

Form B-5

Date (日付)

20/9/11

(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): Anna Barron (ID No. P10803)

- Participating school (学校名): Takasaki Girls High School

- Date (実施日時): 6/9/11 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English)Hormone-based therapies for Alzheimer's disease

(in Japanese)

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

Alzheimer's disease is the leading cause of dementia. Clinically, Alzheimer's disease is characterised by memory loss, personality changes, depression, anxiety, loss of bodily functions and incontinence, eventually leading to death. Increasing age is the most significant risk factor for the development of Alzheimer's disease. A promising strategy to delay and perhaps prevent Alzheimer's disease is to identify the age-related changes that put the brain at risk. A significant normal age change that is known to increase the risk of disease is the depletion of sex hormones. In women, menopause results in a rapid and extensive loss of the sex hormones estradiol and progesterone. In men, aging is associated with a comparatively gradual, yet significant, decrease in testosterone. These age-related losses, of estradiol in women and testosterone in men, may act as risk factors for Alzheimer's disease. My research focuses on the neuroprotective effects of estrogens and androgens. I am exploring the potential use of estrogen- and testosterone-based hormone therapies to combat Alzheimer's disease pathogenesis.

- 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) 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))

assisted by accompanied person

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

Ms Hinako Yoshino

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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。):