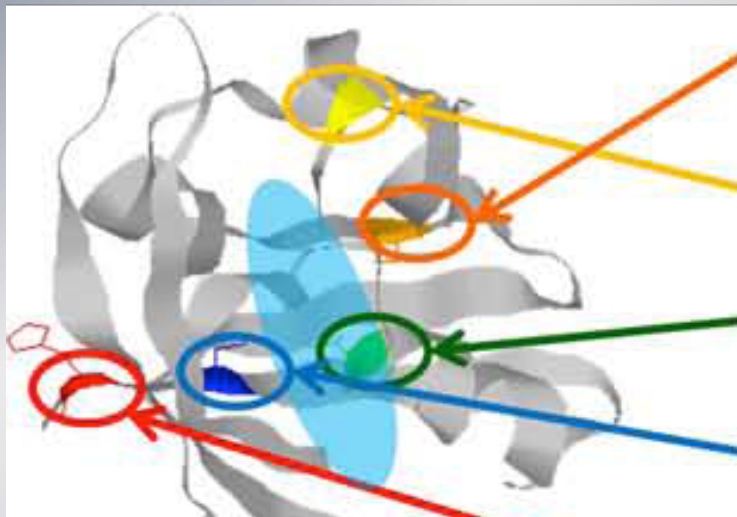


- Accelerated electron has powerful energy
- A synchrotron acts like a giant microscopy
- Use for analyze ;
protein 3D structure

the relationships between atoms and molecules, etc...

My research

- the mechanism of *CYP1A1* transcriptional activation via aryl hydrocarbon receptor (AhR)
- AhR is ligand-activated transcription factor
- 3D structure of AhR is not analyzed



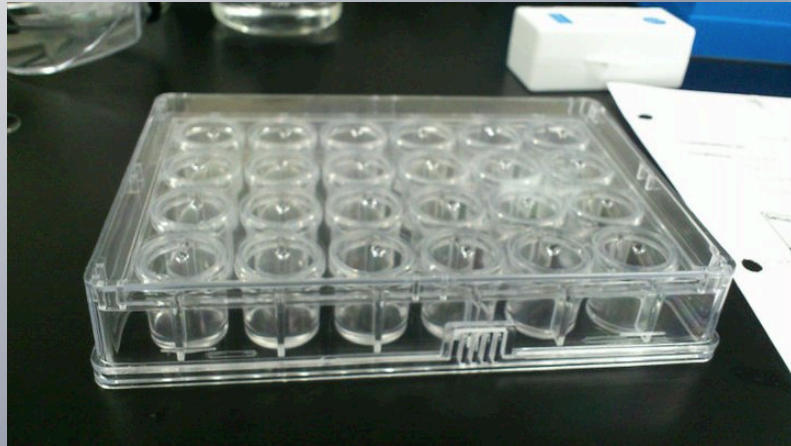
- to understand 3D structure
 - development of inhibitors
 - prevent cancer or disease

CLS (Canadian Light Source)

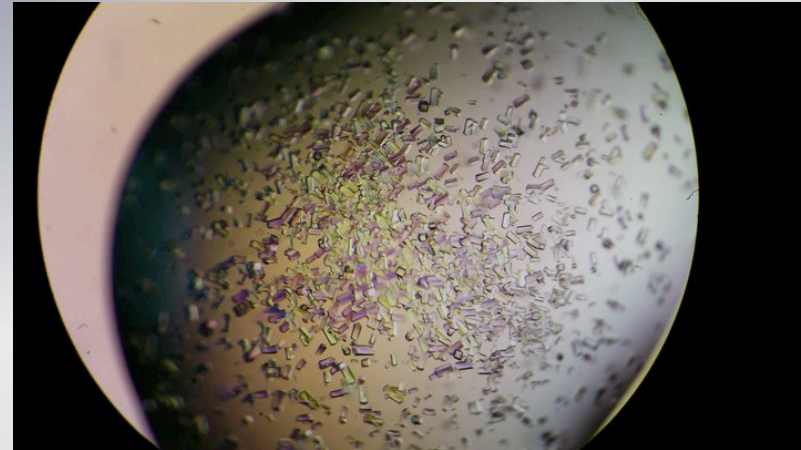


CLS (Canadian Light Source)

protein crystallization



protein crystals



by Dr. Michel Fodge

Activity

- Presentations and discussions
 - Dr. Keith Bonham (Saskatchewan Cancer Agency)
(transcription, epigenetics)
 - Dr. Stan Moore (Dept. Biochemistry, College of Medicine)
(protein crystallization and 3D structure analysis)
 - Dr. Hong Wang (Dept. Biochemistry, College of Medicine)
(cell cycle)

Summary

- I learned how to crystallize protein and 3D structure analysis
- It is easy to access and communicate another scientists in Canada
- There is a possibility that you go to abroad as a scientist in the future, I recommend you to enjoy the international atmosphere of the lab while you can.
(especially Japanese student)

Thank you for attention

- Prof. Karen Tanino and Mr. M.P.M Nair
- Dean Uemura
- Prof. Kikuchi (my supervisor)
- All staffs in the UGAS
 - Mr. Miyano
 - Ms. Ohtsubo