

DAILAB-CAFÉ PLUS Series-III (2018)

Presentation Learning for Young Scholars

- DAILAB will hold a **CAFÉ-PLUS (Series-III)** on **April 24 (Tuesday), 2018 from 15:30 hrs (JST)**
- Aim of the CAFÉ-PLUS is to offer opportunity to Young Scholars to present their work and train them for “Clear/Crisp/Careful/Concise/Conclusive” presentations.
- Four candidates will be selected based on their submitted abstracts from DAILAB-Tsukuba and Satellite CAFEs: *IIT-Delhi (India), Hanyang University (Korea), Peking Medical University (China), Brawijaya University (Indonesia), University of Sri Jayewardenepura (Sri Lanka), Manipal University (India), Guru Nanak Dev University (India) and Tsukuba University (Japan)*. We will be connected by Skype as always.
- Each presenter will be given 13 mins (10 min presentation + 3 min QA).
- Experts from the team of DAILAB mentors will evaluate the presentations and give comments on how to improve it further from various aspects.
- **Best Presenter of DAILAB-CAFÉ PLUS** will be selected and issued a certificate and a memento.
- Winners of four CAFÉ-PLUS series (I-IV) will compete in **CAFÉ-EXPRESS**

(EXtraordinary PREsenter Selection Series) and awarded an international academic trip.

- **Deadline of Application = Apr 17, 2018 (17:00 hrs JST)**
- **Please apply by sending abstract (format shown here)**

Anticancer activity in honeybee propolis: functional insights to the bioactives, bioactivities and bioavailability
Priyanshu Bhargava^{1,2}, Nupur Nigam^{1,2}, Yoshiyuki Ishida¹, Keiji Terno¹, Sunil C Kaul¹ and Renu Wadwa^{1*}

¹Drug Discovery & Assets Innovation Lab, DBT-AIST International Laboratory for Advanced Biomedicine (DAILAB), National Institute of Advanced Industrial Science & Technology (AIST), Central 5-41, 1-1-1 Higashi, Tsukuba - 305 8565, Japan;
²Graduate School of Life & Environmental Sciences, University of Tsukuba, Ibaraki - 305 8575, Japan;
³CycloChem Co., Ltd., 7-4-5 Minatojima-minamimachi, Chuo-ku, Kobe - 650 0047, Japan
*E-mail: renu-wadwa@aist.go.jp

Keywords: Propolis, CAPE, Artepillin-C, γCD, anticancer, anti-metastasis

Besides honey, honeybees make sticky substance (called propolis/bee glue) by mixing saliva with pine tree resin and other botanical sources. It is known to be rich in bioactivities of which the anticancer activity is most studied. Caffeic Acid Phenethyl Ester (CAPE) is a key anticancer component in New Zealand propolis. We investigated the molecular mechanism of anticancer activity of CAPE. cDNA array performed on the control and CAPE-treated breast cancer cells revealed an activation of DNA damage signaling, involving upregulation of GADD45α and p53 tumor suppressor proteins. Bioinformatics and molecular docking analyses revealed that CAPE is capable of disrupting mortalin-p53 complexes. We provide experimental evidence and demonstrate that CAPE induced disruption of mortalin-p53 complexes and led to nuclear translocation and activation of p53 resulting in growth arrest in cancer cells. Furthermore, CAPE-treated cells exhibited downregulation of mortalin and several other key regulators of cell migration accountable for its anti-metastasis activity. Of note, we found that whereas CAPE was unstable in the culture medium (as it gets degraded into caffeic acid by secreted esterase), its complex with gamma cyclodextrin (γCD) showed high efficacy in anti-tumor and anti-metastasis assays *in vitro* and *in vivo*. Furthermore, γCD increased the anticancer potential of supercritical extracts of Brazilian propolis that is rich in Artepillin-C (in contrast to the New Zealand propolis that contains CAPE as a major bioactive compound). The data proposes that γCD significantly enhances the anticancer activity of honeybee propolis.

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April 24 (Tuesday), 2018 - 15:30 hrs (JST)

List of selected speakers:

- 1. Jantje Wiliem Souhaly (BU, Indonesia)** - Cytotoxicity activities in sea cucumber (*Bohadschia argus*) extract against T47D cells
- 2. Fika Agalia Khairunnisa (BU, Indonesia)** - Bromelain content from stem of pineapple (*Ananas comosus* L., Merr) extract
- 3. Anu Radha Sharma (MU, India)** - miRNAs and miRNA target site variations and its potential role in antiplatelet drug response in cardiovascular disease individuals
- 4. Sukant Garg (AIST, Japan)** - A novel formulation of Cucurbitacin B & Withanone (CucWi-N) for cancer treatment- bioinformatics and experimental insights to its action

DAILAB-CAFÉ PLUS Series- IV (2018)

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May 10, 2018 - 15:30 hrs. (JST)

Instructions for speakers DAILAB CAFÉ PLUS Series 3, Round 4 (date to be announced):

- 1. Raviprasad K V (MU, India)** - Identification and characterization of mitochondrial genome encoded microRNAs in breast cancer
- 2. Sima Chaudhari (MU, India)** - Investigation of neurodegeneration associated with defective DNA break repair
- 3. Divya Adiga (MU, India)** - Double C2 like domain containing protein Beta (DOC2B) as an Inhibitor of epithelial to mesenchymal transition
- 4. Rizka Pantris Rahayu (BU, Indonesia)** - UV absorption spectra of collagen in the presence of plant stability agents
- 5. Nadya Veronica Margarecaesha Anyndita (BU, Indonesia)** - Designing and overproducing a tandem epitope of gp350/220 that shows a potential to become an EBV vaccine

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Instructions for speakers

- Your final slides must reach the Team DAILAB by **21 April 2018** (17:00 hrs. JST) for Series III and **1st May, 2018** (17:00 hrs. JST) for Series IV .
- Please restrict the total file size to less than 6 MB. Pdf is preferred.
- Each speaker will be given 10 minutes for presentation, and an additional 3 minutes for Q&A.
- Speakers will be evaluated on the spot by a team of DAILAB mentors and public voting.
- **Clear/Crisp/Careful/Concise/Conclusive** – aim of your presentation!
- Best Presenter will be issued a certificate and a memento, and will compete in **CAFÉ-EXPRESS Series III** (**EX**traordinary **PRE**senter **SE**lection **S**eries), winner of which will be awarded an International Academic trip

DBT - AIST International Laboratory
for Advanced Biomedicine

DAILAB

Classroom for Advanced & Frontier Education
CAFE

CAFE-PLUS

Presentation-Learning for Young Scholars

Series – 2017-2018
(Round 3)

Thanks for participation!

Speakers Anu Radha Sharma, Sukant Garg
Winner Sukant Garg
Date 24th April 2018 (15:30 ~ 16:45 hrs JST)
Host DAILAB@AIST, Tsukuba, Japan



Runner's up
Anu Radha
Sharma

Due to
unstable
internet, BU
participants
postponed to
next round !



Winner
Sukant Garg

AIST, Japan



Brawijaya Uni., Indonesia



ILAS PUMC, China



IIT-Delhi, India



USJP, Sri Lanka



Manipal University, India