



THE MADURA COLLEGE

An Autonomous Institution affiliated to Madurai Kamaraj University
Re-accredited (3rd cycle) with 'A' grade by NAAC
Vidya Nagar, T.P.K. Road, Madurai – 625 011

DEPARTMENT OF MICROBIOLOGY

BRIEF REPORT ON PROGRAMME / EVENT ORGANISED

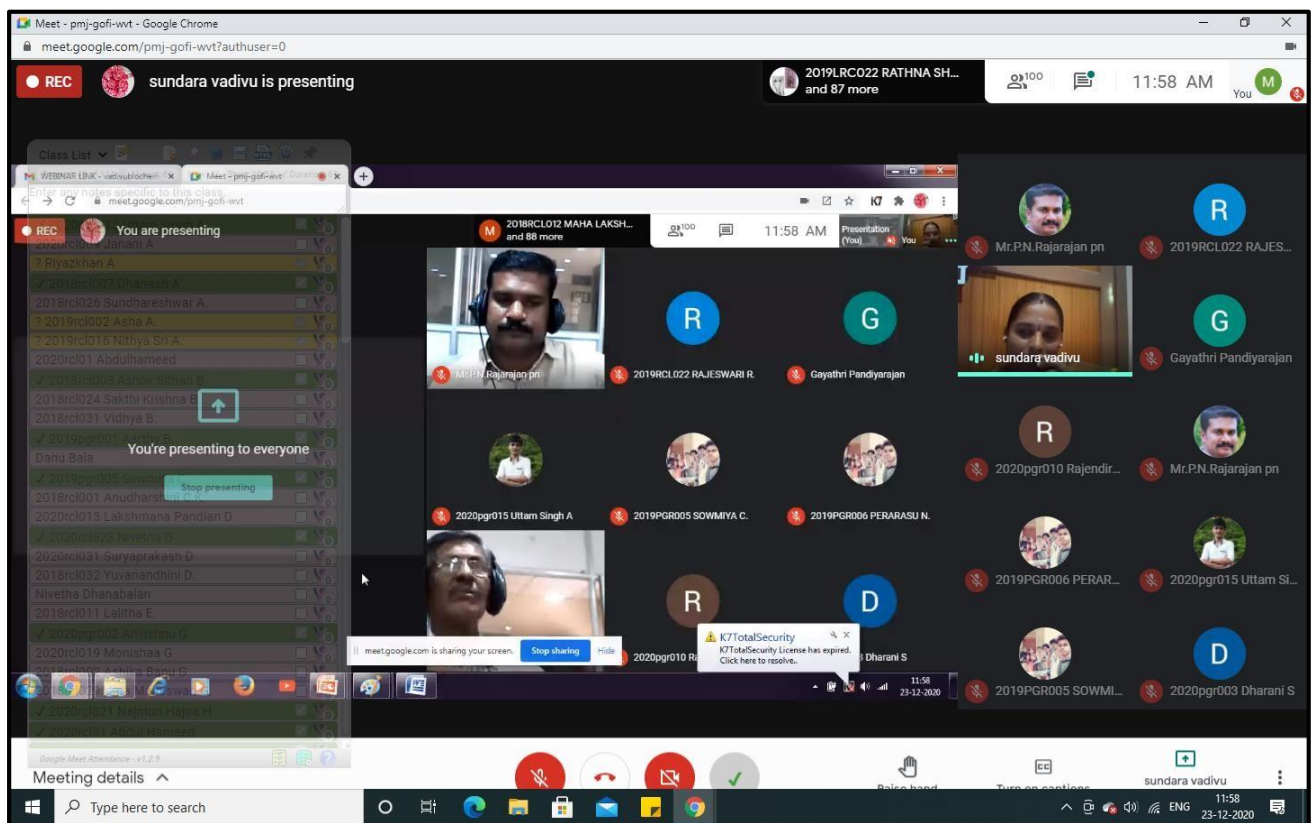
1. Title of the programme/event : "Synthetic Pesticides and Type II Diabetes"
2. Nature of the event : Webinar
3. Duration : 1:30 Hour
4. Venue : Mohan Hall
5. Hosting Department/Cell : Microbiology
6. Funding agency & grant (if any) : NIL
7. Beneficiaries : Microbiology UG & PG students , Biotechnology UG students
8. Number of participants : 101
9. Details of Resource person(s) :

S.No	Name and designation	Topic of Talk	Remarks
1	Dr.K.Sundaravadivu	Synthetic Pesticides and Type IIDiabetes"	Very interesting topic for the current students , she gave a detailed report of how pesticides are related with type 2 diabetes

10. Brief the proceedings of the programme along with some photographs

The speaker Dr. K.Sundaravadivu , Assistant Professor, Department of Biochemistry, Sri Adi Chunchanagiri Women's College, Cumbum, gave a lecture on

“Synthetic Pesticides and type 2 Diabetes” She gave information about adverse health effects of exposure to pesticides, an association with diabetes. She explained epidemiologic studies on the health effects of exposure to pesticides, particularly investigating the association between occupational pesticide exposure and diabetes prevalence and it has been proved that people exposed to high levels of pesticides develop high blood sugar as an immediate consequence and diabetes mellitus has a multi- factorial pathogenesis with a strong genetic component as well as many environmental and lifestyle influences. Emerging evidence suggests that environmental contaminants, including pesticides, might play an important role in the pathogenesis of diabetes. She explained the prevalence of diabetes in people who are directly exposed to pesticides is estimated to be three-fold higher than in people who are not directly exposed to the pesticides. Farmers are often exposed to high levels of pesticides, and thereby may have a higher risk of type 2 diabetes.



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REC sundara vadivu is presenting 2019RCL007 GOWTHA... and 87 more 11:15 AM You M

Some Literature knowledge:

Agricultural and Pesticides

- Pesticide exposure to farming communities in the developing countries, comprising of farmers, field workers, spray workers and pesticide shop dealers/sellers (Coronado *et al.*, 2004; Ye, *et al.*, 2013).
- Death gloally: An estimated 20,000 peoples annually by WHO (Ahmad *et al.*, 2001).

Pesticides and Disease

- Pesticide toxicity produces various diseases like cardiovascular disorder and chronic kidney disease, cancer, Parkinson disease, Alzheimer disease, multiple sclerosis and diabetes mellitus (Abdollahi *et al.*, 2004; De Souza *et al.*, 2011; Hernandez *et al.*, 2005; Mathur *et al.*, 2002; Mostafalou and Abdollahi, 2012a; Parron *et al.*, 1996; Salvi *et al.*, 2003; Stephens *et al.*, 1995).

Endocrinological defects Vs Organophosphate

- Prolonged OP's exposure leads to some **Cardiac disease and Endocrinological disease** too (Velmurugan *et al.*, 2013; Swaminathan *et al.*, 2013; Ramasamy *et al.*, 2017)

Class List
Present 22 of 100
Enter any notes specific to this class.

2020rci009 Jashni A
2018rci026 Sunshaheshwar A
2019rci002 Asia A
2019rci016 Nitya Sri A
2020rci01 Abdhameed
2018rci003 Ashik Sithan B
2018rci024 Sathya Krishna B
2018rci031 Victoria B
2018rci029 Umas Maheswari G
2020rci01 Abdul Hameed
2018rci012 Maha Lakshmi I
2018rci005 Perweena D
2018rci001 Ansharshini C.K.
2020rci013 Lalithama Pandian D
2018rci031 Sunshaprakash D
2018rci032 Yuvandhini D
Nivetha Dhanaseelan
2018rci011 Lalitha E
2018rci019 Mohanashaa G
2018rci002 Asia Bahu G
2018rci029 Umas Maheswari G
2020rci01 Abdul Hameed
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Forensic report confirms poisonous pesticide in Bihar midday meal 20 Jul 2013

- A forensic report confirmed the presence of poisonous pesticide in the midday meal served to the students of the school in Chhapra where 23 children died after taking the contaminated food.

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 THE CO-ORDINATOR
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 Principal
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