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Journal of Developments in Sustainable Agriculture

Sample Manuscript

Page 1

Title page

Title: Genetic Studies on Tick Ecdysteroid Regulation for Development of Sustainable Tick Control Strategies

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Running title: Ecdysteroid regulation for sustainable tick control

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Page 2

Summary

Ticks are exoparasites of mammals and important pests of livestock. Presently, tick control depends on use of acaricides and pesticides commonly used in integrated pest management.

.....

Key words: tick, ecdysteroid, arthropod growth regulator, ecdysteroid receptor, IPM

Summary: should be 300 words or less on page 2 .

Key words: 5 words or less after the summary.

Page 3 and following pages

Introduction

Blood feeding arthropods directly cause great damage to livestock as well as transmit various diseases. Mosquitoes, flies and ticks are the major exoparasites (Peter et al., 2005). Ticks transmit diseases (de Waal, 2000; Mayo and Masika, 2008).

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Main Body

Tick life strategies

Ticks are blood feeding acari belonging to the class Arachnida and are classified into three families: Ixodidae, Argasidae and Nuttellidae. Hard ticks live in grassy fields and go through one larval, (Fig. 1; Table 2). Figure 2 shows the numbers of ticks

Conclusions and recommendations for integrated tick management

Genetic analysis provides basic knowledge about the regulation of molting and reproduction in arthropods and may lead to the development of tools for tick control.

Acknowledgements

I thank Takeshi Watanabe and Dr. Osamu Ito of the Japanese International Research Centre for Agriculture Sciences (JIRCAS) for technical support and materials supplied for these experiments. This work was supported by Grant-in-Aid for Scientific Research from.....

If the work is supported by any grants, Acknowledgments should include the research grants.

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Figure legends

Fig.1. Summary of hard and soft tick life cycles. La: larva, Ny: nymph. Gray arrows indicate molting without blood feeding from egg to larva. Black arrows indicate blood feeding is necessary before molting can occur.

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