

(For JSPS Fellow)

Form B-2
(FY2018)

Date (日付) 23/01/2019

(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) : ROMANO DE PAULA Valéria
(ID No. P17803)

- Participating school (学校名): Ena High School – Gifu Prefecture

- Date (実施日時) : 23/01/2019
(Date/Month/Year: 日/月/年)

- Lecture title (講演題目): Social networks in primates: from information to pathogen transmission

- Name and title of your accompanying person (講義補助者 職・氏名)
none

- Lecture format (講演形式):

◆Lecture time (講演時間) 40 min (分), Q&A time (質疑応答時間) 10 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 and conducted experiments

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

As a behavioural ecologist, I work on the interface between social transmission and evolution of social structure in animal societies. In this talk, I presented how our network of contacts (e.g. friends, colleagues, family) influences the spread of information (e.g. score of a baseball game, fake news) and pathogens (e.g. flu, lice). For example, the stronger the relationship with a friend, the faster the information transmission will be. I showed that this is also true for our animal relatives, the non-human primates, and presented how social network analysis play key roles for information and pathogen spread. I gave examples combining empirical data from wild primate species, including Japanese macaques and gorillas, and a network model that simulate respiratory viruses' transmission. With the high school students, we performed an experiment in the classroom by looking at information spread related to students proximity and latency for spread. Students could then actively participate in the talk. Furthermore, I introduced my academic path until my arrival in Kyoto University. By sharing experiences, such as my decision to become a biologist and later a scientist, I hope to have stimulated students to consider a career in science.

Keywords: social relationships, social behaviour, transmission process, Japanese macaques

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):
Subscribe! That is a great initiative from JSPS that allows us to learn more about the Japanese educational system, meet English-speakers staff, have a direct feedback from the high school students and hopefully, make some difference in their future. My experience was very good and I would definitely subscribe again.

- Other noteworthy information (その他特筆すべき事項):
Contact with Ena High School was very smooth and enjoyable.

- 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。)

The school did not require an accompanying person.