

Oral presentation

[C] Pest management/IPM (institutional)

Fri. Mar 29, 2024 9:00 AM - 11:15 AM Site C (Shirakashi 1)

11:00 AM - 11:15 AM

[C-09]データ駆動型「IPM支援システム」によるIPM技術支援の可能性

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Integrated Pest Management (IPM) is a technique for controlling pests by minimising the use of pesticides and combining different control methods. To achieve IPM, it is necessary to provide farmers with accurate guidance based on expert knowledge. A data-driven 'IPM Support System' (JP 2023-026199) has been developed to guide farmers on appropriate pest control technologies, their use and crop management practices by linking scientific knowledge and farmers' IPM-related problems. In this system, farmers answer a series of questions on the 'IPM Technology Check Sheet', which indicates the basic techniques related to IPM and the status of pest occurrence, and the data is collected. The system then uses a mathematical model to score the importance of each elemental technique to the success of IPM based on the data. Based on the calculated scores, the system then suggests the necessary elemental techniques to the farmers (IPM techniques diagnosis sheet). This study developed a prototype IPM support system focusing on the strawberry spider mite problem, and reports the results of exploring the possibility of providing technical support to growers and extension workers.