

(For JSPS Fellow)

Form B-2
(FY2018)

Date (日付)
23/03/2019 (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): Yuan Chi (ID No. P18093)
- Participating school (学校名): Yamanashi Prefectural Yoshida High School
- Date (実施日時): 08/03/2019 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): Cell surface receptor-leukotriene B4 receptors.
- Name and title of your accompanying person (講義補助者 職・氏名)

- Lecture format (講演形式):
◆Lecture time (講演時間) 45 min (分), Q&A time (質疑応答時間) 20 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))
Talk with ppt, followed by Q&A

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

My lecture is about cell surface receptors. My talk includes two parts: first, is about My personal information. Second, is about My research. In the part of My personal information, I showed the students about (1) Who am I. (2) Where did I come from. (3) The similarities and differences between japan and china. (4) The reason of why I came to japan. (5) Why did I become to a scientist. In the part of My research, I introduced my studies about cell surface receptor leukotriene B4 receptors. Cell surface receptors are important proteins that mediate communication between the cell and the outside world. Extracellular ligands bind to the receptor, triggering conformational changes that initiate intracellular signal transduction. Leukotriene B4 (LTB4), a lipid mediator produced from arachidonic acid, is a chemoattractant for inflammatory leukocytes. Our lab identified two receptors for LTB4, the high-affinity receptor BLT1 and the low-affinity receptor BLT2. BLT1 is expressed in various subsets of leukocytes, LTB4/BLT1 axis enhances leukocyte recruitment to infected sites, and is involved in the elimination of pathogens. BLT2 is highly expressed in epithelial cells in various tissues and in pulmonary endothelial cells. BLT2 plays an important role in epithelial

barrier function. In recent studies, we found that BLT2 plays protective role in lung epithelia against pneumolysin (PLY)-induced cell injury. After the lecture, the students asked several nice questions.

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

English accents make it more difficult for students to understand. Use less technical terms, and speak slowly and clearly so it is easy for students to understand.

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

I was very enjoyed in this lecture. Ymanashi prefectural Yoshikda High School who supported me and orgnised the event were fantastic. The teacher inviting me (Miki KOBAYASHI and other staff membranes) were very enthusiastic about my lecture. They were very polite and helpful throughout my visit. And, I was impressed by their work and effort. The students even printout a welcome message to me. Thanks to schoolmaster, I first time to standing on the roof to see the Mount Fuji. I felt really welcomed by them and I am very happy to have participated in this event.

- 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。)