



**Sistema Integral de Información Académica**  
**Dirección General de Evaluación Institucional**  
**Reporte de Producción Académica**



**JOSE RAUNEL TINOCO VALENCIA**

## Datos Generales

**Nombre:** JOSE RAUNEL TINOCO VALENCIA

**Máximo nivel de estudios:** MAESTRÍA

**Antigüedad académica en la UNAM:** 29 años

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## Nombramientos

**Vigente:** TECNICO ACADEMICO TITULAR C TC Definitivo  
Instituto de Biotecnología  
Desde 01-11-2023

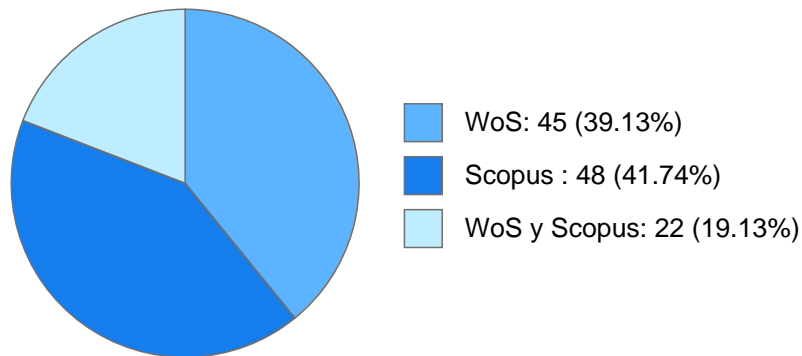
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## Estímulos, programas, premios y reconocimientos

SNI C 2010 - 2013  
PRIDE D - 2022

## DOCUMENTOS EN REVISTAS

### Histórico de Documentos



#	Título	Autores	Revista	Año
1	Response of <i>Bacillus velezensis</i> 83 to interaction with <i>Colletotrichum gloeosporioides</i> resembles a Greek phalanx-style formation: A stress resistant phenotype with antibiosis capacity	JOSE RAUNEL TINOCO VALENCIA ERNESTO ORTIZ SURI MARIA ESPERANZA MARTINEZ ROMERO et al.	MICROBIOLOGIC AL RESEARCH	2024
2	Production of poly- $\gamma$ -glutamic acid and spore formation in <i>Bacillus velezensis</i> 83 are affected by acidic growing conditions and glucose uptake rate	JOSE RAUNEL TINOCO VALENCIA LEOBARDO SERRANO CARREON Cristiano-Fajardo S.A. et al.	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOG Y	2024
3	Laccase?luminol chemiluminescence system: an investigation of substrate inhibition	JOSE RAUNEL TINOCO VALENCIA LEOBARDO SERRANO CARREON Sánchez-Trasviña C. et al.	Luminescence	2023
4	Bioprospecting of wild type ethanologenic yeast for ethanol fuel production from wastewater-grown microalgae	VIVIANA ESCOBAR SANCHEZ JOSE RAUNEL TINOCO VALENCIA MA. TERESA ORTA LEDESMA et al.	BIOTECHNOLOG Y FOR BIOFUELS	2021
5	PsrA positively regulates the unsaturated fatty acid synthesis operon <i>fabAB</i> in <i>Azotobacter vinelandii</i>	MIGUEL ANGEL VENCES GUZMAN MA. SOLEDAD MORENO LEON JOSE RAUNEL TINOCO VALENCIA et al.	MICROBIOLOGIC AL RESEARCH	2021



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6	Osmolyte Signatures for the Protection of <i>Aspergillus sydowii</i> Cells under Halophilic Conditions and Osmotic Shock	JOSE RAUNEL TINOCO VALENCIA NORMA SILVIA SANCHEZ SANCHEZ MARTHA EYDI RUSE CALAHORRA FUERTES et al.	Journal Of Fungi	2021
7	Efficient removal of azo-dye Orange II by fungal biomass absorption and laccase enzymatic treatment	JOSE RAUNEL TINOCO VALENCIA LEOBARDO SERRANO CARREON BRANDT BERTRAND et al.	3 Biotech	2020
8	Glucose limitation and glucose uptake rate determines metabolite production and sporulation in high cell density continuous cultures of <i>Bacillus amyloliquefaciens</i> 83	CELIA FLORES OCAMPO NOEMI FLORES MEJIA JOSE RAUNEL TINOCO VALENCIA et al.	JOURNAL OF BIOTECHNOLOGY	2019
9	Strategies based on aqueous two-phase systems for the separation of laccase from protease produced by <i>Pleurotus ostreatus</i>	JOSE RAUNEL TINOCO VALENCIA LEOBARDO SERRANO CARREON Sánchez-Trasviña C. et al.	FLUID PHASE EQUILIBRIA	2019
10	Inactivation of an intracellular poly-3-hydroxybutyrate depolymerase of <i>Azotobacter vinelandii</i> allows to obtain a polymer of uniform high molecular mass	CARLOS FELIPE PEÑA MALACARA ELDA GUADALUPE ESPIN OCAMPO JOSE RAUNEL TINOCO VALENCIA et al.	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	2018
11	Effects of bacillomycin D homologues produced by <i>Bacillus amyloliquefaciens</i> 83 on growth and viability of <i>Colletotrichum gloeosporioides</i> at different physiological stages	JOSE RAUNEL TINOCO VALENCIA GERARDO ALFONSO CORZO BURGUETE ENRIQUE GALINDO FENTANES et al.	BIOLOGICAL CONTROL	2018
12	Improved production, purification, and characterization of biosurfactants produced by <i>Serratia marcescens</i> SM3 and its isogenic SMRG-5 strain	JOSE RAUNEL TINOCO VALENCIA LEOBARDO SERRANO CARREON RENATO LEON RODRIGUEZ et al.	BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY	2018
13	Enhancing methyl parathion degradation by the immobilization of <i>Burkholderia</i> sp. isolated from agricultural soils	JOSE RAUNEL TINOCO VALENCIA JORGE LUIS FOLCH MALLOL Fernández-López, M.G. et al.	MICROBIOLOGY OPEN	2017
14	Diffusional and transcriptional mechanisms involved in laccases production by <i>Pleurotus ostreatus</i> CP50	NOEMI FLORES MEJIA JOSE RAUNEL TINOCO VALENCIA CELIA FLORES OCAMPO et al.	JOURNAL OF BIOTECHNOLOGY	2016



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15	Pleurotus ostreatus laccase recovery from residual compost using aqueous two-phase systems	JOSE RAUNEL TINOCO VALENCIA Mayolo-Deloisa, Karla Gonzalez-Gonzalez, Mirna et al.	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOG Y	2016
16	Validation of a general method for activity estimation of cyanide evolving oxidoreductases	Francisco Gasteazoro JOSE RAUNEL TINOCO VALENCIA MARIA BRENDA VALDERRAMA BLANCO et al.	ANALYTICAL BIOCHEMISTRY	2015
17	Production, purification and biochemical characterization of two laccase isoforms produced by Trametes versicolor grown on oak sawdust	JOSE RAUNEL TINOCO VALENCIA MartinezMorales, Fernando Pasion Nava, Angelica A. et al.	BIOTECHNOLOG Y LETTERS	2015
18	Impact of Meyerozyma guilliermondii isolated from chickens against Eimeria sp. protozoan, an in vitro analysis	JOSE RAUNEL TINOCO VALENCIA LEOBARDO SERRANO CARREON DantanGonzalez, Edgar et al.	BMC VETERINARY RESEARCH	2015
19	Biochemical and molecular characterization of laccase isoforms produced by the white-rot fungus Trametes versicolor under submerged culture conditions	JOSE RAUNEL TINOCO VALENCIA SONIA PATRICIA ROJAS TREJO Bertrand, Brandt et al.	JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC	2015
20	A comparative study of biodiesel purification with magnesium silicate and water	E. A. Duran JOSE RAUNEL TINOCO VALENCIA D. Eapen et al.	JOURNAL OF NEW MATERIALS FOR ELECTROCHEMI CAL SYSTEMS	2014
21	Potentiation of the synergistic activities of chitinases ChiA, ChiB and ChiC from Serratia marcescens CFFSUR-B2 by chitobiase (Chb) and chitin binding protein (CBP)	MICHAEL FREDERICK DUNN JOSE RAUNEL TINOCO VALENCIA Ingrid Gutierrez-Roman, Martha et al.	WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOG Y	2014
22	Induction of laccases in Trametes versicolor by aqueous wood extracts	JOSE RAUNEL TINOCO VALENCIA SONIA PATRICIA ROJAS TREJO LEOBARDO SERRANO CARREON et al.	WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOG Y	2014
23	Toward an understanding of the effects of agitation and aeration on growth and laccases production by Pleurotus ostreatus	JOSE RAUNEL TINOCO VALENCIA Cristina Gomez Cruz ENRIQUE GALINDO FENTANES et al.	JOURNAL OF BIOTECHNOLOG Y	2014



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24	Culturing <i>Neochloris oleoabundans</i> microalga in a nitrogen-limited, heterotrophic fed-batch system to enhance lipid and carbohydrate accumulation	Daniela Morales Sanchez JOSE RAUNEL TINOCO VALENCIA Mario A. Caro Bermudez et al.	ALGAL RESEARCH-BIO MASS BIOFUELS AND BIOPRODUCTS	2014
25	Iron effect on the fermentative metabolism of <i>Clostridium acetobutylicum</i> ATCC 824 using cheese whey as substrate	JOSE RAUNEL TINOCO VALENCIA Durán-Padilla V.R. Davila-Vazquez G. et al.	Biofuel Research Journal	2014
26	Identification of volatile compounds produced by the bacterium <i>Burkholderia tropica</i> that inhibit the growth of fungal pathogens	Silvia Tenorio Salgado JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT et al.	Bioengineered Bugs	2013
27	Heterotrophic growth of <i>Neochloris oleoabundans</i> using glucose as a carbon source	Daniela Morales Sanchez JOSE RAUNEL TINOCO VALENCIA ALFREDO MARTINEZ JIMENEZ et al.	BIOTECHNOLOGY FOR BIOFUELS	2013
28	Isolation of the <i>opdE</i> gene that encodes for a new hydrolase of <i>Enterobacter</i> sp capable of degrading organophosphorus pesticides	ALEJANDRA VAZQUEZ RAMOS JOSE RAUNEL TINOCO VALENCIA RAFAEL DIAZ MENDEZ et al.	Biodegradation	2012
29	Increasing <i>Pleurotus ostreatus</i> laccase production by culture medium optimization and copper/lignin synergistic induction	JOSE RAUNEL TINOCO VALENCIA Abisai Acevedo ENRIQUE GALINDO FENTANES et al.	JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY	2011
30	Halogenated pesticide transformation by a laccase-mediator system	Cristina Torres Duarte ROSA ROMAN MIRANDA JOSE RAUNEL TINOCO VALENCIA et al.	Chemosphere	2009
31	Stereoselective oxidation of R-(+)-limonene by chloroperoxidase from <i>Caldariomyces fumago</i>	RAFAEL VAZQUEZ DUHALT JOSE RAUNEL TINOCO VALENCIA Manuel Rivera et al.	GREEN CHEMISTRY	2008
32	Chloroperoxidase-mediated transformation of highly halogenated monoaromatic compounds	Adriana Longoria JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT	Chemosphere	2008
33	Chemical modification of turnip peroxidase with methoxypolyethylene glycol enhances activity and stability for phenol removal using the immobilized enzyme	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT Quintanilla-Guerrero, F. et al.	JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY	2008



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34	Role of oxidizing mediators and tryptophan 172 in the decoloration of industrial dyes by the versatile peroxidase from <i>Bjerkandera adusta</i>	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT Verdin J.	JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC	2007
35	Expression of the melA gene from <i>Rhizobium etli</i> CFN42 in <i>Escherichia coli</i> and characterization of the encoded tyrosinase	ALFREDO MARTINEZ JIMENEZ JOSE RAUNEL TINOCO VALENCIA RAMON DE ANDA HERRERA et al.	ENZYME AND MICROBIAL TECHNOLOGY	2006
36	Transformation of halogenated pesticides by versatile peroxidase from <i>Bjerkandera adusta</i>	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT Davila-Vazquez G. et al.	ENZYME AND MICROBIAL TECHNOLOGY	2005
37	Mycoremediation of soil contaminated with hydrocarbons	JOSE RAUNEL TINOCO VALENCIA Jáuregui-Rincón J. Araiza G.J.A. et al.	Proceedings Of The 8th International In Situ And On-Site Bioremediation Symposium	2005
38	Effect of pollutants on the ergosterol content as indicator of fungal biomass	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT Barajas-Aceves M. et al.	JOURNAL OF MICROBIOLOGICAL METHODS	2002
39	Enhanced activity by poly(ethylene glycol) modification of <i>Coriopsis gallica</i> laccase	RAFAEL VAZQUEZ DUHALT JOSE RAUNEL TINOCO VALENCIA Vandertol-Vanier H.A. et al.	JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY	2002
40	Kinetic differences of purified laccases from six <i>pleurotus ostreatus</i> strains	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT Pickard M.A.	LETTERS IN APPLIED MICROBIOLOGY	2001
41	Enzyme conjugation to the polysaccharide chitosan: Smart biocatalysts and biocatalytic hydrogels	RAFAEL VAZQUEZ DUHALT JOSE RAUNEL TINOCO VALENCIA D'Antonio P. et al.	BIOCONJUGATE CHEMISTRY	2001
42	Modified cytochrome c/H <sub>2</sub> O <sub>2</sub> system: Spectroscopic EPR investigation of the biocatalytic behaviour	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT Busi E. et al.	JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC	2000
43	Polycyclic aromatic hydrocarbon metabolism by white rot fungi and oxidation by <i>Coriopsis gallica</i> UAMH 8260 laccase	ROSA ROMAN MIRANDA JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT et al.	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	1999



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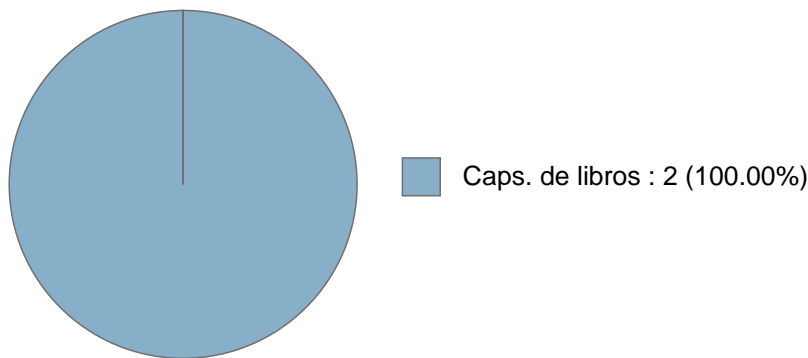
44	Chemical modification of cytochrome C improves their catalytic properties in oxidation of polycyclic aromatic hydrocarbons	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT	ENZYME AND MICROBIAL TECHNOLOGY	1998
45	Biocatalytic oxidation of fuel as an alternative to biodesulfurization	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT Hernandez V. et al.	FUEL PROCESSING TECHNOLOGY	1998
46	Biocatalytic oxidation of polycyclic aromatic hydrocarbons in media containing organic solvents	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT Torres E.	WATER SCIENCE AND TECHNOLOGY	1997
47	Biochemical method for chlorine dioxide determination	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT Hernandez-Saavedra D. et al.	ANALYTICAL BIOCHEMISTRY	1996
48	Solvent hydrophobicity predicts biocatalytic behaviour of lignin peroxidase and cytochrome c in aqueous solution of water-miscible organic solvents	JOSE RAUNEL TINOCO VALENCIA RAFAEL VAZQUEZ DUHALT Torres E.	JOURNAL OF BIOTECHNOLOG Y	1996



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**LIBROS Y CAPITULOS CON ISBN**

**Obras con registro ISBN**



#	Título	Autores	Alcance	Año	ISBN
1	Enzyme technology of peroxidases: Immobilization, chemical and genetic modification	JOSE RAUNEL TINOCO VALENCIA Longoria A. Torres E.	Capítulo de un Libro	2010	9783642126260
2	Enzyme technology of peroxidases. Immobilization, chemical and genetic modification	JOSE RAUNEL TINOCO VALENCIA	Capítulo de un Libro	2010	9783642126260





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**JOSE RAUNEL TINOCO VALENCIA**

**PARTICIPACIÓN EN PROYECTOS**

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

**JOSE RAUNEL TINOCO VALENCIA**



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**JOSE RAUNEL TINOCO VALENCIA**

**PARTICIPACIÓN EN TESIS**

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

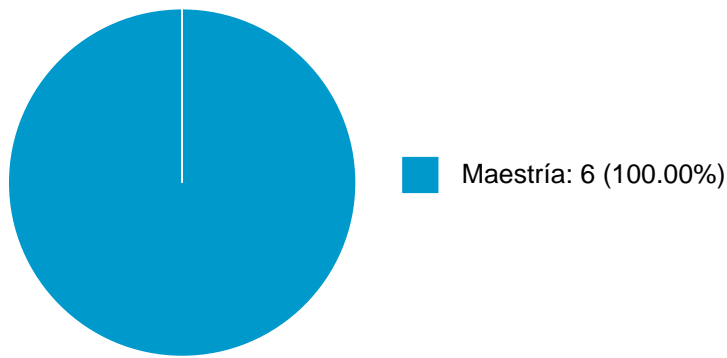
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**JOSE RAUNEL TINOCO VALENCIA**

**DOCENCIA IMPARTIDA**

**Histórico de docencia**



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	TRABAJO DE INVESTIGACIÓN III	Facultad de Ingeniería	1	2019-1
2	Maestría	TRABAJO DE INVESTIGACIÓN IV	Facultad de Ingeniería	1	2019-1
3	Maestría	TRABAJO DE INVESTIGACION II	Facultad de Ingeniería	1	2018-2
4	Maestría	TRABAJO DE INVESTIGACION III	Facultad de Ingeniería	1	2015-1
5	Maestría	TRABAJO DE INVESTIGACION IV	Facultad de Ingeniería	1	2015-1
6	Maestría	TRABAJO DE INVESTIGACION II	Facultad de Ingeniería	1	2014-2



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**JOSE RAUNEL TINOCO VALENCIA**

**TUTORIAS EN POSGRADO**

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

**JOSE RAUNEL TINOCO VALENCIA**



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**JOSE RAUNEL TINOCO VALENCIA**

**PATENTES**

#	Título	Inventores	Sección	Año
1	CONCENTRADO DE PROTEINAS DE FRIJOL CON PROPIEDADES NUTRIMENTALES Y FUNCIONALES, Y SU USO.	CAROLINA PEÑA MONTES, JOSE RAUNEL TINOCO VALENCIA, LEOBARDO SERRANO CARREON, et al.	HUMAN NECESSITIES	2020



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**JOSE RAUNEL TINOCO VALENCIA**

## FUENTES DE INFORMACIÓN

### Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2024
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2024
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2023
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

### Externos

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