

(For JSPS Fellow)

Form B-5

Date (日付)

25/9/2013 (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): Noureldin Abulefadl Noureldin Ghazy (ID No. P 13084 )- Participating school (学校名): Osaka Prefectural Hirakata Senior High School- Date (実施日時): 24/9/2013 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Environmental and molecular approach for cold storage of natural enemies(in Japanese) 環境要因と分子生物学的要因からのアプローチによる天敵生物の冷蔵保存の研究

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

Biological control is the method of controlling agricultural pests using natural enemies (e.g. predators). Predatory mites are well-known natural enemies, and its commercial products are available so that the farmers can easily order and use it to suppress the pests. However, the products have a very short expiry date of maximum two days. This means the product can be easily lost in case of shipment delay or unfavorable weather, which affects the prices and people appeal to use biological control. In our research, we are developing a storage method to extend the expiry date of predatory mite by manipulating biotic and abiotic environment, mainly relative humidity, temperature and nutrition. We could so far extend the expiry date to two months instead of two days as recommended by commercial companies.

- Language used (使用言語): English and Japanese

- Lecture format (講演形式):

◆Lecture time (講演時間) 50 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))

Power Point Presentation and microscope

◆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 accompanied person

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◆Name and title of accompanied person (同行者 職・氏名) Mr. Murata Yasumasa  
2<sup>nd</sup> year master course student, laboratory of Ecological Information, Graduate School of  
Agriculture, Kyoto University

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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。):

Many thanks to Mr. Murata for English-Japanese translation