

様式 A-1
(FY2023)

2023年10月30日

サイエンス・ダイアログ 実施報告書

1. 学校名・実施責任者氏名: 栃木県立宇都宮女子高等学校 ・ 大關 敬智
2. 講師氏名: Dr. Hongshen HE
3. 講義補助者氏名: なし
4. 実施日時: 2023年10月30日 (月) 15:20~16:30
5. 参加生徒: 1 年生 80 人、 年生 人、 年生 人 (合計 人)
備考: 特になし
6. 講義題目: 記憶プロセスにおける海馬CA2野の動態の解明
7. 講義概要: マウスのCA2野における記憶形成時の様子を動画等で視覚的に説明
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 40 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 (どちらかに○をしてください。)
使用教材 講義概要のプリント
9. その他特筆すべき事項:
質問が途切れず、たいへん充実した時間を過ごせました。

Form B-2
(FY2023)
Must be typed

Date (日付)
31/10/2023 (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): Hongshen He (ID No. P22077)

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

N/A

- Participating school (学校名): Utsunomiya Girls' High School

- Date (実施日時): 30/10/2023 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Knowing your brain, knowing your superpower

- 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) 50 min (分), Q&A time (質疑応答時間) 40 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))

Powerpoint with projector

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

During the lecture, I shared my journey in science, from my educational pursuits to my research interests, offering a glimpse into the passions that drive my work outside of the laboratory. We delved into the heart of my research and explored the world of neuroscience, focusing on three dimensions from mesoscale to network level: neurons, circuits, and species. At the neural level, we examined place cells - the GPS in our brain - and unraveled their profound influence on our daily lives. We also delved into the diverse cell types that orchestrate these neural messages. At the circuit level, the highlight of my work is the examination of the cognitive functions of hippocampal sub-areas. While these findings originate from rodent models, the similarities between rodent and human brains emphasize the universal principles governing cognition (species). By understanding these principles, we gain extraordinary insights that empower us to navigate the complexities of our world and embark on new visions towards the beauty of science. During the Q&A session, we discussed the scientific and life diversity between different countries, and I shared my personal experience of facing language barriers, life obstacles, research bottlenecks, and so on. The students were motivated to pursue their own research dreams.

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

The school that I visited, Utsunomiya Girl's High School, is the oldest public girl's high school in Japan, with a history of 147 years. I received a warm welcome from both the school staff and students, and it was such an honor to communicate with all of the young geniuses. I was also inspired by their creative thinking and intricate questions, which led us to extend the Q&A session to 40 minutes.

- Impressions and comments 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.):

There was no accompanying person.