

# Luis Vicente Lopez-Llorca

## List of Publications by Citations

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76  
papers

2,753  
citations

30  
h-index

51  
g-index

81  
ext. papers

3,258  
ext. citations

4  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
76	Bactericidal and antifungal activities of a low molecular weight chitosan and its N-/2(3)-(dodec-2-enyl)succinoyl/-derivatives. <i>Carbohydrate Polymers</i> , <b>2006</b> , 64, 66-72	10.3	240
75	Colonization of plant roots by egg-parasitic and nematode-trapping fungi. <i>New Phytologist</i> , <b>2002</b> , 154, 491-499	9.8	143
74	Membrane fluidity determines sensitivity of filamentous fungi to chitosan. <i>Molecular Microbiology</i> , <b>2010</b> , 75, 1021-32	4.1	138
73	Purification and characterization of chitinases from the nematophagous fungi <i>Verticillium chlamydosporium</i> and <i>V. suchlasporium</i> . <i>Fungal Genetics and Biology</i> , <b>2002</b> , 35, 67-78	3.9	134
72	Fungal root endophytes from natural vegetation in Mediterranean environments with special reference to <i>Fusarium</i> spp. <i>FEMS Microbiology Ecology</i> , <b>2008</b> , 64, 90-105	4.3	108
71	Chitosan permeabilizes the plasma membrane and kills cells of <i>Neurospora crassa</i> in an energy dependent manner. <i>Fungal Genetics and Biology</i> , <b>2009</b> , 46, 585-94	3.9	107
70	Effect of chitosan on hyphal growth and spore germination of plant pathogenic and biocontrol fungi. <i>Journal of Applied Microbiology</i> , <b>2008</b> , 104, 541-53	4.7	101
69	Real-time PCR quantification and live-cell imaging of endophytic colonization of barley ( <i>Hordeum vulgare</i> ) roots by <i>Fusarium equiseti</i> and <i>Pochonia chlamydosporia</i> . <i>New Phytologist</i> , <b>2009</b> , 182, 213-228	9.8	96
68	Colonisation of barley roots by endophytic <i>Fusarium equiseti</i> and <i>Pochonia chlamydosporia</i> : Effects on plant growth and disease. <i>Annals of Applied Biology</i> , <b>2009</b> , 155, 391-401	2.6	91
67	Proteomic analysis of date palm ( <i>Phoenix dactylifera</i> L.) responses to endophytic colonization by entomopathogenic fungi. <i>Electrophoresis</i> , <b>2009</b> , 30, 2996-3005	3.6	84
66	Sequencing and functional analysis of the genome of a nematode egg-parasitic fungus, <i>Pochonia chlamydosporia</i> . <i>Fungal Genetics and Biology</i> , <b>2014</b> , 65, 69-80	3.9	81
65	Pre-penetration events in fungal parasitism of nematode eggs. <i>Mycological Research</i> , <b>2002</b> , 106, 499-506		67
64	Molecular Mechanisms of Chitosan Interactions with Fungi and Plants. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	66
63	Effects on plant growth and root-knot nematode infection of an endophytic GFP transformant of the nematophagous fungus <i>Pochonia chlamydosporia</i> . <i>Symbiosis</i> , <b>2012</b> , 57, 33-42	3	64
62	Colonisation of seminal roots of wheat and barley by egg-parasitic nematophagous fungi and their effects on <i>Gaeumannomyces graminis</i> var. <i>tritici</i> and development of root-rot. <i>Soil Biology and Biochemistry</i> , <b>2005</b> , 37, 1229-1235	7.5	63
61	Immunocytochemical localization of a 32-kDa protease from the nematophagous fungus <i>Verticillium suchlasporium</i> in infected nematode eggs. <i>Experimental Mycology</i> , <b>1992</b> , 16, 261-267		55
60	Endophytic colonization of barley ( <i>Hordeum vulgare</i> ) roots by the nematophagous fungus <i>Pochonia chlamydosporia</i> reveals plant growth promotion and a general defense and stress transcriptomic response. <i>Journal of Plant Research</i> , <b>2015</b> , 128, 665-78	2.6	54

59	Fungal egg-parasites of plant-parasitic nematodes from Spanish soils. <i>Revista Iberoamericana De Micologia</i> , <b>2002</b> , 19, 104-10	1.6	53
58	Fungal assemblages associated with roots of halophytic and non-halophytic plant species vary differentially along a salinity gradient. <i>Microbial Ecology</i> , <b>2012</b> , 64, 668-79	4.4	51
57	Colonization of barley roots by endophytic fungi and their reduction of take-all caused by <i>Gaeumannomyces graminis</i> var. <i>tritici</i> . <i>Canadian Journal of Microbiology</i> , <b>2008</b> , 54, 600-9	3.2	50
56	Expression of serine proteases in egg-parasitic nematophagous fungi during barley root colonization. <i>Fungal Genetics and Biology</i> , <b>2010</b> , 47, 342-51	3.9	47
55	Chitosan Increases Tomato Root Colonization by and Their Combination Reduces Root-Knot Nematode Damage. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1415	6.2	41
54	Infection of the red palm weevil ( <i>Rhynchophorus ferrugineus</i> ) by the entomopathogenic fungus <i>Beauveria bassiana</i> : a SEM study. <i>Microscopy Research and Technique</i> , <b>2010</b> , 73, 714-25	2.8	39
53	Chitosan enhances parasitism of <i>Meloidogyne javanica</i> eggs by the nematophagous fungus <i>Pochonia chlamydosporia</i> . <i>Fungal Biology</i> , <b>2016</b> , 120, 572-585	2.8	38
52	<i>Arabidopsis thaliana</i> root colonization by the nematophagous fungus <i>Pochonia chlamydosporia</i> is modulated by jasmonate signaling and leads to accelerated flowering and improved yield. <i>New Phytologist</i> , <b>2017</b> , 213, 351-364	9.8	38
51	Some isolates of the nematophagous fungus <i>Pochonia chlamydosporia</i> promote root growth and reduce flowering time of tomato. <i>Annals of Applied Biology</i> , <b>2015</b> , 166, 472-483	2.6	37
50	Identification of yeast genes that confer resistance to chitosan oligosaccharide (COS) using chemogenomics. <i>BMC Genomics</i> , <b>2012</b> , 13, 267	4.5	35
49	Protein extraction from <i>Phoenix dactylifera</i> L. leaves, a recalcitrant material, for two-dimensional electrophoresis. <i>Electrophoresis</i> , <b>2008</b> , 29, 448-56	3.6	35
48	Appressoria of the nematophagous fungus <i>verticillium suchlasporium</i> . <i>Micron and Microscopica Acta</i> , <b>1990</b> , 21, 125-130		35
47	Induction of auxin biosynthesis and WOX5 repression mediate changes in root development in <i>Arabidopsis</i> exposed to chitosan. <i>Scientific Reports</i> , <b>2017</b> , 7, 16813	4.9	31
46	Carbon and nitrogen limitation increase chitosan antifungal activity in <i>Neurospora crassa</i> and fungal human pathogens. <i>Fungal Biology</i> , <b>2015</b> , 119, 154-69	2.8	30
45	New media for the estimation of fungal infection in eggs of the cereal cyst nematode, <i>Heterodera avenae</i> Woll. <i>Nematologica</i> , <b>1986</b> , 32, 486-489		28
44	In vitro soil receptivity assays to egg-parasitic nematophagous fungi. <i>Mycological Progress</i> , <b>2006</b> , 5, 18-23.9		26
43	CAZyme content of <i>Pochonia chlamydosporia</i> reflects that chitin and chitosan modification are involved in nematode parasitism. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 4200-4215	5.2	26
42	Comparative analysis of extracellular proteins from <i>Pochonia chlamydosporia</i> grown with chitosan or chitin as main carbon and nitrogen sources. <i>Enzyme and Microbial Technology</i> , <b>2010</b> , 46, 568-574	3.8	25

41	Acoustic Assessment of <i>Beauveria bassiana</i> (Hypocreales: Clavicipitaceae) Effects on <i>Rhynchophorus ferrugineus</i> (Coleoptera: Dryophthoridae) Larval Activity and Mortality. <i>Journal of Economic Entomology</i> , <b>2015</b> , 108, 444-53	2.2	23
40	Study of biodegradation of starch-plastic films in soil using scanning electron microscopy. <i>Micron</i> , <b>1993</b> , 24, 457-463	2.3	22
39	Dityrosine, Trityrosine and Tetratyrosine, Potential Cross-Links in Structural Proteins of Plant-Parasitic Nematodes. <i>Nematologica</i> , <b>1989</b> , 35, 165-179		22
38	<i>Neurospora crassa</i> transcriptomics reveals oxidative stress and plasma membrane homeostasis biology genes as key targets in response to chitosan. <i>Molecular BioSystems</i> , <b>2016</b> , 12, 391-403		21
37	Nematophagous Fungi as Root Endophytes <b>2006</b> , 191-206		21
36	Gene cloning, molecular modeling, and phylogenetics of serine protease P32 and serine carboxypeptidase SCP1 from nematophagous fungi <i>Pochonia rubescens</i> and <i>Pochonia chlamydosporia</i> . <i>Canadian Journal of Microbiology</i> , <b>2012</b> , 58, 815-27	3.2	20
35	New Initiatives for Management of Red Palm Weevil Threats to Historical Arabian Date Palms*. <i>Florida Entomologist</i> , <b>2011</b> , 94, 733-736	1	20
34	Expression and specificity of a chitin deacetylase from the nematophagous fungus <i>Pochonia chlamydosporia</i> potentially involved in pathogenicity. <i>Scientific Reports</i> , <b>2018</b> , 8, 2170	4.9	19
33	for Investigating Chitosan as an Antifungal and Gene Modulator. <i>Journal of Fungi (Basel, Switzerland)</i> , <b>2016</b> , 2,	5.6	19
32	Cell wall composition plays a key role on sensitivity of filamentous fungi to chitosan. <i>Journal of Basic Microbiology</i> , <b>2016</b> , 56, 1059-1070	2.7	18
31	Chitosan Induces Plant Hormones and Defenses in Tomato Root Exudates. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 572087	6.2	17
30	Ultrastructure of Infection of Cyst Nematode Eggs By the Nematophagous Fungus <i>Verticillium Suchlaspori</i> Um. <i>Nematologica</i> , <b>1993</b> , 39, 65-74		16
29	Identification of <i>Acremonium</i> isolates from grapevines and evaluation of their antagonism towards <i>Plasmopara viticola</i> . <i>Annals of Microbiology</i> , <b>2015</b> , 65, 2393-2403	3.2	13
28	Endophytic fungi associated with roots of date palm ( <i>Phoenix dactylifera</i> ) in coastal dunes. <i>Revista Iberoamericana De Micologia</i> , <b>2017</b> , 34, 116-120	1.6	12
27	Genome and secretome analysis of <i>Pochonia chlamydosporia</i> provide new insight into egg-parasitic mechanisms. <i>Scientific Reports</i> , <b>2018</b> , 8, 1123	4.9	12
26	Growth inhibition of nematophagous and entomopathogenic fungi by leaf litter and soil containing phenols. <i>Mycological Research</i> , <b>1997</b> , 101, 691-697		12
25	Ethanol production from chitosan by the nematophagous fungus <i>Pochonia chlamydosporia</i> and the entomopathogenic fungi <i>Metarhizium anisopliae</i> and <i>Beauveria bassiana</i> . <i>Microbiological Research</i> , <b>2017</b> , 204, 30-39	5.3	11
24	Endochitinase activity determination using N-fluorescein-labeled chitin. <i>Journal of Proteomics</i> , <b>2004</b> , 60, 29-38		11

23	Degradation of insect cuticle by <i>Paecilomyces farinosus</i> proteases. <i>Mycological Progress</i> , <b>2002</b> , 1, 249-256.9	10
22	Histopathology of infection of the palm <i>Washingtonia filifera</i> with the pink bud rot fungus <i>Penicillium vermoesenii</i> . <i>Mycological Research</i> , <b>1994</b> , 98, 1195-1199	10
21	Chitosan increases conidiation in fungal pathogens of invertebrates. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 87, 2237-45	5.7 8
20	Mycobiota of the date palm phylloplane: description and interactions. <i>Revista Iberoamericana De Micologia</i> , <b>2007</b> , 24, 299-304	1.6 8
19	Volatile Organic Compounds from Entomopathogenic and Nematophagous Fungi, Repel Banana Black Weevil (). <i>Insects</i> , <b>2020</b> , 11,	2.8 8
18	Tolerance to chitosan by <i>Trichoderma</i> species is associated with low membrane fluidity. <i>Journal of Basic Microbiology</i> , <b>2016</b> , 56, 792-800	2.7 7
17	Assessing fungal root colonization for plant improvement. <i>Plant Signaling and Behavior</i> , <b>2009</b> , 4, 445-7	2.5 6
16	Study of biofouling of Polyhydroxyalkanoate (PHA) films in water by scanning electron microscopy. <i>Micron</i> , <b>1994</b> , 25, 45-51	2.3 5
15	Chitosan modulates <i>Pochonia chlamydosporia</i> gene expression during nematode egg parasitism. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 4980-4997	5.2 5
14	Isolates of the Nematophagous Fungus <i>Pochonia chlamydosporia</i> Are Endophytic in Banana Roots and Promote Plant Growth. <i>Agronomy</i> , <b>2020</b> , 10, 1299	3.6 4
13	Volatile organic compounds from entomopathogenic and nematophagous fungi, repel banana black weevil ( <i>Cosmopolites sordidus</i> )	3
12	Multidisciplinary Analysis of <i>Cystoseira</i> sensu lato (SE Spain) Suggest a Complex Colonization of the Mediterranean. <i>Journal of Marine Science and Engineering</i> , <b>2020</b> , 8, 961	2.4 3
11	Chitosan inhibits septin-mediated plant infection by the rice blast fungus <i>Magnaporthe oryzae</i> in a protein kinase C and Nox1 NADPH oxidase-dependent manner. <i>New Phytologist</i> , <b>2021</b> , 230, 1578-1593	9.8 3
10	<i>Pochonia chlamydosporia</i> : Multitrophic Lifestyles Explained by a Versatile Genome <b>2017</b> , 197-207	2
9	Introduction (Historical and Overview) <b>2017</b> , 3-19	1
8	Chitosan inhibits septin-mediated plant infection by the rice blast fungus <i>Magnaporthe oryzae</i> in a Protein Kinase C and Nox1 NADPH oxidase-dependent manner	1
7	Chitosan induces plant hormones and defences in tomato root exudates	1
6	Detection of <i>Haplosporidium pinnae</i> from <i>Pinna nobilis</i> Faeces. <i>Journal of Marine Science and Engineering</i> , <b>2022</b> , 10, 276	2.4 1

- 5 New Insights on the Mode of Action of Fungal Pathogens of Invertebrates for Improving Their Biocontrol Performance **2011**, 203-225 ○
- 4 Chitosan induces differential transcript usage of chitosanase 3 encoding gene (csn3) in the biocontrol fungus *Pochonia chlamydosporia* 123.. *BMC Genomics*, **2022**, 23, 101 4.5 ○
- 3 Metabolomics **2017**, 169-181
- 2 Chitosan Biosynthesis and Degradation: A Way to Modulate Plant Defenses in Endophytic Biocontrol Agents?. *Progress in Biological Control*, **2020**, 109-125 0.6
- 1 A PCR based method to detect *Russula* spp. in soil samples and *Limodorum abortivum* roots in Mediterranean environments. *Forest Systems*, **2015**, 24, 019 0.9