

University of Groningen

Identifying Genotype-by-Environment Interactions in the Metabolism of Germinating Arabidopsis Seeds Using Generalized Genetical Genomics

Joosen, Ronny Viktor Louis; Arends, Danny; Li, Yang; Willems, Leo A. J.; Keurentjes, Joost J. B.; Ligterink, Wilco; Jansen, Ritsert C.; Hilhorst, Henk W. M.

Published in:
 Plant Physiology

DOI:
[10.1104/pp.113.216176](https://doi.org/10.1104/pp.113.216176)

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version
 Publisher's PDF, also known as Version of record

Publication date:
 2013

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Joosen, R. V. L., Arends, D., Li, Y., Willems, L. A. J., Keurentjes, J. J. B., Ligterink, W., Jansen, R. C., & Hilhorst, H. W. M. (2013). Identifying Genotype-by-Environment Interactions in the Metabolism of Germinating Arabidopsis Seeds Using Generalized Genetical Genomics. *Plant Physiology*, 162(2), 553-566. <https://doi.org/10.1104/pp.113.216176>

Copyright

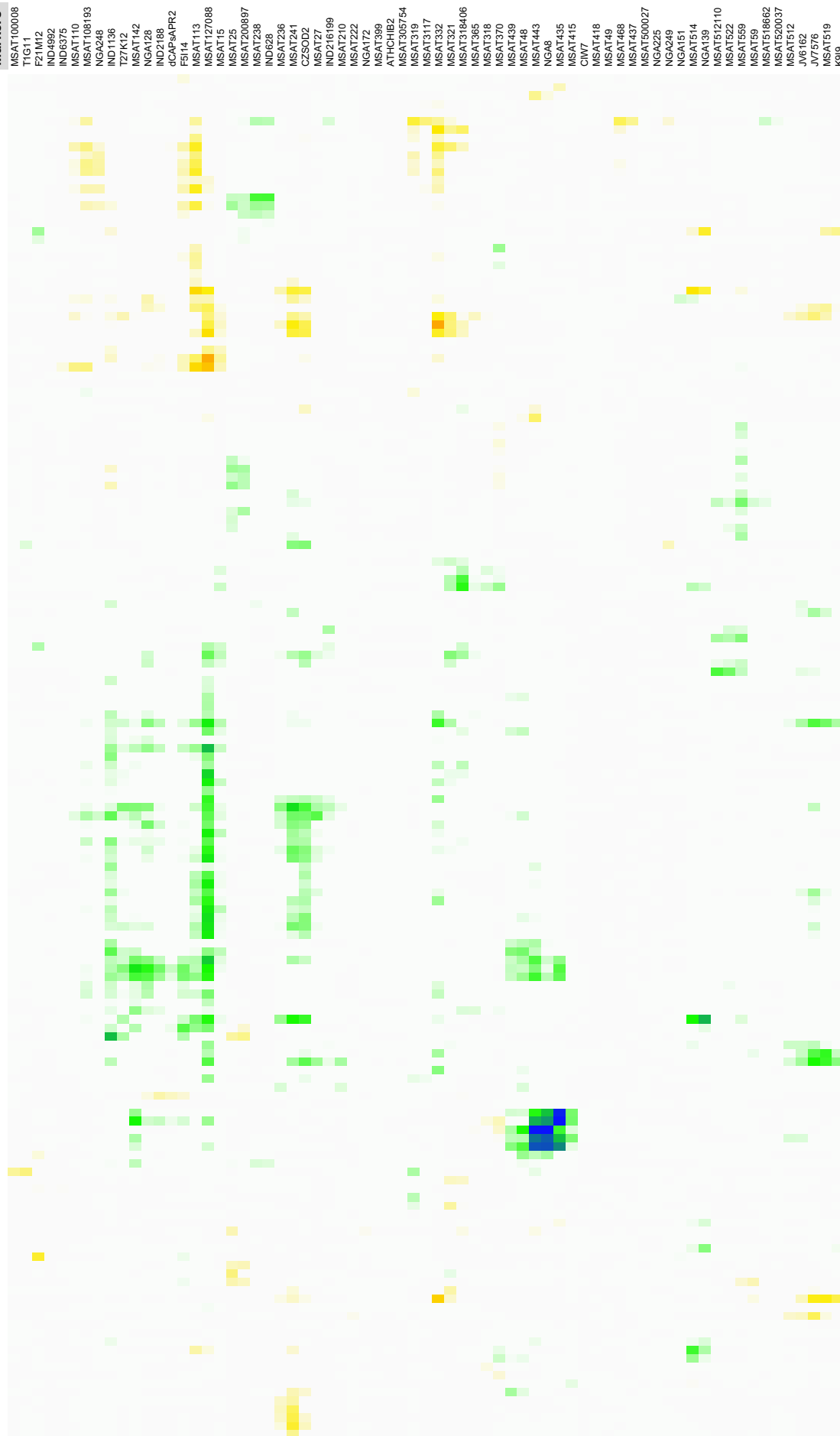
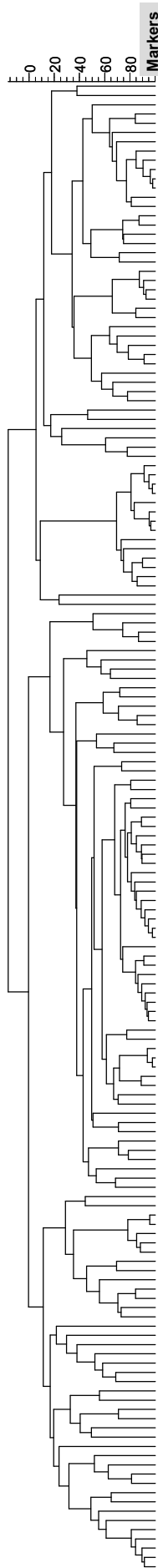
Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.



Metabolites

- RI_1796
- Allantoin
- RI_3027
- RI_1553
- RI_1912
- RI_2516
- RI_2048
- RI_2819
- RI_1816
- RI_2184
- RI_2446
- RI_2574
- RI_1705
- RI_2166
- 3,5-Aryldihydroxyglucose
- L-Xylofuranose
- RI_1271
- RI_1977
- RI_1169
- RI_1276
- D-Maltose
- RI_2881
- RI_1215
- RI_1628
- RI_1435
- RI_2878
- Galactosylglycerol
- RI_1762
- Raffinose
- Galactinol
- RI_3076
- RI_1539
- RI_2964
- Methylamine
- RI_2512
- RI_956
- Hydroxylamine
- RI_1054
- N-Acetylglutamic acid
- RI_1291
- RI_5055
- RI_1644
- RI_1555
- RI_944
- RI_2037
- RI_3066
- RI_3455
- Unknown sucrose like
- RI_3315
- RI_2699
- RI_2528
- RI_1040
- RI_2506
- RI_1047
- RI_1674
- RI_1158
- Hispanolate
- RI_3083
- Ethanolamine
- Gamma-Aminobutyric acid
- RI_2305
- Benzoic acid
- RI_1033
- L-Tyrosine
- RI_2364
- RI_1590
- RI_1815
- RI_2010
- Ascorbic acid
- RI_2052
- RI_1493
- Urea
- L-Asparagine
- Succinic acid
- Fructose 6-phosphate
- RI_993
- L-Glutamine
- RI_1632
- RI_1707
- Glycolic acid
- RI_1578
- Monomethylphosphate
- RI_1746
- Phosphoric acid
- Threonic acid
- Putrescine
- Pyroglutamic acid
- Hydroxyproline
- RI_2968
- D-Glucose
- Myoinositol
- D-Xylose
- L-Asarabiose
- D-Glutamic acid
- L-Serine
- L-Threonine
- RI_1698
- RI_1078
- Glycine
- L-Proline
- L-Valine
- L-Isoleucine
- Pyruvic acid
- RI_1624
- D-Fructose
- RI_1785
- RI_1800
- Glycopyranose
- RI_1950
- Oxoglutaric acid
- Valeric acid
- RI_2075
- Fumaric acid
- RI_2970
- L-Lysine
- RI_1062
- L-Methionine
- RI_1329
- Alanine
- L-Phenylalanine
- RI_1595
- RI_2545
- D-Mannose
- Gluconic acid
- Glucose 6-phosphate
- RI_1831
- D-Gluconic acid
- RI_3105
- RI_3145
- RI_978
- RI_1182
- L-Aspartic acid
- RI_972
- RI_982
- Sorbitol
- Nicotinic acid
- Citric acid
- Glycolic acid
- RI_1161
- Sinapate
- RI_2640
- RI_1152
- Malic acid
- RI_2175
- Sucrose
- Glutaric acid
- RI_2613
- RI_2455
- 2-Hydroxybutyric acid
- RI_1625
- RI_2733
- RI_2983
- RI_1155
- RI_2035
- RI_2414
- RI_3203
- RI_2617
- RI_1738
- RI_2353
- RI_2587
- RI_3201