

Form B-5

Date (日付)
25 July 2014 (Date/Month/Year: 日/月/年)

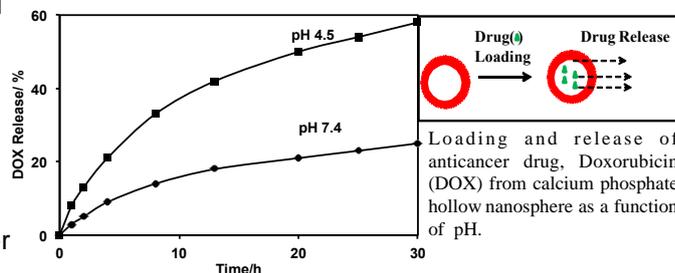
Activity Report -Science Dialogue Program-
 (サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名): Bishnu Prasad Bastakoti (ID No. P 13204)
- Participating school (学校名): Tama High School of Science and Technology (Koganei-city, Tokyo.)
- Date (実施日時): 16 July 2014 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): Nanotechnology: How Nanoparticles Improve Drug Delivery
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

The lecture was divided into three parts. The first part contained a brief introduction about myself. After completion of my Masters' level from Tribhuvan University, Nepal, I joined Saga University, Japan where I persued PhD. Now I am a postdoctoral reseacher (JSPS Fellow) at National Institute of Material Science, Tsukuba, Japan.

Second part of my lecture included a brief introduction of my country, Nepal. It is a small but naturally beautiful; famous for trekking, mountain climbing, jungle safari and so on.

In the third part, I briefly presented the recent development of nanotechnology, its biomedical application and my contribution to the field. Nanotechnology is the creation of functional materials, through the understanding and control of materials at dimensions in the nanometer scale length (1-100 nanometers) where new functionalities and properties of materials are observed. The properties of nanomaterials are completely different than its counter bulk materials. This is typically because nanoparticles have a greater surface area per weight than larger size particles, which cause them to be more reactive to some other molecules. The highly biocompatible materials such as calcium phosphate, calcium carbonate are used as nanocarriers for several drugs. Nanoparticles based drug delivery has several advantages over conventional delivery system (oral or injection delivery). The pH sensitive dissolution and highly biocompatible properties of calcium phosphate make it an efficient nanocarrier for several anticancer drugs.



- Language used (使用言語): English
- Lecture format (講演形式): Power Point Slide
 - ◆Lecture time (講演時間) 80 min (分), Q&A time (質疑応答時間) 15 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 Slide

- ◆ 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))

Accompanied Person

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

PROF. YUSUKE YAMAUCHI

- ◆ 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。):

His presentation is very impressive. He explained top-level results very carefully to high school students. They enjoyed listening to his lecture.