Web 掲載用

SD4692
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（学校用）

様式 A-1
(FY2025)

令和7年　10月　28日

サイエンス・ダイアログ　実施報告書

1. 学校名:愛知県立春日井高等学校

2. 講師氏名:Dr. Yan YI（Ms.）

3. 講義補助者氏名:なし

4. 実施日時:　令和7年　10月 20日（月）　10:50　～　12:40

5. 参加生徒:　2年生　36人、　3年生　38人、　（合計　74人）
   備考: 理数コースの生徒

6. 講義題目:二酸化炭素濃度の上昇が植物の老化を促進させるメカニズムの解明

7. 講義概要:講師の出身国(中国)の紹介、研究職に就いた経緯、研究の概要や今後の展望

8. 講義形式:
   ☑対面 ・ □オンライン （どちらか選択ください。）
   1) 講義時間　60 分　質疑応答時間　30 分

   2) 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）
   プロジェクター使用による講義

   3) 事前学習
   ☑有 ・□ 無 （どちらか選択ください。）
   使用教材: 概要資料

9. その他特筆すべき事項:

For Web posting

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Form B-2
(FY2025)
Must be typed

Date（日付）
20/10/2025 （Date/Month/Year：日/月/年）

Activity Report -Science Dialogue Program-
（サイエンス・ダイアログ 実施報告書）

- Fellow's name（講師氏名）: Yan YI （ID No.P24094 ）

- Name and title of the lecture assistant（講義補助者の職・氏名）

- Participating school（学校名）: Aichi Prefectural Kasugai High School

- Date （実施日時）: 20/10/2025 （Date/Month/Year:日/月/年）

- Lecture title（講義題目）:
Crop Responses to Elevated Carbon Dioxide

- 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） 100 min（分）, Q&A time（質疑応答時間） 25 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））
  Used projector with slide show

- Lecture summary（講義概要）: Please summarize your lecture within 200-500 words.

The lecture was divided into four main sections.

Firstly, I began with a brief introduction to my home country, China, drawing on my personal experiences to illustrate its rich and diverse culture. I focused especially on four cities where I have lived—Wuhan, Lanzhou, Changchun, and Xichang—each of which has its own unique traditions, landscapes, and lifestyles that reflect different aspects of Chinese society. Through these examples, I aimed to help the audience gain a more vivid and authentic understanding of China's regional diversity and cultural depth.

Secondly, I discussed my motivation for choosing scientific research as my lifelong career. I shared how I transitioned from studying biology to agricultural science, and how this change allowed me to bridge fundamental science with real-world applications. During this part, I also reflected on the deep connection between scientific research and social responsibility,

emphasizing that research is not only about academic curiosity but also about contributing to human welfare and sustainable development. I expressed my belief that scientists have a duty to address global challenges such as food security.

Lastly, I presented my current research topic, which focuses on crop responses to elevated carbon dioxide levels. I explained the significance of this study in the context of global climate change, highlighting how understanding plant physiological and ecological responses to atmospheric CO_2 enrichment can guide agricultural practices. My goal was to show how scientific findings can be translated into meaningful actions that benefit both farmers and ecosystems.

Finally, we moved into an open discussion session. I was delighted that many students actively participated and asked insightful questions about my research. Their curiosity and enthusiasm deeply impressed me, and I felt grateful for the opportunity to exchange ideas and inspire one another through this meaningful academic dialogue.

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

- Impressions and comments from the lecture assistant（講義補助者の方から、本プログラムに対する意見・感想等がありましたら、お願いいたします。）: