



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



CHRISTOPHER DAVID WOOD

Datos Generales

Nombre: CHRISTOPHER DAVID WOOD

Máximo nivel de estudios: POSDOCTORADO

Antigüedad académica en la UNAM: 18 años

Nombramientos

Vigente: INVESTIGADOR TITULAR A TC Definitivo
Instituto de Biotecnología
Desde 16-08-2020

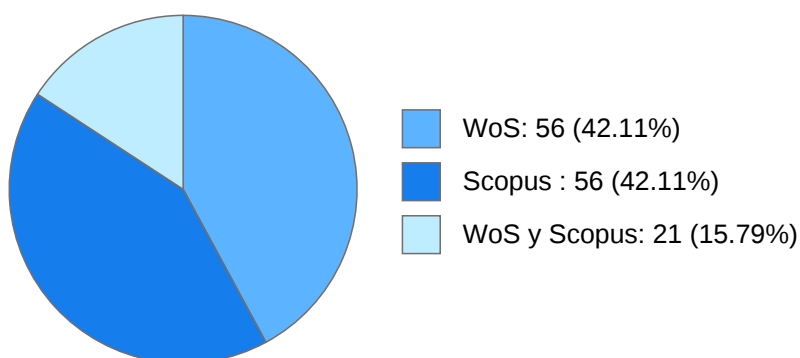
Estímulos, programas, premios y reconocimientos

SNI II 2023 - VIGENTE
SNI I 2020 - 2022
SNI II 2012 - 2015
SNI I 2009 - 2011
PRIDE D 2021 - 2024
PRIDE C 2011 - 2021
PRIDE B - 2011

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Building momentum through networks: Bioimaging across the Americas	LUIS FELIPE JIMENEZ GARCIA MARIA GLORIA SOLDEVILA MELGAREJO CHRISTOPHER DAVID WOOD et al.	JOURNAL OF MICROSCOPY	2024
2	Cholesterol-enriched nanodomains analysis by single molecule localization of UnaG-D4 cholesterol probe and transient formation and detection of BODIPY-cholesterol red-shifted dimers in the plasma membrane of mouse sperm	DAVID TORRES HERNANDEZ JOSE LUIS DE LA VEGA BELTRAN ALBERTO DARSZON ISRAEL et al.	BIOPHYSICAL JOURNAL	2023
3	A Machine Learning Workflow of Multiplexed Immunofluorescence Images to Interrogate Activator and Tolerogenic Profiles of Conventional Type 1 Dendritic Cells Infiltrating Melanomas of Disease-Free and Metastatic Patients	ADAN OSWALDO GUERRERO CARDENAS CHRISTOPHER DAVID WOOD LAURA CECILIA BONIFAZ ALFONZO et al.	Journal Of Oncology	2022
4	Fluorescence fluctuation-based super-resolution microscopy: Basic concepts for an easy start	CHRISTOPHER DAVID WOOD ADAN OSWALDO GUERRERO CARDENAS Alva A. et al.	JOURNAL OF MICROSCOPY	2022
5	Extending resolution within a single imaging frame	YASEL GARCES SUAREZ ALBERTO DARSZON ISRAEL CHRISTOPHER DAVID WOOD et al.	NATURE COMMUNICATIONS	2022

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6	FCSlib: An Open-Source Tool for Fluorescence Fluctuation Spectroscopy Analysis for Mobility, Number, and Molecular Brightness in R	HAYDEE HERNANDEZ RAMIREZ JOSE MARTINEZ OCHOA CHRISTOPHER DAVID WOOD et al.	BIOPHYSICAL JOURNAL	2021
7	A global view of standards for open image data formats and repositories	CHRISTOPHER DAVID WOOD Swedlow J.R. Kankaanpää P. et al.	NATURE METHODS	2021
8	Sperm chemotaxis is driven by the slope of the chemoattractant concentration field	MA. DEL CARMEN BELTRAN NUÑEZ CHRISTOPHER DAVID WOOD ALBERTO DARSZON ISRAEL et al.	eLife	2020
9	The nuclear receptor NR4A1 is regulated by SUMO modification to induce autophagic cell death	GABRIELA ZARRAGA GRANADOS CHRISTOPHER DAVID WOOD LUIS FERNANDO COVARRUBIAS ROBLES et al.	PLOS ONE	2020
10	The E6/E7 oncogenes of human papilloma virus and estradiol regulate hedgehog signaling activity in a murine model of cervical cancer	VERONICA ROJO LEON CELINA GARCIA MELENDREZ CONCEPCION VALENCIA GARCIA et al.	EXPERIMENTAL CELL RESEARCH	2019
11	Nanoscale organization of rotavirus replication machineries	CHRISTOPHER DAVID WOOD SUSANA LOPEZ CHARRETON ADAN OSWALDO GUERRERO CARDENAS et al.	eLife	2019
12	Root stem cell niche maintenance and apical meristem activity critically depend on THREONINE SYNTHASE1	SVETLANA SHISHKOVA SELENE NAPSUCIALY MENDIVIL JESUS FERNANDO MONTIEL AGUIRRE et al.	JOURNAL OF EXPERIMENTAL BOTANY	2019
13	Hedgehog signaling dynamics in mouse embryos determined by a bioluminescent reporter	LEANDRO DAVID HERNANDEZ GARCIA VERONICA ROJO LEON CHRISTOPHER DAVID WOOD et al.	INTERNATIONAL JOURNAL OF DEVELOPMENTAL BIOLOGY	2019
14	Spo0M: structure and function beyond regulation of sporulation	CHRISTOPHER DAVID WOOD LILIANA PARDO LOPEZ Vega-Cabrera, L.A.	CURRENT GENETICS	2018
15	Analysis of the Binding of Expansin ExII, from Pectobacterium carotovorum, to Plant Xylem and Comparison to EXLXI from Bacillus subtilis	CHRISTOPHER DAVID WOOD LORENZO PATRICK SEGOVIA FORCELLA CLAUDIA MARTINEZ ANAYA et al.	Acs Omega	2018
16	Lipid droplets in clusters negatively affect Bos indicus embryos during cryopreservation	EVA PATRICIA LOPEZ DAMIAN JOSE ALFREDO JIMENEZ MEDINA JAIME ARTURO PIMENTEL CABRERA et al.	ANATOMIA HISTOLOGIA EMBRYOLOGIA	2018
17	Analysis of Spo0M function in Bacillus subtilis	ADAN OSWALDO GUERRERO CARDENAS MARIA LUISA TABCHE BARRERA CHRISTOPHER DAVID WOOD et al.	PLOS ONE	2017

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18	Morphological, Biochemical, and Functional Study of Viral Replication Compartments Isolated from Adenovirus-Infected Cells	CHRISTOPHER DAVID WOOD Hidalgo, Paloma Anzures, Lourdes et al.	JOURNAL OF VIROLOGY	2016
19	Parallelizing the bayesian analysis of blinking and bleaching for super-resolution microscopy	HAYDEE HERNANDEZ RAMIREZ CHRISTOPHER DAVID WOOD ADAN OSWALDO GUERRERO CARDENAS et al.	Communications in Computer and Information Science	2016
20	RUNX super-enhancer control through the Notch pathway by Epstein-Barr virus transcription factors regulates B cell growth	CHRISTOPHER DAVID WOOD Gunnell A. Webb H.M. et al.	NUCLEIC ACIDS RESEARCH	2016
21	Automatic detection and measurement of viral replication compartments by ellipse adjustment	ADAN OSWALDO GUERRERO CARDENAS RAUL EDUARDO LOPEZ BETANCOURT CHRISTOPHER DAVID WOOD et al.	SCIENTIFIC REPORTS	2016
22	Understanding internalization of rotavirus VP6 nanotubes by cells: towards a recombinant vaccine	CHRISTOPHER DAVID WOOD ROSANA SANCHEZ LOPEZ OCTAVIO TONATIUH RAMIREZ REIVICH et al.	ARCHIVES OF VIROLOGY	2014
23	Niflumic acid disrupts marine spermatozoan chemotaxis without impairing the spatiotemporal detection of chemoattractant gradients	ADAN OSWALDO GUERRERO CARDENAS Jesus Espinal CHRISTOPHER DAVID WOOD et al.	JOURNAL OF CELL SCIENCE	2013
24	Modulation of Enhancer Looping and Differential Gene Targeting by Epstein-Barr Virus Transcription Factors Directs Cellular Reprogramming	CHRISTOPHER DAVID WOOD McClellan M.J. Ojeniyi O. et al.	PLOS PATHOGENS	2013
25	How sperm find the egg	ALBERTO DARSZON ISRAEL ALFONSO ELEAZAR GUERRERO TAPIA MAXIMINO ALDANA GONZALEZ et al.	FEBS JOURNAL	2011
26	Strategies for locating the female gamete: the importance of measuring sperm trajectories in three spatial dimensions	ADAN OSWALDO GUERRERO CARDENAS JAIME ARTURO PIMENTEL CABRERA CHRISTOPHER DAVID WOOD et al.	MOLECULAR HUMAN REPRODUCTION	2011
27	Discrete Dynamics Model for the Speract-Activated Ca ²⁺ Signaling Network Relevant to Sperm Motility	Jesus Espinal MAXIMINO ALDANA GONZALEZ ADAN OSWALDO GUERRERO CARDENAS et al.	PLOS ONE	2011
28	Upregulation of the cell-cycle regulator RGC-32 in epstein-barr virus-immortalized cells	CHRISTOPHER DAVID WOOD Schlick S.N. Gunnell A. et al.	PLOS ONE	2011
29	Measurement of single-cell dynamics	CHRISTOPHER DAVID WOOD Spiller, David G. Rand, David A. et al.	Nature	2010

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30	Reactive oxygen species: A radical role in development?	LEANDRO DAVID HERNANDEZ GARCIA CHRISTOPHER DAVID WOOD SUSANA CASTRO OBREGON et al.	FREE RADICAL BIOLOGY AND MEDICINE	2010
31	Tuning sperm chemotaxis by calcium burst timing	ADAN OSWALDO GUERRERO CARDENAS TAKUYA NISHIGAKI SHIMIZU CHRISTOPHER DAVID WOOD et al.	DEVELOPMENTAL BIOLOGY	2010
32	Tuning sperm chemotaxis	ADAN OSWALDO GUERRERO CARDENAS CHRISTOPHER DAVID WOOD TAKUYA NISHIGAKI SHIMIZU et al.	BIOCHEMICAL SOCIETY TRANSACTIONS	2010
33	Nuclear localization of p38 MAPK in response to DNA damage	CHRISTOPHER DAVID WOOD Thornton T.M. Sabio G. et al.	INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES	2009
34	Single live-cell imaging for systems biology	CHRISTOPHER DAVID WOOD Mullassery D. Horton C.A. et al.	Essays in Biochemistry	2008
35	Phosphorylation by p38 MAPK as an alternative pathway for GSK3 β inactivation	MARTIN GUSTAVO PEDRAZA ALVA CHRISTOPHER DAVID WOOD Thornton T.M. et al.	Science	2008
36	Tracking sperm in three-dimensions	GABRIEL ISAAC CORKIDI BLANCO BLANCA ITZELT TABOADA RAMIREZ CHRISTOPHER DAVID WOOD et al.	BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIO NS	2008
37	Sperm-activating peptides in the regulation of ion fluxes, signal transduction and motility	ALBERTO DARSZON ISRAEL ADAN OSWALDO GUERRERO CARDENAS TAKUYA NISHIGAKI SHIMIZU et al.	INTERNATIONAL JOURNAL OF DEVELOPMENTAL BIOLOGY	2008
38	Altering the speract-induced ion permeability changes that generate flagellar Ca ²⁺ spikes regulates their kinetics and sea urchin sperm motility	CHRISTOPHER DAVID WOOD TAKUYA NISHIGAKI SHIMIZU ALBERTO DARSZON ISRAEL et al.	DEVELOPMENTAL BIOLOGY	2007
39	Ion channels in sperm motility and capacitation.	ALBERTO DARSZON ISRAEL CLAUDIA LYDIA TREVIÑO SANTA CRUZ CHRISTOPHER DAVID WOOD et al.	Society of Reproduction and Fertility supplement	2007
40	Diacylglycerol and Protein Kinase D Localization during T Lymphocyte Activation	CHRISTOPHER DAVID WOOD Spitaler M. Emslie E. et al.	Immunity	2006

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41	Sperm channel diversity and functional multiplicity	ALBERTO DARSZON ISRAEL BLANCA ESTELA GALINDO BARRAZA TAKUYA NISHIGAKI SHIMIZU et al.	Reproduction	2006
42	Stroboscopic illumination using light-emitting diodes reduces phototoxicity in fluorescence cell imaging	TAKUYA NISHIGAKI SHIMIZU CHRISTOPHER DAVID WOOD ALBERTO DARSZON ISRAEL et al.	Biotechniques	2006
43	Calcium channels and Ca ²⁺ fluctuations in sperm physiology	ALBERTO DARSZON ISRAEL TAKUYA NISHIGAKI SHIMIZU CHRISTOPHER DAVID WOOD et al.	INT REV CYTOL	2005
44	Sperm-activating peptide induces asymmetric flagellar bending in sea urchin sperm	TAKUYA NISHIGAKI SHIMIZU CHRISTOPHER DAVID WOOD ALBERTO DARSZON ISRAEL et al.	ZOOLOGICAL SCIENCE	2005
45	Real-time analysis of the role of Ca ²⁺ in flagellar movement and motility in single sea urchin sperm	CHRISTOPHER DAVID WOOD TAKUYA NISHIGAKI SHIMIZU ALBERTO DARSZON ISRAEL et al.	JOURNAL OF CELL BIOLOGY	2005
46	Erratum: (Journal of Cell Biology (2005) 169:5 (725-731))	CHRISTOPHER DAVID WOOD TAKUYA NISHIGAKI SHIMIZU ALBERTO DARSZON ISRAEL et al.	JOURNAL OF CELL BIOLOGY	2005
47	Dual phospholipase C/diacylglycerol requirement for protein kinase D1 activation in lymphocytes	CHRISTOPHER DAVID WOOD Marklund U. Cantrell D.A.	JOURNAL OF BIOLOGICAL CHEMISTRY	2005
48	Measuring Ion Fluxes in Sperm	ALBERTO DARSZON ISRAEL CHRISTOPHER DAVID WOOD MA. DEL CARMEN BELTRAN NUÑEZ et al.	Methods in Cell Biology	2004
49	A sea urchin egg jelly peptide induces a cGMP-mediated decrease in sperm intracellular Ca ²⁺ before its increase	TAKUYA NISHIGAKI SHIMIZU CHRISTOPHER DAVID WOOD ALBERTO DARSZON ISRAEL et al.	DEVELOPMENTAL BIOLOGY	2004
50	Exploring the mechanism of action of the sperm-triggered calcium-wave pacemaker in ascidian zygotes	CHRISTOPHER DAVID WOOD Carroll M. Levasseur M. et al.	JOURNAL OF CELL SCIENCE	2003
51	Speract induces calcium oscillations in the sperm tail	CHRISTOPHER DAVID WOOD ALBERTO DARSZON ISRAEL Whitaker M.	JOURNAL OF CELL BIOLOGY	2003
52	Transcription inhibition induced by modified triple helix-forming oligonucleotides: A quantitative assay for evaluation in cells	CHRISTOPHER DAVID WOOD Faria M. White M.R.H. et al.	JOURNAL OF MOLECULAR BIOLOGY	2001
53	Characterization of the ethanol-inducible alc gene-expression system in Arabidopsis thaliana	CHRISTOPHER DAVID WOOD Roslan H.A. Salter M.G. et al.	PLANT JOURNAL	2001

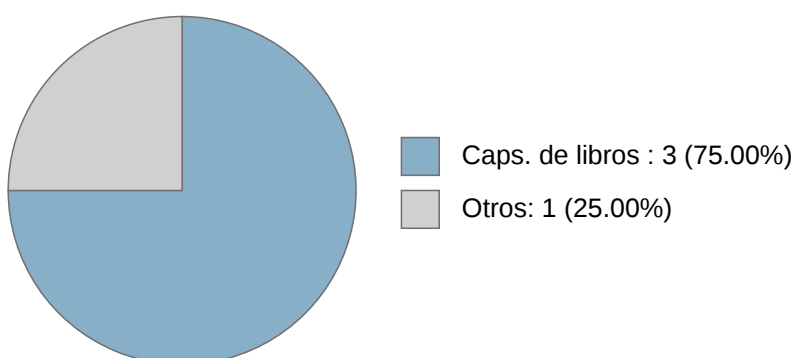
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54	Targeted inhibition of transcription elongation in cells mediated by triplex-forming oligonucleotides	CHRISTOPHER DAVID WOOD Faria M. Perrouault L. et al.	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	2000
55	Dynamic changes in prolactin promoter activation in individual living lactotrophic cells	CHRISTOPHER DAVID WOOD Takasuka N. White M.R.H. et al.	Endocrinology	1998
56	Real-time imaging of gene expression in single living cells	CHRISTOPHER DAVID WOOD Rutter G.A. Kennedy H.J. et al.	CHEMISTRY & BIOLOGY	1998
57	Efficiency of the OVATEC-1 unit for estrus detection and calf sex control in beef cows	CHRISTOPHER DAVID WOOD Wehner G.R. Tague A. et al.	ANIMAL REPRODUCTION SCIENCE	1997
58	Real-time imaging of transcription in living cells and tissues	CHRISTOPHER DAVID WOOD White M.R.H. Millar A.J.	BIOCHEMICAL SOCIETY TRANSACTIONS	1996

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

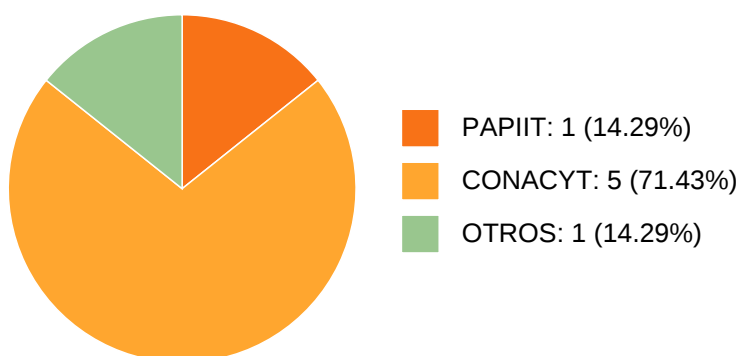


#	Título	Autores	Alcance	Año	ISBN
1	Fluorescence Fluctuation Microscopy in Living Cells	CHRISTOPHER DAVID WOOD ADAN OSWALDO GUERRERO CARDENAS	Capítulo de un Libro	2017	9788494213496
2	Parallelizing the bayesian analysis of blinking and bleaching for super-resolution microscopy	CHRISTOPHER DAVID WOOD ADAN OSWALDO GUERRERO CARDENAS	Capítulo de un Libro	2017	9783319322438
3	Sea Urchin Sperm Chemotaxis	CHRISTOPHER DAVID WOOD ADAN OSWALDO GUERRERO CARDENAS ALBERTO DARSZON ISRAEL	Capítulo de un Libro	2015	9781681081281
4	Three-dimensional image acquisition system for multi-sperm tracking	GABRIEL ISAAC CORKIDI BLANCO BLANCA ITZELT TABOADA RAMIREZ CHRISTOPHER DAVID WOOD et al.	Conferencia Paper	2008	9781424420032

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Determinación de la distribución de componentes de señalización en los flagelos de espermatozoides de erizo de mar que regulan su respuesta quimiotáctica	CHRISTOPHER DAVID WOOD	Recursos PAPIIT	01-01-2016	30-03-2018
2	Laboratorio Nacional de Microscopía Avanzada	CHRISTOPHER DAVID WOOD	Recursos CONACYT	06-04-2017	05-04-2018
3	Laboratorio Nacional de Microscopía Avanzada	CHRISTOPHER DAVID WOOD	Recursos CONACYT	03-05-2018	03-05-2019
4	Apoyo para la integración de Educascope. Microscopios de bajo costo y actividades didácticas para promover la apropiación social de ciencia y tecnología.	CHRISTOPHER DAVID WOOD	Recursos CONACYT	12-08-2019	30-04-2020
5	Laboratorio Nacional de Microscopía Avanzada.	CHRISTOPHER DAVID WOOD	Recursos CONACYT	14-08-2019	30-04-2020
6	Chan Zuckerberg Initiative Imaging Scientists Program (Cycle 2).	CHRISTOPHER DAVID WOOD HERNANDEZ HERRERA PAUL	Universidades, Centros, Institutos u Organismos Internacionales	30-12-2020	30-12-2024



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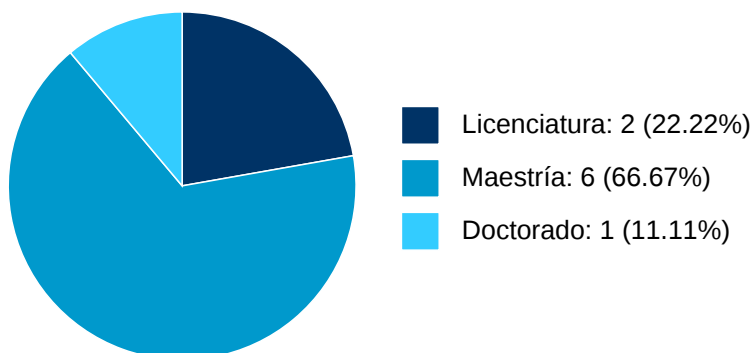
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7	Laboratorio Nacional de Microscopía Avanzada ? fortalecimiento.	CHRISTOPHER DAVID WOOD	Recursos CONACYT	10-09-2021	31-12-2021
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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Regulación de las actividades de la proteína adenoviral E1B-55K por fosforilación	Tesis de Doctorado	SUSANA CASTRO OBREGON,	CHRISTOPHE R DAVID WOOD, López Antonio, Raúl Eduardo,	Instituto de Biotecnología, Instituto de Fisiología Celular,	2023
2	Estudio de la organización nanoscópica de dominios enriquecidos en colesterol en la membrana del espermatozoide de ratón	Tesis de Maestría	CHRISTOPHER DAVID WOOD,	Torres Hernández, David,	Instituto de Biotecnología,	2020
3	Estudio del mecanismo de participación de la enzima dioxigenasa de escisión de carotenos 4 (CCD4) en la modulación del desarrollo de la hoja mediada por zeta-carotenos	Tesis de Maestría	PATRICIA LEON MEJIA,	SVETLANA SHISHKOVA, CHRISTOPHE R DAVID WOOD, et al.	Instituto de Biotecnología,	2017

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4	Implementación de un ensayo de bioluminiscencia en células individuales que determine cuantitativamente la dinámica transcripcional de dos promotores	Tesis de Maestría	CHRISTOPHER DAVID WOOD,	Fuentes Jiménez, Daniel Alberto,	Instituto de Biotecnología,	2015
5	Análisis de la expresión espacio-temporal de sonic hedgehog mediante el uso de luciferasa como reportero dinámico	Tesis de Maestría	CHRISTOPHER DAVID WOOD,	Bastidas Ponce, Aimee,	Instituto de Biotecnología,	2013
6	Construcción de un vector bicistrónico para medir calcio	Tesis de Licenciatura	CHRISTOPHER DAVID WOOD,	Albarrán Gutiérrez, Sara Ruth,	Instituto de Biotecnología,	2012
7	Optimización del protocolo para inducir diferenciación en monocapa adherente de células troncales embrionicas de ratón a células precursoras neurales	Tesis de Maestría	CHRISTOPHER DAVID WOOD,	Cruz Santos, Maria Concepcion,	Instituto de Biotecnología,	2012
8	Construcción de vectores que expresen sensores genéticos fluorescentes de calcio y peróxido de hidrógeno	Tesis de Licenciatura	CHRISTOPHER DAVID WOOD,	Rubio Alvarado, Paula Victoria,	Instituto de Biotecnología,	2010
9	Implicaciones de la relación entre los cambios del calcio/curvatura del flagelo en la quimiotaxis del espermatozoide del erizo de mar	Tesis de Maestría	CHRISTOPHER DAVID WOOD,	Guerrero Cárdenas, Adán Oswaldo,	Instituto de Biotecnología,	2008



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DOCENCIA IMPARTIDA

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

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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