

Measures for interoperability of phenotypic data: minimal formatting

Plant Methods

12, 44

DOI: [10.1186/s13007-016-0144-4](https://doi.org/10.1186/s13007-016-0144-4)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Image Analysis in Plant Sciences: Publish Then Perish. Trends in Plant Science, 2017, 22, 559-566.	4.3	124
2	From plant genomes to phenotypes. Journal of Biotechnology, 2017, 261, 46-52.	1.9	29
3	Species descriptions and digital environments: alternatives for accessibility of morphological data. Revista Brasileira De Entomologia, 2017, 61, 277-281.	0.1	1
4	High-throughput phenotyping. American Journal of Botany, 2017, 104, 505-508.	0.8	44
5	Terminology supported archiving and publication of environmental science data in PANGAEA. Journal of Biotechnology, 2017, 261, 177-186.	1.9	10
6	Plant Phenomics, From Sensors to Knowledge. Current Biology, 2017, 27, R770-R783.	1.8	416
7	Bioinformatics in the plant genomic and phenomic domain: The German contribution to resources, services and perspectives. Journal of Biotechnology, 2017, 261, 37-45.	1.9	12
8	Data management and best practice for plant science. Nature Plants, 2017, 3, 17086.	4.7	38
9	EURISCO: The European search catalogue for plant genetic resources. Nucleic Acids Research, 2017, 45, D1003-D1008.	6.5	81
10	Joint Data Analysis in Nutritional Epidemiology: Identification of Observational Studies and Minimal Requirements. Journal of Nutrition, 2018, 148, 285-297.	1.3	13
11	The "PhenoBox"™, a flexible, automated, open-source plant phenotyping solution. New Phytologist, 2018, 219, 808-823.	3.5	44
12	Predicting plant biomass accumulation from image-derived parameters. GigaScience, 2018, 7, .	3.3	51
13	The European Bioinformatics Institute in 2017: data coordination and integration. Nucleic Acids Research, 2018, 46, D21-D29.	6.5	56
14	GWA-Portal: Genome-Wide Association Studies Made Easy. Methods in Molecular Biology, 2018, 1761, 303-319.	0.4	24
15	AgBioData consortium recommendations for sustainable genomics and genetics databases for agriculture. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	1.4	52
16	Growing and cultivating the forest genomics database, TreeGenes. Database: the Journal of Biological Databases and Curation, 2018, 2018, 1-11.	1.4	40
17	The electronic Rothamsted Archive (e-RA), an online resource for data from the Rothamsted long-term experiments. Scientific Data, 2018, 5, 180072.	2.4	57
18	Linking the International Wheat Genome Sequencing Consortium bread wheat reference genome sequence to wheat genetic and phenomic data. Genome Biology, 2018, 19, 111.	3.8	232

#	ARTICLE	IF	CITATIONS
19	What is cost-efficient phenotyping? Optimizing costs for different scenarios. <i>Plant Science</i> , 2019, 282, 14-22.	1.7	103
20	To clean or not to clean phenotypic datasets for outlier plants in genetic analyses?. <i>Journal of Experimental Botany</i> , 2019, 70, 3693-3698.	2.4	7
21	BrAPIâ€”an application programming interface for plant breeding applications. <i>Bioinformatics</i> , 2019, 35, 4147-4155.	1.8	82
22	Genebank genomics bridges the gap between the conservation of crop diversity and plant breeding. <i>Nature Genetics</i> , 2019, 51, 1076-1081.	9.4	176
23	The Plant Ontology Facilitates Comparisons of Plant Development Stages Across Species. <i>Frontiers in Plant Science</i> , 2019, 10, 631.	1.7	36
24	High-Throughput Field-Phenotyping Tools for Plant Breeding and Precision Agriculture. <i>Agronomy</i> , 2019, 9, 258.	1.3	144
25	Modeling Crop Genetic Resources Phenotyping Information Systems. <i>Frontiers in Plant Science</i> , 2019, 10, 728.	1.7	10
26	Sourceâ€”Sink Regulation in Crops under Water Deficit. <i>Trends in Plant Science</i> , 2019, 24, 652-663.	4.3	102
27	The Phenotyping Dilemmaâ€”The Challenges of a Diversified Phenotyping Community. <i>Frontiers in Plant Science</i> , 2019, 10, 163.	1.7	32
28	Field crop phenomics: enabling breeding for radiation use efficiency and biomass in cereal crops. <i>New Phytologist</i> , 2019, 223, 1714-1727.	3.5	157
29	Experimental Design and Sample Preparation in Forest Tree Metabolomics. <i>Metabolites</i> , 2019, 9, 285.	1.3	29
30	The future of legume genetic data resources: Challenges, opportunities, and priorities. , 2019, 1, e16.		30
31	Dealing with multiâ€”source and multiâ€”scale information in plant phenomics: the ontologyâ€”driven Phenotyping Hybrid Information System. <i>New Phytologist</i> , 2019, 221, 588-601.	3.5	56
32	Barley varieties in semiâ€”controlled and natural conditionsâ€”Response to water shortage and changing environment. <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 295-308.	1.7	4
33	Review: New sensors and data-driven approachesâ€”A path to next generation phenomics. <i>Plant Science</i> , 2019, 282, 2-10.	1.7	129
34	High-throughput phenotyping for crop improvement in the genomics era. <i>Plant Science</i> , 2019, 282, 60-72.	1.7	176
35	Computational aspects underlying genome to phenome analysis in plants. <i>Plant Journal</i> , 2019, 97, 182-198.	2.8	50
36	Cyberinfrastructure and resources to enable an integrative approach to studying forest trees. <i>Evolutionary Applications</i> , 2020, 13, 228-241.	1.5	12

#	ARTICLE	IF	CITATIONS
37	Bridging the food security gap: an information-enabled approach to connect dietary nutrition, food composition and crop production. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 1495-1504.	1.7	10
38	The Ontologies Community of Practice: A CGIAR Initiative for Big Data in Agrifood Systems. <i>Patterns</i> , 2020, 1, 100105.	3.1	53
39	Data synthesis for crop variety evaluation. A review. <i>Agronomy for Sustainable Development</i> , 2020, 40, 25.	2.2	14
40	Food Phenotyping: Recording and Processing of Non-Targeted Liquid Chromatography Mass Spectrometry Data for Verifying Food Authenticity. <i>Molecules</i> , 2020, 25, 3972.	1.7	15
41	Document or Lose It—On the Importance of Information Management for Genetic Resources Conservation in Genebanks. <i>Plants</i> , 2020, 9, 1050.	1.6	35
42	BRIDGE – A Visual Analytics Web Tool for Barley Genebank Genomics. <i>Frontiers in Plant Science</i> , 2020, 11, 701.	1.7	31
43	SeedGerm: a cost-effective phenotyping platform for automated seed imaging and machine-learning based phenotypic analysis of crop seed germination. <i>New Phytologist</i> , 2020, 228, 778-793.	3.5	62
44	Knowledge representation and data sharing to unlock crop variation for nutritional food security. <i>Crop Science</i> , 2020, 60, 516-529.	0.8	7
45	Enabling reusability of plant phenomic datasets with MIAPPE 1.1. <i>New Phytologist</i> , 2020, 227, 260-273.	3.5	84
46	Genebank Phenomics: A Strategic Approach to Enhance Value and Utilization of Crop Germplasm. <i>Plants</i> , 2020, 9, 817.	1.6	35
47	Phenotyping: New Windows into the Plant for Breeders. <i>Annual Review of Plant Biology</i> , 2020, 71, 689-712.	8.6	102
48	Semantic concept schema of the linear mixed model of experimental observations. <i>Scientific Data</i> , 2020, 7, 70.	2.4	8
49	Crop Phenomics and High-Throughput Phenotyping: Past Decades, Current Challenges, and Future Perspectives. <i>Molecular Plant</i> , 2020, 13, 187-214.	3.9	423
50	Programmatic Access to FAIRified Digital Plant Genetic Resources. <i>Journal of Integrative Bioinformatics</i> , 2019, 16, .	1.0	9
51	Food authentication in real life: How to link nontargeted approaches with routine analytics?. <i>Electrophoresis</i> , 2020, 41, 1665-1679.	1.3	26
52	Designing future crops: challenges and strategies for sustainable agriculture. <i>Plant Journal</i> , 2021, 105, 1165-1178.	2.8	110
53	Mass spectrometry-based forest tree metabolomics. <i>Mass Spectrometry Reviews</i> , 2021, 40, 126-157.	2.8	25
54	Challenges for FAIR-compliant description and comparison of crop phenotype data with standardized controlled vocabularies. <i>Database: the Journal of Biological Databases and Curation</i> , 2021, 2021, .	1.4	4

#	ARTICLE	IF	CITATIONS
55	Implementing FAIR data management within the German Network for Bioinformatics Infrastructure (de.NBI) exemplified by selected use cases. Briefings in Bioinformatics, 2021, 22, .	3.2	18
56	Improving the completeness of public metadata accompanying omics studies. Genome Biology, 2021, 22, 106.	3.8	22
57	Meta-GWAS for quantitative trait loci identification in soybean. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	23
58	Advanced high-throughput plant phenotyping techniques for genome-wide association studies: A review. Journal of Advanced Research, 2022, 35, 215-230.	4.4	62
59	Evolutionary Origins of Drought Tolerance in Spermatophytes. Frontiers in Plant Science, 2021, 12, 655924.	1.7	13
60	Opportunities and limits of controlled-environment plant phenotyping for climate response traits. Theoretical and Applied Genetics, 2022, 135, 1-16.	1.8	28
61	A Critical Review of the Current Global Ex Situ Conservation System for Plant Agrobiodiversity. II. Strengths and Weaknesses of the Current System and Recommendations for Its Improvement. Plants, 2021, 10, 1904.	1.6	18
62	ISA API: An open platform for interoperable life science experimental metadata. GigaScience, 2021, 10, .	3.3	19
63	Polish network of research infrastructure for plant phenotyping. Research Ideas and Outcomes, 0, 7, .	1.0	0
64	Mutation of the ALBOSTRIANS Ohnologous Gene HvCMF3 Impairs Chloroplast Development and Thylakoid Architecture in Barley. Frontiers in Plant Science, 2021, 12, 732608.	1.7	7
65	Propensity to Use an Aerial Data Collection Device in Agricultural Research. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 297-312.	0.2	0
67	Striving for Semantics of Plant Phenotyping Data. Lecture Notes in Computer Science, 2018, , 161-169.	1.0	1
68	From Dirty Data to Tidy Facts: Clustering Practices in Plant Phenomics and Business Cycle Analysis. , 2020, , 79-101.		7
70	Plant Phenotyping: Past, Present, and Future. Plant Phenomics, 2019, 2019, 1-6.	2.5	26
71	Introducing the Brassica Information Portal: Towards integrating genotypic and phenotypic Brassica crop data. F1000Research, 2017, 6, 465.	0.8	16
72	Introducing the Brassica Information Portal: Towards integrating genotypic and phenotypic Brassica crop data. F1000Research, 2017, 6, 465.	0.8	10
73	Developing data interoperability using standards: A wheat community use case. F1000Research, 2017, 6, 1843.	0.8	14
74	Developing data interoperability using standards: A wheat community use case. F1000Research, 2017, 6, 1843.	0.8	20

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75	Prospects for Measurement of Dry Matter Yield in Forage Breeding Programs Using Sensor Technologies. <i>Agronomy</i> , 2019, 9, 65.	1.3	30
76	Applying FAIR Principles to Plant Phenotypic Data Management in GnpIS. <i>Plant Phenomics</i> , 2019, 2019, 1671403.	2.5	38
77	Plant Phenotyping: Past, Present, and Future. <i>Plant Phenomics</i> , 2019, 2019, 7507131.	2.5	171
78	Global Wheat Head Detection (GWHD) Dataset: A Large and Diverse Dataset of High-Resolution RGB-Labelled Images to Develop and Benchmark Wheat Head Detection Methods. <i>Plant Phenomics</i> , 2020, 2020, 3521852.	2.5	128
79	PlantCV v2: Image analysis software for high-throughput plant phenotyping. <i>PeerJ</i> , 2017, 5, e4088.	0.9	211
81	WTO, an ontology for wheat traits and phenotypes in scientific publications. <i>Genomics and Informatics</i> , 2020, 18, e14.	0.4	2
83	Governance and stewardship for research data and information sharing: Issues and prospective solutions in the transdisciplinary plant phenotyping and imaging research center network. <i>Plants People Planet</i> , 2022, 4, 84-95.	1.6	0
86	High-throughput field crop phenotyping: current status and challenges. <i>Breeding Science</i> , 2022, 72, 3-18.	0.9	18
87	Pursuing greener farming by clarifying legume-insect pest interactions and developing marker-assisted molecular breeding. <i>Advances in Botanical Research</i> , 2022, , 211-258.	0.5	1
88	From Genotypes to Phenotypes: A Plant Perspective on Current Developments in Data Management and Data Publication. , 2022, , 11-43.		2
89	Connecting plant phenotyping and modelling communities: lessons from science mapping and operational perspectives. <i>In Silico Plants</i> , 2022, 4, .	0.8	4
97	Towards smart and sustainable development of modern berry cultivars in Europe. <i>Plant Journal</i> , 2022, 111, 1238-1251.	2.8	13
98	Phenotyping for QTL identification: A case study of resistance to <i>Plasmopara viticola</i> and <i>Erysiphe necator</i> in grapevine. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	8
99	Design Considerations for In-Field Measurement of Plant Architecture Traits Using Ground-Based Platforms. <i>Methods in Molecular Biology</i> , 2022, , 171-190.	0.4	0
100	A primer on artificial intelligence in plant digital phenomics: embarking on the data to insights journey. <i>Trends in Plant Science</i> , 2023, 28, 154-184.	4.3	15
102	A variety test platform for the standardization and data quality improvement of crop variety tests. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	2
105	Genome to phenome: bioinformatics of crop plants. , 2023, , 1-18.		0