

目次

[研究報告]

- 1 キャベツ由来乳酸菌による GABA 生成とキャベツ芯の高付加価値化
江原 駿・三浦 健・佐藤 謙一郎・三條 千里 1

[短報]

- 1 群馬県育成イチゴ品種における蒸散量と葉面積との関係
新井 恭介・飯塚 正英・石原 智 9
- 2 嬭恋村の沈砂池土壌におけるキャベツ苗立枯病および根こぶ病の発生リスク評価
星野 啓佑・山田 浩之・番場 雅人 12
- 3 群馬県の春どりネギにおけるピラジフルミド水和剤セル成型育苗トレイ灌注処理のネギ黒腐菌核病
に対する防除効果
新井 美優・星野 啓佑・吉澤 仁志・池田 健太郎 15
- 4 ウメ新品種「群馬 U6 号（商標名：ゆみまる）」の特性
— 「白加賀」用受粉樹としての評価と適正樹形の検討 —
柿沼 宏明・武藤 彰宏・加藤 恒夫・矢野 古都音・渡邊 香・柳田 悠輔・森田 碧・渡辺 一郎・柚木 秀雄
・中野 葉子・岡本 安祐美 18
- 5 鉢物カーネーション栽培におけるパクロブトラゾール水和剤処理によるわい化効果
石原 寛登・茂木 隼介・宮下 直矢・三木 静恵・佐藤 恭永・小林 智彦 22
- 6 キャベツ後作の緑肥輪作によるキタネグサレセンチュウ密度の抑制効果およびキャベツ収量への影響
番場 雅人・岡村 成章・三國 和彦 25
- 7 結球部切り口に褐変症状を示すキャベツピシウム腐敗病に対する発病程度の品種間差
番場 雅人・岡村 成章・三國 和彦 29

[研究資料]

- 1 2024 年の群馬県のチャバネアオカメムシの発生と被害
松田 成弘・新井 朋二 31
- 2 群馬県におけるコムギ赤かび病発生に関する気象要因の検討
菊池 優以・新井 朋二 35
- 3 新資材カーテンが温室内環境及び花きの生育に及ぼす影響
石原 寛登 39

[抄録]

- 1 Application of GeoWEPP to a cabbage monocropping region: developing agricultural strategies to mitigate water erosion under short-duration intense rainfall
Hiroyuki Yamada, Takuhei Yamasaki, Nobuyuki Kanuma, Taku Nishimura 44
- 2 Risk Evaluation of Verticillium Wilt on Cabbage Grown in Soil Reused from Sediment Basins
Hiroyuki Yamada, Masahito Banba, Keisuke Hoshino, Yukari Nakatsuji, Kentaro Ikeda 44

CONTENTS

[Paper]

- 1 GABA Production by Cabbage-Derived Lactic Acid Bacteria and Value-Added Utilization of Fermented Cabbage Core
Shun EBARA, Takeshi MIURA, Kenichiro SATO, Chisato SANJO 1

[Short Communications]

- 1 Relationship between Transpiration and Leaf Area in Strawberry Cultivars Developed in Gunma Prefecture
Kyosuke ARAI, Masahide IIZUKA, and Satoru ISHIIHARA 9
- 2 Assessment of the Occurrence Risk of Damping-off and Clubroot Diseases in the Grit Chamber of Tsumagoi Village
Keisuke HOSHINO, Hiroyuki YAMADA, and Masahito BANBA 12
- 3 Efficacy of Pyraziflumid Wettable Powder Against White Rot Caused by *Sclerotium cepivorum* in Spring-Harvested Welsh Onion in Gunma Prefecture
Miyu ARAI, Keisuke HOSHINO, Hitoshi YOSHIZAWA and Kentaro IKEDA 15
- 4 Investigation of the Pollination Ability, and Suitable Tree Shape of the New Plum Cultivar Gunma U6 (Trade Name Yumimaru)
Hiroaki KAKINUMA, Akihiro MUTOU, Tsuneo KATOU, Kotone YANO, Kaori WATANABE, Yusuke YANAGIDA, Midori MORITA, Ichiro WATANABE, Hideo YUKI, Yoko NAKANO, and Ayumi OKAMOTO 18
- 5 Dwarfing Effect of Paclobutrazol Wettable Powder Treatment on Potted Carnations
Hirotoshi ISHIIHARA, Shunsuke MOTEGLI, Naoya MIYASHITA, Shizue MIKI, Tomonaga SATOU and Tomohiko KOBAYASHI 22
- 6 Suppression of *Pratylenchus penetrans* Density and Effects on Cabbage Yield Through Green Manure Crop Rotation Following Cabbage
Masahito BANBA, Shigeaki OKAMURA and Kazuhiko MIKUNI 25
- 7 Varietal Differences in Susceptibility to Cabbage Pythium Rot Exhibiting Browning Symptoms at the Head Cut Surface
Masahito BANBA, Shigeaki OKAMURA and Kazuhiko MIKUNI 29

[Notes]

- 1 Occurrence and Damage Caused by Brown-Winged Green Stink Bug during 2024 in Gunma Prefecture
Narihiro MATSUDA, Tomoji ARAI 31
- 2 Analysis of Meteorological Factors Associated with the Occurrence of Fusarium Head Blight in Wheat Cultivated in Gunma Prefecture
Yui KIKUCHI and Tomoji ARAI 35
- 3 Effects of New Material Curtains on Greenhouse Environment and Flower Plant Growth
Hirotoshi ISHIIHARA 39

[Submitted Papers]

1 Application of GeoWEPP to a cabbage monocropping region: developing agricultural strategies to mitigate water erosion under short-duration intense rainfall

Hiroyuki YAMADA, Takuhei YAMASAKI, Nobuyuki KANUMA, Taku NISHIMURA 44

2 Risk Evaluation of Verticillium Wilt on Cabbage Grown in Soil Reused from Sediment Basins

Hiroyuki YAMADA, Masahito BANBA, Keisuke HOSHINO, Yukari NAKATSUJI, Kentaro IKEDA 44