

(For JSPS Fellow)

Form B-5

Date (日付) 20 February 2017

(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): Subramanian Sankaranarayanan (ID No. P 15388)

- Participating school (学校名): Gifu Prefectural Ena High school

- Date (実施日時): 17/February/2017 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Unraveling the secrets of pollination in plants

(in Japanese) 植物の受粉の秘密を解明する

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

Every living species on this planet, including plants sustain their population by creating offspring. One of the ways by which flowering plants create their offspring (seeds) is by pollination. Pollination is the act of transferring pollen grains from the male anther of the Flower to the female stigma. The pollen tubes (male germ unit) navigate a long route from the stigma, through the transmitting tract over a considerable amount of time and target the individual ovules for fertilization. Seeds, which are important source of food, are formed as a result of successful pollination and fertilization. Several molecules including peptide LUREs act as guidance cues during the journey of the pollen tube towards the ovule. Understanding pollination at a molecular level can help scientists to create hybrid crops and improve food production. Besides its importance in food production (agriculture), pollination is also a beautiful process that brings together many disciplines of science like botany, entomology and ecology.

- Language used (使用言語): English

- Lecture format (講演形式) : **Power point presentation: Outline, Cultural perspective, Educational Perspective, Why I become a Scientist?, Unraveling the secrets of pollination in plants**

◆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))

Projector

- ◆Interpretation (ex.: assistance by accompanied person, provided Japanese explanation by yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))

Assistance by school teacher

- ◆Name and title of accompanied person (同行者 職・氏名)

Nil

- ◆Other note worthy information (その他特筆すべき事項):

Apart from the research topic, the lecture also focused on cultural and education experiences related to the speaker in different countries. The lecture also focused on why Science is exciting and why doing science is important. This was intended to motivate the students to get involved in Science.

- Impressions and opinions from accompanied person (同行者の方から、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。):

Nil