



MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ

Datos Generales

Nombre: MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ

Máximo nivel de estudios: MAESTRÍA

Antigüedad académica en la UNAM: 48 años

Nombramientos

Vigente: INVESTIGADOR TITULAR C TC Definitivo
Instituto de Biotecnología
Desde 01-01-2008 (fecha inicial de registros en el SIIA)

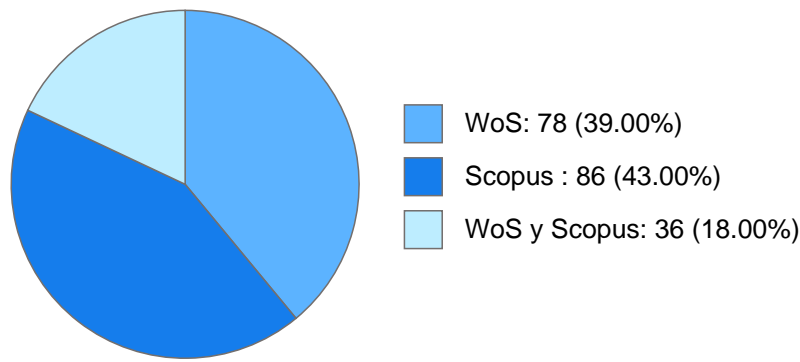
Estímulos, programas, premios y reconocimientos

SNI III 2022 - 2024
SNI III - 2020
PRIDE D 2010 - 2024
PRIDE C - 2010

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



| # | Título | Autores | Revista | Año |
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| 1 | Combination of Nitrogen-Enriched Zeolite and Arbuscular Mycorrhizal Symbiosis to Improve Growth of Maize (<i>Zea mays</i> L.) | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ OLIVIA SANTANA ESTRADA LUIS CARDENAS TORRES et al. | AGRONOMY-BA SEL | 2025 |
| 2 | A comprehensive, improved protocol for generating common bean (<i>Phaseolus vulgaris</i> L.) transgenic hairy roots and their use in reverse-genetics studies | GEORGINA ESTRADA NAVARRETE NOREIDE NAVA NUÑEZ MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ et al. | PLOS ONE | 2024 |
| 3 | The <i>Phaseolus vulgaris</i> Receptor-Like Kinase PvFER1 and the Small Peptides PvRALF1 and PvRALF6 Regulate Nodule Number as a Function of Nitrate Availability | NOREIDE NAVA NUÑEZ PAUL ROSAS SANTIAGO ALFONSO LEIJA SALAS et al. | INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES | 2023 |
| 4 | Corrigendum to "Phospholipase Ds in plants: Their role in pathogenic and symbiotic interactions" | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ Pacheco R. | PLANT PHYSIOLOGY AND BIOCHEMISTRY | 2023 |
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| 6 | Non-specific Lipid Transfer Proteins in Legumes and Their Participation During Root-Nodule Symbiosis | CITLALI FONSECA GARCIA MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ Solis-Miranda J. et al. | Frontiers In Agronomy | 2021 |
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| 9 | Identification of small open reading frames (sORFs) associated with heat tolerance in nitrogen-fixing root nodules of <i>Phaseolus vulgaris</i> wild-type and cv BAT93 | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ FEDERICO ESTEBAN SANCHEZ RODRIGUEZ CLAUDIA DIAZ CAMINO et al. | AUST J CROP SCI | 2021 |
| 10 | Actin depolymerizing factor modulates Rhizobial infection and nodule organogenesis in common bean | CITLALI FONSECA GARCIA NOREIDE NAVA NUÑEZ LUIS CARDENAS TORRES et al. | INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES | 2020 |
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| 13 | Transcriptome analysis of the differential effect of the NADPH oxidase gene <i>RbohB</i> in <i>Phaseolus vulgaris</i> roots following <i>Rhizobium tropici</i> and <i>Rhizopogon irregularis</i> inoculation | CITLALI FONSECA GARCIA NOREIDE NAVA NUÑEZ FEDERICO ESTEBAN SANCHEZ RODRIGUEZ et al. | Bmc Genomics | 2019 |
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| 36 | A Phaseolus vulgaris NADPH Oxidase Gene is Required for Root Infection by Rhizobia | JESUS FERNANDO MONTIEL AGUIRRE NOREIDE NAVA NUÑEZ LUIS CARDENAS TORRES et al. | PLANT AND CELL PHYSIOLOGY | 2012 |
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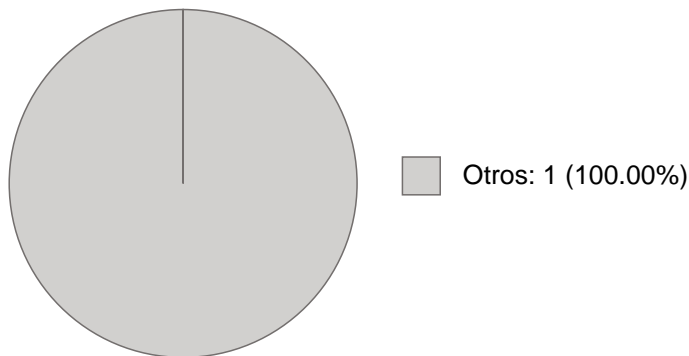
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Obras con registro ISBN

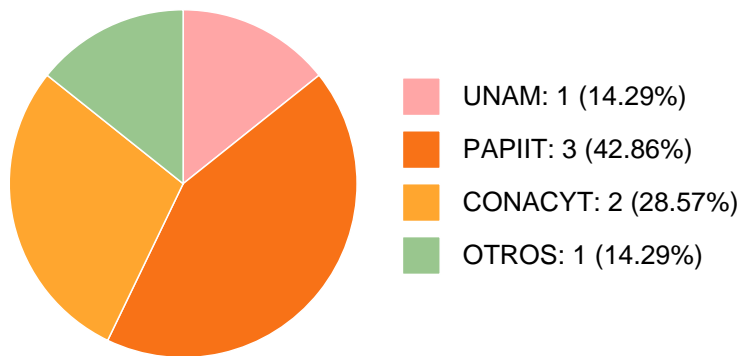


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| 1 | NADPH Oxidases Have Key Roles in Mutulistic Associations with Rhizobia or with Mycorrhizal Fungi in Root Legumes | JESUS FERNANDO MONTIEL AGUIRRE MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ D ZunigaDavila et al. | Proceedin gs Paper | 2019 | 9783030175979 |

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



| # | Nombre | Participantes | Fuente | Fecha inicio | Fecha fin |
|---|---|---|--|--------------|------------|
| 1 | Respuestas tempranas en la interacción Rhizobium - Leguminosa. | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ | Presupuesto de la UNAM asignado a la Dependencia | 01-01-2014 | 30-06-2021 |
| 2 | Análisis del efecto antagónico de las especies de oxígeno reactivas en la simbiosis de frijol con Rizobia y con hongos micorrizicos | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ | Recursos PAPIIT | 01-01-2015 | 30-03-2018 |
| 3 | Análisis funcional de ralf-feronia-ripk en raíces de frijol en simbiosis con rizobia y su impacto en la eficiencia de nodulación. | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ | Recursos PAPIIT | 01-01-2018 | 31-12-2020 |
| 4 | Especies de oxígeno reactivas en asociaciones mutualistas. | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ | Recursos CONACYT | 30-10-2018 | 30-05-2021 |
| 5 | Especies de oxígeno reactivas en asociaciones mutualistas | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ | Recursos CONACYT | 31-10-2018 | 30-11-2020 |



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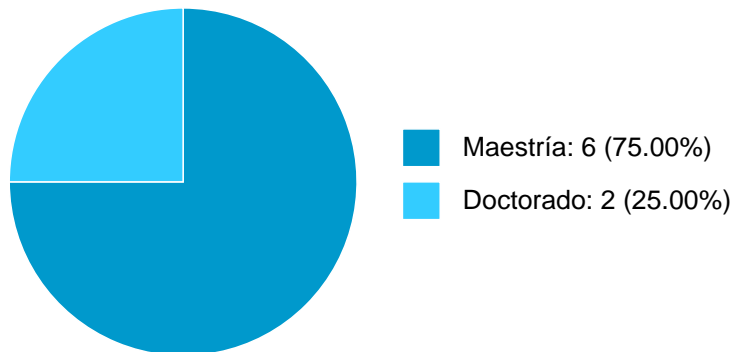
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|---|--|---|-------------------|------------|------------|
| 6 | Genómica funcional de genes de frijol identificados por análisis transcriptómicos en las etapas tempranas de la nodulación y de la micorrización | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ | Recursos PAPIIT | 01-01-2021 | 31-12-2023 |
| 7 | Fosfolipasas como reguladores de la interacción simbiótica frijol-rhizobia | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ | Recursos CONAHCyT | 01-07-2023 | 30-11-2025 |

MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ

PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



| # | Título del documento | Tipo de Tesis | Sinodales | Autores | Entidad | Año |
|---|--|--------------------|--|---|--|------|
| 1 | Análisis de la función de péptidos RALF y de la cinasa citoplasmática RIPK en frijol durante la simbiosis con rhizobia | Tesis de Doctorado | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ, | Solís Miranda, Jorge Esaú, | Instituto de Biotecnología, | 2021 |
| 2 | Caracterización funcional del gen pvFlap-IIa, que codifica una fosfolipasa A tipo patatina de frijol (<i>Phaseolus vulgaris</i> , L.), en la simbiosis con la rizobacteria <i>Rhizobium tropici</i> | Tesis de Maestría | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ, | Pacheco Sánchez, Ronal, | Instituto de Biotecnología, | 2019 |
| 3 | Análisis de la participación de feronia, un receptor tipo cinasa, en el desarrollo de los pelos radicales de frijol y en su asociación con rhizobia | Tesis de Maestría | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ, | Solis Miranda, Jorge Esau, | Instituto de Biotecnología, | 2016 |
| 4 | Efecto de trichoderma asperellum en la respuesta fisiológica y de defensa del maíz contra fusarium verticillioides | Tesis de Maestría | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ, | SOBEIDA SANCHEZ NIETO, ESTELA SANCHEZ QUINTANAR, et al. | Facultad de Química, Instituto de Biotecnología, | 2013 |

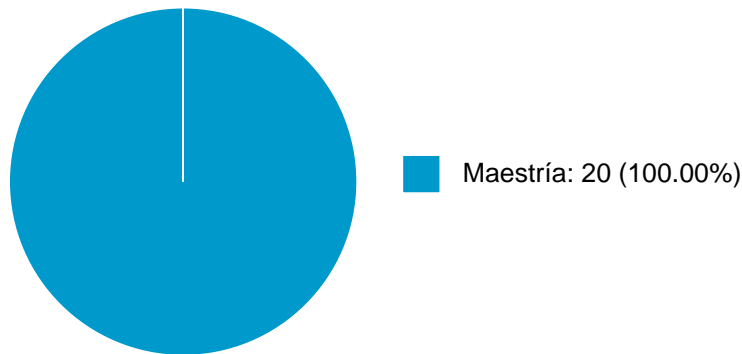
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| | | | | | |
|---|---|--------------------|--|------------------------------------|------|
| 5 | Expresión a tiempos cortos del gen de la peroxidasa rip1 de <i>Phaseolus vulgaris</i> en presencia de factores Nod | Tesis de Maestría | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ, | Montiel González, Jesús, | 2007 |
| 6 | El papel simbiótico del gen nodS de <i>Rhizobium tropici</i> y <i>Rhizobium etli</i> en la interacción <i>Rhizobium</i> -Leguminosa | Tesis de Maestría | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ, | Villalobos López, Miguel Ángel, | 1998 |
| 7 | Secuencia nucleotídica de la región de nodulación de <i>Rhizobium phaseoli</i> -CE3. | Tesis de Maestría | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ, | Dávalos Rodríguez, Araceli Elvira, | 1990 |
| 8 | Aislamiento y caracterización de los genes que intervienen en la nodulación del frijol por <i>Rhizobium phaseoli</i> | Tesis de Doctorado | MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ, | Cevallos Gaos, Miguel Ángel, | 1988 |

MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ

DOCENCIA IMPARTIDA

Histórico de docencia



| # | Nivel titulación | Asignatura | Entidad | Alumnos | Semestre |
|----|------------------|--------------------------------|----------------------------|---------|----------|
| 1 | Maestría | SEMINARIO DE INVESTIGACION III | Instituto de Biotecnología | 1 | 2018-2 |
| 2 | Maestría | TRABAJO DE INVESTIGACION III | Instituto de Biotecnología | 1 | 2018-2 |
| 3 | Maestría | SEMINARIO DE INVESTIGACION II | Instituto de Biotecnología | 1 | 2018-1 |
| 4 | Maestría | TRABAJO DE INVESTIGACION II | Instituto de Biotecnología | 1 | 2018-1 |
| 5 | Maestría | SEMINARIO DE INVESTIGACION III | Instituto de Biotecnología | 1 | 2016-1 |
| 6 | Maestría | TRABAJO DE INVESTIGACION III | Instituto de Biotecnología | 1 | 2016-1 |
| 7 | Maestría | SEMINARIO DE INVESTIGACION II | Instituto de Biotecnología | 1 | 2015-2 |
| 8 | Maestría | TRABAJO DE INVESTIGACION II | Instituto de Biotecnología | 1 | 2015-2 |
| 9 | Maestría | TRABAJO DE INVESTIGACION I | Instituto de Biotecnología | 1 | 2015-1 |
| 10 | Maestría | TRABAJO DE INVESTIGACION III | Facultad de Química | 1 | 2012-2 |
| 11 | Maestría | TRABAJO DE INVESTIGACION II | Facultad de Química | 1 | 2012-1 |
| 12 | Maestría | TRABAJO DE INVESTIGACION II | Instituto de Biotecnología | 1 | 2011-2 |
| 13 | Maestría | CURSO IV | Instituto de Biotecnología | 1 | 2010-2 |
| 14 | Maestría | CURSO IV | Instituto de Biotecnología | 3 | 2010-1 |
| 15 | Maestría | TRABAJO DE INVESTIGACION III | Facultad de Química | 1 | 2010-1 |
| 16 | Maestría | CURSO III | Instituto de Biotecnología | 1 | 2010-1 |
| 17 | Maestría | CURSO III | Instituto de Biotecnología | 1 | 2009-2 |
| 18 | Maestría | TRABAJO DE INVESTIGACION II | Facultad de Química | 1 | 2009-2 |
| 19 | Maestría | CURSO IV | Instituto de Biotecnología | 1 | 2009-2 |
| 20 | Maestría | CURSO IV | Instituto de Biotecnología | 1 | 2008-2 |



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MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ

PATENTES

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

MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ

MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ

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 | 2008-2024 |
| 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 |