

**Report of Sakura Science Plan in University of Tsukuba**  
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**Outline**

1. At Tsukuba University
  - Lecture by professor
  - Visiting laboratory and experiment
2. Watch movie about Tsukuba University and visiting library
3. At Nature center RISEN laboratory
4. At Tokyo University of Agriculture
5. Art museum or Ueno zoo
6. Conclusion

## 1. At Tsukuba University

What have we learnt with professor?	Visiting laboratory and experiment
-To protect the soy bean and tomato by use molecular techniques	-Observation the plants growing in door -Observation the plants disease by bacterial and fungi
-How to separate the colloid from water by using simple techniques	-Observation how to separate the colloid from water by using Poly Ion Complex (PIC)
-How to extract RNA from seed plants and how to grow plants by tissue culture.	-Practice how to extract RNA and tissue culture from seed plant. -How to identify RNA present in the gel
-Learn about insect immunity for integrating pest management (IPM)	-Observation how insect living and growing in the box with artificial food. -Observation insect behavior for control the pesticide
-How to make electric by using paper	-To produce electric by paper code with silver and copper.



The activities during lectures and experiments in laboratory of Sakura Science at Japan 06-12 June 2016



## 2. Watch movie about Tsukuba University and visiting library

-To know the structure of Tsukuba University.

-To know about vision education.

-Learn more how to catalyst, prepare and manage the books.



### Visiting Library in Tsukuba University in Japan

## 3. At Nature center RISEN laboratory

-To support Cambodia at (Religion Teacher Training Center at Kompong Cham Province) by educate both teacher and students about Environment. For instance, to grow vegetable with compost especially, install of original equipment require by practice in or out door laboratory.



#### 4. At Tokyo University of Agriculture

- Learn the easy technique fish breeding.
- Learn the movement of sperm with osmotic pressure or brightness.
- Learn about chromatophore and sympathetic nervous of gold fish by microscope.



#### 5. Art museum or Ueno zoo

- Wonderful Video of Earth and Dinosaur construction.
- Dinosaur's skeleton (How big is it).
- Evidence of drift continece by fossil of plants and animals.
- Processing of Human evolution.
- Observe plants and animals.
- The evolution of Japan's technology.



#### 6. Conclusion

The program of Sakura Science Plan is very important for me as well as for Royal University of Phnom Penh, RUPP (sharing knowledge and experiences with students and staff) as a whole because I have learnt new methods and also experience with high tech instruments which we do not have in Cambodia. Moreover, I have learnt culture, food and environment in Japan. Especially, this is a good chance for me to search for future collaboration between the university.