

Science Project for Ryukyu Girls

Science Camp -vol.8-



Through interesting lectures and fun workshops, you will learn science in English. This will be a good opportunity to meet positive female role models who have developed their careers in science and technology fields.

Date: March 23rd ~ March 24th, 2019 Application: January 7th to February 6th

Venue: Okinawa Institute of Science and Technology Graduate University (OIST)

Applicants: 40 female junior high and high school students from Okinawa

Language: English

Participation fee: 3,000 yen (To cover refreshment, dinner on 23rd, and breakfast on 24th)

Accommodation fee: Free (We will provide air fare for the students from remote islands.)

Session1: "Honey bee learning centre"

Mariana Velasque Borges, Ph.D., OIST Ecology and Evolution Unit

The average honey bee brain is about 20,000 times smaller than a human, yet they are able to do extraordinary things. In nature honey bees can successfully navigate throughout a forest to find resources (flowers), return to their hive and communicate the location of the flowers to their nest mates. Whereas in the lab, scientists have discovered that honey bees are able to recognize shapes and even face-like patterns, making honey bees a unique group to study basis of learning and memory formation. Using honey bees as our model organism, we will investigate how hormones (serotonin and dopamine) affect learning and facial recognition.



Session 2: "Be a professional of food! About the island vegetables and dietary education"

Kazuna Miyagi, Associate Professor, Faculty of Agriculture, University of the Ryukyus

Traditional agricultural products (island vegetables) in Okinawa have been eaten since before the war, and are used in local dishes such as soup stock, champuru (stir-fry), and mbushi (stew). Eating plenty of island vegetables in local cuisine is considered to be one of the reasons behind Okinawan longevity. In recent years, it has also been reported that island vegetables contain a lot of nutrients that are considered good for health. During the lecture, I will introduce some educational activities concerning these wonderful island vegetables that were used with university students aiming to be nutritionists.



Organizers : University of the Ryukyus, OIST
Support: Okinawa Prefectural Board of Education (TBD)
Sponsor: Okinawa Prefectural Government (TBD), Okinawa Institute of Science and Technology Graduate University Promotion Council (TBD)
Contact: OIST Diversity Section
TEL : 098-966-2386 FAX: 098-966-8266 E-mail: diversity@oist.jp
This program is supported by "FY2018 JST Female Jr. high and high school student support program."

【Schedule】

Saturday, March 23rd

- 9:30 Pick up at OPG
- 10:00 Pick up at Naha airport
- 11:20 Arrive at OIST, Lunch
- 13:10 Session 1
- 15:00 Field trip (local bee farm)
- 17:20 Workshop
- 19:00 Dinner and the interaction
with students from OIST and
U of Ryukyus
- 21:00 Check-in to hotel

Sunday, March 24th

- 7:00 Breakfast at hotel
- 9:30 Session 2
- 10:30 Lab tour
- 12:00 Closing
- 13:00 Leave from OIST
- 15:00 Dismiss: Naha AP
- 15:30 Dismiss: OPG

※Schedule is subject to change due to program status.

※Partial participation is not allowed. In principle, participants are required to stay at the same hotel with other students and staff.

※Recreation insurance will be covered by the organizer during the program.

※Photos will be taken for the purposes of SNS advertisements, reports, and archives.

【Choice of the place to pick up and dismiss】

- ① Okinawa Prefectural Government(OPG) ② Naha AP ③ OIST

【Hotel】

TBD

Address: _____

Phone: _____

【Things to prepare】

Participation fee (3,000 JPY), writing materials, comfortable clothing, water bottle

【How to apply】

Please chose 1 or 2.

1. Online application : <https://groups.oist.jp/ged/event/science-camp-8>
(OIST Diversity Section website)
2. FAX: Please fill in the application form and send it to: 098-966-8266

【Notification of the selection result】

Notification will be announced around 4th week of February by phone and letter.

If there are more than 40 applications, participants will be selected based on the submitted essay, school and grade to ensure the diversity of participants.

This program is supported by the donation to OIST Promotion Council from the following companies and organizations.

Okinawa Institute of Advanced Sciences, Ryukyu Broadcasting Corporation, OKINAWA Science and Technology promotion Center, Okinawa Association of Corporate Executives, Okinawa-ken. Federation of Landowners Association of land used for Military Purposes., American Chamber of Commerce in Okinawa, JA Okinawa , Okinawa Prefecture Concrete Industry Association, Okinawa Prefecture Agriculture, Forestry and Fisheries Organization Mutual Aid Association , Okinawa Medical Association, General Association of Okinawa Prefecture Construction Industry Association , Okinawa Prefecture PTA Federation, Okinawa Industrial Federation, National housing land Building Transaction Guarantee Association Organization of Okinawa Headquarters, Okinawa Certified Public Tax Accountant's Association, Okinawa Churashima Foundation, Okinawa Prefecture Electric & Plumbing Association, Okinawa Pharmaceutical Association, Okinawa Telecommunication Network Co., Ltd., Okinawa Chamber of Commerce and Industry Association, Okinawa Chapter of Japanese Institute of Certified Public Accountants, Okinawa Dental Association, Okinawa Prefecture Hotel Ryokan life Sanitation Association, The joint-stock company Hennagumi, Okinawa Nursing Association, Okinawa Prefecture Bankers Association, Okinawa High School PTA Union Meeting, Okinawa Prefecture Physical Education Association, Okinawa Prefectural College of Nursing. (Total: 29 companies and organizations)