

# CURRICULUM VITAE



<b>Name</b>	Mohamed Refaat Mohamed Ali
<b>Date of Birth</b>	1988.03.05
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## Education background

- Undergraduate: Faculty of Science, Ain Shams University  
(Year) 2004 (Month) 9 — (Year) 2008 (Month) 6
- Master: Faculty of Science, Cairo University  
(Year) 2010 (Month) 10 — (Year) 2014 (Month) 10
- Doctor: Faculty of Industrial Science and Technology, Tokyo University of Science  
(Year) 2015 (Month) 4 — (Year) 2019 (Month) 3

## Research experience

- Graduate research student, Faculty of Science, Cairo University  
(Year) 2010 (Month) 10 — (Year) 2014 (Month) 10

Biotechnological approaches for enhancing Silymarin biosynthesis and accumulation in *Silybum marianum* culture systems

- Research associate, Center for Ecological Research, Kyoto University  
(Year) 2012 (Month) 1 — (Year) 2012 (Month) 6

Study on the induced defense responses in plants via herbivore-induced plant volatiles

- Research Fellow, Faculty of Industrial Science and Technology, Tokyo University of Science  
(Year) 2014 (Month) 10 — (Year) 2018 (Month) 3

Characterization of the ring-type E3 ubiquitin ligase for a jasmonate signaling coordination in Arabidopsis

## Awards

- MEXT Scholarship, Tokyo University of Science (Research student)  
(Year) 2014 (Month) 10 — (Year) 2015 (Month) 3
- Student research grant at the Tokyo University of Science (460,000 yen)  
(Year) 2015 (Month) 5 — (Year) 2016 (Month) 4
- MEXT Scholarship, Tokyo University of Science (PhD student)  
(Year) 2015 (Month) 3 — (Year) 2018 (Month) 3

## Academic papers

- **Ali M.**, Sugimoto K, Ramadan A, Arimura G-I. (2013). Memory of plant communications for priming anti-herbivore responses. *Scientific Reports* 3:1872.
- **Ali M.R.M.**, Uemura T., Ramadan A., Adachi K., Nemoto K., Nozawa A., Hoshino R., Abe H., Sawasaki T., Arimura G-I (2018) The ring-type E3 ubiquitin ligase JUL1 targets the VQ-motif protein JAV1 to coordinate jasmonate signaling. *Plant Physiology* pp.00715; DOI: 10.1104/pp.18.00715.

## Teaching experience

- Teaching assistant, Department of Biological Science and Technology, Faculty of Industrial Science and Technology, Tokyo University of Science  
(Year) 2015 (Month) 4 – (Year) 2015 (Month) 9  
(Year) 2016 (Month) 4 – (Year) 2016 (Month) 9  
(Year) 2017 (Month) 4 – (Year) 2017 (Month) 9

## Professional qualifications

- **Languages**
  - Arabic (Native)
  - English (Excellent)
  - French (Basic)
  - Japanese (Basic)
- **Computer skills**
  - Microsoft Office (word, power point, office).
  - ChemDraw
  - Photoshop
- **Teaching skills**
  - Simplification of complex ideas.
  - Excellent communication and presentation skills.
  - Confident.
  - Good organization and planning for courses.
  - Work effectively in group.
- **Laboratory Techniques**
  - Plant transformation and generation of Transgenic plants
  - DNA and RNA extraction and purification
  - DNA sequencing.
  - DNA methylation and bisulfate saequencing
  - PCR and Q-RT-PCR.

- Construction and cloning of expression vectors.
- In vitro protein synthesis using wheat germ cell free system and E-coli system(Small and large-scale).
- Protein Purification techniques.
- SDS-PAGE.
- Western Blotting technique.
- Immunoprecipitation/Co-immunoprecipitation
- Detection and analysis of protein ubiquitination (In vitro and In vivo).
- Detection of protein-protein and protein-ligand interactions.
- Agroinfiltration technique.
- Protoplast isolation and transfection.
- Plant cell culture
- Callus culture
- Plant based bioassays
- Confocal microscopy

## Academic references

### 1- Prof. Gen-ichiro Arimura

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### 2- Prof. Tatsuya Sawasaki

**Address:** Proteo-Science Center, Ehime University, 3 Bunkyo-cho, Matsuyama 790-8577, Ehime, Japan.

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### 3- Assistant Prof. Abdelaziz Ramadan

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