

Olivier Leprince

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56
papers

3,149
citations

31
h-index

56
g-index

62
ext. papers

3,605
ext. citations

5.6
avg, IF

5.08
L-index

#	Paper	IF	Citations
56	Glass formation in plant anhydrobiotes: survival in the dry state. <i>Cryobiology</i> , 2004 , 48, 215-28	2.7	270
55	The mechanisms of desiccation tolerance in developing seeds. <i>Seed Science Research</i> , 1993 , 3, 231-246	1.3	207
54	Comparative analysis of the heat stable proteome of radicles of <i>Medicago truncatula</i> seeds during germination identifies late embryogenesis abundant proteins associated with desiccation tolerance. <i>Plant Physiology</i> , 2006 , 140, 1418-36	6.6	168
53	Late seed maturation: drying without dying. <i>Journal of Experimental Botany</i> , 2017 , 68, 827-841	7	120
52	A regulatory network-based approach dissects late maturation processes related to the acquisition of desiccation tolerance and longevity of <i>Medicago truncatula</i> seeds. <i>Plant Physiology</i> , 2013 , 163, 757-74	6.6	119
51	Transcriptome profiling uncovers metabolic and regulatory processes occurring during the transition from desiccation-sensitive to desiccation-tolerant stages in <i>Medicago truncatula</i> seeds. <i>Plant Journal</i> , 2006 , 47, 735-50	6.9	114
50	Intracellular glasses and seed survival in the dry state. <i>Comptes Rendus - Biologies</i> , 2008 , 331, 788-95	1.4	113
49	Desiccation tolerance: From genomics to the field. <i>Plant Science</i> , 2010 , 179, 554-564	5.3	106
48	The role of free radicals and radical processing systems in loss of desiccation tolerance in germinating maize (<i>Zea mays</i> L.). <i>New Phytologist</i> , 1990 , 116, 573-580	9.8	106
47	Developmental heat sum influences recalcitrant seed traits in <i>Aesculus hippocastanum</i> across Europe. <i>New Phytologist</i> , 2004 , 162, 157-166	9.8	98
46	Metabolic dysfunction and unabated respiration precede the loss of membrane integrity during dehydration of germinating radicles. <i>Plant Physiology</i> , 2000 , 122, 597-608	6.6	98
45	Temporal profiling of the heat-stable proteome during late maturation of <i>Medicago truncatula</i> seeds identifies a restricted subset of late embryogenesis abundant proteins associated with longevity. <i>Plant, Cell and Environment</i> , 2012 , 35, 1440-55	8.4	93
44	Oleosins prevent oil-body coalescence during seed imbibition as suggested by a low-temperature scanning electron microscope study of desiccation-tolerant and -sensitive oilseeds. <i>Planta</i> , 1997 , 204, 109-119	4.7	91
43	Non-disaccharide-based mechanisms of protection during drying. <i>Cryobiology</i> , 2001 , 43, 151-67	2.7	91
42	LEA polypeptide profiling of recalcitrant and orthodox legume seeds reveals ABI3-regulated LEA protein abundance linked to desiccation tolerance. <i>Journal of Experimental Botany</i> , 2013 , 64, 4559-73	7	89
41	The re-establishment of desiccation tolerance in germinated radicles of <i>Medicago truncatula</i> Gaertn. seeds. <i>Seed Science Research</i> , 2003 , 13, 273-286	1.3	83
40	MtPM25 is an atypical hydrophobic late embryogenesis-abundant protein that dissociates cold and desiccation-aggregated proteins. <i>Plant, Cell and Environment</i> , 2010 , 33, 418-30	8.4	81

39	Changes in starch and soluble sugars in relation to the acquisition of desiccation tolerance during maturation of <i>Brassica campestris</i> seed. <i>Plant, Cell and Environment</i> , 1990 , 13, 539-546	8.4	81
38	Inference of Longevity-Related Genes from a Robust Coexpression Network of Seed Maturation Identifies Regulators Linking Seed Storability to Biotic Defense-Related Pathways. <i>Plant Cell</i> , 2015 , 27, 2692-708	11.6	80
37	The reduction of seed-specific dehydrins reduces seed longevity in <i>Arabidopsis thaliana</i> . <i>Seed Science Research</i> , 2011 , 21, 165-173	1.3	67
36	Molecular mobility in the cytoplasm: an approach to describe and predict lifespan of dry germplasm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 2385-90	11.5	65
35	ABI5 Is a Regulator of Seed Maturation and Longevity in Legumes. <i>Plant Cell</i> , 2016 , 28, 2735-2754	11.6	62
34	LEA Proteins: Versatility of Form and Function. <i>Topics in Current Genetics</i> , 2010 , 91-108		61
33	Quantitative trait loci analysis reveals a correlation between the ratio of sucrose/raffinose family oligosaccharides and seed vigour in <i>Medicago truncatula</i> . <i>Plant, Cell and Environment</i> , 2011 , 34, 1473-87	8.4	59
32	The regulatory gamma subunit SNF4b of the sucrose non-fermenting-related kinase complex is involved in longevity and stachyose accumulation during maturation of <i>Medicago truncatula</i> seeds. <i>Plant Journal</i> , 2007 , 51, 47-59	6.9	58
31	Variable desiccation tolerance in <i>Acer pseudoplatanus</i> seeds in relation to developmental conditions: a case of phenotypic recalcitrance?. <i>Functional Plant Biology</i> , 2006 , 33, 59-66	2.7	58
30	Introduction to desiccation biology: from old borders to new frontiers. <i>Planta</i> , 2015 , 242, 369-78	4.7	42
29	The responses of cytochrome redox state and energy metabolism to dehydration support a role for cytoplasmic viscosity in desiccation tolerance. <i>Plant Physiology</i> , 1998 , 118, 1253-64	6.6	42
28	Molecular characterization of the acquisition of longevity during seed maturation in soybean. <i>PLoS ONE</i> , 2017 , 12, e0180282	3.7	41
27	Respiratory pathways in germinating maize radicles correlated with desiccation tolerance and soluble sugars. <i>Physiologia Plantarum</i> , 1992 , 85, 581-588	4.6	33
26	The expression of desiccation-induced damage in orthodox seeds is a function of oxygen and temperature. <i>Physiologia Plantarum</i> , 1995 , 94, 233-240	4.6	32
25	Genome-wide association studies with proteomics data reveal genes important for synthesis, transport and packaging of globulins in legume seeds. <i>New Phytologist</i> , 2017 , 214, 1597-1613	9.8	29
24	Characterization of dormancy behaviour in seeds of the model legume <i>Medicago truncatula</i> . <i>Seed Science Research</i> , 2010 , 20, 97-107	1.3	28
23	The expression of desiccation-induced damage in orthodox seeds is a function of oxygen and temperature. <i>Physiologia Plantarum</i> , 1995 , 94, 233-240	4.6	28
22	Molecular and environmental factors regulating seed longevity. <i>Biochemical Journal</i> , 2020 , 477, 305-323	3.8	28

21	An emerging picture of the seed desiccome: confirmed regulators and newcomers identified using transcriptome comparison. <i>Frontiers in Plant Science</i> , 2013 , 4, 497	6.2	25
20	Dehydration-induced redistribution of amphiphilic molecules between cytoplasm and lipids is associated with desiccation tolerance in seeds. <i>Plant Physiology</i> , 2000 , 124, 1413-26	6.6	24
19	Starvation, osmotic stress and desiccation tolerance lead to expression of different genes of the regulatory β and β subunits of the SnRK1 complex in germinating seeds of <i>Medicago truncatula</i> . <i>Plant, Cell and Environment</i> , 2004 , 27, 55-67	8.4	23
18	Axes and cotyledons of recalcitrant seeds of <i>Castanea sativa</i> Mill. exhibit contrasting responses of respiration to drying in relation to desiccation sensitivity		21
17	A role for auxin signaling in the acquisition of longevity during seed maturation. <i>New Phytologist</i> , 2020 , 225, 284-296	9.8	17
16	Identification of a molecular dialogue between developing seeds of <i>Medicago truncatula</i> and seedborne xanthomonads. <i>Journal of Experimental Botany</i> , 2015 , 66, 3737-52	7	15
15	The MtSNF4b subunit of the sucrose non-fermenting-related kinase complex connects after-ripening and constitutive defense responses in seeds of <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2010 , 61, 792-803	6.9	15
14	The effects of moisture and temperature on the ageing kinetics of pollen: interpretation based on cytoplasmic mobility. <i>Plant, Cell and Environment</i> , 2000 , 23, 967-974	8.4	15
13	Late seed maturation improves the preservation of seedling emergence during storage in soybean. <i>Journal of Seed Science</i> , 2018 , 40, 185-192	1	9
12	Changes in chromatin structure associated with germination of maize and their relation with desiccation tolerance. <i>Plant, Cell and Environment</i> , 1995 , 18, 619-629	8.4	9
11	The role of sugars and hexose phosphorylation in regulating the re-establishment of desiccation tolerance in germinated radicles of <i>Cucumis sativa</i> and <i>Medicago truncatula</i> . <i>Physiologia Plantarum</i> , 2004 , 122, 200-209	4.6	6
10	The seed-specific heat shock factor A9 regulates the depth of dormancy in <i>Medicago truncatula</i> seeds via ABA signalling. <i>Plant, Cell and Environment</i> , 2020 , 43, 2508-2522	8.4	6
9	Letters to the twenty-first century botanist. Second series: What is a seed? 2. Regulation of desiccation tolerance and longevity in developing seeds: two faces of the same coin <i>Botany Letters</i> , 2018 , 165, 181-185	1.1	5
8	Gene co-expression analysis of tomato seed maturation reveals tissue-specific regulatory networks and hubs associated with the acquisition of desiccation tolerance and seed vigour. <i>BMC Plant Biology</i> , 2021 , 21, 124	5.3	4
7	The Glassy State in Dry Seeds and Pollen 193-214		3
6	Respiratory pathways in germinating maize radicles correlated with desiccation tolerance and soluble sugars. <i>Physiologia Plantarum</i> , 1992 , 85, 581-588	4.6	3
5	Genome-Wide Association Studies of Seed Performance Traits in Response to Heat Stress in Uncover as a Regulator of Seed Germination Plasticity. <i>Frontiers in Plant Science</i> , 2021 , 12, 673072	6.2	2
4	Foreword. Special issue on desiccation biology. <i>Planta</i> , 2015 , 242, 367	4.7	1

- 3 RNA sequencing data for heat stress response in isolated seed tissues. *Data in Brief*, **2021**, 35, 106726 1.2 1
- 2 A physiological perspective of late maturation processes and establishment of seed quality in *Medicago truncatula* seeds **2019**, 44-54 1
- 1 Dataset for transcriptome and physiological response of mature tomato seed tissues to light and heat during fruit ripening. *Data in Brief*, **2021**, 34, 106671 1.2