

令和4年4月1日

The Dean of UGSAS, Tottori University (official stamp omitted)

Notice of the Seminar “Academic Communication of Science I” in 2022

It will be carried out as the attached guideline.

This seminar comprises students’ oral presentation on their PhD dissertation research background and plan, and this is a required subject. In case you fail to attend this seminar, you will be unqualified to submit PhD dissertation and complete PhD course, so please be sure to attend this seminar before you attend “Academic Communication of Science II”.

No matter you attend or not, all the students should submit **a registration form** (attached) to the Academic Affairs Section of the United Graduate School of Agricultural Sciences, Tottori University (**Deadline 4/15 (Fri.)**)

For the students who will attend this seminar this year, please submit **summary of research presentation in English**, by A4 size. Fruits of researches before entering UGSAS can be included. The deadline for submission is **6 May (Fri.)**.

This seminar will be conducted online. The details of Online will be informed later.

- (1) Oral presentations: Students shall demonstrate the oral presentation on their research background and plan in the doctoral course for approximately 20 minutes (oral presentation for 15 minutes and Q&A for 5 minutes). PowerPoint of the demonstrator will be displayed on all participants’ PC screen. Please note as below and prepare your presentation data for this subject.
 - The presentations are attended by students with different areas of expertise. Presentation materials should be composed with emphasis and a focus on academic background, fundamentals, and future plans, and should be structured in such a way that the presentation can be understood by non-specialists.
 - An oral presentation should be in English.
 - The contents of the presentation should be written in English.
 - Please keep your presentation time. The presentation will be cut-off if the demonstrator cannot finish his/her presentation within his/her presentation time.
- (2) Summary of the research presentation: Please submit **one page summary with an English abstract and graphical abstract in English** (see sample), **A4 size, by e-mail (ag-rengaku@ml.adm.tottori-u.ac.jp) to the Academic Affairs Section of the United Graduate School of Agricultural Sciences (UGSAS)**. The deadline for submission is strictly **May 6th (Fri.)**. All the summaries will be compiled to be distributed to students in advance of this seminar.
- (3) Special lectures: One lecturer on May 19th at Online lecture room[※] of each university
 - ※ For the students who cannot come to Online lecture room, such as students with job, can take the Special Lecture online at his/her own room.
- (4) If you have any questions, please contact:
The office of UGSAS, Tottori University (ag-rengaku@ml.adm.tottori-u.ac.jp) or
Dr. Hidehiko Ogata (ogata@tottori-u.ac.jp).

Contact:

Academic Affairs Section, the United Graduate School of Agricultural Sciences, Tottori University
4-101 Koyama Minami, Tottori, 680-8553 (Tel) 0857-31-5446 (Fax) 0857-31-5683
(Mail) ag-rengaku@ml.adm.tottori-u.ac.jp

THE GUIDELINES OF THE SEMINAR “ACADEMIC COMMUNICATION OF SCIENCE I” IN 2022

1. PURPOSE

This seminar is held for the students of the United Graduate School of Agricultural Sciences. The purpose of the seminar is acquiring fundamental knowledge and technique on academic communication for conducting doctoral researches at UGSAS.

2. TERM

13:30 May. 18 (Wed.), 2022 (Online-connection confirmation: 13:00~) — 12:00 May. 20 (Fri.), 2022 (3days)

3. How to conduct

Academic Communication of Science I will be conducted Online*. No need to come to Tottori University.

※How to conduct by online will be informed later.

4. CONTENTS

Students' plan on the PhD dissertation research (oral presentations) and Special Lectures and seminar.

5. APPROVAL OF COMPLETION

When you complete the seminar, the United Graduate School of Agricultural Sciences admits your completion and credit.

6. INQUIRIES

Academic Affairs Section of the United Graduate School of Agricultural Sciences, Tottori University.

Tel: 0857.31.5446, Fax: 0857.31.5683 E-mail: ag-rengaku@ml.adm.tottori-u.ac.jp

2022 年度「科学コミュニケーション I」受講調査票

Registration form for the Seminar “Academic Communication of Science I” in 2022

学生番号 Student ID No. ()		配属大学 Univ. ()
氏 名 Name		
出 席 Attend	欠 席 Not Attend	欠席の理由 If ‘Not Attend’, please describe the reason of absence
どちらかに○ Choose by circling		
当日連絡のとれる電話番号 Cellphone Number while attending this subject		- -

- ☆ この調査票は、必ず**4月15日（金）**までに鳥取大学農学部連大学務係に提出して下さい
Please submit this form to Academic Affairs Section of the United Graduate School of Agricultural Sciences, Tottori University. (**Deadline 4/15 (Fri.)**)

FAX 0857-31-5683

- ☆ 変更がありましたら5月6日（金）の午前中までに鳥取大学農学部連大学務係にお知らせ願います。
Please be sure to inform any changes after the submission of this form by 12:00 May. 6 (Fri) to the Academic Affairs Section of UGSAS.

2022年度 鳥取大学大学院連合農学研究科「科学コミュニケーション I」日程表

Schedule of the "Academic Communication of Science I" 2022

		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1 s t d a y	第1日目 5月18日 (水) May. 18 (Wed)							オリエンテーション Registration, Attendance & Connection continuation 受付・出欠・接続確認 Orientation		口頭発表 (WebEx) Oral Presentation ① 進行 Chair 有馬 二郎氏 (鳥取大学) Dr. Jiro Arima (Tottori Univ.) 兵頭 正浩氏 (鳥取大学) Dr. Masahiro Hyodo (Tottori Univ.) 岩永 史子氏 (鳥取大学) Dr. Fumiko Iwanaga (Tottori Univ.)							
	第2日目 5月19日 (木) May. 19 (Thu)				口頭発表 Oral Presentation ② 進行 Chair 有馬 二郎氏 (鳥取大学) Dr. Jiro Arima (Tottori Univ.) 兵頭 正浩氏 (鳥取大学) Dr. Masahiro Hyodo (Tottori Univ.) 岩永 史子氏 (鳥取大学) Dr. Fumiko Iwanaga (Tottori Univ.)	朝食 Lunch	口頭発表 Oral Presentation ③ 進行 Chair 有馬 二郎氏 (鳥取大学) Dr. Jiro Arima (Tottori Univ.) 兵頭 正浩氏 (鳥取大学) Dr. Masahiro Hyodo (Tottori Univ.) 岩永 史子氏 (鳥取大学) Dr. Fumiko Iwanaga (Tottori Univ.)	本 壇 B r e a k 特別講義 Special Lecture 講師: ホーク・フィリップ氏 (静岡県立大学・薬学部・ 科学英語分野・准教授) Dr. Philip Hawke (Associate Prof., Scientific English Program, Graduate School of Integrated Pharmaceutical and Nutritional Sciences, University of Shizuoka) 『Basic academic communication 1: Oral presentations』*	特別講義 Special Lecture 講師: ホーク・フィリップ氏 (静岡県立大学・薬学部・ 科学英語分野・准教授) Dr. Philip Hawke (Associate Prof., Scientific English Program, Graduate School of Integrated Pharmaceutical and Nutritional Sciences, University of Shizuoka) 『Basic academic communication 2: Research discussion』**								
	第3日目 5月20日 (金) May. 20 (Fri)				特別セミナー Special seminar 岩永 史子氏 (鳥取大学) Dr. Fumiko Iwanaga 兵頭 正浩氏 (鳥取大学) Dr. Masahiro Hyodo 有馬 二郎氏 (鳥取大学) Dr. Jiro Arima	質疑応答 Q&A アンケート記入 Questionnaire	解散 Breakup										

*『科学英語コミュニケーション基礎編 1: オーラル プレゼンテーション』

**『科学英語コミュニケーション基礎編 2: リサーチ ディスカッション』

**Type the Title of Your Presentation Here (14 Point, Times New Roman, Bold.
Location: Center)**

Course : Type the course
Division : Type the division
Name : Type your name
Entrance : 20XX (month)
University : XX University
Major Supervisor : Type the name

ABTSTRACT is to be written on an A4 format with **one page** including title, course and division you belong to, your name, year and month of admission, text, and graphical abstract. Presentation speakers are required to this Word template for preparing ABSTRACT. Use of this template will ensure proper formatting. **Do not change the font and size** (Title: 14 point, Times New Roman, bold; your information: 12 point, Times New Roman; Text: 11 point). Please add graphical abstract after the text of the abstract. Please allocate approximately three-quarters for the text and the remaining one-quarter for graphical abstract. Submission deadline to Rendai is **XXX, xxth, 2022**.
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Graphical abstract
Size: image should be 300 dpi
Font: Arial
The abstract should consist of one single panel

Argeloside I, an Inhibits of the Pathogenicity of Periodontitis, *Porphyromonas gingivalis* TDC60

Course : Bioresource and Life Science
 Division : Bioscience and Biotechnology
 Name : Sara A. Eltigani
 Entrance : 2017 (Oct)
 University : Tottori University
 Major Supervisor : J. Arima

Periodontal diseases are chronic inflammatory diseases of tooth-supporting tissues which weaken these tissues and lead to tooth loss. Among bacterial pathogens, *Porphyromonas gingivalis* has recently been proposed to be a major pathogen that causes destructive periodontal diseases. The therapeutic effects of a wide range of plant secondary metabolites, such as alkaloids, polysaccharides, glycosides, phenolic compounds, and sterols, have been reported. Several studies have reported the specific inhibitory activities of polyphenolic compounds from green tea and cranberry against *P. gingivalis* and its secreted virulence factors. Moreover, oleic acid and its esters, together with coumarins from *Monechma ciliatum* seeds, have been reported as hemagglutinin inhibitors.

Solenostemma argel belongs to the family Apocynaceae and is widely grown in northern Africa, including Sudan, Egypt, Libya, and Algeria. In Sudan, *S. argel* is an important traditional medicine and is locally known as 'hargel'. The plant is widely distributed between Dongola and Barber, mainly around the Abu-Hamad area. *S. argel* leaf extract is used to make a popular drink in Sudan. It is also used in traditional medicine to treat several diseases, including liver and kidney pain, bronchitis, neuralgia, gastrointestinal cramps, and stomach colic. The dry leaves are used as incense to treat measles and aid wound healing. Several studies have reported that *S. argel* leaves contain various compounds such as quercetin, rutin, flavanones, alkaloids, flavonoids, and kaempferol. In the present study, we isolated a compound, Argeloside I, that exhibits inhibitory activity against *P. gingivalis* TDC60 and its virulence factors from aqueous extracts of *S. argel*. Argeloside I completely hindered the growth of *P. gingivalis* TDC60 and inhibited the production of hemagglutinins as well as Arg- and Lys-specific gingipains. Our results demonstrate a new function of pregnane glycosides. Argeloside I may be a candidate for reducing the risk associated with *P. gingivalis* TDC60 and its adhesion factors.

