

CONTENTS

Rapid Paper

- The *FLOWERING LOCUS T/TERMINAL FLOWER 1* Family in Lombardy Poplar Tomohiro Igasaki, Yumiko Watanabe, Mitsuru Nishiguchi and Nobuhiro Kotoda 291

Regular Papers

- Requirement for *Mesorhizobium loti* Ornithine Transcarbamoylase for Successful Symbiosis with *Lotus japonicus* as Revealed by an Unexpected Long-Range Genome Deletion Elina Mishima, Atsuko Hosokawa, Haruko Imaizumi-Anraku, Katsuharu Saito, Masayoshi Kawaguchi and Kazuhiko Saeki 301
- Ribosome Stacking Defines *CGS1* mRNA Degradation Sites During Nascent Peptide-Mediated Translation Arrest Yuhi Haraguchi, Yoshitomo Kadokura, Mari Nakamoto, Hitoshi Onouchi and Satoshi Naito 314
- Comparative Investigations of the Glucosinolate–Myrosinase System in *Arabidopsis* Suspension Cells and Hypocotyls Sophie Alvarez, Yan He and Sixue Chen 324
- Molecular and Functional Profiling of *Arabidopsis* Pathogenesis-Related Genes: Insights into Their Roles in Salt Response of Seed Germination Pil Joon Seo, An-Kyo Lee, Fengning Xiang and Chung-Mo Park 334
- The Assembly of the FtsZ Ring at the Mid-Chloroplast Division Site Depends on a Balance Between the Activities of AtMinE1 and ARC11/AtMinD1 Makoto T. Fujiwara, Haruki Hashimoto, Yusuke Kazama, Tomoko Abe, Shigeo Yoshida, Naoki Sato and Ryuichi D. Itoh 345
- Increase in Ascorbate–Glutathione Metabolism as Local and Precocious Systemic Responses Induced by Cadmium in Durum Wheat Plants Annalisa Paradiso, Rosalia Berardino, Maria C. de Pinto, Luigi Sanità di Toppi, Maria M. Storelli, Franca Tommasi and Laura De Gara 362
- Molecular Design of Photosynthesis-Elevated Chloroplasts for Mass Accumulation of a Foreign Protein Yukinori Yabuta, Masahiro Tamoi, Kumiko Yamamoto, Ken-ichi Tomizawa, Akiho Yokota and Shigeru Shigeoka 375
- The Necrotroph *Botrytis cinerea* Induces a Non-Host Type II Resistance Mechanism in *Pinus pinaster* Suspension-Cultured Cells Herlânder Azevedo, Teresa Lino-Neto and Rui Manuel Tavares 386
- Expression of Protein Complexes and Individual Proteins Upon Transition of Etioplasts to Chloroplasts in Pea (*Pisum sativum*) Eira Kanervo, Munna Singh, Marjaana Suorsa, Virpi Paakkanen, Eveliina Aro, Natalia Battchikova and Eva-Mari Aro 396
- Copper-Induced Proline Synthesis is Associated with Nitric Oxide Generation in *Chlamydomonas reinhardtii* Li Ping Zhang, Surya Kant Mehta, Zhao Pu Liu and Zhi Min Yang 411
- Identification of Dynamin as an Interactor of Rice GIGANTEA by Tandem Affinity Purification (TAP)* Makoto Abe, Masayuki Fujiwara, Ken-ichi Kurotani, Shuji Yokoi and Ko Shimamoto 420
- The Chilling Injury Induced by High Root Temperature in the Leaves of Rice Seedlings Kensaku Suzuki, Kiyoshi Nagasuga and Masumi Okada 433
- Biochemical Bases for a Widespread Tolerance of Cyanobacteria to the Phosphonate Herbicide Glyphosate Giuseppe Forlani, Mauro Pavan, Magdalena Gramek, Paweł Kafarski and Jacek Lipok 443
- Identification of Genes Expressed in Vascular Tissues Using NPA-Induced Vascular Overgrowth in *Arabidopsis* Carol L. Wenzel, Qian Hester and Jim Mattsson 457
- Nicotiana tabacum* NADP-Malic Enzyme: Cloning, Characterization and Analysis of Biological Role Gabriela Leticia Müller, María Fabiana Drincovich, Carlos Santiago Andreo and María Valeria Lara 469

*This paper is the Editor-in-Chief's choice and is available free online at <http://pcp.oxfordjournals.org>

Short Communications

- Comparative Transcriptome of Diurnally Oscillating Genes and Hormone-Responsive Genes in *Arabidopsis thaliana*: Insight into Circadian Clock-Controlled Daily Responses to Common Ambient Stresses in Plants** Takeshi Mizuno and Takafumi Yamashino 481
- Mechanisms to Avoid Photoinhibition in a Desiccation-Tolerant Cyanobacterium, *Nostoc commune*** Shin-ya Fukuda, Ruriko Yamakawa, Manabu Hirai, Yasuhiro Kashino, Hiroyuki Koike and Kazuhiko Satoh 488

PLANT AND CELL PHYSIOLOGY is published 12 times per year. Please conform to the Instructions for Authors (published at the back of issue 1). **Submit manuscripts** to <http://mc.manuscriptcentral.com/pcp>

Address all correspondence related to membership, orders for back copies before 2001 to: The Japanese Society of Plant Physiologists, Shimotachiuri, Ogawa Higashi, Kamikyo-ku, Kyoto, 602-8048 Japan (Fax: +81-(0)75-415-3662; E-mail: jspp@nacos.com).

All enquiries related to advertisements should be sent to: Steve Simmonds, Advertising Sales, Journal Division, Oxford University Press, Great Clarendon Street, Oxford OX2 6DP, UK (Telephone: +44(0)1865 354637 Fax: +44(0)1865 353774; E-mail: steve.simmonds@oxfordjournals.org).

All enquiries about institutional and non-member personal subscriptions should be sent to: Journals Subscriptions Department, Oxford University Press, Great Clarendon Street, Oxford OX2 6DP, UK (Telephone: +44 (0)1865 267907 Fax: +44 (0)1865 267485; E-mail: jnlorders@oxfordjournals.org).

Address orders for back copies to: Oxford Journals, Oxford University Press, Tokyo 4-5-10-8F Shiba, Minato-ku, Tokyo 108-8386, Japan. Tel: +81 3 5444 5858; Fax: +81 3 3454 2929; E-mail: custserv.jp@oxfordjournals.org.

Keep up-to-date with the latest contents of Plant and Cell Physiology by registering for our eTOC service at <http://www3.oup.co.uk/jnls/tocmail/> This service is freely available to all, no subscription required.

Notice about photocopying

In order to photocopy any work from this publication, you or your organization must obtain permission from the following organization which has been delegated for copyright for clearance by the copyright owner of this publication.

Outside of the U.S.A.

The Copyright Council of the Academic Societies,
41-6 Akasaka 9-chome, Minato-ku, Tokyo 107, Japan
Phone: 81-3-3475-4621, Fax: 81-3-3403-1738

In the U.S.A.

Copyright Clearance Center, Inc.
222 Rosewood Drive, Danvers, MA 01923, U.S.A.
Phone: (508) 750-8400, Fax: (508) 750-4744

Published by Oxford University Press on behalf of the Japanese Society of Plant Physiologists.
Typeset by Cepha Imaging Pvt Ltd, Bangalore, India. Printed by Nakanishi Printing Co., Ltd., Kyoto, Japan.