

(For JSPS Fellow)

Form B-5

Date (日付)

15-09-2016 (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): Alaa El-Din Hamed Sayed Aly (ID No. P 15382)- Participating school (学校名): Chiba Funabashi High School- Date (実施日時): 14-09-2016 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English)

Erythrocytes alterations after Gamma Irradiation in medaka fish

(in Japanese)

メダカにおける $\gamma$ 線照射後の赤血球の変化

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

Previous studies have examined the effects of  $\gamma$  -irradiation on Medaka (*Oryzias latipes*). Recent published paper was about the morphological alterations and nuclear abnormalities in erythrocytes of medaka as genotoxic biomarkers of  $\gamma$  -Irradiation (Sayed et al., 2014). Also, exposure of medaka to  $\gamma$  -radiation (10 Gy) induced apoptosis in the  $\gamma$  -irradiated fish compared with control fish. Many red blood cell malformations were observed after 10 Gy and 15 Gy  $\gamma$  -radiation. On the other hand, Morphological alterations in red blood cells were described as hematological bioindicators of UVA exposure (Sayed et al, 2016) to investigate the sensitivity to UVA in wild type Japanese medaka (*Oryzias latipes*) and those alterations included acanthocytes, cell membrane lysis, swollen cells, teardrop-like cell, hemolyzed cells and sickle cells were increased after the UVA exposure both in wild type. nuclear abnormalities as eccentric nucleus, nuclear budding, deformed nucleus, and bilobed nucleus were observed in exposed fishes.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 100 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))

Data show presentation and microscope investigation for RBCs and Exam

◆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))

Help of Mr Taro

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

no

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

Thanks for this invitaion and best wishes for all japanese peopole

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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。):

**This is the E-mail whic I recieved yesterday from Taro-san,**

Dear Sayed-sensei

Hello.

Thank you very much for coming to Funabashi High School today!

Both our students and teachers were very delighted and honored to be able to participate in your

wonderful and exciting lecture.

I believe this became a great experience for all of the students because through this valuable opportunity,

they learned how English language, friendly-communication skill and ,of course,

passion as a researcher are important

for their future as well as to become an attractive researcher like you.

I hope not only some of my students will go abroad to study for stopping pollution caused by human beings,

but also to give a wonderful lecture like you to students around the world.

Again, thank you very much and we would be very appreciated if we can continue to keep in touch.

Sincerely yours,

Taro Matsuhashi