

(For JSPS Fellow)

Form B-5

Date (日付)

15/10/2015

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): Kerever Aurelien (ID No. P15120)

- Participating school (学校名): Ichikawa Gakuen Ichikawa Senior High School

- Date (実施日時): 14/10/2015

- Lecture title (講演題目): (in English) Imaging in Neurosciences

(in Japanese) 神経科学におけるイメージング

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

After a self-introduction, I compared French and Japanese education system. I then presented the different steps that lead me to become a scientist and explained the importance of English for scientific communication. I presented a brief history of brain imaging (anatomy, histology) by showing the works Da Vinci, Vesalius, Golgi, Cajal. I finished the introduction by presenting the different cell types that are found in the central nervous system, and their role. I then moved on to my research topics. First, I explained to the student the role of neural stem cells environment in neurogenesis. Then, I presented recently developed imaging technics that consist in rendering the brain transparent in order to perform 3D imaging of wide area with a single cell resolution. I closed my lecture with a word on the importance of the scientific method and what it means to be a scientist.

For the experiment, we observed histological section of adult mouse brain under the microscope. I also showed the student whole mouse brains and embryo samples that were rendered transparent in our laboratory.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 45 min (分), Q&A time (質疑応答時間) 15 min (分),

Experiment: 30 min

◆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))

Powerpoint slide, movies, microscopes

◆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))

Yusuke Yoshimura helped me translate some of the slides, and helped during the Q&A

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

Yusuke Yoshimura undergraduate student in Juntendo University school of medicine

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

- 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。):