

(For JSPS Fellow)

Form B-5

Date (日付)

(22/12/2017)

**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): Mohammad Golam Mostofa (ID No. P161167)
- Participating school (学校名): Aichi Zuiryou High School, Mizuho-ku, Nagoya 467-0811
- Date (実施日時): 13/12/2017
- Lecture title (講演題目): Plant and Environmental Sciences (植物と環境科学)
- Name and title of your company (同行者 職・氏名)  
RIKEN Centre for Sustainable Resource Science, Yokohama
- Lecture format (講演形式):
  - ◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 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))  
Powerpoint presentation using projector

- Lecture summary (講演概要): Please summary your lecture 200-500 words.

It is my great pleasure to having the opportunity to share the information about my country, my research and me with the Japanese high school students. My science dialogue lecture had consisted of three parts; namely brief introduction on my education, my career and story of becoming a scientist, information on my country Bangladesh, and finally on advanced research that I have done so far and intended to do in my postdoc. I have presented my research topic on plant and environmental interactions and the impacts of environmental pollution on living organisms, including plants and animals. Importantly, I have focused on my present postdoctoral research that covers the roles of plant hormones in environmental stress tolerance in plants. Plants can not move from one place to another and that is why they have to suffer from the adverse effects of a number of environmental stresses, such as high salinity, high temperature, drought and heavy metal toxicity. Modern agriculture practices, industrialization, urbanization and global climate change contribute to the environmental pollution, which threatens the quality of lives of all the inhabitants, including plants. We, plant scientists, are trying to understand the mechanisms of plant stress tolerance to develop plants with more productive potentiality under stress conditions. Plants also possess defense systems that help plant to survive under stress conditions. Plant hormones play vital roles in the growth, development and stress tolerance of plants. In my science dialogue lecture, I discussed how plants interact with the environment and

the contribution of plant hormones for better quality of plant-lives under stress conditions. I also talked about the importance of learning English in global aspect. Finally, I took a quiz based on my lectured topic. All the students were cheerfully participated throughout the lecture.

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

>This is a great opportunity to share our own culture and research with Japanese young generation. Our scholastic advice and suggestion might motivate the students to choose their careers in science and research for the welfare of human beings. Moreover, we are here to do most sophisticated research using the cutting edge technologies provided by Japanese government, thus it is a responsibility of all of us to share our experience with the Japanese young generation that may motivate them to contribute to the research of Japan in return.

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

>It was a great experience meeting with Japanese high school students. The school staff was very organized and helped me a lot to deliver my lecturer successfully. I enjoyed delivering the lecture, company of Japanese students and teachers. Thank you very much science dialogue for providing such an opportunity.

- 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。) Not applicable