



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



CARLOS MUJICA JIMENEZ

Datos Generales

Nombre: CARLOS MUJICA JIMENEZ

Máximo nivel de estudios: MAESTRÍA

Antigüedad académica en la UNAM: 34 años

Nombramientos

Vigente: TECNICO ACADEMICO TITULAR A TC Definitivo
Facultad de Química
Desde 01-02-2018

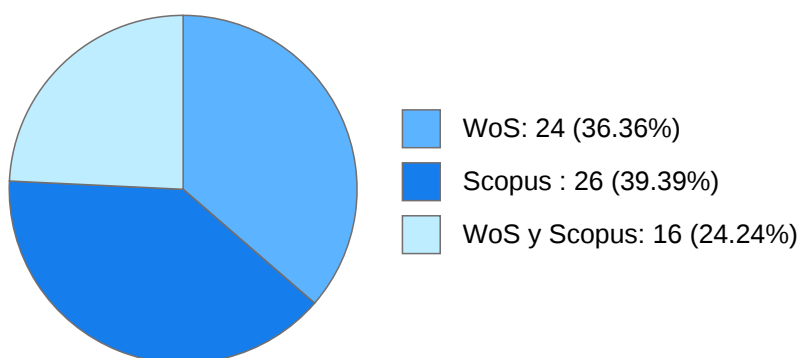
Estímulos, programas, premios y reconocimientos

PRIDE C - 2024

CARLOS MUJICA JIMENEZ

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	The structural basis for the broad aldehyde specificity of the aminoaldehyde dehydrogenase PauC from the human pathogen <i>Pseudomonas aeruginosa</i>	LILIAN GONZALEZ SEGURA ROGELIO RODRIGUEZ SOTRES CARLOS MUJICA JIMENEZ et al.	PROTEIN SCIENCE	2025
2	Substrate Specificity in Promiscuous Enzymes: The Case of the Aminoaldehyde Dehydrogenases from <i>Pseudomonas aeruginosa</i>	ROSARIO ADELAIDA MUÑOZ CLARES CARLOS MUJICA JIMENEZ SEBASTIAN MARTINEZ FLORES et al.	Journal Of The Mexican Chemical Society	2023
3	The critical role of the aldehyde dehydrogenase PauC in spermine, spermidine, and diamino propane toxicity in <i>Pseudomonas aeruginosa</i> : Its possible use as a drug target	JOSE IGNACIO REGLA CONTRERAS JAVIER ANDRES JUAREZ DIAZ MANUEL LOPEZ ORTIZ et al.	FEBS JOURNAL	2022
4	Multiple conformations in solution of the maize C4-phosphoenolpyruvate carboxylase isozyme	FATIMA BARREDA HUERTA ISMAEL BUSTOS JAIMES CARLOS MUJICA JIMENEZ et al.	Heliyon	2021
5	Structural and biochemical evidence of the glucose 6-phosphate-allosteric site of maize C-4-phosphoenolpyruvate carboxylase: its importance in the overall enzyme kinetics	ROSARIO ADELAIDA MUÑOZ CLARES LILIAN GONZALEZ SEGURA JAVIER ANDRES JUAREZ DIAZ et al.	BIOCHEMICAL JOURNAL	2020

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6	Identification of the allosteric site for neutral amino acids in the maize C-4 isozyme of phosphoenolpyruvate carboxylase: The critical role of Ser-100	LILIAN GONZALEZ SEGURA CARLOS MUJICA JIMENEZ JAVIER ANDRES JUAREZ DIAZ et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	2018
7	Reversible, partial inactivation of plant betaine aldehyde dehydrogenase by betaine aldehyde: mechanism and possible physiological implications	CARLOS MUJICA JIMENEZ CARMINA MONTIEL PACHECO ROSARIO ADELAIDA MUÑOZ CLARES et al.	BIOCHEMICAL JOURNAL	2016
8	Inactivation of beta ine aldehyde dehydrogenase from spinach by its physiological substrate beta ine aldehyde	ROSARIO ADELAIDA MUÑOZ CLARES Andres ZarateRomero Dario S. MurilloMelo et al.	PROTEIN SCIENCE	2015
9	Exploring the evolutionary route of the acquisition of betaine aldehyde dehydrogenase activity by plant ALDH10 enzymes: implications for the synthesis of the osmoprotectant glycine betaine	ROSARIO ADELAIDA MUÑOZ CLARES HECTOR RIVEROS ROSAS GEORGINA REGINA GARZA RAMOS MARTINEZ et al.	BMC PLANT BIOLOGY	2014
10	Potassium and Ionic Strength Effects on the Conformational and Thermal Stability of Two Aldehyde Dehydrogenases Reveal Structural and Functional Roles of K+-Binding Sites	GEORGINA REGINA GARZA RAMOS MARTINEZ CARLOS MUJICA JIMENEZ ROSARIO ADELAIDA MUÑOZ CLARES	PLOS ONE	2013
11	Amino Acid Residues Critical for the Specificity for Betaine Aldehyde of the Plant ALDH10 Isoenzyme Involved in the Synthesis of Glycine Betaine	Angel G. Diaz Sanchez LILIAN GONZALEZ SEGURA CARLOS MUJICA JIMENEZ et al.	PLANT PHYSIOLOGY	2012
12	Allosteric regulation of the photosynthetic C4 isoenzyme of phosphoenolpyruvate carboxylase: A comparative study between enzymes from monocot and dicot plants	CARLOS MUJICA JIMENEZ ROSARIO ADELAIDA MUÑOZ CLARES Güémez-Toro R.	Journal Of The Mexican Chemical Society	2012
13	Reaction of the catalytic cysteine of betaine aldehyde dehydrogenase from Pseudomonas aeruginosa with arsenite-BAL and phenylarsine oxide	LILIAN GONZALEZ SEGURA CARLOS MUJICA JIMENEZ ROSARIO ADELAIDA MUÑOZ CLARES	CHEMICO-BIOLOGICAL INTERACTIONS	2009
14	The relevance of the complex kinetics of chloroplastic betaine aldehyde dehydrogenase for the 'in vivo' synthesis of the osmoprotectant glycine betaine	ROSARIO ADELAIDA MUÑOZ CLARES CELESTINO MONTIEL MALDONADO ISMAEL BUSTOS JAIMES et al.	NEW BIOTECHNOLOGY	2009

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15	Disulfiram irreversibly aggregates betaine aldehyde dehydrogenase - A potential target for antimicrobial agents against Pseudomonas aeruginosa	ROBERTO VELASCO GARCIA VICTOR JAVIER ZALDIVAR MACHORRO CARLOS MUJICA JIMENEZ et al.	BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS	2006
16	Betaine aldehyde dehydrogenase from Pseudomonas aeruginosa: Cloning, over-expression in Escherichia coli, and regulation by choline and salt	ROBERTO VELASCO GARCIA MIGUEL ANGEL RAMIREZ ROMERO CARLOS MUJICA JIMENEZ et al.	ARCHIVES OF MICROBIOLOGY	2006
17	Site-directed mutagenesis and homology modeling indicate an important role of cysteine 439 in the stability of betaine aldehyde dehydrogenase from Pseudomonas aeruginosa	LILIAN GONZALEZ SEGURA ROBERTO VELASCO GARCIA ENRIQUE RUDIÑO PIÑERA et al.	Biochimie	2005
18	Monovalent cations requirements for the stability of betaine aldehyde dehydrogenase from Pseudomonas aeruginosa, porcine kidney and amaranth leaves	ROBERTO VELASCO GARCIA CARLOS MUJICA JIMENEZ LLARAI CAROLINA GAVIRIA GONZALEZ et al.	CHEMICO-BIOLOGICAL INTERACTIONS	2003
19	Ligand-induced conformational changes of betaine aldehyde dehydrogenase from Pseudomonas aeruginosa and Amaranthus hypochondriacus L. leaves affecting the reactivity of the catalytic thiol	ROSARIO ADELAIDA MUÑOZ CLARES LILIAN GONZALEZ SEGURA CARLOS MUJICA JIMENEZ et al.	CHEMICO-BIOLOGICAL INTERACTIONS	2003
20	Complexes of NADH with betaine aldehyde dehydrogenase from leaves of the plant Amaranthus hypochondriacus L.	ROSARIO ADELAIDA MUÑOZ CLARES CARLOS MUJICA JIMENEZ	CHEMICO-BIOLOGICAL INTERACTIONS	2001
21	Physiological implications of the kinetics of maize leaf phosphoenolpyruvate carboxylase	CARLOS MUJICA JIMENEZ ROSARIO ADELAIDA MUÑOZ CLARES Tovar-Méndez A.	PLANT PHYSIOLOGY	2000
22	Rapid purification and properties of betaine aldehyde dehydrogenase from Pseudomonas aeruginosa	ROBERTO VELASCO GARCIA CARLOS MUJICA JIMENEZ GUILLERMO MENDOZA HERNANDEZ et al.	JOURNAL OF BACTERIOLOGY	1999
23	Studies of the allosteric properties of maize leaf phosphoenolpyruvate carboxylase with the phosphoenolpyruvate analog phosphomycin as activator	CARLOS MUJICA JIMENEZ ROSARIO ADELAIDA MUÑOZ CLARES Castellanos-Martínez A.	BIOCHIMICA ET BIOPHYSICA ACTA-PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY	1998

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24	Effects of glycerol on the kinetic properties of betaine aldehyde dehydrogenase	ROSARIO ADELAIDA MUÑOZ CLARES CARLOS MUJICA JIMENEZ ROGELIO RODRIGUEZ SOTRES et al.	Advances in Experimental Medicine and Biology	1997
25	Desensitization to glucose 6-phosphate of phosphoenolpyruvate carboxylase from maize leaves by pyridoxal 5'-phosphate	CARLOS MUJICA JIMENEZ ROSARIO ADELAIDA MUÑOZ CLARES Tovar-Méndez A.	BIOCHIMICA ET BIOPHYSICA ACTA-PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY	1997
26	Purification and characterization of betaine aldehyde dehydrogenase from pseudomonas aeruginosa	ROSARIO ADELAIDA MUÑOZ CLARES ROBERTO VELASCO GARCIA CARLOS MUJICA JIMENEZ	FASEB JOURNAL	1997
27	Influence of carbon source and CO ₂ -enrichment on biochemical parameters associated with photomixotrophia in maize callus cultures	MARTIN PEDRO VARGAS SUAREZ CARLOS MUJICA JIMENEZ ROSARIO ADELAIDA MUÑOZ CLARES et al.	JOURNAL OF PLANT PHYSIOLOGY	1996
28	Phosphoenolpyruvate carboxylase and malic enzyme in leaves of two populations of maize differing in grain yield	CARLOS MUJICA JIMENEZ ROSARIO ADELAIDA MUÑOZ CLARES Bouchan-Calix A.L. et al.	JOURNAL OF PLANT PHYSIOLOGY	1994



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LIBROS Y CAPITULOS CON ISBN

No se encuentran registros en la base de datos de Humanindex asociados a:

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PARTICIPACIÓN EN PROYECTOS

No se encuentran registros en la base de datos de SISEPRO asociados a:

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CARLOS MUJICA JIMENEZ

DOCENCIA IMPARTIDA

No se encuentran registros en la base de datos de DGAE asociados a:

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CARLOS MUJICA JIMENEZ

PATENTES

No se encuentran registros en la base de datos de patentes asociados a:

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FUENTES DE INFORMACIÓN

Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2025
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

Externos

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024