

Author Index to Volume 22, 2003

- Altmann, T., see Müssig, C. 313
Amador, V., see Monte, E., et al. 152
Asami, T., Nakano, T., Nakashita, H., Sekimata, K., Shimada, Y., Yoshida, S.: The Influence of Chemical Genetics on Plant Science: Shedding Light on Functions and Mechanism of Action of Brassinosteroids Using Biosynthesis Inhibitors 336
Asami, T., see Tanaka, K., et al. 259
Ashikari, M., Hironori, I., Mayako, U.-T., Sasaki, A., Gomi, K., Kitano, H., Matsuoka, M.: Gibberellin Signal Transduction in Rice 141
- Back, T. G., Pharis, R. P.: StructureActivity Studies of Brassinosteroids and the Search for Novel Analogues and Mimetics with Improved Bioactivity 350
Beveridge, C. A., Gresshoff, P. M., Rameau, C., Turnbull, C. G. N.: Additional Signalling Compounds are Required to Orchestrate Plant Development 15
Bishop, G. J.: Brassinosteroid Mutants of Crops 325
Boot, K., see van der Graaff, E., et al. 240
Brady, S. M., McCourt, P.: Hormone Cross-Talk in Seed Dormancy 25
- Casaretto, J., see Ho, T. D., et al. 185
Clouse, S. D.: Recent Advances in Brassinosteroid Research: From Molecular Mechanisms to Practical Applications 273
Croker, S. J., see Stokes, T. S., et al. 228
- Dodd, I. C.: Hormonal Interactions and Stomatal Responses 32
- Ferguson, B. J., Mathesius, U.: Signaling Interactions During Nodule Development 47
Filardo, F. F., Swain, S. M.: SPYing on GA Signaling and Plant Development 163
Flaishman, M. A., Loginovsky, K., Lev-Yadun, S.: Regenerative Xylem in Inflorescence Stems of *Arabidopsis thaliana* 253
Fukazawa, J., see Takahashi, Y., et al. 195
Fukisawa, Y., see Iwasaki, Y., et al. 126
- Gomez-Cadenas, A., see Ho, T. D., et al. 185
Gomi, K., see Ashikari, M., et al. 141
Granbom, R., see van der Graaff, E., et al. 240
Gresshoff, P. M., see Beveridge, C. A., et al. 15
Grossmann, K.: Mediation of Herbicide Effects by Hormone Interactions 109
Gubler, F., see Woodger, F. J., et al. 176
- Hanke, D. E., see Stokes, T. S., et al. 228
- Hironori, I., see Ashikari, M., et al. 141
Ho, T. D., Gomez-Cadenas, A., Zentella, R., Casaretto, J.: Crosstalk Between Gibberellin and Abasic Acid in Cereal Aleurone 185
Hooykaas, P. J. J., see van der Graaff, E., et al. 240
Hussain, A., Peng, J.: DELLA Proteins and GA Signalling in *Arabidopsis* 134
- Ishida, S., see Takahashi, Y., et al. 195
Iwasaki, Y., Fujiwawa, Y., Kato, H.: Function of Heterotrimeric G Protein in Gibberellin Signaling 126
- Jacobsen, J. V., see Woodger, F. J., et al. 176
- Kato, H., see Iwasaki, Y., et al. 126
Kitano, H., see Ashikari, M., et al. 141
Kołodziejek, I., Koziol, J., Wałza, M., Mostowska, A.: Ultrastructure of Mesophyll Cells and Pigment Content in Senescing Leaves of Maize and Barley 217
Koziol, J., see Kołodziejek, I., et al. 217
Krishna, P.: Brassinosteroid-Mediated Stress Responses 289
- Lev-Yadun, S., see Flaishman, M. A., et al. 253
Li, J., see Peng, P. 298
Li, Z., Liu, Z.: Effects of Benzyladenine and Naphthalene Acetic Acid on Growth and Camptothecin Accumulation in *Camptotheca Acuminata* Seedlings 205
Liu, Z., see Li, Z. 205
Loginovsky, K., see Flaishman, M. A., et al. 253
- Martínez-García, J., see Monte, E., et al. 152
Mathesius, U., see Ferguson, B. J. 47
Matsuoka, T., see Tanaka, K., et al. 259
Matsuoka, M.: Gibberellin Signaling: How Do Plant Cells Respond to GA Signals? 123
Matsuoka, M., see Ashikari, M., et al. 141
Matushita, A., see Takahashi, Y., et al. 195
Mayako, U.-T., see Ashikari, M., et al. 141
McCourt, P., see Brady, S. M. 25
Millar, A., see Woodger, F. J., et al. 176
Monte, E., Amador, V., Russo, E., Martínez-García, J., Prat, S.: PHOR1: A U-Box GA Signaling Component With a Role in Proteasome Degradation? 152
Mostowska, A., see Kołodziejek, I., et al. 217
Murray, F., see Woodger, F. J., et al. 176
Müssig, C., Altmann, T.: Genomic Brassinosteroid Effects 313
- Nakamura, Y., see Tanaka, K., et al. 259
Nakano, T., see Asami, T., et al. 336

- Nakashita, H., see Asami, T., et al. 336
- O'Neill, D. P., see Ross, J. J., et al. 99
- Okamoto, S., see Tanaka, K., et al. 259
- Ozga, J. A., Reinecke, D. M.: Hormonal Interactions in Fruit Development 73
- Peng, J., see Hussain, A. 134
- Peng, P., Li, J.: Brassinosteroid Signal Transduction: A Mix of Conservation and Novelty 298
- Pharis, R. P., see Back, T. G. 350
- Prat, S., see Monte, E., et al. 152
- Rameau, C., see Beveridge, C. A., et al. 15
- Rathbone, D. A., see Ross, J. J., et al. 99
- Reid, J. B., Ross, J. J.: Interactions Between Signals in Plant Development 1
- Reid, J. B., see Symons, G. M. 3
- Reinecke, D. M., see Ozga, J. A. 73
- Rojo, E., Solano, R., Sánchez-Serrano, J. J.: Interactions Between Signaling Compounds Involved in Plant Defense 82
- Ross, J. J., O'Neill, D. P., Rathbone, D. A.: Auxin-Gibberellin Interactions in Pea: Integrating the Old with the New 99
- Ross, J. J., see Reid, J. B. 1
- Russo, E., see Monte, E., et al. 152
- Sánchez-Serrano, J. J., see Rojo, E., et al. 82
- Sandberg, G., see van der Graaff, E., et al. 240
- Sasaki, A., see Ashikari, M., et al. 141
- Sasse, J. M.: Physiological Actions of Brassinosteroids: An Update 276
- Sekimata, K., see Asami, T., et al. 336
- Shimada, Y., see Asami, T., et al. 336
- Solano, R., see Rojo, E., et al. 82
- Stokes, T. S., Croker, S. J., Hanke, D. E.: Developing Inflorescences of Male and Female *Rumex acetosa* L. Show Differences in Gibberellin Content 228
- Swain, S. M., see Filardo, F. F. 163
- Symons, G. M., Reid, J. B.: Interactions Between Light and Plant Hormones During De-etiolation 3
- Takahashi, Y., Fukazawa, J., Matushita, A., Ishida, S.: Involvement of RSG and 14-3-Proteins in the Transcriptional Regulation of a GA Biosynthetic Gene 195
- Tanaka, K., Nakamura, Y., Asami, T., Yoshida, S., Matsuo, T., Okamoto, S.: Physiological Roles of Brassinosteroids in Early Growth of *Arabidopsis*: Brassinosteroids Have a Synergistic Relationship with Gibberellin as well as Auxin in Light-Grown Hypocotyl Elongation 259
- Turnbull, C. G. N., see Beveridge, C. A., et al. 15
- van der Graaff, E., Boot, K., Granbom, R., Sandberg, G., Hooykaas, P. J. J.: Increased Endogenous Auxin Production in *Arabidopsis thaliana* Causes Both Earlier Described and Novel Auxin-Related Phenotypes 240
- Wałza, M., see Kołodziejek, I., et al. 217
- Woodger, F. J., Millar, A., Murray, F., Jacobsen, J. V., Gubler, F.: The Role of GAMYB Transcription Factors in GA-Regulated Gene Expression 176
- Yoshida, S., see Asami, T., et al. 336
- Yoshida, S., see Tanaka, K., et al. 259
- Zentella, R., see Ho, T. D., et al. 185

Subject Index to Volume 22, 2003

| | | | |
|---|-----------------------------------|--|-----------------------------------|
| Abscisic acid | 3, 25, 32, 73, 109, 176, 185, 289 | DELLA proteins | 134 |
| <i>Agrobacterium tumefaciens</i> | 240 | Dioecious plants | 228 |
| Aleurone | 126, 176, 185 | Disease | 82 |
| α -amylase | 126, 176, 185 | Dormant seeds | 25 |
| 1-Aminocyclopropane-1-carboxylic acid synthase | 109 | DWF4 protein | 336 |
| Anther development | 176 | | |
| Anticancer plant | 205 | Early 13-hydroxylation pathway | 228 |
| Apical dominance | 240, 276 | Early 3 β , 13-hydroxylation pathway | 228 |
| <i>Arabidopsis</i> 25, 82, 126, 134, 141, 152, 163, 185, 195, 240, 253, 298 | | Elongation | 99, 134, 259 |
| Auxin herbicides | 109 | Endogenous rhythms | 276 |
| Auxin overproduction | 240 | <i>ent</i> -kaurene oxidase | 195 |
| Auxin signaling pathway | 3 | Environmental stress | 289 |
| Auxin transport | 109 | Enzyme-linked immunosorbent assay (ELISA) | 228 |
| Auxins | 32, 73, 99, 259 | 24-Epibrassinolide | 276 |
| B ring analogs | 350 | Epinasty | 240 |
| Barley | 163, 217 | Ethylene | 3, 25, 32, 47, 73, 82, 289 |
| Basic leucine zipper (bZIP) protein | 195 | Ethylene biosynthesis | 109 |
| Benzyladenine | 205 | | |
| Branching | 15, 276 | Fertilization | 73 |
| Brassinazole | 259, 336 | Flavonoids | 47 |
| Brassinolide | 259, 276, 325, 350 | Floral initiation | 176 |
| Brassinosteroid biosynthesis | 325 | Flowering | 15 |
| Brassinosteroid biosynthesis inhibitors | 336 | 14-3-3 proteins | 195 |
| Brassinosteroid mimetics | 350 | Fruit development | 73 |
| Brassinosteroid mutants | 325 | | |
| Brassinosteroid signal transduction | 298, 313 | G protein | 126 |
| Brassinosteroid signaling | 325 | <i>GA insensitive (GAI)</i> gene | 134 |
| Brassinosteroids | 3, 25, 47, 259, 276, 289, 350 | GAI repressor | 152 |
| Ca^{2+} -ATPase | 126 | GAMYB transcription factor | 176, 185 |
| Calmodulin | 126 | Gas chromatography-selected reaction monitoring (GC-SRM) | 228 |
| <i>Camptotheca acuminata</i> Decaisne (family Nyssaceae) . | 205 | Gene expression | 99, 176, 185, 313 |
| Camptothecin | 205 | Genomic effects | 313 |
| Castasterone | 276 | Germination | 176 |
| Cell differentiation | 276 | Gibberellin biosynthetic gene | 195 |
| Cell division | 47, 276 | Gibberellin content | 228 |
| Cell elongation | 195 | Gibberellin response element | 176 |
| Cell expansion | 276 | Gibberellin signal transduction | 141 |
| Cell wall-modifying enzymes | 313 | Gibberellin signaling | 126, 134, 152, 163, 176, 185 |
| Chemical genetics | 336 | Gibberellins | 3, 25, 32, 47, 73, 99, 259 |
| Chloroplast degradation | 217 | Glycogen synthase kinase 3 | 298 |
| Chromatin condensation | 217 | | |
| Common sorrel | 228 | Herbicides | 109 |
| Crops | 325 | Herbivores | 82 |
| Cyanide | 109 | Heterotrimeric G protein | 126 |
| Cytokinin signaling pathway | 3 | 28-Homobrassinolide | 276 |
| Cytokinins | 32, 73 | <i>Hordeum vulgare</i> | 217 |
| Decapitation | 99 | Hormone cross-talk | 25, 185, 276 |
| De-etiolation | 3 | Hormone interactions | 25, 32, 73, 82, 99, 109, 259, 289 |
| Defense response | 47 | Hormone signals | 47 |
| Defense signaling pathway | 82 | Hormones | 3 |
| | | Hypocotyl elongation | 259 |
| | | <i>iaaH</i> gene | 240 |

| | | | |
|--|-----------------|---|------------------------|
| <i>iaaM</i> gene | 240 | Polar auxin transport | 240 |
| Indole-3-acetic acid | 3, 99, 109, 240 | Pollination | 73 |
| Inflorescence | 228 | Potato | 152 |
| Inflorescence stems | 253 | Proteasome degradation | 152 |
| Inositol-1,4,5-triphosphate | 126 | Proteasome | 134 |
| Internode elongation | 99, 134 | Protein degradation | 141, 152 |
| Intracellular protein phosphorylation | 313 | | |
| Jasmonic acid | 47, 82, 289 | Quinclorac | 109 |
| <i>LE</i> gene | 99 | Reactive oxygen species | 47 |
| Leaf senescence | 217 | Receptor heterodimerization | 298 |
| Leucine-rich-repeat receptor-like kinase | 298 | Regenerative xylem | 253 |
| Light | 3 | Repression of shoot growth (RSG) protein | 195 |
| Lignification | 276 | <i>Repressor of gal-3 (RGL1)</i> gene | 134 |
| Long-distance signaling | 15 | Reproductive physiology | 276 |
| Maize | 217 | <i>RGA-like 1 (RGL1)</i> gene | 134 |
| Master regulators | 15 | <i>RGA-like 2 (RGL2)</i> gene | 134 |
| Mesophyll cells | 217 | <i>RGA-like 3 (RGL3)</i> gene | 134 |
| Metabolic deactivation | 350 | Rice | 163, 325 |
| Methyl ether analogs | 350 | Rice dwarf (<i>d1</i>) mutant | 126, 141 |
| Naphthalene acetic acid | 205 | Rice <i>GA-insensitive dwarf</i> (<i>GID2</i>) mutant | 141 |
| Necrotic spots | 240 | Rice leaf lamina inclination bioassay | 350 |
| Networks | 15 | RING finger protein | 152 |
| Nitric oxide | 47 | RNAi | 185 |
| Nitrogen deprivation | 32 | Root development | 240 |
| Nod factors | 47 | <i>Rumex acetosa</i> | 228 |
| Nodulation | 15, 47 | | |
| Novel signals | 15 | Salicylic acid | 47, 82 |
| Nuclear export | 195 | SCF complex | 141 |
| <i>O-GlcNAc</i> transferase (OGT) | 163 | Seed development | 25, 176 |
| Organ growth | 259 | Seed germination | 134 |
| Organogenesis | 47 | Seedlings | 259 |
| Ovary | 73 | Senescence | 276 |
| Pacllobutrazol | 152 | Sex determination | 228 |
| Pathogens | 82 | Side chain analogs | 350 |
| Pea | 73, 99, 325 | Signal transduction | 152, 176, 298 |
| Peptide signals | 47 | Signal transduction pathway | 82, 141, 163, 185, 313 |
| Petunia | 163 | Signaling interactions | 47 |
| Phenotypic variability | 276 | Slender rice 1 (<i>SLR1</i>) mutant | 141 |
| PHOR1 | 152 | <i>SLN</i> gene | 99 |
| Phosphorylation | 141 | <i>SLR1</i> gene | 141 |
| Phosphorylation cascade | 298, 313 | Soil compaction | 32 |
| Photoperiodism | 276 | Soil drying | 32 |
| Phototropism | 276 | Soil flooding | 32 |
| Phytohormones | 15 | <i>SPINDLY (SPY)</i> locus | 163 |
| Phytotropins | 109 | Stem elongation | 176 |
| Pigment content | 217 | Steroid signaling | 298 |
| <i>Pisum sativum</i> | 73, 99, 325 | Stomata | 32 |
| Plant defense | 47, 82 | Stress responses | 289 |
| Plant defense responses | 289 | Systemic acquired resistance | 47 |
| Plant development | 15, 163, 276 | | |
| Plant hormones | 47, 73, 276 | Target gene | 195 |
| Plasma membrane receptor kinases BRI1 and BAK1 | 313 | Tetratricopeptide repeat (TPR) proteins | 163 |
| Plasma membranes | 126 | Thermotolerance | 289 |

-
- U-box arm repeat protein PHOR1 152
Ubiquitin ligase 152
Ultrastructure 217
Upstream regulatory molecule SLN1 185
Uridine 47
Vascular differentiation 240
Vascular regeneration 253
Wound healing 253
Xylem 253
Zea mays 217