

様式 A-1
(FY2023)

2023 年 10 月 17 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: 香川県立香川中央高等学校・八田由美
2. 講師氏名: Dr. Mona Anas Sheta
3. 講義補助者氏名: 岡本 侑太郎
4. 実施日時: 2023 年 10 月 16 日 (月) 15:40 ~ 17:00
5. 参加生徒: 1 年生 2 人、 2 年生 4 人、 3 年生 8 人 (合計 14 人)
備考: 参加希望者
6. 講義題目: Cancer biology : How cancer start!
7. 講義概要: 講義で登場する専門用語を紹介するパズルを解く
講師の出身国エジプトについての紹介 (観光地、食べ物、衣装など)
がん細胞と正常細胞との違い
がん細胞のもつ性質
細胞間のコミュニケーションを行う小器官について (講師の研究内容)
講義に対するクイズ
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 50 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 , 講師自作のパズルを解く
- 3) 事前学習
有 ・ ☒ (どちらかに○をしてください。)
使用教材
9. その他特筆すべき事項:
講師の方が、忙しいのにも関わらず、専門用語に接しやすようにパズルを作ってくださったり、講義の合間に机間巡視しながら質問して生徒に話しかけてくださったりと、生徒の興味関心が随分と高まったように感じた。とても意義深い講演になったと思う。同行者としてきてくださった学生さんも、講義内容について補助的な解説を入れてくださり、理解の助けになっていた。関係各位に大いに感謝申し上げたい。

Form B-2
(FY2023)
Must be typed

Date (日付)
24/10/2023 (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): MONA ANAS ELSAYED EBDELMOETY SHETA
(ID No. P22409)

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

- Participating school (学校名): Kagawa Chuo high School

- Date (実施日時): 16/10/2023 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):
How Cancer Start!

- 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) 20 min (分), Q&A time (質疑応答時間) 10 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

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

Cancer, a term that has evoked fear and curiosity for centuries, was the subject of my recent lecture at Kagawa Chuo High School. In my talk, "How Cancer Starts," I delved into the multifaceted world of cancer, exploring its origins, risk factors, defense mechanisms, tumor microenvironment, and the intriguing role of Extracellular Vesicles (EVs).

Cancer, a word that conjures dread, finds its etymological roots in the Latin term for crab, "cancer." The term was coined due to the way cancer cells can extend tendrils into surrounding tissues, resembling the shape of a crab. But what exactly is cancer? It's a complex group of diseases characterized by the uncontrollable division and growth of abnormal cells.

Understanding the risk factors that contribute to cancer is vital. These factors include genetics, exposure to carcinogens, lifestyle choices like smoking and poor diet, and even infections. Equipping ourselves with this knowledge empowers us to make informed decisions about our health.

Our bodies are equipped with remarkable defense mechanisms to thwart the development of cancer. The immune system plays a crucial role in recognizing and destroying abnormal cells. Moreover, lifestyle choices such as a balanced diet, regular exercise, and avoiding carcinogens can fortify our natural defenses.

The tumor microenvironment is another fascinating aspect of cancer. It's a dynamic, intricate ecosystem where cancer cells interact with normal cells, fostering their growth and evading the immune system. This understanding has paved the way for innovative treatments targeting the tumor microenvironment to hinder cancer progression.

One of the most exciting frontiers in cancer research is the study of Extracellular Vesicles (EVs). These minuscule packages secreted by cells contain vital information, including genetic material, which can be exchanged between cells. Researchers are now investigating the role of EVs in cancer development and progression, potentially opening new avenues for diagnosis and treatment.

In conclusion, "How Cancer Starts" is a journey through the enigmatic world of cancer, from its etymology to the latest scientific breakthroughs. By comprehending the risk factors, bolstering our defense mechanisms, and exploring the intricate tumor microenvironment and EVs, we are inching closer to demystifying cancer and developing more effective strategies for prevention and treatment. The fight against cancer continues, fueled by knowledge and innovation.

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

- 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。):

