

Form B-2
(FY2021)
Must be typed

Date (日付)
28/April/2021 (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): **Juan de la Cruz Jiménez Serna** (ID No. **P20393**)
- Name and title of the accompanying person (講義補助者の職・氏名)
Professor Mikio Nakazono
- Participating school (学校名): **Aichi Prefectural Zuiryo High School**
- Date (実施日時): **28/April/2021** (Date/Month/Year: 日/月/年)
- Lecture title (講義題目): **Adaptation of plants to climate change - Flooding**
- Lecture format (講義形式):
◆ Onsite ・ Online (Please choose one.)(対面 ・ オンライン)((どちらか選択ください。))
◆ Lecture time (講義時間) 55 min (分), Q&A time (質疑応答時間) 35 min (分)
◆ Lecture style (ex.: used projector, conducted experiments)
(講義方法 (例: プロジェクター使用による講義、実験・実習の有無など))
Projected powerpoint presentation
- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

I divided my talk in two sections, the first about my country and my career and the second about my research on how climate change affect plant grow and production. I started my presentation talking about my country, costumes, natural resources and history. Later, I talked about my career as a researcher, including some reasons for why I choose to study plants. I shared some personal experiences and talked about studying abroad and the benefits of learning other language and visiting other countries. In the second part of my talk, I explained general facts of climate change and how this is affecting plants. I emphasized on how rice plants adapt to flooding soils. I explained the major challenges that a regular plant face when grown in flooded soils and how morphological and anatomical changes in plant tissues contribute to an efficient internal oxygen transport system. I included photos and cartoons to explain major changes in root tissues in plants grown in either drained or flooded soils. After explaining this, I showed some pictures and asked the students to identify whether the root anatomy was characteristic from drained or flooded soils. In general, the students responded correctly, indicating they understood my explanations. I

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finalize my talk explaining how this knowledge can be used to develop plants with improved tolerance to flooding conditions. After my talk, students asked lot of questions about different topics including climate change, root modifications, methodological aspects of my research as well as the natural diversity in my country.

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

It was nice to receive many questions from students, demonstrating that the students were interested on the topic.

- Impressions and commnets from the accompanying person (講義補助者の方から、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。):