

(For JSPS Fellow)

Form B-5

Date (日付)

24.11.2011 (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): Lukasz Kotula (ID No. P 10095)

- Participating school (学校名): Aichi Prefectural Zuiryo Senior High School

- Date (実施日時): 09.11.2011 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) Adaptations of plants to waterlogging stress

(in Japanese) 植物の湛水ストレスに対する適応

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

This lecture was held at the Nagoya University. It consisted on two parts. In the first part I introduced myself and my country – Poland. I briefly introduced Polish history, present-day Poland, education system in Poland, famous Polish, traditions and customs in Poland, Polish cuisine. After finishing this part, there was time for asking questions. Subsequently I presented basis of my research, which is related to adaptations of plants to waterlogging stress. I explained what is soil waterlogging, what are the major stresses associated with it, and how plants adopt to survive in waterlogged soils. After finishing this part, there was time for asking questions. Subsequently, accompanied person – Prof. Mikio Nakazono presented, in Japanese, some facts regarding Nagaoya University and School of Bioagricultural Sciences. Next, we explained experiments we were going to show in our laboratory. After finishing this part, students were divided into three groups accompanied by one of our lab members and we moved to the laboratory. We presented 3 different experiments: (i) making root cross-sections using vibrotome, staining with histochemical stains and observing under microscope (experiment shown by myself); (ii) laser microdissection method – method of isolating of specific group of cells (iii) GFP staining – visualization of the distribution of the target molecule within the cell. Each experiment was shown to each group of students. It took about 20 min to present one experiment – total time 60 min. After finishing this part, we took a group photo.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 110 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))

Used projector and conducted experiments

◆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))

Assisted by accompanied person

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

Prof. Mikio Nakazono

◆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。):