

# 目 次

## [研究報告]

- 1 群馬県におけるハウレンソウの収穫調製作業の実態と新型軟弱野菜調製機の現地適応性  
前田宏美・木村愛実・原 昌生・小林有一・山本聡史・谷口優太・仲谷章一・本間 功・澁谷 透 1
- 2 電源や水道設備のない場所でも利用できるトマト育苗自動灌水システムの開発  
田村晃一・原昌生・湯本弘人 9
- 3 ブドウ「安芸クイーン」の光環境改善による着色向上技術の開発  
柚木秀雄・岡本安祐美・中野葉子 17
- 4 コギク新品種「小夏の恋（仮称）」の育成  
田島明美・小林智彦・浅見典令・千木良昭宏 23
- 5 水稻品種「いなほっこり（仮称）」の適正施肥と収穫適期  
小川三菜美・廣岡政義・大久保英奈・森洋輔 27

## [短報]

- 1 リンゴ「ぐんま名月」のがくあ部の裂果に収穫時期が及ぼす影響  
荒木智哉・田子瑞穂・後藤和彦 35
- 2 群馬県内のコンニャク畑土壌の理化学性  
鹿沼信行・小笠原まり 39

## [抄録]

- 1 ヤマトイモ栽培におけるガス難透過性フィルム（VIF）による土壌燻蒸剤の大気放出抑制効果および被覆資材と土壌燻蒸剤がネコブセンチュウ防除効果に及ぼす影響  
小倉愉利子・関上直幸 41

# CONTENTS

## [Reports]

1. Current Status of Spinach Harvesting and Processing in Gunma Prefecture and The Field Adaptability of a New Soft-leaf Vegetable Trimming Machine  
Hiromi MAEDA, Masaaki HARA, Manami KIMURA, Yuichi KOBAYASHI, Satoshi YAMAMOTO,  
Yuta TANIGUCHI, Shoichi NAKATANI, Kou HONMA and Toru SHIBUYA 1
2. Development of a Tomato Seedling Automatic Irrigation System that can be used without Power Sources and Waterworks  
Kouichi TAMURA, Masaaki HARA and Hiroto YUMOTO 9
3. Improvement of Fruit Coloring in Grape Cultivar “Aki Queen” through improving The Light Environment  
Hideo YUKI, Ayumi OKAMOTO and Yoko NAKANO 17
4. Breeding of New Small-flowered Spray-type Chrysanthemum Cultivar “Konatsu-no-koi (Provisional Name)”  
Akemi TAJIMA, Tomohiko KOBAYASHI, Noriyoshi ASAMI and Akihiro CHIGIRA 23
5. Optimum Fertilization and Appropriate Harvest Timing for Paddy Rice Cultivar “Inahokkori (Provisional Name)”  
Minami OGAWA, Masayoshi HIROOKA, Ena OKUBO and Yosuke MORI 27

## [Short Communications]

1. Effects of Harvest Time on Cracking in The Hollow on The Calyx Side of Fruit of Apple Cultivar “Gunma Meigetsu”  
Tomoya ARAKI, Mizuho TAGO and Kazuhiko GOTO 35
2. Physicochemical Properties of The Soil in Konjac Fields in Gunma Prefecture  
Nobuyuki KANUMA and Mari OGASAWARA 39

## [Submitted Papers]

1. The Effect of Virtually Impermeable Film (VIF) on Suppressing Emission of Soil Fumigant to the Atmosphere and the Effect of Different Plastic Films and Fumigant on Control of Root-knot Nematodes, *Meloidogyne* spp. in Japanese Yam, *Dioscorea opposita*  
Yuriko OGURA and Naoyuki SEKIGAMI 41