



Nagoya University
Graduate School of Bioagricultural Sciences
School of Agricultural Sciences



KASETSART
UNIVERSITY



NAGOYA
UNIVERSITY



UWA
PERTH AUSTRALIA

Joint Degree Program

WEBINAR SERIES

Date: November 25th, 2025

Time: 15:00 (JST)

Perth 14:00 / Thailand 13:00



Dr. Sokheang Um

Joint Degree Program Graduate,

Nagoya University & The University of Western Australia, September 2025

Effects of phytosterol profile in genetically modified plants on post-embryonic development of insects

Sterols, a class of isoprenoid-derived lipid compounds, are essential for insect growth and development. However, insects cannot synthesize sterols *de novo* and must obtain them from their diet or host plants. This study investigated how *Spodoptera litura* (common cutworm) utilizes different sterols using both artificial diets and genetically modified canola (*Brassica napus*) lines with altered sterol compositions. Results showed that *S. litura* successfully developed on brassicasterol, campesterol, β -sitosterol, cholesterol, and stigmasterol, but not on (+)-4-cholesten-3-one. The non-utilizable sterol significantly impaired insect growth and development.

Program

15:00 Research Talk

16:00 Information Session on
the Joint PhD program

Registration



via the form,
to receive the Zoom link.

<https://forms.gle/QEMJo5jDHZEAPqx48>

Open to all — students, faculty, and researchers welcome!

About the Joint PhD Program

The Graduate School of Bioagricultural Sciences at Nagoya University offers two Joint PhD Programs with partner universities: Kasetsart University or The University of Western Australia. Students earn a single PhD degree jointly awarded by Nagoya University and the partner university, with opportunities for joint research collaboration and cultural exchange.



https://www.agr.nagoya-u.ac.jp/international-exchange/ku-jdp_new.html



THE UNIVERSITY OF
WESTERN
AUSTRALIA



https://www.agr.nagoya-u.ac.jp/english/academics/uwa-jdp_e.html

ジョイントディグリープログラム WEBINAR SERIES

2025年11月25日(火)

15:00 日本

14:00 パース / 13:00 タイ



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プログラム

15:00 講演

16:00 ジョイントディグリープログラムの
紹介、相談(日本語/英語)

参加登録



フォームからご登録いただくと
Zoomリンクをお送りします。

<https://forms.gle/QEMJo5jDHZEAPqx48>

学生・教職員・研究員の方はどなたでもご参加いただけます。

ジョイントディグリープログラムについて

名古屋大学大学院生命農学研究科が設置する国際連携生命農学専攻は、本学と連携大学（カセサート大学または西オーストラリア大学）が共同で起草した履修内容を、両大学の教員が指導し、共同で単一の学位を授与する博士後期課程のジョイントディグリープログラムです。本専攻の学生は期間中に連携大学に一定期間滞在し、共同研究や文化的交流などを実施、体験します。

