

(For JSPS Fellow)

Form B-5

Date (日付)

\_\_\_\_\_ (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): Laxmi Kumar Parajuli (ID No. P15409)

- Participating school (学校名): Ichikawa High school, Chiba

- Date (実施日時): 30/09/2016 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Who are we?

(in Japanese)

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

I started my lecture with the general introduction of the brain. I was rather different from the textbook style introduction in the sense that I gave specific examples to the students to appreciate why brain parts are important. Thereafter, I showed pictures of neurons at the level of light and electron microscope. I showed some immunogold labeling pictures at the electron microscopes level to show that we can precisely identify the location of various proteins in our brain. In my impression, students appreciated the examples that I provided and enjoyed the pictures and the movie that I showed. I talked mainly about how memory is formed and stored at the level of synapses. I also showed examples about what type of structural changes accompany memory storage. Using illustrations from my own experiments, I tried to explain students why their is a saturation limit for the memory storage in the brain. I also discussed about the current state of the art technologies that are currently being exploited in the Neuroscience labs around the globe. Furthermore, I discussed about the scientific, cultural and ethical challenges that we face at the moment to fully unveil the beauty and the potential of the brain.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 30 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))

Used 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))

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◆Name and title of accompanied person (同行者 職・氏名) Shunsuke Mizutani  
Ph. D. Student in the laboratory of Prof. Shigeo Okabe at the University of Tokyo

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

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- 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。):

Dr. Mizutani was very positive about the overall quality of the lecture. He was very knowledgeable and carefully helped me to explain my concepts to the students.