

Acinetobacter
Tenebrio molitor

Bacillus

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Keywords:

Acinetobacter
Bacillus

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Tenebrio molitor

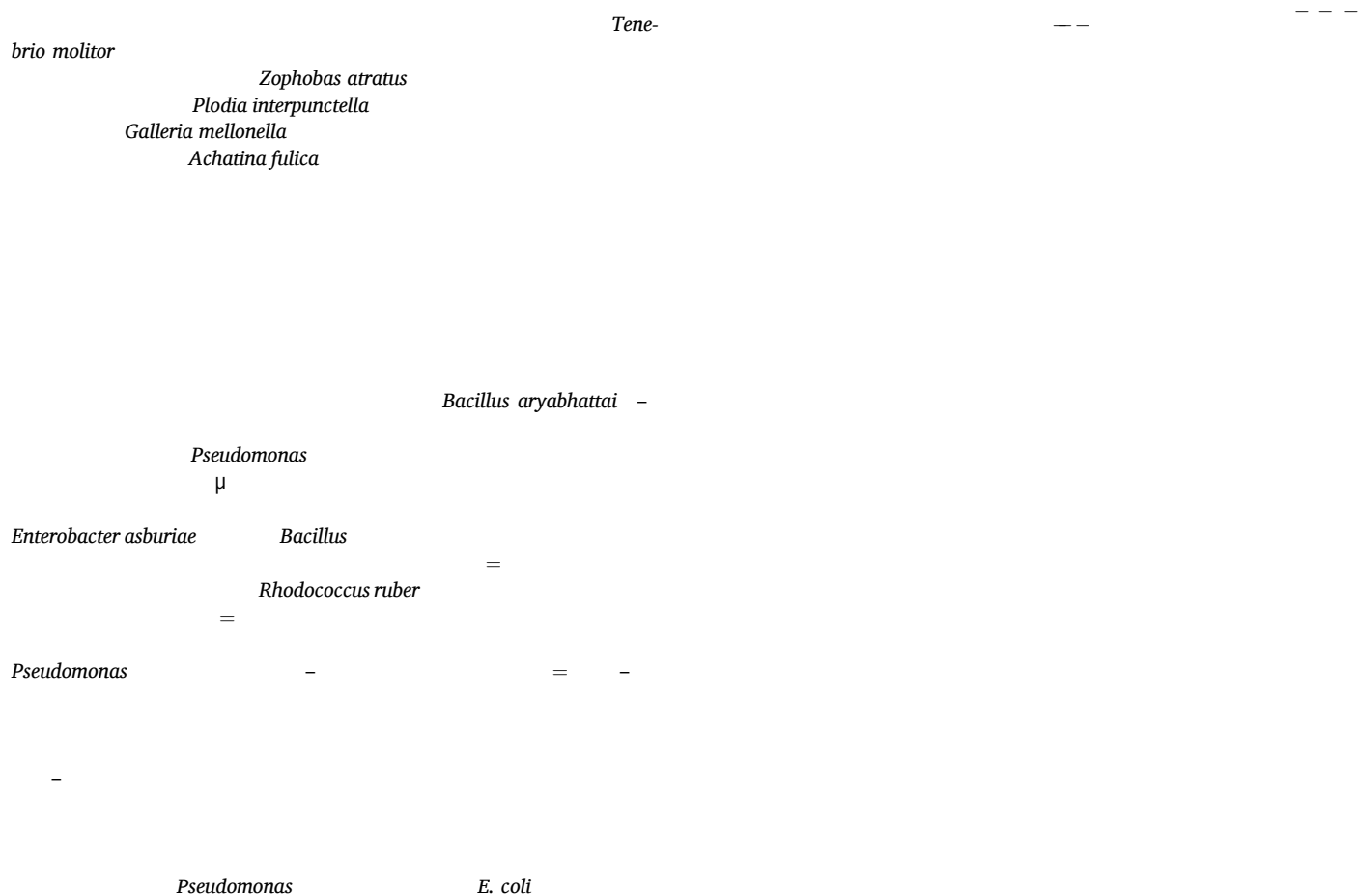
Acinetobacter

1. Introduction

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E-mail address:



2. Materials and methods

2.1. LDPE particles and PE mulching film, bacterial strains and medium

2.5. Weight loss of PE mulching film treated by isolated strains

2.6. High-temperature gel permeation chromatography (HT-GPC) characterization of molecular weight change of PE mulching film treated by isolated strains

2.7. Characterization of biofilm formation using scanning electron microscopy

2.8. Attenuated total reflection fourier transformed infrared (ATR-FTIR) spectroscopy of PE mulching film

2.9. Colony counting of mixed bacterial strains

3. Results

3.1. Isolation and classification of PE-degrading bacterial strains

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3.2. Growth of a consortium of strains NyZ450 and NyZ451 with PE particles

3.3. Weight loss of PE mulching film treated by a consortium of strains NyZ450 and NyZ451

3.4. Biofilm formation on the surface of

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Bacillus

Tenebrio molitor

Bacillus

xylanilyticu

Aspergillus niger

Lysinibacillus

Conclusions

Bacillus
Tenebrio molitor

Acinetobacter

Lysinibacillus fusiformis

Bacillus licheniformis

Rhodococcus ruber

Zophobas atratus

Author contribution

Declaration of competing interest

Conclusions

Rhodococcus ruber

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Achatina

Pseudomonas

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References

Galleria mellonella

Tenebrio molitor

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