# Carla Caruso

List of Publications by Year
in descending order

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Version: 2024-02-01

| 72 | 3,690 | 218677 | 128289 |
|---|---|---|---|
| papers | citations | 26 h-index | 60 g-index |

| 73 | 73 | 73 | 3626 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Sequence and Structure of a Human Glucose Transporter. Science, 1985, 229, 941-945. | 12.6 | 1,522 |
| 2 | Targeting KRAS in metastatic colorectal cancer: current strategies and emerging opportunities. Journal of Experimental and Clinical Cancer Research, 2018, 37, 57. | 8.6 | 140 |
| 3 | Induction of pathogenesis-related proteins in germinating wheat seeds infected with Fusarium culmorum. Plant Science, 1999, 140, 87-97. | 3.6 | 114 |
| 4 | Patient-derived xenografts: a relevant preclinical model for drug development. Journal of Experimental and Clinical Cancer Research, 2016, 35, 189. | 8.6 | 109 |
| 5 | Laccase from the white-rot fungus Trametes trogii. Applied Microbiology and Biotechnology, 1998, 49, 545-551. | 3.6 | 108 |
| 6 | Haemoglobin of the Antarctic fish Pagothenia bernacchii. Journal of Molecular Biology, 1992, 224, 449-460. | 4.2 | 96 |
| 7 | Effects of rice cystatin I expression in transgenic potato on Colorado potato beetle larvae. Plant Science, 1999, 140, 71-79. | 3.6 | 90 |
| 8 | Induction of PR proteins and resistance by the biocontrol agent Clonostachys rosea in wheat plants infected with Fusarium culmorum. Plant Science, 2008, 175, 339-347. | 3.6 | 88 |
| 9 | Structural and antifungal properties of a pathogenesis-related protein from wheat kernel. The Protein Journal, 1996, 15, 35-44. | 1.1 | 85 |
| 10 | A basic peroxidase from wheat kernel with antifungal activity. Phytochemistry, 2001, 58, 743-750. | 2.9 | 79 |
| 11 | Pathogen-responsive wheat PR4 genes are induced by activators of systemic acquired resistance and wounding. Plant Science, 2003, 164, 1067-1078. | 3.6 | 77 |
| 12 | Wheat pathogenesis-related proteins of class 4 have ribonuclease activity. FEBS Letters, 2004, 575, 71-76. | 2.8 | 77 |
| 13 | Crosstalk between salicylic acid and jasmonate in Arabidopsis investigated by an integrated proteomic and transcriptomic approach. Molecular BioSystems, 2013, 9, 1169. | 2.9 | 68 |
| 14 | Antifungal Activity of a Bowman-Birk-type Trypsin Inhibitor from Wheat Kernel. Journal of Phytopathology, 2000, 148, 477-481. | 1.0 | 63 |
| 15 | Structural basis of the antifungal activity of wheat PR4 proteins. FEBS Letters, 2009, 583, 2865-2871. | 2.8 | 59 |
| 16 | Suppression Subtractive Hybridization analysis provides new insights into the tomato (Solanum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1<br>Journal of Plant Physiology, 2016, 190, 79-94. | 3.5 | 56 |
| 17 | Human erythrocyte glucose-6-phosphate dehydrogenase. Identification of a reactive lysyl residue labelled with pyridoxal 5'-phosphate. FEBS Journal, 1988, 171, 485-489. | 0.2 | 46 |
| 18 | Epigenetic control of defense genes following MeJA-induced priming in rice ( O. sativa ). Journal of Plant Physiology, 2018, 228, 166-177. | 3.5 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Modular structure of HEL protein from Arabidopsis reveals new potential functions for PR-4 proteins. Biological Chemistry, 2012, 393, 1533-1546. | 2.5 | 42 |
| 20 | Proteomic Analysis of MeJa-Induced Defense Responses in Rice against Wounding. International Journal of Molecular Sciences, 2019, 20, 2525. | 4.1 | 42 |
| 21 | Cross activity of orthologous WRKY transcription factors in wheat and Arabidopsis. Journal of Experimental Botany, 2011, 62, 1975-1990. | 4.8 | 36 |
| 22 | Bacillus subtilis Vegetative Catalase Is an Extracellular Enzyme. Applied and Environmental Microbiology, 1995, 61, 4471-4473. | 3.1 | 36 |
| 23 | The hemoglobins of the cold-adapted Antarctic teleost Cygnodraco mawsoni. BBA - Proteins and Proteomics, 1991, 1078, 273-282. | 2.1 | 31 |
| 24 | The amino acid sequence of a protein from wheat kernel closely related to proteins involved in the mechanisms of plant defence. The Protein Journal, 1993, 12, 379-386. | 1.1 | 29 |
| 25 | Isolation and Characterisation of Wheat cDNA Clones Encoding PR4 Proteins. DNA Sequence, 1999, 10, 301-307. | 0.7 | 29 |
| 26 | Isolation and amino acid sequence of two new PR-4 proteins from wheat. The Protein Journal, 2001, 20, 327-335. | 1.1 | 29 |
| 27 | Structure and function of hemoglobin in antarctic fishes and evolutionary implications. Polar Biology, 1990, 10, 269-274. | 1.2 | 28 |
| 28 | Laser Microdissection of Grapevine Leaves Reveals Site-Specific Regulation of Transcriptional Response toPlasmopara viticola. Plant and Cell Physiology, 2016, 57, 69-81. | 3.1 | 25 |
| 29 | Fluoxetine or Sox2 reactivate proliferation-defective stem and progenitor cells of the adult and aged dentate gyrus. Neuropharmacology, 2018, 141, 316-330. | 4.1 | 21 |
| 30 | Hydroxytyrosol stimulates neurogenesis in aged dentate gyrus by enhancing stem and progenitor cell proliferation and neuron survival. FASEB Journal, 2020, 34, 4512-4526. | 0.5 | 21 |
| 31 | Antifungal activity of Vitex agnus-castus extract against Pythium ultimum in tomato. Crop Protection, 2013, 43, 223-230. | 2.1 | 20 |
| 32 | Characterization of extracellular proteases from Trametes trogii. Phytochemistry, 1996, 41, 385-393. | 2.9 | 19 |
| 33 | Recombinant Wheat Antifungal PR4 Proteins Expressed in Escherichia coli. Protein Expression and Purification, 2001, 23, 380-388. | 1.3 | 19 |
| 34 | Comparing the modeled structures of PR-4 proteins from wheat. Journal of Molecular Modeling, 2003, 9, 9-15. | 1.8 | 19 |
| 35 | Molecular and functional analysis of new members of the wheat PR4 gene family. Biological Chemistry, 2006, 387, 1101-1111. | 2.5 | 19 |
| 36 | GLYI4 Plays A Role in Methylglyoxal Detoxification and Jasmonate-Mediated Stress Responses in Arabidopsis thaliana. Biomolecules, 2019, 9, 635. | 4.0 | 18 |

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|---|---|---|---|
| 37 | Activation ofSulfolobus solfataricusAlcohol Dehydrogenase by Modification of Cysteine Residue 38 with Iodoacetic Acidâ€. Biochemistry, 1996, 35, 638-647. | 2.5 | 17 |
| 38 | Antifungal properties of chitinases from Castanea sativa against hypovirulent and virulent strains of the chestnut blight fungus Cryphonectria parasitica. Physiological and Molecular Plant Pathology, 1999, 55, 29-35. | 2.5 | 17 |
| 39 | A barnavirus sequence mined from a transcriptome of the Antarctic pearlwort Colobanthus quitensis. Archives of Virology, 2018, 163, 1921-1926. | 2.1 | 15 |
| 40 | What Antarctic Plants Can Tell Us about Climate Changes: Temperature as a Driver for Metabolic Reprogramming. Biomolecules, 2021, 11, 1094. | 4.0 | 15 |
| 41 | The amino acid sequence and reactive site of a single-headed trypsin inhibitor from wheat endosperm. The Protein Journal, 1994, 13, 187-194. | 1.1 | 14 |
| 42 | Constitutive over-expression of two wheat pathogenesis-related genes enhances resistance of tobacco plants to Phytophthora nicotianae. Plant Cell, Tissue and Organ Culture, 2008, 92, 73-84. | 2.3 | 14 |
| 43 | Amino acid sequence of the carboxy-terminal end of human erythrocyte glucose-6-phosphate dehydrogenase. Biochemical and Biophysical Research Communications, 1984, 118, 332-338. | 2.1 | 13 |
| 44 | In silico analysis of metatranscriptomic data from the Antarctic vascular plant Colobanthus quitensis: Responses to a global warming scenario through changes in fungal gene expression levels. Fungal Ecology, 2020, 43, 100873. | 1.6 | 13 |
| 45 | Assignment of protein disulphides by a computer method using mass spectrometric data. FEBS Letters, 1996, 393, 241-247. | 2.8 | 12 |
| 46 | Xanthomonas campestris lipooligosaccharides trigger innate immunity and oxidative burst in Arabidopsis. Plant Physiology and Biochemistry, 2014, 85, 51-62. | 5.8 | 12 |
| 47 | Estimating the genetic diversity and structure ofQuercus trojanaWebb populations in Italy by SSRs: implications for management and conservation. Canadian Journal of Forest Research, 2017, 47, 331-339. | 1.7 | 12 |
| 48 | The amino terminal sequence of the developmentally regulated Ch21 protein shows homology with amino terminal sequences of low molecular weight proteins binding hydrophobic molecules. Biochemical and Biophysical Research Communications, 1990, 168, 933-938. | 2.1 | 11 |
| 49 | Probing the modelled structure of Wheatwin1 by controlled proteolysis and sequence analysis of unfractionated digestion mixtures. , 1999, 36, 192-204. | | 11 |
| 50 | Genomic Resources Notes accepted 1 February 2015 - 31 March 2015. Molecular Ecology Resources, 2015, 15, 1014-1015. | 4.8 | 10 |
| 51 | Lack of cyclin D3 induces skeletal muscle fiber-type shifting, increased endurance performance and hypermetabolism. Scientific Reports, 2018, 8, 12792. | 3.3 | 10 |
| 52 | Physiological response of Posidonia oceanica to heavy metal pollution along the Tyrrhenian coast. Functional Plant Biology, 2019, 46, 933. | 2.1 | 10 |
| 53 | A Metabolic Profiling Analysis Revealed a Primary Metabolism Reprogramming in Arabidopsis glyI4 Loss-of-Function Mutant. Plants, 2021, 10, 2464. | 3.5 | 9 |
| 54 | Over-expression of a pathogenesis-related protein gene in transgenic tomato alters the transcription patterns of other defence genes. Journal of Horticultural Science and Biotechnology, 2006, 81, 27-32. | 1.9 | 8 |

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|---|---|---|---|
| 55 | Hydrolysis pattern of procasomorphin by gut proteases from plant parasite Heliothis zea, determined by sequence analyses performed on the unfractionated digestion mixtures. International Journal of Peptide and Protein Research, 1994, 43, 201-204. | 0.1 | 8 |
| 56 | The amino acid sequence of the single hemoglobin of the high-Antarctic fish Bathydraco marri Norman. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1992, 102, 941-946. | 0.2 | 7 |
| 57 | Hemoglobin from the Antarctic fish Notothenia coriiceps neglecta. Amino acid sequence of the beta chain. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1990, 96, 367-373. | 0.2 | 6 |
| 58 | Identification and validation of new reference genes for accurate quantitative reverse transcriptase-PCR normalization in the Antarctic plant Colobanthus quitensis under abiotic stress conditions. Polar Biology, 2021, 44, 389-405. | 1.2 | 5 |
| 59 | Determination of the primary structure of homologous proteins by sequence analysis of peptide mixtures. The Protein Journal, 1996, 15, 405-412. | 1.1 | 4 |
| 60 | Structural properties of the protein SV-IV. FEBS Journal, 2004, 271, 263-271. | 0.2 | 4 |
| 61 | Molecular Characterization of a Wheat Protein Induced by Vernalisation. Protein Journal, 2009, 28, 253-262. | 1.6 | 4 |
| 62 | Deepening TOL and TOU catabolic pathways of Pseudomonas sp. OX1: Cloning, sequencing and characterization of the lower pathways. Biochimie, 2013, 95, 241-250. | 2.6 | 4 |
| 63 | An algorithm to determine protein sequence alignment by utilizing data obtained from a peptide mixture and individual peptides. Bioinformatics, 1994, 10, 489-494. | 4.1 | 3 |
| 64 | An algorithm to analyse the hydrolysis pathway of peptides and proteins by sequence analyses of unfractionated digestion mixtures. Bioinformatics, 1996, 12, 81-88. | 4.1 | 3 |
| 65 | CysMap and CysJoin: Database and tools for protein disulphides localisation. FEBS Letters, 2005, 579, 3048-3054. | 2.8 | 3 |
| 66 | Xenograft as In Vivo Experimental Model. Methods in Molecular Biology, 2018, 1692, 97-105. | 0.9 | 3 |
| 67 | Chemical modification of phosphorylase b by tetranitromethane. Identification of a functional tyrosyl residue. FEBS Journal, 1987, 166, 547-552. | 0.2 | 2 |
| 68 | Acetohydroxy acid synthase and threonine deaminase activities, and the biosynthesis of isoleucine-leucine-valine in Streptococcus bovis. Research in Microbiology, 1993, 144, 539-545. | 2.1 | 2 |
| 69 | A computer program to compare sequence fingerprints of homologous proteins for the rapid assessment of their primary structure differences. The Protein Journal, 1998, 17, 867-873. | 1.1 | 2 |
| 70 | Probing the modelled structure of Wheatwin1 by controlled proteolysis and sequence analysis of unfractionated digestion mixtures. Proteins: Structure, Function and Bioinformatics, 1999, 36, 192-204. | 2.6 | 1 |
| 71 | PROLANG: the SCAN command. Bioinformatics, 1990, 6, 403-403. | 4.1 | 0 |
| 72 | Abstract 266: The G-quadruplex ligand EMICORON potentiates the antitumor efficacy of chemotherapy on colon cancer experimental models. , 2016, , . | | 0 |