

# VECTRON<sup>TM</sup> T500

## MITSUI CHEMICALS AGRO, INC.



Presenter: Kunizo Mori, Mitsui

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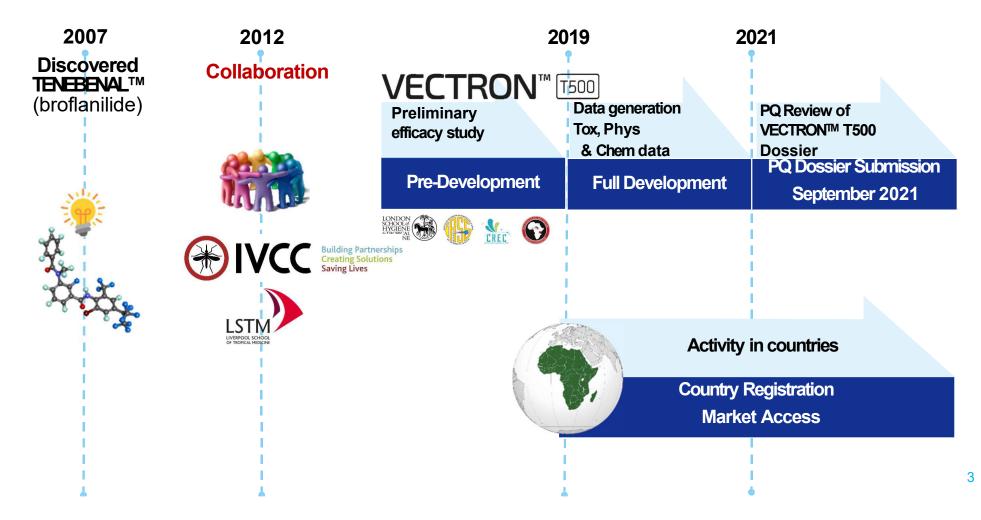
VCWG 3<sup>rd</sup> May, 2022



#### VECTRON<sup>™</sup> T500

VECTRON <sup>™</sup> T500		Formulation Type	Wettable Powder
		AI Concentration	50 %
A wettable powder formulation		Dose	100 mg a.i./m².
		Packaging	50 g / sachet
F F F F F F F F F F F F F F F F F F F	Active Ingredient ISO Name	TENEBENAL <sup>™</sup> broflanilide	
	Chemical Name	<i>N</i> -[2-bromo-4-(perfluoropropan-2- yl)-6 (trifluoromethyl)phenyl]-2- fluoro-3-( <i>N</i> methylbenzamido)benzamide)	
TENEBENAL"	Chemical Class	Meta – diamides	
	Mode of Action	GABA-gated chloride channel allosteric modulators IRAC Group 30	

### VECTRON<sup>™</sup> T500 project supported by **IVCC**



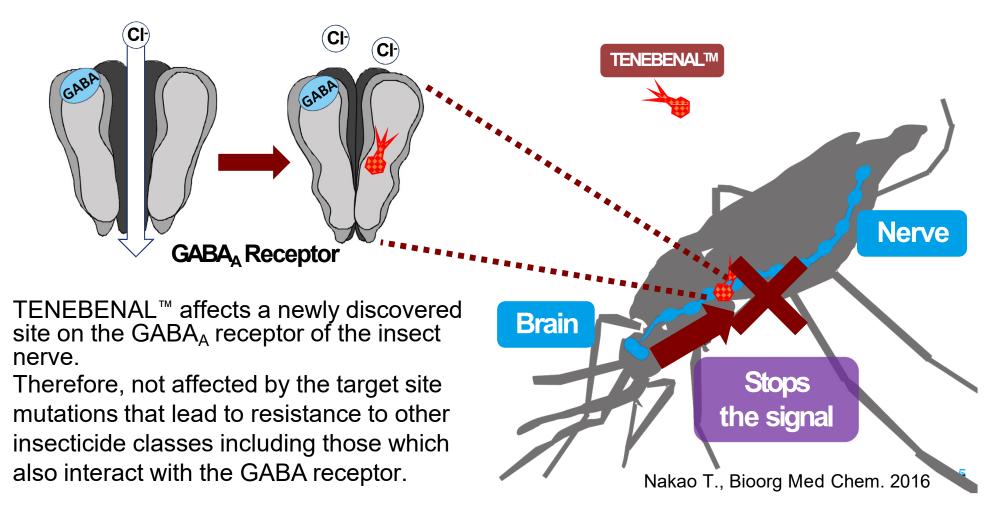
### Features – VECTRON<sup>™</sup> T500

A new Formulation of TENEBENAL<sup>™</sup> for Indoor Residual Spraying

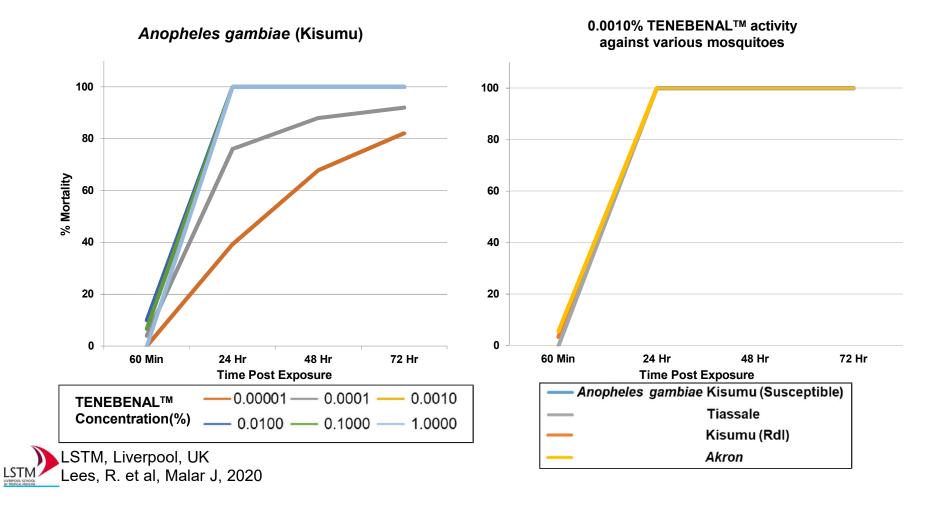
-``Ç`(-	Novel Mode of Action	New target site of action. Ideal for insecticide resistance management
	Performance	Good residual efficacy on all relevant surfaces, comparable to other 3 <sup>rd</sup> generation IRS. Initial data suggesting long residual activity.
	Acceptability	Odorless and Stainless formulation
	Easy to transport, store and handle	50 g sachets, easy to handle

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### New Mode of Action



#### TENEBENAL<sup>™</sup> shows activity to various resistant mosquitoes Tarsal contact assay



#### Experimental hut study in Tanzania

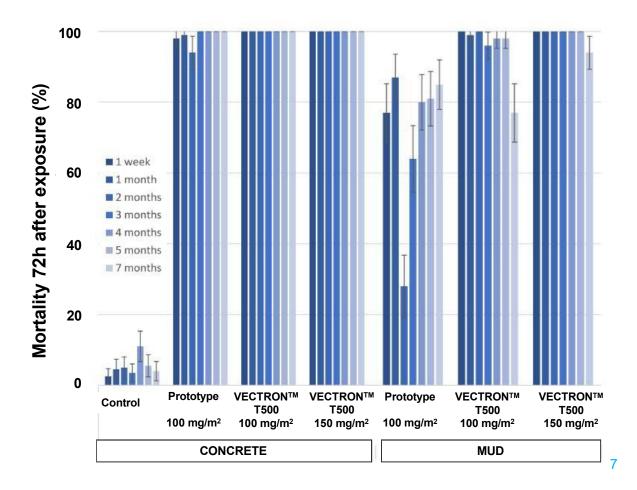
Comparing two IRS formulations containing TENEBENAL<sup>TM</sup>; <u>a prototype</u> and <u>VECTRON<sup>TM</sup>T500</u>.

Residual efficacy was determined through monthly cone assays with susceptible <u>*An. gambiae* s.s. Kisumu</u> mosquitoes.

For each time point, substrate and treatment tested the mean 72h mortality  $\pm$  95% CI is given.

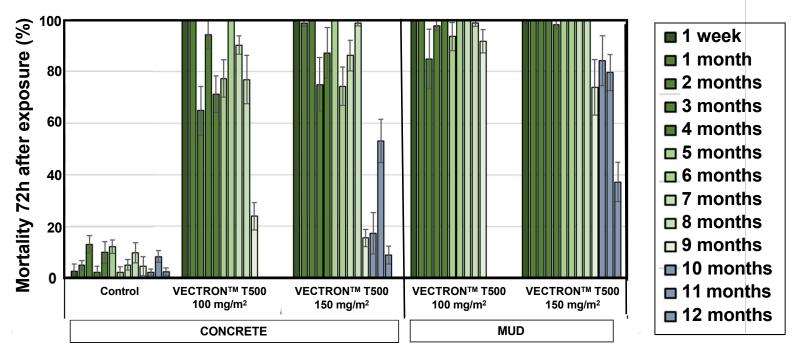


LSHTM, London UK Snetselaar, J. et al., PLOS one, 2021



### Experimental hut study in Burkina Faso

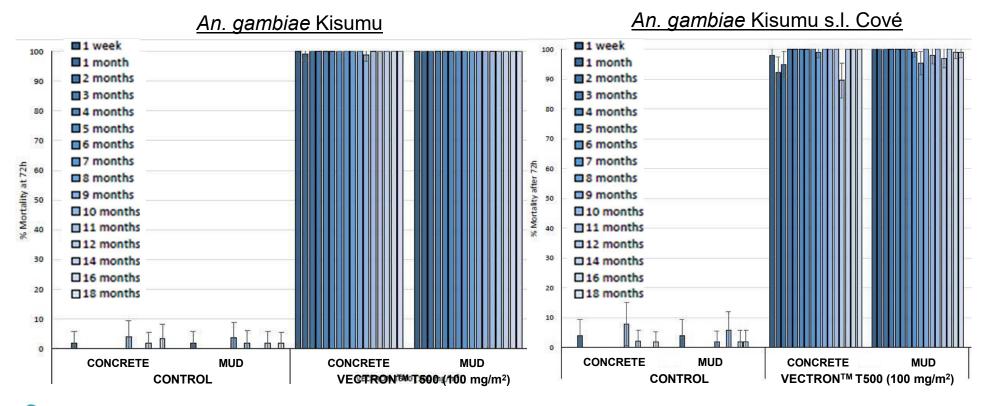
Mortality of <u>Anopheles gambiae s.l. VK</u>; 72 hours after exposure on treated walls using in situ cones tests. Each bar represents mean of mortality rate ±95%CI and mean 80 mosquitoes were exposed





IRSS, Burkina Faso Bayili K. et al., (In press)

#### Experimental hut study in Benin





LSHTM, London UK Ngufor C, et al., Sci Rep., 2021 **Recap – Salient Points** 

# VECTRON<sup>TM</sup> T500

□ A new tool for IRM strategies with novel Mode of Action ; TENEBENAL<sup>™</sup>

 Easy to handle; small 50g sachet , odorless and stainless

□ Long residual activity on relevant wall surfaces

## Thank you















## **DISCUSSION – SESSION TWO**

### Question

What are your suggestions to WS1 facilitators and team leads for further topics to explore or actions to consider following today's second session?

Please share your suggestions in the chat, thank you!