

(For JSPS Fellow)

Form B-5

Date (日付)

14/02/2018 (Date/Month/Year: 日/
月/年)

Activity Report -Science Dialogue Program-

(サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名): Gajula Gopinath (ID No.P17108)
- Participating school (学校名): Kita Junior High School, Shizuoka
- Date (実施日時): 25/01/2018 (Date/Month/Year: 日/
月/年)
- Lecture title (講演題目): Basics of Molecular Biology
- Name and title of your company (同行者 職・氏名)
Lee Jung (Doctor course student), Yoko Hamanaka (Master course student) from Laboratory of Insect Genetics and Bioscience, University of Tokyo
- Lecture format (講演形式):
 Lecture time (講演時間) 1:20 min (分), Q&A time (質疑応答時間) 4:30 min (分)
 Lecture style (ex.: used projector, conducted experiments)
(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))
Conducted a mating experiment with insects and also used the projector
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

My lecture started with an introduction of myself, like about my Laboratory and city from which I have come and about the present Laboratory in the University of Tokyo and about JSPS. After this, I gave a brief introduction about my working insect model, *Bombyx mori* and conducted a small mating experiment. While the mating is going on for 2hrs, I continued my lecture discussing about my country INDIA, rest of my research work along with the basics of molecular biology of DNA transcription and translation mechanism. In short, I explained the students that our DNA has genes and these genes show expression to give proteins. There are thousands of such proteins in every organism and they are involved in all the biological pathways and mechanism. After this, we had an interaction session for around 30 min, students asked few questions regarding my education, insect model and some basic doubts in molecular biology basics of my lecture. I have explained to them, with the help of my friend in Japanese. Students have asked some interesting doubts like what happens to the mRNA in the cell after translation and What is pheromone? etc., which are quite interesting level of thinking for their age, so from this I understood that they have followed something out of my lecture. Most importantly, almost all students except 2 students

(they cried because they don't like insects, teacher took care of them, it was not problem) enjoyed the mating experiment as they were excited to handle the insects. In the next day, I have also heard from the teacher that students have observed that the mated moths have laid eggs. So, I feel they have really had a very new experience from our interaction.

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

- 1) Based on my experience, the students of 9th grade are not following English very well, so I suggest the future participants to try to give their lecture in Japanese or at least by using few Japanese words.
- 2) Try to prepare their presentation slides under dark back ground and choose dark colors for the better visibility as the classrooms are generally very big.

- Other noteworthy information (その他特筆すべき事項):

- 1) I suggest if you direct to a nearby school for the lecture, it would be easy and convenient for the speakers or participants.

- Impressions and opinions from a company (同行者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。)

- 1) Some demonstration or practical about the work of the participants (JSPS fellows) is important, because students showed much interest in practical or demonstrations. The teacher in that school also suggested this, as the previous participants only gave lectures and there were no demonstrations, which was difficult to follow for the students.