



Journal of Pesticide Science
Pesticide Science Society of Japan

[Available Issues](#) | [Japanese](#) >> [Publisher Site](#)

Author: Keyword: [ADVANCED](#)



[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

ONLINE ISSN : 1349-0923

PRINT ISSN : 1348-589X

Journal of Pesticide Science

Vol. 31 (2006) , No. 3 pp.300-304



[\[PDF \(366K\)\]](#) [\[References\]](#)

Technical problems and practical operations in plant metabolomics

Takeshi Bamba¹⁾ and Eiichiro Fukusaki²⁾

1) Department of Applied Environmental Biology, Graduate School of Pharmaceutical Sciences, Osaka University

2) Department of Biotechnology, Graduate School of Engineering, Osaka University

(Received: June 5, 2006)

Abstract:

A metabolomics experiment consists of several complicated technical elements with each step ('cultivation of organisms,' 'sampling,' 'sample preparation,' 'analysis,' 'data conversion,' and 'informatics') potentially giving rise to experimental error. In order to perform metabolomics studies, it is necessary to understand the method limitations in detail and recognize possible problems at each step. Here, we review a number of technical problems associated with plant metabolomics and describe some practical knowledge for experimental design.

Keywords:

metabolomics, metabolome, metabolite profiling, metabolic fingerprinting, mass spectrometry, chemometrics



[\[PDF \(366K\)\]](#) [\[References\]](#)

Download Meta of Article [\[Help\]](#)

[RIS](#)

[BibTeX](#)

doi:10.1584/jpestics.31.300

JOI JST.JSTAGE/jpestics/31.300

Copyright (c) 2006 Pesticide Science Society of Japan



[Japan Science and Technology Information Aggregator, Electronic](#)

