

# Sebastien Christian Carpentier

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

3,513  
citations

172457

29  
h-index

161849

54  
g-index

112  
all docs

112  
docs citations

112  
times ranked

4520  
citing authors

#	ARTICLE	IF	CITATIONS
1	A digital catalog of high-density markers for banana germplasm collections. <i>Plants People Planet</i> , 2022, 4, 61-67.	3.3	7
2	High-throughput phenotyping reveals differential transpiration behaviour within the banana wild relatives highlighting diversity in drought tolerance. <i>Plant, Cell and Environment</i> , 2022, 45, 1647-1663.	5.7	10
3	Proteomics analysis reveals new insights into surface pitting of sweet cherry cultivars displaying contrasting susceptibility. <i>Journal of Horticultural Science and Biotechnology</i> , 2022, 97, 615-625.	1.9	1
4	From fruit growth to ripening in plantain: a careful balance between carbohydrate synthesis and breakdown. <i>Journal of Experimental Botany</i> , 2022, 73, 4832-4849.	4.8	5
5	Unravelling the complex story of intergenomic recombination in ABB allotriploid bananas. <i>Annals of Botany</i> , 2021, 127, 7-20.	2.9	27
6	Filling the gaps in gene banks: Collecting, characterizing, and phenotyping wild banana relatives of Papua New Guinea. <i>Crop Science</i> , 2021, 61, 137-149.	1.8	19
7	The impact of slow stomatal kinetics on photosynthesis and water use efficiency under fluctuating light. <i>Plant Physiology</i> , 2021, 186, 998-1012.	4.8	71
8	Sequence of proteome profiles in preclinical and symptomatic Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2021, 17, 946-958.	0.8	16
9	Identification of rye B chromosome-associated peptides by mass spectrometry. <i>New Phytologist</i> , 2021, 230, 2179-2185.	7.3	6
10	dsRNA Molecules From the Tobacco Mosaic Virus p126 Gene Counteract TMV-Induced Proteome Changes at an Early Stage of Infection. <i>Frontiers in Plant Science</i> , 2021, 12, 663707.	3.6	7
11	A digital sensor to measure real-time leaf movements and detect abiotic stress in plants. <i>Plant Physiology</i> , 2021, 187, 1131-1148.	4.8	17
12	Gene Erosion Can Lead to Gain-of-Function Alleles That Contribute to Bacterial Fitness. <i>MBio</i> , 2021, 12, e0112921.	4.1	5
13	Odorant-binding proteins in canine anal sac glands indicate an evolutionarily conserved role in mammalian chemical communication. <i>Bmc Ecology and Evolution</i> , 2021, 21, 182.	1.6	6
14	Suitability of root, tuber, and banana crops in Central Africa can be favoured under future climates. <i>Agricultural Systems</i> , 2021, 193, 103246.	6.1	17
15	Polyploidy affects the development of <i>Venturia inaequalis</i> in scab-resistant and -susceptible apple cultivars. <i>Scientia Horticulturae</i> , 2021, 290, 110436.	3.6	5
16	The Neonatal and Juvenile Pig in Pediatric Drug Discovery and Development. <i>Pharmaceutics</i> , 2021, 13, 44.	4.5	17
17	Effect of Seasonal Drought on the Agronomic Performance of Four Banana Genotypes ( <i>Musa</i> spp.) in the East African Highlands. <i>Agronomy</i> , 2021, 11, 4.	3.0	11
18	Proteomic analysis of mashua ( <i>Tropaeolum tuberosum</i> ) tubers subjected to postharvest treatments. <i>Food Chemistry</i> , 2020, 305, 125485.	8.2	10

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19	Autologous micrograft accelerates endogenous wound healing response through ERK-induced cell migration. <i>Cell Death and Differentiation</i> , 2020, 27, 1520-1538.	11.2	29
20	Characterizing fruit ripening in plantain and Cavendish bananas: A proteomics approach. <i>Journal of Proteomics</i> , 2020, 214, 103632.	2.4	20
21	Distinct autophagy-apoptosis related pathways activated by Multi-walled (NM 400) and Single-walled carbon nanotubes (NIST-SRM2483) in human bronchial epithelial (16HBE14o-) cells. <i>Journal of Hazardous Materials</i> , 2020, 387, 121691.	12.4	15
22	Challenges for Ex Situ Conservation of Wild Bananas: Seeds Collected in Papua New Guinea Have Variable Levels of Desiccation Tolerance. <i>Plants</i> , 2020, 9, 1243.	3.5	17
23	Safeguarding and using global banana diversity: a holistic approach. <i>CABI Agriculture and Bioscience</i> , 2020, 1, .	2.4	26
24	Seminal and Nodal Roots of Barley Differ in Anatomy, Proteome and Nitrate Uptake Capacity. <i>Plant and Cell Physiology</i> , 2020, 61, 1297-1308.	3.1	12
25	Breeding Climate-Resilient Bananas. , 2020, , 91-115.		10
26	The Use of Proteomics in Search of Allele-Specific Proteins in (Allo)polyploid Crops. <i>Methods in Molecular Biology</i> , 2020, 2139, 297-308.	0.9	0
27	The importance of the light spectrum in a high-throughput phenotyping lab concept: evaluating transpiration and biomass growth of different banana cultivars under different blue/red light ratios. <i>Acta Horticulturae</i> , 2020, , 13-20.	0.2	1
28	The usage of phenotyping, genetics and functional genomics approaches to improve environmental stress factors in banana. <i>Burleigh Dodds Series in Agricultural Science</i> , 2020, , 367-396.	0.2	0
29	The role of Arabidopsis ABA receptors from the PYR/PYL/RCAR family in stomatal acclimation and closure signal integration. <i>Nature Plants</i> , 2019, 5, 1002-1011.	9.3	115
30	The cryoprotectant PVS2 plays a crucial role in germinating <i>Passiflora ligularis</i> embryos after cryopreservation by influencing the mobilization of lipids and the antioxidant metabolism. <i>Journal of Plant Physiology</i> , 2019, 239, 71-82.	3.5	6
31	Effect of paleopolyploidy and allopolyploidy on gene expression in banana. <i>BMC Genomics</i> , 2019, 20, 244.	2.8	22
32	Integration of proteomics and metabolomics data of early and middle season Hass avocados under heat treatment. <i>Food Chemistry</i> , 2019, 289, 512-521.	8.2	35
33	Using Growth and Transpiration Phenotyping Under Controlled Conditions to Select Water Efficient Banana Genotypes. <i>Frontiers in Plant Science</i> , 2019, 10, 352.	3.6	25
34	Aggregating sequences that occur in many proteins constitute weak spots of bacterial proteostasis. <i>Nature Communications</i> , 2018, 9, 866.	12.8	53
35	Homeolog expression analysis in an allotriploid non-model crop via integration of transcriptomics and proteomics. <i>Scientific Reports</i> , 2018, 8, 1353.	3.3	34
36	The Plantain Proteome, a Focus on Allele Specific Proteins Obtained from Plantain Fruits. <i>Proteomics</i> , 2018, 18, 1700227.	2.2	10

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37	Dawn regulates guard cell proteins in <i>Arabidopsis thaliana</i> that function in ATP production from fatty acid beta-oxidation. <i>Plant Molecular Biology</i> , 2018, 98, 525-543.	3.9	10
38	Genotype-Specific Growth and Proteomic Responses of Maize Toward Salt Stress. <i>Frontiers in Plant Science</i> , 2018, 9, 661.	3.6	20
39	Obtaining of peptides with <i>in vitro</i> antioxidant and angiotensin I-converting enzyme inhibitory activities from cañihua protein ( <i>Chenopodium pallidicaule</i> Aellen). <i>Journal of Cereal Science</i> , 2018, 83, 139-146.	3.7	29
40	Plant Phenotyping Research Trends, a Science Mapping Approach. <i>Frontiers in Plant Science</i> , 2018, 9, 1933.	3.6	113
41	Proteomic Differences between Azole-Susceptible and -Resistant &Aspergillus fumigatus& Strains. <i>Advances in Microbiology</i> , 2018, 08, 77-99.	0.6	5
42	Changes in the fine root proteome of <i>Fagus sylvatica</i> L. trees associated with P-deficiency and amelioration of P-deficiency. <i>Journal of Proteomics</i> , 2017, 169, 33-40.	2.4	10
43	New insights into the heterogeneous ripening in Hass avocado via LC-MS/MS proteomics. <i>Postharvest Biology and Technology</i> , 2017, 132, 51-61.	6.0	38
44	Identification of dimedone-trapped sulfenylated proteins in plants under stress. <i>Biochemistry and Biophysics Reports</i> , 2017, 9, 106-113.	1.3	21
45	Transient alkalinization of the leaf apoplast stiffens the cell wall during onset of chloride salinity in corn leaves. <i>Journal of Biological Chemistry</i> , 2017, 292, 18800-18813.	3.4	34
46	Characterization of the formation of somatic embryos from mature zygotic embryos of <i>Passiflora ligularis</i> Juss.. <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 131, 97-105.	2.3	9
47	Identification of an enterovirus recombinant with a torovirus-like gene insertion during a diarrhea outbreak in fattening pigs. <i>Virus Evolution</i> , 2017, 3, vex024.	4.9	30
48	Somatic Embryogenesis in Coffee: The Evolution of Biotechnology and the Integration of Omics Technologies Offer Great Opportunities. <i>Frontiers in Plant Science</i> , 2017, 8, 1460.	3.6	64
49	Elucidation of the compatible interaction between banana and <i>Meloidogyne incognita</i> via high-throughput proteome profiling. <i>PLoS ONE</i> , 2017, 12, e0178438.	2.5	6
50	Influence of pre-harvest calcium, potassium and triazole application on the proteome of apple at harvest. <i>Journal of the Science of Food and Agriculture</i> , 2016, 96, 4984-4993.	3.5	8
51	Mutation breeding as an effective tool for papaya improvement in South Africa. <i>Acta Horticulturae</i> , 2016, , 71-78.	0.2	3
52	Differential root transcriptomics in a polyploid non-model crop: the importance of respiration during osmotic stress. <i>Scientific Reports</i> , 2016, 6, 22583.	3.3	34
53	Identification of lanthionine and lysinoalanine in heat-treated wheat gliadin and bovine serum albumin using tandem mass spectrometry with higher-energy collisional dissociation. <i>Amino Acids</i> , 2016, 48, 959-971.	2.7	25
54	Proteome Changes during Transition from Human Embryonic to Vascular Progenitor Cells. <i>Journal of Proteome Research</i> , 2016, 15, 1995-2007.	3.7	10

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55	The Enrichment of <i>Histomonas meleagridis</i> and Its Pathogen-Specific Protein Analysis: A First Step to Shed Light on Its Virulence. <i>Avian Diseases</i> , 2016, 60, 628-636.	1.0	20
56	Abiotic Stress Tolerance Research Using-Omics Approaches. , 2016, , 77-91.		1
57	Follicular fluid biomarkers for human in vitro fertilization outcome: Proof of principle. <i>Proteome Science</i> , 2016, 14, 17.	1.7	31
58	The proteome profile of embryogenic cell suspensions of <i>Coffea arabica</i> L.. <i>Proteomics</i> , 2016, 16, 1001-1005.	2.2	22
59	Multiple Testing and Pattern Recognition in 2-DE Proteomics. <i>Methods in Molecular Biology</i> , 2016, 1384, 215-235.	0.9	4
60	IN SEARCH OF BIOMARKERS FOR BROWNING IN APPLE: A PROTEOMICS APPROACH. <i>Acta Horticulturae</i> , 2015, , 107-113.	0.2	0
61	BROWNING OF APPLE CORTEX DURING CA STORAGE: A PROTEOMICS APPROACH. <i>Acta Horticulturae</i> , 2015, , 373-379.	0.2	0
62	The quest for tolerant varieties: the importance of integrating "omics" techniques to phenotyping. <i>Frontiers in Plant Science</i> , 2015, 6, 448.	3.6	67
63	Transpiration efficiency versus growth: Exploring the banana biodiversity for drought tolerance. <i>Scientia Horticulturae</i> , 2015, 185, 175-182.	3.6	53
64	A look behind the screens: Characterization of the HSP70 family during osmotic stress in a non-model crop. <i>Journal of Proteomics</i> , 2015, 119, 10-20.	2.4	19
65	Data for the characterization of the HSP70 family during osmotic stress in banana, a non-model crop. <i>Data in Brief</i> , 2015, 3, 78-84.	1.0	10
66	Identification of the major regenerative III protein (RegIII) in the porcine intestinal mucosa as RegIII <sup>3</sup> , not RegIII <sup>±</sup> . <i>Veterinary Immunology and Immunopathology</i> , 2015, 167, 51-56.	1.2	10
67	Exploring the Potential of Genetic Diversity via Proteomics: Past, Present, and Future Perspectives for Banana. <i>Sustainable Development and Biodiversity</i> , 2015, , 311-323.	1.7	0
68	Evaluation of four different strategies to characterize plasma membrane proteins from banana roots. <i>Ciencia E Agrotecnologia</i> , 2014, 38, 424-434.	1.5	1
69	Fine tuning of trehalose biosynthesis and hydrolysis as novel tools for the generation of abiotic stress tolerant plants. <i>Frontiers in Plant Science</i> , 2014, 5, 147.	3.6	145
70	Improving the identification rate of data independent label-free quantitative proteomics experiments on non-model crops: A case study on apple fruit. <i>Journal of Proteomics</i> , 2014, 105, 31-45.	2.4	44
71	Problems inherent to a meta-analysis of proteomics data: A case study on the plants' response to Cd in different cultivation conditions. <i>Journal of Proteomics</i> , 2014, 108, 30-54.	2.4	19
72	Enamel defects on the maxillary premolars in patients with cleft lip and/or palate: a retrospective case-control study. <i>European Archives of Paediatric Dentistry: Official Journal of the European Academy of Paediatric Dentistry</i> , 2014, 15, 159-165.	1.9	10

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73	Cranio-maxillofacial, orthodontic and dental treatment in three patients with Apert syndrome. <i>European Archives of Paediatric Dentistry: Official Journal of the European Academy of Paediatric Dentistry</i> , 2014, 15, 281-289.	1.9	11
74	Proteome Analysis of Orphan Plant Species, Fact or Fiction?. <i>Methods in Molecular Biology</i> , 2014, 1072, 333-346.	0.9	13
75	A decade of plant proteomics and mass spectrometry: Translation of technical advancements to food security and safety issues. <i>Mass Spectrometry Reviews</i> , 2013, 32, 335-365.	5.4	70
76	Overexpression of the Trehalase Gene <i>AtTRE1</i> Leads to Increased Drought Stress Tolerance in <i>Arabidopsis</i> and Is Involved in Abscisic Acid-Induced Stomatal Closure. <i>Plant Physiology</i> , 2013, 161, 1158-1171.	4.8	117
77	The use of 2D-DIGE to understand the regeneration of somatic embryos in avocado. <i>Proteomics</i> , 2013, 13, 3498-3507.	2.2	25
78	Screening the banana biodiversity for drought tolerance: can an in vitro growth model and proteomics be used as a tool to discover tolerant varieties and understand homeostasis. <i>Frontiers in Plant Science</i> , 2012, 3, 176.	3.6	96
79	Development of in vitro technique to screen for drought tolerant banana varieties by sorbitol induced osmotic stress. <i>African Journal of Plant Science</i> , 2012, 6, 16-425.	0.7	14
80	Role of Bioinformatics as a Tool. , 2012, , 194-216.		0
81	FROM FUNDAMENTAL RESEARCH DISCOVERIES TO APPLICATIONS FOR BANANA IMPROVEMENT. <i>Acta Horticulturae</i> , 2011, , 47-53.	0.2	5
82	Genome-wide BAC-end sequencing of <i>Musa acuminata</i> DH Pahang reveals further insights into the genome organization of banana. <i>Tree Genetics and Genomes</i> , 2011, 7, 933-940.	1.6	3
83	Structure and regulation of the <i>Asr</i> gene family in banana. <i>Planta</i> , 2011, 234, 785-798.	3.2	59
84	The use of 2D-electrophoresis and de novo sequencing to characterize inter- and intra-cultivar protein polymorphisms in an allopolyploid crop. <i>Phytochemistry</i> , 2011, 72, 1243-1250.	2.9	33
85	A workflow for peptide-based proteomics in a poorly sequenced plant: A case study on the plasma membrane proteome of banana. <i>Journal of Proteomics</i> , 2011, 74, 1218-1229.	2.4	40
86	Challenges and solutions for the identification of membrane proteins in non-model plants. <i>Journal of Proteomics</i> , 2011, 74, 1165-1181.	2.4	28
87	Unraveling tobacco BY-2 protein complexes with BN PAGE/LC-MS/MS and clustering methods. <i>Journal of Proteomics</i> , 2011, 74, 1201-1217.	2.4	15
88	Plant Plasma Membrane Proteomics: Challenges and Possibilities. , 2011, , 411-434.		2
89	Did backcrossing contribute to the origin of hybrid edible bananas?. <i>Annals of Botany</i> , 2010, 106, 849-857.	2.9	79
90	Evaluation of chloroform/methanol extraction to facilitate the study of membrane proteins of non-model plants. <i>Planta</i> , 2010, 231, 1113-1125.	3.2	24

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91	In planta PCR-based detection of early infection of plant-parasitic nematodes in the roots: a step towards the understanding of infection and plant defence. <i>European Journal of Plant Pathology</i> , 2010, 128, 343-351.	1.7	14
92	Addressing the Challenge of Defining Valid Proteomic Biomarkers and Classifiers. <i>BMC Bioinformatics</i> , 2010, 11, 594.	2.6	108
93	2D-DIGE reveals changes in wheat xylanase inhibitor protein families due to <i>Fusarium graminearum</i> and <i>Tri5</i> infection and grain development. <i>Proteomics</i> , 2010, 10, 2303-2319.	2.2	28
94	Sugar-Mediated Acclimation: The Importance of Sucrose Metabolism in Meristems. <i>Journal of Proteome Research</i> , 2010, 9, 5038-5046.	3.7	30
95	2nd Combined Working Group and Management Committee Meeting of Urine and Kidney Proteomics COST Action 2930 March 2009, Nafplio, Greece. <i>Proteomics - Clinical Applications</i> , 2009, 3, 1017-1022.	1.6	9
96	A quantitative portrait of three xylanase inhibiting protein families in different wheat cultivars using 2D-DIGE and multivariate statistical tools. <i>Journal of Proteomics</i> , 2009, 72, 484-500.	2.4	15
97	Plant Protein Sample Preparation for 2-DE. <i>Springer Protocols</i> , 2009, , 109-119.	0.3	3
98	Treatment of missing values for multivariate statistical analysis of gel-based proteomics data. <i>Proteomics</i> , 2008, 8, 1371-1383.	2.2	56
99	Proteome analysis of non-model plants: A challenging but powerful approach. <i>Mass Spectrometry Reviews</i> , 2008, 27, 354-377.	5.4	180
100	Functional genomics in a non-model crop: transcriptomics or proteomics?. <i>Physiologia Plantarum</i> , 2008, 133, 117-130.	5.2	50
101	Finding the Significant Markers. <i>Methods in Molecular Biology</i> , 2008, 428, 327-347.	0.9	18
102	Functional Proteome Analysis of the Banana Plant ( <i>Musa spp.</i> ) Using de Novo Sequence Analysis of Derivatized Peptides. <i>Journal of Proteome Research</i> , 2007, 6, 70-80.	3.7	49
103	Banana ( <i>Musa spp.</i> ) as a model to study the meristem proteome: Acclimation to osmotic stress. <i>Proteomics</i> , 2007, 7, 92-105.	2.2	110
104	Proteomic analysis of core breakdown disorder in Conference pears ( <i>Pyrus communis L.</i> ). <i>Proteomics</i> , 2007, 7, 2083-2099.	2.2	74
105	Lyophilization, a Practical Way to Store and Transport Tissues Prior to Protein Extraction for 2DE Analysis?. <i>Proteomics</i> , 2007, 7, 64-69.	2.2	45
106	Preparation of protein extracts from recalcitrant plant tissues: An evaluation of different methods for two-dimensional gel electrophoresis analysis. <i>Proteomics</i> , 2005, 5, 2497-2507.	2.2	447
107	Controlled transgene dosage and PAC-mediated transgenesis in mice using a chromosomal vector. <i>Genomics</i> , 2003, 82, 596-605.	2.9	24