

(For JSPS Fellow)

Form B-2
(FY2018)

Date (日付)

16/11/2018

(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): Dr. Michael Shannon (ID No. _____)
- Participating school (学校名): Kobe High School
- Date (実施日時): 6/11/2018 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): Biophysics and super resolution microscopy: Why it might be fun to become a scientist
- Name and title of your accompanying person (講義補助者 職・氏名)
Ryuji Nakagawa
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 60 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))
Projector lecture, free discussion in small groups, a rest!
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

I'm Michael Shannon, a biophysicist working on super resolution microscopy (STORM, PALM and SIM) to discover new things about white blood cells or 'leukocytes' in the immune system. At the moment, I work in a laboratory in Osaka, but I became a doctor of philosophy (PhD) in London, UK. In this lecture I will tell you a bit about what it is like in my country, and the main differences to here. Becoming a research scientist was a many faceted decision, so I will tell you what I find important. After that, I will talk to you about super resolution microscopy and immune cells, as well as protein engineering. I will give you an idea of where I think these fields are going, and how you could get involved in them. I will also elucidate where I think science is going, and how the nature of work will probably change in the next decade. Nothing happens in a vacuum: science is always contextual and so it is important to see how it fits into world events and cannot exist in isolation. Having set up this broader picture of how science fits into society, I would like to share what I think are some good traits to have to do good research, and how you might get there from high school.

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

An excellent program. I loved seeing the school and meeting all of the people there. I am used to adults, not kids – it was a great introduction.

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

Kobe high school is beautiful.

- 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。)