



Second Circular

10th Young Scientist Seminar

on

*Establishment of International Research Network for
Tropical Bioresources and Their Utilization*

**Organized by
Yamaguchi University**

**In association with
Japan Society for the Promotion of Science (JSPS)
National Research Council of Thailand (NRCT)
Vietnam Ministry of Science & Technology (MOST)
Yamaguchi University, Can Tho University
National University of Laos, Brawijaya University,
Beuth University of Applied Sciences, The University of Manchester**

16th – 17th November 2014

**Venue:
Yamaguchi-ken Seminar Park, Yamaguchi, Japan**

Invitation

On behalf of the Organizing Committee, we are pleased to invite you to the 10th Young Scientist Seminar (YSS) in Yamaguchi, Japan. This seminar will be held on 16th – 17th Nov 2014. The YSS aims to establish the international network among young researchers including students, who make every effort to do researches not only in the area of utilization of tropical bioresources but also in the biological field.

Venue

The 10th YSS will be held at the Yamaguchi-ken Seminar Park, Yamaguchi, Japan. This is a prefectural facility to provide a wonderful environment to meet with colleagues in a relaxing atmosphere.

The temperature in November ranges from 5°C in the morning to 17°C in the afternoon.

Organization Committee

<i>Chairperson</i>	Mochamad Nurcholis
<i>General manager</i>	Toshitaka Funahashi
<i>Financial manager</i>	Tomoko Kiseki
<i>Transportation</i>	Yutaka Terada
<i>Audio visual and placement</i>	Kunpei Kato Keita Noguchi
<i>Registration</i>	Saki Yoshida Kanao Ueno
<i>Abstract</i>	Seiki Nishida
<i>Secretariat</i>	Tomoko Sakurada Ms. Naoko Miyaji

Advisory Committee

General Coordinators

Prof. Dr. Kazunobu Matsushita
Dr. Napavarn Noparatnaraporn
Prof. Dr. Vo-Tong Xuan

Coordinators

Prof. Dr. Mamoru Yamada
Assoc. Prof. Dr. Gunjana Teeragool
Dr. Ngo Thi Phuong Dung
Assoc. Prof. Dr. Somchanh Bounphanmys
Dr. Anton Muhibuddin
Prof. Dr. Ing. Peter Gotz
Prof. Dr. Colin Webb

Committee members

Prof. Dr. Shinichi Ito
Assoc. Prof. Dr. Toshiharu Yakushi
Prof. Dr. Ken Maeda
Prof. Dr. Kenji Matsui
Assoc. Prof. Dr. Hisashi Hoshida
Assoc. Prof. Dr. Osami Misumi
Prof. Dr. Hiroshi Matsuno
Assist. Prof. Dr. Tomoyuki Kosaka
Assoc. Prof. Dr. Takaya Higuchi
Assist. Prof. Dr. Naoya Kataoka

Language of the Seminar

The official language of the Seminar is English and no translation facilities are available.

Seminar Theme

Establishment of international research network for tropical bioresources and their utilization

Social Program

An icebreaker party will be taken place in the evening of the 16th Nov, 2014

Insurance

All delegates are advised to take out their own health and life insurance for the duration of the Seminar.

Important Dates

Deadline for submission of the registration form: 15th Aug 2014

Deadline for submission of the abstract : 16th Sep 2014

*** Please submit your abstract before deadline. If you need to correct your abstract after the deadline, please inform us by E-mail, but not later than the end of September.**

When send the registration form (Excel file)

Please write [Registration form of 10th YSS, laboratory name, Country] as the E-mail title.

For example, Registration form of 10th YSS, Josei, japan

When send the abstract (Word file)

Please write [Abstract of 10th YSS, laboratory name, Country] as the E-mail title

For example, Abstract of 10th YSS, Josei, japan

Reply to

In the case of attendants from overseas :

Ms. Naoko Miyaji

Faculty of Agriculture, Yamaguchi University, 1677-1 Yoshida, Yamaguchi 753-8515, Japan
Tel: +81-83-933-5868, Fax: +81-83-933-5820, E-mail: jsps@yamaguchi-u.ac.jp

In the case of attendants from domestic areas :

Tomoko Sakurada

Graduate school of medicine, Yamaguchi University, 1677-1 Yoshida, Yamaguchi 753-8515, Japan
E-mail: u020uh@yamaguchi-u.ac.jp

Notice of acceptance of abstracts : 7th October 2014

For registration form (Excel file)

Laboratory name																											
Name	First name, Middle name, Last name																										
Gender	Male or Female																										
Nationality																											
Passport No.	Please copy your passport as a PDF file if you come from outside of Japan.																										
University.																											
Faculty																											
Position	<p>Fill in your abbreviated title.</p> <table border="1"> <thead> <tr> <th>Abbreviated Title</th> <th>Position</th> </tr> </thead> <tbody> <tr> <td>Prof.</td> <td>for Professor</td> </tr> <tr> <td>Assoc. Prof.</td> <td>for Associate Professor</td> </tr> <tr> <td>Assist. Prof.</td> <td>for Assistant Professor</td> </tr> <tr> <td>Lect.</td> <td>for Lecturer</td> </tr> <tr> <td>Res.</td> <td>for Researcher</td> </tr> <tr> <td>D3</td> <td>for Doctor 3rd year</td> </tr> <tr> <td>D2</td> <td>for Doctor 2nd year</td> </tr> <tr> <td>D1</td> <td>for Doctor 1st year</td> </tr> <tr> <td>M2</td> <td>for Master 2nd year</td> </tr> <tr> <td>M1</td> <td>for Master 1st year</td> </tr> <tr> <td>B4</td> <td>for Bachelor 4th year</td> </tr> <tr> <td>O</td> <td>for others</td> </tr> </tbody> </table>	Abbreviated Title	Position	Prof.	for Professor	Assoc. Prof.	for Associate Professor	Assist. Prof.	for Assistant Professor	Lect.	for Lecturer	Res.	for Researcher	D3	for Doctor 3 rd year	D2	for Doctor 2 nd year	D1	for Doctor 1 st year	M2	for Master 2 nd year	M1	for Master 1 st year	B4	for Bachelor 4 th year	O	for others
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Presentation	If you have a presentation, please write “○”. If you haven't a presentation, please write “×”.																										
Breakfast	<p>Choose breakfast on the 2nd day.</p> <table border="1"> <thead> <tr> <th colspan="2">Breakfast</th> </tr> <tr> <th>Western style</th> <th>Japanese style</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">×</td> <td style="text-align: center;">○</td> </tr> </tbody> </table>	Breakfast		Western style	Japanese style	×	○																				
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Food allergies or dietary restrictions	If you have any food allergies or dietary restrictions, please write.																										
E-mail																											

Remark;

Important Deadline
Submission of registration form: 15th August 2014



The 9th Young Scientist Seminar (17th-18th November, 2013)

Abstract format

The following format is required:

1. **A single page.** Adjust single line spacing.
2. Typewritten on an **A4** paper with margin as follows:
 - Top margin **1.0 inch**
 - Bottom margin **1.0 inch**
 - Left margin **1.5 inch**
 - Right margin **1.0 inch**
3. Use **Times** or **Times New Roman**
4. For Title, use bold letters in size 14 pt. and align centre.
5. For Authors and their addresses, use bold letters in size 10 pt. and italic letters in size 10 pt., respectively, and align left.
6. For Text, use font 12 pt.
7. File name: Please use your full name for the abstract file name.

For example, Toshitaka_FUNAHASHI.doc
Toshitaka_FUNAHASHI.docx

Oral presentation

1. **Invited speaker :** The duration of oral presentation is 25 minutes, and discussion is 5 minutes.
2. **Participant :** The duration of oral presentation is 10 minutes, and discussion is 5 minutes in group discussion.

Remark;

Important Deadline
Submission of abstract: 16th September 2014

Function of the 93rd arginine in *Escherichia coli* membrane-bound glucose dehydrogenase

Toshitaka Funahashi¹, Rieko Yamasaki², Tomoyuki Kosaka¹ and Mamoru Yamada^{1,2}

¹ *Biological Chemistry, Faculty of Agriculture, Yamaguchi University*

² *Applied Molecular Bioscience, Graduate school of Medicine, Yamaguchi University*

Membrane-bound glucose dehydrogenase (mGDH) as a quinoprotein, performs a direct oxidation of D-glucose to D-gluconate and transfers electrons to ubiquinone in the respiratory chain of *Escherichia coli*. Topological analysis revealed that mGDH as a monomeric apo-form of 87 kDa consists of a N-terminal transmembrane domain and a C-terminal catalytic domain locating in the preiplasm. mGDH possesses a bound-quinone (BQ) in its molecule, and requires pyrroloquinoline quinone (PQQ) and BQ for its catalytic activity. Previous studies revealed that the expressed C-terminal domain of mGDH (cGDH) showed instability due to proteolytic degradation, but the cGDH retained a weak activity, implying that the N-terminal domain has catalytic function. Whereas, the activity of R93A, amino acid substituted mGDH from arginine to alanine at 93rd in the N-terminal domain, was lower than that of the wild-type mGDH, suggesting that the 93rd arginine is important for the catalytic activity, presumably involving in association with BQ. However, the interaction between the arginine residue and BQ has not been defined yet.

In this study, to investigate the effect of amino acid substitution of the 93rd arginine, Q₂ reductase activity and quinone content of R93A mGDH were compared with those of the wild-type mGDH. Kinetics analysis showed that K_M for Q₂ of R93A mGDH was the same as that of the wild-type mGDH. Quinone extraction experiments revealed that higher amount of quinone was recovered from the purified R93A mGDH than the purified wild-type mGDH. Therefore, it is assumed that the 93rd arginine is directly associated with BQ.

Seminar Program (tentative)

This is a temporary Seminar Program of 10th YSS.

Seminar Program

- November 16th,**
- 8:00 Move from Yamaguchi University by bus
 - 8:30 Move from Shin-Yamaguchi Station by bus
 - 9:00 Registration
 - 9:30 **Open Ceremony**
 - :
 - Session I**
 - Chairman:
 - 9:40 1st Keynote: Assoc. Prof. Dr. Gunjana Teeragool
(Kasetsart University, Thailand)
 - 10:40 Coffee break
 - 11:00 Chairman:
 - 1st Invited speaker: Assoc. Prof. Dr. Nguyen Ban Ba
(Tay Do University, Vietnam)
 - 11:30 Lunch
 - 12:45 Group photo
 - 13:00 Group discussion (presentation of each young scientist)
 - 17:30 **Dinner and Mixer**
- November 17th,**
- Breakfast
 - Session II**
 - Chairman:
 - 9:00 1st Invited Speaker: Ms. Chansom Keo-Oudone
(National university of Laos, Laos)
 - Chairman:
 - 9:35 2nd Invited Speaker: Dr. Anton Muhibuddin
(Brawijaya University, Indonesia)
 - 10:10 Coffee break

Chairman:
10:30 **Oral presentation by 5 young scientists selected by each group**

12:00 Lunch

Chairman:
13:00 **Oral presentation by 3 young scientists selected by each group**

13:55 Coffee break

14:15 Chairman:
2nd Keynote: Vice-president, Prof. Dr. Fusanori Miura
(Yamaguchi University, Japan)

15:15 **Closing Ceremony**

16:15 Move to Shin-Yamaguchi station by bus
Move to individual final destination by Shinkansen

Expenses for participation

- Participants except for Keynote and Invited speaker *5,000 yen
- Students (Doctor, Master and Bachelor) *3,000 yen

*Costs for accommodation, mixer and breakfast of 2nd day